



PrismaSeT P Specific Applications

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Floor-Standing Enclosures
for Electrical Distribution up to 3200 A

Version 2.1



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General Contents

Prisma**SeT** P Specific Applications

Index

A

Overview

B

Prisma**SeT** P 690 V AC

C

Prisma**SeT** P 800 V AC

D

Prisma**SeT** P Internal Arc

E

PrismaSeT P Specific Applications - Index

Index of Commercial References with Description

www.se.com

Com. ref.	Description	Page
1		
13735	LOT OF 10 STANDARD SYMBOLS LABELS	C-61, D-49, E-23
13736	LOT OF 10 SPECIAL SYMBOLS LABELS	C-61, D-49, E-23
14811	Acti9 C120 NG125 comb busbar 1P 27mm	E-100
14812	Acti9 C120 NG125 comb busbar 2P 27mm	E-100
14813	Acti9 C120 NG125 comb busbar 3P 27mm	E-100
14814	Acti9 C120 NG125 comb busbar 4P 27mm	E-100
14818	Acti9 C120 NG125 tooth cap set of 20	E-100
14885	4 INSULATED CONNECTORS	E-100

2		
28947	3 SNAP-IN TERMINAL BLOCS 95MM2	C-78, E-94
28948	4 SNAP-IN TERMINAL BLOCS 95MM2	C-78, E-94
29504	3 BIMETALLIC LUGS FOR ALU CABLE 150MM2 A	C-126, E-145
29505	4 BIMETALLIC LUGS FOR ALU CABLE 150MM2 A	C-126, E-145
29506	3 BIMETALLIC LUGS FOR ALU CABLE 185MM2 A	C-126, E-145
29507	4 BIMETALLIC LUGS FOR ALU CABLE 185MM2 A	C-126, E-145

3		
31301	ADDITIONAL CABLE LUG ADAPTERS 3P INS/INV	E-56
31302	ADDITIONAL CABLE LUG ADAPTERS 4P INS/INV	E-56
31310	OPTIONAL VERTICAL OR HORIZONTAL CONNECTI	E-56
32504	3 BIMETALLIC LUGS FOR ALU CABLE 240MM2 A	C-126, E-145
32505	4 BIMETALLIC LUGS FOR ALU CABLE 185MM2 A	C-126, E-145
32506	3 BIMETALLIC LUGS FOR ALU CABLE 300MM2 A	C-126, E-145
32507	4 BIMETALLIC LUGS FOR ALU CABLE 300MM2 A	C-126, E-145
33596	3P ARC CHUTE INSULATING SCREEN	E-47, E-48, E-49, E-51
33597	4P ARC CHUTE INSULATING SCREEN	E-47, E-48, E-49, E-51
33642	KIT 3P VERTICAL CONNECTION ADAPTERS	C-16, C-19, C-29, C-31, C-127, E-42, E-45, E-47, E-51, E-63, E-65, E-146, E-147
33643	KIT 4P VERTICAL CONNECTION ADAPTERS	C-16, C-29, C-31, C-127, E-42, E-47, E-51, E-63, E-65, E-146, E-147

Com. ref.	Description	Page
33644	3P CABLE LUG ADAPTER KIT	C-16, C-19, C-127, E-42, E-45, E-47, E-51, E-56, E-146, E-147
33645	4P CABLE LUG ADAPTER KIT	C-16, C-127, E-42, E-47, E-51, E-56, E-146, E-147
33975	CONNECTION 3P FOR NS1600/3200A	E-46
33976	CONNECTION 4P FOR NS1600/3200A	E-46
47335	ARC CHUTE INSULATING SCREEN FOR 3P FIXED	C-16, C-17, C-19, E-42, E-43, E-45

4		
47336	ARC CHUTE INSULATING SCREEN FOR 4P FIXED	C-16, C-17, E-42, E-43
49860	ISFT100 3P MULTI BARE CABLE CONNECTOR /	E-69
49861	ISFT 100 3P FEEDING BUSBAR FOR 2 SWITCHE	E-69
49862	ISFT 100 3P FEEDING BUSBAR FOR 3 SWITCHE	E-69
49863	ISFT 100 3P FEEDING BUSBAR FOR 4 SWITCHE	E-69
49865	ISFT 100 3P FEEDING CLAMP FOR FEEDING BU	E-69

8		
87401	FU HORIZONTAL PARTITION	C-102
87648	50x BUSHING DIA 22MM	C-66, D-54, E-28
88002	REAR HBB COVER F2 D600	C-102
88005	SUPPORT FOR 50X10 BARS	C-102
88006	SUPPORT FOR 100X10 BARS	C-102
88007	HBB VBB INF .1200A 3P LINK D600	C-103
88008	HBB VBB INF .1200A 4P LINK D600	C-103
88010	DISCONNECTABLE FP PLATE NS250 3P	C-104
88011	DISCONNECTABLE FP PLATE NS250 4P	C-104
88012	DISCONNECTABLE FP PLATE NS630 3P	C-104
88013	DISCONNECTABLE FP PLATE NS630 4P	C-104
88014	HBB VBB SUP .1200A 3P LINK D600	C-103
88015	HBB VBB SUP .1200A 4P LINK D600	C-103
88020	DISCONNECTABLE MP PLATE NS250 3P	C-104
88021	DISCONNECTABLE MP PLATE NS250 4P	C-104
88022	DISCONNECTABLE MP PLATE NS630 3P	C-104
88023	DISCONNECTABLE MP PLATE NS630 4P	C-104

PrismaSeT P Specific Applications - Index

Index of Commercial References with Description

www.se.com

Com. ref.	Description	Page
A		
A9X21094	ACTI9 side plate for comb set of 40 1PN	E-102, E-103
A9X21095	ACTI9 side plate for comb set of 40 3PN	E-102, E-103
A9X21096	ACTI9 tooth cap for comb busb set of 12	E-102, E-103
A9XAH157	Acti9 COMB BUSBAR AUX1P 100A 57 MODULES	E-101
A9XAH257	Acti9 COMB BUSBAR AUX2P 100A 57 MODULES	E-101
A9XAH357	Acti9 COMB BUSBAR AUX3P 100A 57 MODULES	E-101
A9XAH457	Acti9 COMB BUSBAR AUX4P 100A 57 MODULES	E-101
A9XAH557	Acti9 COMB BUSBAR AUX4P REPART. 100A 57M	E-101
A9XAH657	Acti9 COMB BUSBAR AUX3P REPART. 100A 57M	E-101
A9XPA648	ACTI9 Comb busb MCB with aux 1PN 48 mod	E-103
A9XPA748	ACTI9 Comb busb MCB with aux 3PN 48 mod	E-103
A9XPC612	ACTI9 Comb busbar iC40 1PN 12 mod. 18mm	E-102
A9XPC624	ACTI9 Comb busbar iC40 1PN 24 mod. 18mm	E-102
A9XPC648	ACTI9 Comb busbar iC40 1PN 48 mod. 18mm	E-102
A9XPC712	ACTI9 Comb busbar iC40 3PN 12 mod. 18mm	E-102
A9XPC724	ACTI9 Comb busbar iC40 3PN 24 mod. 18mm	E-102
A9XPC748	ACTI9 Comb busbar iC40 3PN 48 mod. 18mm	E-102
A9XPC812	Acti9 Comb busbar iC40 3PN 12 mod. Hybrid	E-102
A9XPC848	Acti9 Comb busbar iC40 3PN 48 mod. Hybrid	E-102
A9XPC948	Acti9 Comb BB iC40 3PN 48M Hybrid Right	E-102
A9XPCD04	Acti9 Set of 4 Connectors DT	E-101
A9XPCM04	Acti9 SET OF 4 CONNECTORS MONOCON	E-101, E-102, E-103
A9XPE110	Acti9 SET OF 10 END CAPS 1P	E-101
A9XPE210	Acti9 SET OF 10 END CAPS 2P	E-101
A9XPE310	Acti9 SET OF 10 END CAPS 3P	E-101
A9XPE410	Acti9 SET OF 10 END CAPS 4P	E-101
A9XPH106	ACTI 9 COMB BUSBAR 1P 100A 6 MODULES	E-101
A9XPH112	Acti9 COMB BUSBAR 1P 100A 12 MODULES	E-101
A9XPH124	Acti9 COMB BUSBAR 1P 100A 24 MODULES	E-101
A9XPH157	Acti9 COMB BUSBAR 1P 100A 57 MODULES	E-101
A9XPH212	Acti9 COMB BUSBAR 2P 100A 12 MODULES	E-101
A9XPH224	Acti9 COMB BUSBAR 2P 100A 24 MODULES	E-101
A9XPH257	Acti9 COMB BUSBAR 2P 100A 57 MODULES	E-101

Com. ref.	Description	Page
A9XPH312	Acti9 COMB BUSBAR 3P 100A 12 MODULES	E-101
A9XPH324	Acti9 COMB BUSBAR 3P 100A 24 MODULES	E-101
A9XPH357	Acti9 COMB BUSBAR 3P 100A 57 MODULES	E-101
A9XPH412	Acti9 COMB BUSBAR 4P 100A 12 MODULES	E-101
A9XPH424	Acti9 COMB BUSBAR 4P 100A 24 MODULES	E-101
A9XPH457	Acti9 COMB BUSBAR 4P 100A 57 MODULES	E-101
A9XPH512	Acti9 COMB BUSBAR 4P REPART. 100A 12 M	E-101
A9XPH518	Acti9 COMB BUSBAR 4P REPART. 100A 18 M	E-101
A9XPH524	Acti9 COMB BUSBAR 4P REPART. 100A 24 M	E-101
A9XPH557	Acti9 COMB BUSBAR 4P REPART. 100A 57 M	E-101
A9XPT920	SET OF 20 TOOTH CAPS	E-101
A9XPV648	ACTI9 Comb MCB-Vigi with aux 1PN 48m	E-103
A9XPV748	ACTI9 Comb MCB-Vigi with aux 3PN 48m	E-103
AZ5CE005	PACK OF CABLE END 0,5MM2	C-88, E-114
AZ5CE005D	PACK OF CABLE END 0,5MM2	C-88, E-114
AZ5CE007	PACK OF CABLE END 075MM2	C-88, E-114
AZ5CE007D	PACK OF CABLE END 075MM2	C-88, E-114
AZ5CE010	PACK OF CABLE END 1 MM2	C-88, E-114
AZ5CE010D	PACK OF CABLE END 1 MM2	C-88, E-114
AZ5CE015	PACK OF CABLE END 1,5MM2	C-88, E-114
AZ5CE015D	PACK OF CABLE END 1,5MM2	C-88, E-114
AZ5CE025	PACK OF CABLE END 2,5MM2	C-88, E-114
AZ5CE025D	PACK OF CABLE END 2,5MM2	C-88, E-114
AZ5DE005	TWIN CABLE END 0,50MM2 -	C-89, E-115
AZ5DE007	TWIN CABLE END 0,75MM2 -	C-89, E-115
AZ5DE007D	INSULATED DOUBLE CABLE END MEDIUM SIZE 0	C-89, E-115
AZ5DE010	TWIN CABLE END 1,00MM2 -	C-89, E-115
AZ5DE010D	INSULATED DOUBLE CABLE END MEDIUM SIZE 1	C-89, E-115
AZ5DE015	TWIN CABLE END 1,5MM2 -	C-89, E-115
AZ5DE015D	INSULATED DOUBLE CABLE END MEDIUM SIZE 1	C-89, E-115
AZ5DE025	INSULATED DOUBLE CABLE END MEDIUM SIZE 2	C-89, E-115
AZ5DE025D	INSULATED DOUBLE CABLE END MEDIUM SIZE 2	C-89, E-115
AZ5DE0071	TWIN CABLE END 2*0.75MM2 -	C-89, E-115
AZ5DE0101	TWIN CABLE END 2*1 MM2 -	C-89, E-115
AZ5DE0151	TWIN CABLE END 2*1.5 MM2 -	C-89, E-115
AZ5DE0255	TWIN CABLE END 2*2.5 MM2 -	C-89, E-115

D

DZ5CA002	CABLE ENDS	C-89, E-115
DZ5CA003	CABLE ENDS	C-89, E-115
DZ5CA005	CABLE END 0,5	C-89, E-115
DZ5CA005D	INSULATECABLEEND 0.5 DIN	C-89, E-115

PrismaSeT P Specific Applications - Index

Index of Commercial References with Description

www.se.com

Com. ref.	Description	Page
DZ5CA007	CABLE ENDS	C-89, E-115
DZ5CA007D	INSULATECABLEEND 0.75 DIN	C-89, E-115
DZ5CA010	CABLE ENDS	C-89, E-115
DZ5CA010D	INSULATECABLEEND 1 DIN	C-89, E-115
DZ5CA015	CABLE ENDS	C-89, E-115
DZ5CA015D	INSULATECABLEEND 1.5 DIN	C-89, E-115
DZ5CA025	CABLE ENDS	C-89, E-115
DZ5CA025D	INSULATECABLEEND 2.5 DIN	C-89, E-115
DZ5CA042	CABLE ENDS	C-89, E-115
DZ5CA042D	INSULATECABLEEND 4 DIN	C-89, E-115
DZ5CA043	CABLE ENDS	C-89, E-115
DZ5CA062	CABLE ENDS	C-89, E-115
DZ5CA062D	INSULATECABLEEND 6 DIN	C-89, E-115
DZ5CA063	CABLE ENDS	C-89, E-115
DZ5CA102	CABLE ENDS	C-89, E-115
DZ5CA102D	INSULATECABLEEND 10 DIN	C-89, E-115
DZ5CA103	CABLE ENDS	C-89, E-115
DZ5CA103D	INSULATECABLEEND 10 LG DI	C-89, E-115
DZ5CA162	CABLE ENDS	C-89, E-115
DZ5CA162D	INSULATECABLEEND 16 DIN	C-89, E-115
DZ5CA163	CABLE ENDS	C-89, E-115
DZ5CA163D	INSULATECABLEEND 16LG DIN	C-89, E-115
DZ5CA253	CABLE ENDS	C-89, E-115
DZ5CA253D	INSULATECABLEEND 25 DIN	C-89, E-115
DZ5CA352	CABLE END 35MM2 -	C-89, E-115
DZ5CA352D	INSULATECABLEEND 35 DIN	C-89, E-115
DZ5CA353	CABLE END 35MM2	C-89, E-115
DZ5CA353D	INSULATECABLEEND 35 LG DI -	C-89, E-115
DZ5CA502	CABLE END 50MM2 -	C-89, E-115
DZ5CA502D	INSULATECABLEEND 50 DIN -	C-89, E-115
DZ5CA503	CABLE END WITH CLIPIN TAG HOLDER LONG SI	C-89, E-115
DZ5CA503D	INSULATECABLEEND 50 LG DI -	C-89, E-115
DZ5CE002	CABLE ENDS	C-88, E-114
DZ5CE002L6	CABLE ENDS	C-88, E-114
DZ5CE003	CABLE END 0,34	C-88, E-114
DZ5CE003L6	CABLE ENDS	C-88, E-114
DZ5CE005	CABLE ENDS	C-88, E-114
DZ5CE005D	INSULATE CABLE END 0,5ODI	C-88, E-114
DZ5CE005L6	INSULATED CABLEEND 0,5LG6	C-88, E-114
DZ5CE005L10D	EMBOUT DE CABLAGE SURMOUL	C-88, E-114
DZ5CE007	CABLE ENDS	C-88, E-114
DZ5CE007D	INSULATE CABLE END 0,75O	C-88, E-114
DZ5CE007L6	INSULATED CABLEEND0,75LG6	C-88, E-114
DZ5CE007L6D	INSULATE CABLE END 0,75O	C-88, E-114
DZ5CE007N	CABLE END UN-INSULATED, 0,75MM2, LENGTH	C-89, E-115
DZ5CE010	CABLE ENDS	C-88, E-114
DZ5CE010D	INSULATE CABLE END DIN	C-88, E-114
DZ5CE010L6	INSULATED CABLEEND 1 LG6	C-88, E-114
DZ5CE010L6D	INSULATE CABLE END 1O L6	C-88, E-114
DZ5CE010L12	INSUL.CABLE END 1O LG12MM	C-88, E-114

Com. ref.	Description	Page
DZ5CE010L12D	INSULATE CABLE END 1DLG12	C-88, E-114
DZ5CE010N	CABLE END UN-INSULATED, 1MM2, LENGTH 8MM	C-89, E-115
DZ5CE015	CABLE ENDS	C-88, E-114
DZ5CE015D	INSULATECABLEEND 1,5D DIN	C-88, E-114
DZ5CE015L6	INSULATED CABLEEND 1,5L6	C-88, E-114
DZ5CE015L6D	INSULATE CABLE END 1,5D	C-88, E-114
DZ5CE015N	CABLE END UN-INSULATED, 1,5MM2, LENGTH 8	C-89, E-115
DZ5CE020	CABLE ENDS	C-88, E-114
DZ5CE025	CABLE ENDS	C-88, E-114
DZ5CE025D	INSULATECABLEEND 2,5 DIN	C-88, E-114
DZ5CE025N	CABLE END UN-INSULATED, 2,5MM2, LENGTH 1	C-89, E-115
DZ5CE040	CABLE ENDS	C-89, E-115
DZ5CE042	CABLE ENDS	C-88, E-114
DZ5CE042D	INSULATECABLEEND 4 DIN	C-88, E-114
DZ5CE043	CABLE ENDS	C-88, E-114
DZ5CE043D	INSULATECABLEEND 4 L18DIN	C-88, E-114
DZ5CE060	CABLE ENDS	C-89, E-115
DZ5CE060L	CABLE END UN-INSULATED, 6MM2, LENGTH 18M	C-89, E-115
DZ5CE062	CABLE ENDS	C-88, E-114
DZ5CE062D	INSULATECABLEEND 6 DIN	C-88, E-114
DZ5CE063	CABLE ENDS	C-88, E-114
DZ5CE063D	INSULATECABLEEND 6L18 DIN	C-88, E-114
DZ5CE100	CABLE ENDS -	C-89, E-115
DZ5CE102	CABLE END INSULATED FOR CLIP-IN MARKER,	C-88, E-114
DZ5CE102D	CABLE END INSULATED FOR CLIP-IN MARKER,	C-88, E-114
DZ5CE103	CABLE END INSULATED FOR CLIP-IN MARKER,	C-88, E-114
DZ5CE0153	CABLE ENDS	C-88, E-114
DZ5CE0153D	INSULATECABLEEND1,5 L18DI	C-88, E-114
DZ5CE160	CABLE ENDS -	C-89, E-115
DZ5CE162	CABLE END INSULATED FOR CLIP-IN MARKER,	C-88, E-114
DZ5CE162D	CABLE END INSULATED FOR CLIP-IN MARKER,	C-88, E-114
DZ5CE163	CABLE END INSULATED FOR CLIP-IN MARKER,	C-88, E-114
DZ5CE252	CABLE END INSULATED FOR CLIP-IN MARKER,	C-88, E-114
DZ5CE253	CABLE END INSULATED FOR CLIP-IN MARKER,	C-88, E-114
DZ5CE0253	CABLE ENDS	C-88, E-114
DZ5CE0253D	INSULATECABLEEND2,5L18DIN	C-88, E-114
DZ5CE352	CABLE END INSULATED FOR CLIP-IN MARKER,	C-88, E-114
DZ5CE352D	CABLE END INSULATED FOR CLIP-IN MARKER,	C-88, E-114
DZ5CE353	CABLE END INSULATED FOR CLIP-IN MARKER,	C-88, E-114
DZ5CE502	CABLE END INSULATED FOR CLIP-IN MARKER,	C-88, E-114
DZ5CEB005	CABLE END BAND 0.5MM2	C-88, E-114

PrismaSeT P Specific Applications - Index

Index of Commercial References with Description

www.se.com

Com. ref.	Description	Page
DZ5CEB005D	CABLE END MEDIUM SIZE 0.5 MM2 WHITE	C-88, E-114
DZ5CEB007	CABLE END BAND 0.7MM2 -	C-88, E-114
DZ5CEB007D	CABLE END MEDIUM SIZE 0.75 MM2 GREY	C-88, E-114
DZ5CEB010	CABLE END BAND 1MM2	C-88, E-114
DZ5CEB010D	CABLE END DIN BAND 1MM2 -	C-88, E-114
DZ5CEB015	CABLE END BAND 1.5MM2 -	C-88, E-114
DZ5CEB015D	CABLE END MEDIUM SIZE 1.5 MM2 BLACK	C-88, E-114
DZ5CEB025	CABLE END BAND 2.5MM2 -	C-88, E-114
DZ5CEB025D	CABLE END MEDIUM SIZE 2.5 MMA2 BLUE	C-88, E-114

E

EZ9XPC04	Easy9 Comb Busbar 1P 4 connectors	E-104
EZ9XPE210	Easy9 Comb Busbar 10 End Cap 2P	E-104
EZ9XPE310	Easy9 Comb Busbar 10 End Cap 3P	E-104
EZ9XPH112	Easy9 Comb busbar 1P 12 modules	E-104
EZ9XPH157	Easy9 Comb busbar 1P 57 modules	E-104
EZ9XPH212	Easy9 Comb busbar 2P 12 modules	E-104
EZ9XPH257	Easy9 Comb busbar 2P 57 modules	E-104
EZ9XPH312	Easy9 Comb busbar 3P 12 modules	E-104
EZ9XPH357	Easy9 Comb busbar 3P 57 modules	E-104

G

GS1AP33	TERMINALCOVER 3X100-160A	E-70
GS1AP34	TERMINALCOVER 4X100TO160A	E-70
GS1AP43	TERMINAL COVER 3X250A	E-70
GS1AP44	TERMINAL COVER 4X250A	E-70

L

LGY4230	PLATE WITH RJ45 FEMALE CONNECTOR	E-106
LGY4231	PLATE WITH 8P AUXILIARY CONNECTORS	E-106
LGY112510	SCREW DISTRIBUTION BLOCK 1P 125A 10HOLES	E-98
LGY116013	SCREW DISTRIBUTION BLOCK 1P 160A 13HOLES	E-98
LGY125014	SCREW DISTRIBUTION BLOCK 1P 250A 14HOLES	E-98
LGY410028	SCREW DISTRIBUTION BLOCK 4P 100A 28HOLES	E-98
LGY412548	SCREW DISTRIBUTION BLOCK 4P 125A 48HOLES	E-98
LGY412560	SCREW DISTRIBUTION BLOCK 4P 125A 60HOLES	E-98
LGY416048	SCREW DISTRIBUTION BLOCK 4P 160A 48HOLES	E-98
LGYN1007	ADDITIONAL NEUTRAL BAR FOR SBL N 100A 7H	E-98
LGYN12512	ADDITIONAL NEUTRAL BAR FOR SBL N 125A 12	E-98
LGYN12515	ADDITIONAL NEUTRAL BAR FOR SBL N 125A 15	E-98
LV426912	Long terminal shield 3P IEC/UL dis	C-23, E-55
LV426913	Long terminal shield 4P IEC/UL Dis and V	C-23, E-55

LV429235	2 SHORT REAR CONNECTIONS	C-22, E-52, E-53, E-54, E-57
LV429236	2 LONG REAR CONNECTIONS	C-22, E-52, E-53, E-54, E-57
LV429270	SAFETY TRIP INTERLOCK LINK for Compact NSX 100/160/250 plug-in kit	C-104
LV429306	1 CONNECTIONS ADAPTER 3P FOR PLUG IN BAS	E-53
LV429307	1 CONNECTIONS ADAPTER 4P FOR PLUG IN BAS	E-53
LV429358	ACCESSORY FOR SOURCECHANGEOVER SWITCH DO	E-66, E-67
LV429359	ACCESSORY FOR SOURCECHANGEOVER SWITCH DO	E-66, E-67
LV429515	1 3P SHORT TERMINAL SHIELD	C-22, C-104, E-52, E-53, E-54, E-66, E-67
LV429516	1 4P SHORT TERMINAL SHIELD	C-22, C-104, E-52, E-53, E-54, E-66, E-67
LV429517	1 3P LONG TERMINAL SHIELD	C-22, C-104, E-52, E-53, E-54, E-66, E-67
LV429518	1 4P LONG TERMINAL SHIELD	C-22, C-104, E-52, E-53, E-54, E-57, E-66, E-67
LV432475	2 SHORT REAR CONNECTIONS	C-22, D-19, E-52, E-53, E-54, E-57
LV432476	2 LONG REAR CONNECTIONS	C-22, D-19, E-52, E-53, E-54, E-57
LV432479	3 CONNECTORS 1X 35-300MMA2 PH BARRIERS	C-104
LV432480	4 1X 35-300MM2 CONNECTORS PH BARRIERS I	C-104
LV432481	Alum connectors for 2 cables 35 to 240mm	C-104
LV432482	4 2X 35-240MMA CONNECTORS PH BARRIERS	C-104
LV432516	3P PLUG-IN BASE	E-57
LV432520	SAFETY TRIP INTERLOCK LINK for Compact NSX 400/630 plug-in kit	C-104
LV432584	CB PLUG IN BASE CONNECTION ADAPTER 1	E-53
LV432585	1 CONNECTIONS ADAPTER 4P FOR PLUG IN BAS	E-53
LV432591	1 3P SHORT TERMINAL SHIELD.	C-104, D-19, E-52, E-53, E-54, E-66, E-67
LV432592	1 4P SHORT TERMINAL SHIELD	C-104, E-52, E-53, E-54, E-57, E-66, E-67
LV432593	1 3P LONG TERMINAL SHIELD	C-104, D-19, E-52, E-53, E-54, E-66, E-67

PrismaSeT P Specific Applications - Index

Index of Commercial References with Description

www.se.com

Com. ref.	Description	Page
LV432594	1 4P LONG TERMINAL SHIELD	C-104, E-52, E-53, E-54, E-57, E-66, E-67
LV432595	1 3P LONG TERMINAL SHIELD FOR SPREADER	E-66, E-67
LV432596	1 4P LONG TERMINAL SHIELD FOR SPREADER	E-66, E-67
LV432619	ACCESSORY FOR SOURCECHANGEOVER SWITCH DO	E-66, E-67
LV432620	ACCESSORY FOR SOURCECHANGEOVER SWITCH DO	E-66, E-67
LV432621	ROTARY HANDLE MECHANICAL INTERLOCKING N	E-66
LV434690	NSX400-630 Power Filter 4P 690VAC, 1 p.	C-22
LV435690	NSX400-630 3P Power Filters 690VAC (C2)	C-22
LV480756	TERMINAL COVERS X2	E-69
LV480811	ISFT160 FEEDING BUSBAR FOR 2 DEVICES	E-69
LV480812	ISFT160 FEEDING BUSBAR FOR 3 DEVICES	E-69
LV480813	ISFT160 FEEDING BUSBAR FOR 4 DEVICES	E-69
LV480814	ISFT160 DISTRIBUTION CON 3 x 16MM	E-69
LV480818	ISFT160 Feeding clamp 25 -95mm2	E-69
LV480819	ISFT160 TERMINAL SHIELDS	E-69
LV480824	ISFT250 TERMINAL SHIELDS	E-69
LV480827	ISFT400TERMINAL SHIELDS	E-69
LV480831	ISFT630 TERMINAL SHIELDS	E-69
LV480854	KIT FOR DIRECT MOUNTING 185MM	E-68
LV480856	ISFL250 DIRECT 185MM BUSBAR SCREWS M12	D-21, D-23
LV480857	ISFL400 DIRECT 185MM BUSBAR SCREWS M12	D-21, D-23
LV480868	SIDEFAME DOOR CUT OUT - 850 MM	E-68
LV480869	SIDWISE ANGLE BRACKET FOR SIDE FRAME X	E-68
LV480870	LENGHT ADAPTOR AND IDENT. LABEL HOLDER	E-68
LV848125	Front bottom connection - for MTZ2 20 - 3P fixed	D-9, D-11, D-13, D-15
LV848130	Front bottom connection - for MTZ2 08-16 - 3P fixed	D-9, D-11, D-13, D-15
LVS01005	10 BLACK LINE L900 STICKERS	C-61, D-49, E-23
LVS01006	10 BLACK ARROW OUT. STICKERS	C-61, D-49, E-23
LVS01007	10 BLACK ARROW INC. STICKERS	C-61, D-49, E-23
LVS01008	10 BLACK TRANSFORMER STICKERS	C-61, D-49, E-23
LVS01094	1/4 T LOCKING FRONT PLATE 2by10	C-108, D-74, E-126
LVS01101	IP55 DOOR BACK ACCESS.SYST.P	C-108, D-74, E-126
LVS01102	IP55 SIDE PANEL ACCESS SYST.P	C-109, D-75, E-127
LVS01103	IP55 ROOF ACCESS. SYST.P	C-109, D-75, E-127

Com. ref.	Description	Page
LVS01104	FRAMEWORK ACCESS.SYST.P	C-108, D-74, E-126
LVS01109	12 LINERGY LGY BUSBAR STOPS	E-83
LVS01110	PLN.WICKET.DOOR P W150	C-108, D-74, E-71, E-126
LVS01114	REINFORCED DOOR STRIKER PrismaSeT P	C-52, C-55, C-109, D-42, D-75, E-16, E-127
LVS01119	FRAME BOT. CROSS MEMBER L400	C-109, D-75, E-127
LVS01120	FRAME BOT. CROSS MEMBER L650	C-109, D-75, E-127
LVS01121	FRAME BOT.CROSS MEMBER L150 ET 650	C-109, D-75, E-127
LVS01122	FRAME BOT.CROSS MEMBER L650 ET 150	C-109, D-75, E-127
LVS01123	FR.PL.SUP.STRICKE KIT SYSTEM P	C-109, D-75, E-127
LVS01130	LINERGY LGYE BUSBAR SCREW PLATE KIT	C-74, C-108, D-62, D-74, E-85, E-126
LVS01202	4 IPxxB COVERS LINERGY FM 200	C-81, E-97
LVS01215	5x RECTANGULAR GROMMETS 70x40	C-66, D-54, E-28
LVS01219	ROTATIVE HANDLE + ROD FOR PRISMA P	C-109, D-75, E-127
LVS01224	IP30 REINFORCED PLAIN DOOR IK10 W650	C-52, D-42, E-16
LVS01225	IP30 REINFORCED PLAIN DOOR IK10 W800	C-52, D-42, E-16
LVS03152	M.PLATE FOR 2 3P-METERS	C-35, D-26, E-75
LVS03164	20 M4 CLIP-NUTS MOD.DEV.RAILS	C-63, D-51, E-25
LVS03165	20 M5 CLIP NUTS MOD.DEV.RAILS	C-63, D-51, E-25
LVS03166	20 M6 CLIP-NUTS MOD.DEV.RAILS	C-63, D-51, E-25
LVS03180	20 SLOTTED M.PL. M4 CLIP-NUTS	C-63, D-51, E-25
LVS03181	20 SLOTTED M.PL. M5 CLIP-NUTS	C-63, D-51, E-25
LVS03182	20 SLOTTED M.PL. M6 CLIP-NUTS	C-63, D-51, E-25
LVS03185	4 HEXAGONAL SPACERS M5 H9	C-63, D-51, E-25
LVS03186	4 HEXAGONAL SPACERS M5 H23	C-63, D-51, E-25
LVS03187	4 HEXAGONAL SPACERS M5 H55	C-63, D-51, E-25
LVS03194	20 HEXA.SPACER M6 CAPTIVE NUTS	C-63, D-51, E-25
LVS03195	4 HEXAGONAL SPACERS M6 H9	C-63, D-51, E-25
LVS03196	4 HEXAGONAL SPACERS M6 H23	C-63, D-51, E-25
LVS03197	4 HEXAGONAL SPACERS M6 H55	C-63, D-51, E-25
LVS03198	4 HEXAGONAL SPACERS M6 H25	C-63, D-51, E-25
LVS03199	4 HEXAGONAL SPACERS M8 H40+10	C-63, D-51, E-25

PrismaSeT P Specific Applications - Index

Index of Commercial References with Description

www.se.com

Com. ref.	Description	Page	Com. ref.	Description	Page
LVS03202	MODULAR FR.PL P&G W600/650 2M	C-38, D-29, E-78	LVS03347	FRONT PLATE HORI GS 400A 8M W650	E-70
LVS03203	MODULAR FRONT PLATE W600/W650 3M	C-32, C-33, C-38, D-24, D-29, E-72, E-73, E-78	LVS03349	FRONT PLATE VERT GS 250-400A 6M W650	E-70
LVS03204	MODULAR FR.PL P&G W600/650 4M	C-33, C-34, D-24, D-25, E-73, E-74	LVS03350	SIDE PARTITION FOR TWO TIER FUSE	D-23
LVS03205	MODULAR FR.PL P&G W600/650 5M	C-32, C-34, D-25, E-72, E-74	LVS03351	SIDE PARTITION FOR SINGLE TIER FUSE	D-21
LVS03213	MODULAR FR.PL P&G W300 3M	C-33, D-24, E-73	LVS03352	TRANSP.FR.PL P&G W300 4M	C-62, D-50, E-24
LVS03214	MODULAR FR.PL P&G W300 4M	C-33, C-34, D-24, D-25, E-73, E-74	LVS03353	TRANSP.FR.PL P&G W300 6M	C-62, D-50, E-24
LVS03220	BLANKING STRIP L1000	C-33, C-34, C-38, C-61, D-24, D-25, D-29, D-49, E-23, E-73, E-74, E-78	LVS03354	TRANSP.FR.PL P&G W300 9M	C-62, D-50, E-24
LVS03221	4 DIVISIBLE BLANKING PLATES W90	C-33, C-34, C-38, C-61, D-24, D-25, D-29, D-49, E-23, E-73, E-74, E-78	LVS03401	W650 MODULAR DEVICE RAIL PRISMA P	C-32, C-33, C-34, C-38, C-65, D-24, D-25, D-29, D-53, E-27, E-72, E-73, E-74, E-78
LVS03223	3 MOD.ROWS FR.PL P&G W600/650 8M	C-33, D-24, E-73	LVS03402	W650 ADJUSTABLE MOD. DEV. RAIL PRISMA P	C-32, C-38, C-65, C-84, D-29, D-53, E-27, E-72, E-74, E-78, E-110
LVS03248	FR.PL INS250 V. P&G W600/W650 5M	E-57	LVS03404	W400 ADJUSTABLE MOD. DEV. RAIL PRISMA P	C-33, C-34, C-38, D-24, D-25, D-29, E-73, E-74, E-78
LVS03274	FR.PL INS630 V. P&G W600/W650 10M	E-57	LVS03409	MOUNT.PL NSXm TOGGLE/ROT-3P/4P HORZ.W650	C-23, E-55
LVS03308	FRONT PL. GS32 3P/4P W600 HZ/VT 3M	E-70	LVS03411	MOUNT.PL NSX/CVS.TOGGLE -3P 250A HZ W650	C-22, E-52
LVS03309	FRONT PL. GS63-160 3P/4P W600 HZ/VT 5M	E-70	LVS03412	MOUNT.PL NSX/CVS.TOGGLE -4P 250A HZ W650	C-22, E-52, E-57
LVS03320	FRONT PLATE ISFT 100 VERTIC W600/W650 6M	E-69	LVS03413	MOUNT.PL NSX/CVS PLUGIN -3P 250A HZ W650	E-53, E-54
LVS03321	FRONT PLATE ISFT 160 VERTIC W600/W650 6M	E-69	LVS03414	MOUNT.PL NSX/CVS PLUGIN -4P 250A HZ W650	E-53, E-54
LVS03322	FRONT PLATE ISFT 250 VERTICAL W650 9M	E-69	LVS03416	M. plate NSXm+FC 3/4P 160A VERT. L650	E-90
LVS03323	FRONT PLATE ISFT 400 VERTICAL W650 9M	E-69	LVS03417	M.PL.HZ.NS250 C/O MOT.OR UA/BA	C-25, C-26, C-27, C-28, C-29, C-30, C-31, E-59, E-60, E-61, E-62, E-63, E-64, E-65, E-67
LVS03324	FRONT PLATE ISFT 630 VERTICAL W650 8M	E-69	LVS03420	M.PL.3-4V.FIXED NS-INS250 TOG.	E-57, E-88
LVS03325	FRONT PLATE ISFT100N VERTIC W600/W650 8M	E-69	LVS03422	M.PL.3-4V.FIXED NS250 DEVICES	E-88
LVS03330	FR. PLATE NSXm/VIGI/SDx HZ.TOG. W600 3M	C-23, E-55	LVS03423	M.PL.3 4 V.WITHD.NS250 POLYP.	E-88
LVS03331	FR. PLATE NSXm/VIGI/SDx HZ.ROT. W600 3M	C-23, E-55	LVS03447	800V VERT. MOUNT PLATE EASYPACT SOL 160A	D-17
LVS03342	TRANSP.FR.PL P&G W600/W650 4M	C-32, C-38, C-62, D-29, D-50, E-24, E-72, E-78	LVS03448	800V HORIZONTAL MOUNTING PLATE 7M	D-19
LVS03343	TRANSP.FR.PL P&G W600/W650 6M	C-35, C-62, D-26, D-50, E-24, E-75	LVS03449	690V MOUNT.PL NSX TOGGLE-3P 630A HZ W650	C-22
LVS03344	TRANSP.FR.PL P&G W600/W650 9M	C-35, C-62, D-26, D-50, E-24, E-75	LVS03450	690V MOUNT.PL NSX TOGGLE-4P 630A HZ W650	C-22
LVS03345	TRANSP.FR.PL P&G W600/W650 12M	C-62, D-50, E-24	LVS03451	MOUNT.PL NSX/CVS.TOGGLE -3P 630A HZ W650	E-52
LVS03346	FRONT PLATE HORI GS 250A 7M W650	E-70	LVS03452	MOUNT.PL NSX/CVS.TOGGLE -4P 630A HZ W650	E-52, E-57

PrismaSeT P Specific Applications - Index

Index of Commercial References with Description

www.se.com

Com. ref.	Description	Page
LVS03453	MOUNT.PL NSX/CVS PLUGIN -3P 630A HZ W650	E-53, E-54
LVS03454	MOUNT.PL NSX/CVS PLUGIN -4P 630A HZ W650	E-53, E-54
LVS03457	MOUNT.PL CHANGEOVER NSX/INS 630 MOT.HORZ	E-67
LVS03458	MOUNT.PL CHANGEOVER NSX/INS 630 ROT.HORZ	E-66
LVS03461	MOUNT.PL 2 NSX/CVS/INS -3P/4P 630A VERT.	E-57
LVS03480	MOUNT.PL NS FIXED -3P/4P 1000A HZ.W650	E-49
LVS03482	MOUNT.PL NS FIXED -3P/4P 1600A VERT.W650	E-47, E-48
LVS03483	M.PL V.WITHD NT-MTZ1/NS 3P/4P 1600A W650	C-16, C-17, C-29, C-30, C-31, E-42, E-43, E-47, E-48, E-63, E-64, E-65
LVS03484	M.PL V.FIXED MTZ1/NT 3P/4P 1600A W650	C-16, C-17, C-29, C-30, C-31, E-42, E-43, E-63, E-64, E-65
LVS03487	MOUNT.PL NS FIXED -3P/4P 1600A VERT.W400	E-50
LVS03488	M.PL V. WITHD NS-MTZ1/NT 3P 1600A W400	C-18, E-44, E-50
LVS03489	M.PL V. FIXED MTZ1/NT 3P 1600A W400	C-18, E-44
LVS03500	M.PL V.FIXED/WITHD MTZ2/NW 3P/4P W650	C-8, C-10, C-12, C-14, C-25, C-26, C-27, C-28, D-8, D-10, D-12, D-14, E-36, E-38, E-40, E-41, E-59, E-60, E-61, E-62
LVS03501	M.PL NS3200 INS-INV2500 FIXED VERTICAL	E-46, E-56
LVS03508	M.PL.FOR 2 3PH METERS 6M	C-35, D-26, E-75
LVS03545	M.PL.100MM B CENTRES ISFL160	E-68
LVS03546	M.PL.185MM B CENTRES ISFL630	D-21, D-23, E-68
LVS03554	M.PL.ISFT100	E-69
LVS03555	M.PL BUSBAR ISFT 100N 160	E-69
LVS03556	M.PL.ISFT160	E-69
LVS03557	M.PL.ISFT630	E-69
LVS03559	M. PL GS 3P/4P 32A H+V W650	E-70
LVS03560	M.PL GS 3P/4P 63-100-160A HORZ W650	E-70
LVS03561	CANALIS SUPPORT	C-10, C-17, D-10, D-14, E-38, E-43, E-48
LVS03563	M. PL GS 63-160A VERT W650	E-70
LVS03564	M. PL GS 250A HORI W650	E-70
LVS03565	M. PL GS 250A VERT W650	E-70
LVS03566	M. PL GS 400A HORI W650	E-70
LVS03567	M. PL GS 400A VERT W650	E-70

Com. ref.	Description	Page
LVS03569	W800 PLAIN BACKPLATE 36M	C-64, D-52, E-26
LVS03570	PLAIN BACKPLATE 36M W650	C-64, D-52, E-26
LVS03571	SLOTTED MOUNTING PLATE 4MODULES	C-32, C-65, D-53, E-27, E-72
LVS03572	SLOTTED MOUNTING PLATE 6MODULES	C-32, C-65, D-53, E-27, E-72
LVS03574	SLOTTED MOUNTING PLATE 12M	C-65, D-53, E-27
LVS03580	4 ANGLE BRACKETS ET	C-63, D-51, E-25
LVS03581	2 UNIVERSAL ANGLE BRACKETS	C-63, C-65, C-84, D-51, D-53, E-25, E-27, E-110
LVS03582	6 UNIVERSAL INSERTS SYST.P	C-63, D-51, E-25
LVS03583	6 UNIVERSAL ANGLE BRACKETS	C-63, C-95, D-51, D-70, E-25, E-121
LVS03584	2 SIDE.CROSS-MEMBERS W400 D400	C-13, C-58, C-67, C-84, D-46, D-55, E-20, E-29, E-110
LVS03586	2 SIDE.CROSS-MEMBERS W200 D600	C-13, C-58, C-67, D-46, D-55, E-20, E-29
LVS03587	2LONGITUDINAL CROSS-MBERS W650	C-58, C-67, D-46, D-55, E-20, E-29
LVS03590	REAR MODULAR DEVICE RAIL W650	C-65, D-53, E-27
LVS03593	2 SLIDE RAILS+ANGLE BRACKETS	C-64, D-52, E-26
LVS03595	SYSTEM G ADAPTER W500	C-35, D-26, E-75
LVS03604	FR.PL VIG.NSX.TOG/RT-3P 250 HZ P 3M	C-22, E-52, E-53, E-54
LVS03606	FR.PL VIG.NSX.TOG/RT-4P 250 HZ P 4M	C-22, E-52, E-53, E-54
LVS03616	FR.PL HZ.NS250 C/OVER MOT P	E-67
LVS03617	FR.PL HZ.INS250 P	E-57
LVS03620	FR.PL 3-4 V.INS250 DEVICES P	E-57
LVS03643	FR.PL VIG.NSX.TOG/RT-3P 630 HZ P 4M	C-22, E-52, E-53, E-54
LVS03644	FR.PL VIG.NSX.TOG/RT -4P 630 HZ P 4M	C-22, E-52, E-53, E-54
LVS03650	800V FR PL VERT. MOUNT EASYPACT SOL 160A	D-17
LVS03656	FR.PL HZ.NS630 C/OVER MOT P	E-67
LVS03658	FR.PL HZ.INS630 P	E-57
LVS03659	FR.PL HZ.NS-INS630 C/OVER RT P	E-66
LVS03671	FR.PL UA/BA P 4M	C-25, C-26, C-27, C-28, C-29, C-30, C-31, E-59, E-60, E-61, E-62, E-63, E-64, E-65, E-67
LVS03687	FR.PL HZ.FIX.NS1600 TOG/RT.4P P	E-49

PrismaSeT P Specific Applications - Index

Index of Commercial References with Description

www.se.com

Com. ref.	Description	Page	Com. ref.	Description	Page
LVS03690	FR.PL V.FIX.NS1600 P	E-47, E-48	LVS03803	PLAIN FRONT PLATE W600/W650 3M	C-10, C-12, C-16, C-17, C-29, C-30, C-31, C-32, C-62, C-84, D-10, D-14, D-17, D-50, E-24, E-38, E-42, E-43, E-47, E-48, E-56, E-63, E-64, E-65, E-72, E-110
LVS03691	FR.PL WITHD.NS-MTZ1/NT P	C-16, C-17, C-29, C-30, C-31, E-42, E-43, E-47, E-48, E-63, E-64, E-65	LVS03804	PLN.FR.PL P&G W600/W650 4M	C-8, C-10, C-14, C-16, C-17, C-25, C-27, C-29, C-31, C-32, C-38, C-62, D-8, D-10, D-12, D-14, D-29, D-50, E-24, E-36, E-38, E-40, E-41, E-42, E-43, E-46, E-47, E-48, E-56, E-59, E-61, E-63, E-65, E-72, E-78
LVS03692	FR.PL V.FIX.MTZ1/NT P	C-16, C-17, C-29, C-30, C-31, E-42, E-43, E-63, E-64, E-65	LVS03805	PLN.FR.PL P&G W600/W650 5M	C-8, C-10, C-14, C-17, C-25, C-26, C-27, C-32, C-62, C-84, D-8, D-10, D-12, D-14, D-50, E-24, E-36, E-38, E-40, E-43, E-48, E-59, E-60, E-61, E-72, E-110
LVS03697	FR.PL.V.FIX.NS1600 3 4P W400	E-50	LVS03806	PLN.FR.PL P&G W600/W650 6M	C-14, C-17, C-25, C-26, C-27, C-28, C-32, C-35, C-62, C-84, D-17, D-26, D-50, E-24, E-40, E-43, E-46, E-48, E-59, E-60, E-61, E-72, E-75, E-110
LVS03698	FR.PL V.FIX.MTZ1/NT 3P P W400	C-18, E-44	LVS03808	PLN.FR.PL P&G W600/W650 12M	C-12, C-62, D-50, E-24
LVS03699	FR.PL WITHD.NS-MTZ1/NT 3P P W400	C-18, E-44, E-50	LVS03811	PLN.FR.PL P&G W300 1M	C-34, C-62, D-25, D-50, E-24, E-74
LVS03701	FR.PL V.FIX.MOT.NS1600 P	E-47, E-48	LVS03812	PLN.FR.PL P&G W300 2M	C-62, D-50, E-24
LVS03709	FR.PL DEDICATED MTZ2/NW	C-14, E-40, E-41	LVS03813	PLN.FR.PL P&G W300 3M	C-62, D-50, E-24
LVS03710	FR.PL WITHD.MTZ2/NW P	C-8, C-10, C-12, C-14, C-25, C-26, C-27, C-28, E-36, E-38, E-40, E-59, E-60, E-61, E-62	LVS03814	PLN.FR.PL P&G W300 4M	C-38, C-62, D-29, D-50, E-24, E-78
LVS03711	FR.PL FIX.MTZ2/NW P	C-8, C-10, C-12, C-25, C-26, C-27, C-28, D-8, D-10, D-12, D-14, E-36, E-38, E-59, E-60, E-61, E-62	LVS03815	PLN.FR.PL P&G W300 5M	C-62, D-50, E-24
LVS03713	FR.PL INS1600 3P P	E-56	LVS03816	PLN.FR.PL P&G W300 6M	C-62, D-50, E-24
LVS03714	FR.PL INS1600 4P P	E-56	LVS03817	PLN.FR.PL P&G W300 9M	C-62, D-50, E-24
LVS03715	FR.PL INS2500 3P/4P P	E-56	LVS03827	PLN.FR.PL P&G W600/W650 7M	D-19
LVS03716	FR.PL NS3200 P	E-46			
LVS03722	HINGED FR.PL.13M W400	C-18, C-62, D-50, E-24, E-44, E-50			
LVS03723	HINGED FR.PL HSI P W400 13M	C-18, E-44, E-50			
LVS03733	FIXED FR.PLATE SUP.FRAME W650	D-23			
LVS03735	IP20 FRONT ISFL 185MM BCW650	D-21, E-68			
LVS03736	FR.PL.ISFL160	E-68			
LVS03737	800V FUPACT ISFL 2 TIER TOP FRONT PLATE	D-23			
LVS03738	800V FUPACT ISFL 2 TIER BOTTOM FR PLATE	D-23			
LVS03740	BLANKING PLATE ISFL 160	E-68			
LVS03741	BLANKING PLATE ISFL 630	D-21, D-23, E-68			
LVS03801	PLAIN FRONT PLATE W600/W650 1M	C-16, C-30, C-32, C-62, D-50, E-24, E-42, E-57, E-64, E-70, E-72			
LVS03802	PLAIN FRONT PLATE W600/W650 2M	C-12, C-14, C-16, C-29, C-31, C-62, D-50, E-24, E-40, E-42, E-46, E-47, E-57, E-63, E-65, E-69			

PrismaSeT P Specific Applications - Index

Index of Commercial References with Description

www.se.com

Com. ref.	Description	Page
LVS03900	SUPPORT 72X72 MET.DEV/PB FOR 03904/03928	C-18, C-37, D-28, E-44, E-77
LVS03901	SUPPORT 96X96 MET.DEV/PB FOR 03904/03928	C-18, C-37, D-28, E-44, E-50, E-77
LVS03902	SUPP.CUT-OUT 72X72MET.DEV/PB 03904/03928	C-18, C-37, D-28, E-44, E-50, E-77
LVS03903	SUPP.CUT-OUT 96X96MET.DEV/PB 03904/03928	C-18, C-37, D-28, E-44, E-50, E-77
LVS03904	FR.PL 72°-96° C/OUT MET.DEV P&G W600 3M	C-36, C-37, D-27, D-28, E-76, E-77
LVS03907	SUPPORT 72X72 MET.DEV/PB FOR 03910/03912	C-37, D-28, E-77
LVS03908	SUPPORT 96X96 MET.DEV/PB FOR 03911/03913	C-37, D-28, E-77
LVS03910	FR.PL 72Â° 6.C/OUT MET.DEV P&G W600 3M	C-36, C-37, D-27, D-28, E-76, E-77
LVS03911	FR.PL 96Â° 3.C/OUT MET.DEV P&G W600 3M	C-36, C-37, C-38, D-27, D-28, D-29, E-76, E-77, E-78
LVS03913	FR.PL 96Â° 1 C/OUT MET.DEV P&G W600 3M	C-36, C-37, C-38, D-27, D-28, D-29, E-76, E-77, E-78
LVS03914	FR.PL 12.PB/LAMPS P&G W600/W650 2M	C-36, C-37, D-27, D-28, E-76, E-77
LVS03923	FR.PL. 1 PRE CUT-OUT 96x96 W300 3M	C-37, C-38, D-28, D-29, E-77, E-78
LVS03928	VISOR 30Â°.MET.DEV/PB 72Â°/96Â° P&G	C-36, C-37, D-27, D-28, E-76, E-77
LVS03930	MOUNTING PLATE VIGILOHM XM200-300C	C-38, D-29, E-78
LVS03932	FR.PL VIGILO XM200-300C P W650 6M	C-38, D-29, E-78
LVS03970	DOOR.CAPACITORS P W650	E-71
LVS03979	VARPLUSCAN HORIZONTAL MOUNTING PLATE	E-71
LVS04004	MULTICLIP 4P ROW DIST BLOCK 80A 24M 44H	C-81, E-97
LVS04008	LINERGY FM 4P DIST.BLOCK 63A 12M 20HOLES	C-81, E-97
LVS04012	LINERGY FM 2P DIS.BLOCK 200A 24M 24HOLES	C-81, E-97
LVS04013	LINERGY FM 3P DIS.BLOCK 200A 24M 42HOLES	C-81, E-97
LVS04014	LINERGY FM 4P DIS.BLOCK 200A 24M 54HOLES	C-81, E-97
LVS04018	LINERGY FM 4P DIS.BLOCK 160A 12M 27HOLES	C-81, E-97
LVS04024	4P CONN.LIN.BS STAGE BB/LIN.FM D.BLK200A	C-81, E-97
LVS04026	LINERGY FM 4P DIS.BLOCK 200A 36M 81HOLES	C-81, E-97
LVS04029	4 CONN.LIN.BS REAR BB/LIN.FM D.BLK 200A	C-81, E-97

Com. ref.	Description	Page
LVS04030	4 CONN. NG160/LINERGY FM DIST. BLK 160A	C-81, E-97
LVS04031	LINERGY DX 1P DIST.BLOCK 160A 4M 6HOLES	C-79, E-94
LVS04033	LINERGY DP 3P D.BLK/COMPACT 250A 27HOLES	E-86
LVS04034	LINERGY DP 4P D.BLK/COMPACT 250A 36HOLES	E-86
LVS04038	LINERGY DP for NSXm 3P 160A	C-23, C-75, E-55, E-87
LVS04039	LINERGY DP for NSXm 4P 160A	C-23, C-75, E-55, E-87
LVS04040	Linery DX 4P 63A 24 holes top	E-94
LVS04041	Linery DX 4P 63A 24 holes bottom	E-94
LVS04045	LINERGY DX 4P DIST.BLOCK 125A 6M 52HOLES	C-78, E-94
LVS04046	LINERGY DX 4P D.BLK/NG160 160A 6M 52HOLE	C-78, E-94
LVS04047	4 CONN.NG125/LINERGY DX DIST. BLOCK 125A	C-78, E-94
LVS04149	CONNECTION 160A 4P L380 / LINERGY DX 1P	C-79, E-94
LVS04155	ADDITIONAL BLK 2X35° 3P/ LINERGY DP 250A	E-86
LVS04156	ADDITIONAL BLK 2X35° 4P/ LINERGY DP 250A	E-86
LVS04200	EARTH BAR 35°/40 CLAMPS L450 LINERGY TB	C-82, E-108
LVS04201	12X3MM DIR.EARTH BAR 35° L330 LINERGY TB	C-82, E-108
LVS04202	2 EARTH BAR 35°/20 CLAMP L200 LINERGY TB	C-82, E-108
LVS04205	2 EARTH BAR MOD.DEV.RAIL SUP.	C-82, E-108
LVS04210	2 INSULAT.SPACERS/NEUTRAL BAR LINERGY TB	C-82, E-108
LVS04214	4 EARTH BLK 12X4° TERM.CLAMP LINERGY TB	C-82, E-108
LVS04215	4 EARTH BLK 3X16° TERM.CLAMP LINERGY TB	C-82, E-108
LVS04224	5 PRACTIC RAISERS	C-63, D-51, E-25
LVS04226	2 MODULAR DEVICE RAILS L1600	C-65, C-84, D-53, E-27, E-110
LVS04227	RAIL AND RAISERS MODULAR	E-74
LVS04229	20 TAB CONN.M10 VOLT.TAP-OFFS	C-74, D-62, E-85
LVS04233	TRUNKING DOOR L2000	C-66, D-54, E-28
LVS04234	10 WIRING THROUGH FR.GROMMETS	C-66, D-54, E-28
LVS04235	WIRING TO DOOR FLEX.TRUNKING	C-66, D-54, E-28
LVS04239	12 HZ.CABLE STRAPS	C-66, D-54, E-28
LVS04243	4 COVERS HZ.CABLE STRAPS	C-66, D-54, E-28
LVS04255	12 HZ.TRUNKING SUPPORTS	C-66, D-54, E-28
LVS04256	10 HZ. ADJUSTABLE TRUNKING SUP	C-66, D-54, E-28
LVS04257	4HZ.TRUNKING SECTIONS L450+SUP	C-66, D-54, E-28

PrismaSeT P Specific Applications - Index

Index of Commercial References with Description

www.se.com

Com. ref.	Description	Page	Com. ref.	Description	Page
LVS04267	VERTICAL TRUNKING L2000	C-66, D-54, E-28	LVS04462	CONNECTION NSX TOGGLE-4P 630A PLUGIN HZ	E-53
LVS04403	LINERGY FC D.BLK /NSX250 3P TOG/ FIX+CONN	E-88	LVS04463	690V VBB SIDE CONN. COVER 400-630A 3P&4P	C-22
LVS04404	LINERGY FC D.BLK /NSX250 4P TOG/ FIX+CONN	E-57, E-88	LVS04473	CONNECTION NS -3P 1000A FIXED HORIZONTAL	E-49, E-133
LVS04405	LINERGY FC D.BLK /NSX250 3P WITH CONN	E-88	LVS04474	CONN. HORIZ FIXED MTZ1/NT 4P 1000A	E-49, E-133
LVS04406	LINERGY FC D.BLK /NSX250 4P WITH CONN	E-88	LVS04475	CONN. FIXED MTZ1/NT 3P 1250A	E-42, E-43, E-132
LVS04407	LINERGY FC D.BLK /NSX250 3P WITHOUT CONN	E-88	LVS04476	CONN. FIXED MTZ1/NT 4P 1250A	E-42, E-43, E-132
LVS04408	LINERGY FC D.BLK /NSX250 4P WITHOUT CONN	E-57, E-88	LVS04477	CONN. WITHD NS-MTZ1/NT 3P 1250A	E-42, E-43, E-47, E-48, E-131, E-132
LVS04410	LINERGY FC NSXm160 3P MAN/ FIX+CON	E-90	LVS04478	CONN. WITHD NS-MTZ1/NT 4P 1250A	E-42, E-43, E-47, E-48, E-131, E-132
LVS04411	LINERGY FC NSXm160 4P MAN/ FIX+CON	E-90	LVS04481	CONNECTION INS-INV -3P 1600A FIXED	E-56
LVS04412	LINERGY FC NSXm160 3P AVEC CON	E-90	LVS04482	CONNECTION INS-INV -4P 1600A FIXED	E-56
LVS04413	LINERGY FC NSXm160 4P AVEC CON	E-90	LVS04483	CONN.TRANSF. NS -3P 1000A FIXED HORZ	E-49, E-148
LVS04416	LINERGY FC NSXm160 3P + LIAISONS	E-90	LVS04484	CONN.TRANSF. NS -4P 1000A FIXED HORZ	E-49, E-148
LVS04417	LINERGY FC NSXm160 3P + TRESSES	E-90	LVS04485	CONNECTION NS -3P 1250A FIXED	E-47, E-48, E-131
LVS04418	LINERGY FC NSXm160 3P S/S LIAISON	E-90	LVS04486	CONNECTION NS -4P 1250A FIXED	E-47, E-48, E-131
LVS04419	LINERGY FC NSXm160 3P SANS CON	E-90	LVS04487	CONNECTION NS -3P 1600A FIXED	E-47, E-48, E-131
LVS04420	LINERGY FC NSXm160 4P SANS CON	E-90	LVS04488	CONNECTION NS -4P 1600A FIXED	E-47, E-48, E-131
LVS04423	CONNECTION NSX TOGGLE-3P 250A FIXED HORZ	E-52	LVS04489	CONN. FIXED MTZ1/NT 3P 1600A	E-42, E-43, E-132
LVS04424	CONNECTION NSX TOGGLE-4P 250A FIXED HORZ	E-52	LVS04490	CONN. FIXED MTZ1/NT 4P 1600A	E-42, E-43, E-132
LVS04425	CONN.TRANSF. NSX TOG -3P 250A FIXED HORZ	C-22, E-52	LVS04491	CONN. WITHD NS-MTZ1/NT 3P 1600A	E-42, E-43, E-47, E-48, E-131, E-132
LVS04426	CONN.TRANSF. NSX TOG -4P 250A FIXED HORZ	C-22, E-52	LVS04492	CONN. WITHD NS-MTZ1/NT 4P 1600A	E-42, E-43, E-47, E-48, E-131, E-132
LVS04427	CONN. NSX/INS -3P 250A FIXED/ WITHD HORZ	E-54, E-57	LVS04493	CONN. HORIZ LGYE MTZ2/NW 1600A 3P	E-37, E-39
LVS04428	CONN. NSX/INS -4P 250A FIXED/ WITHD HORZ	E-54, E-57	LVS04494	CONN. HORIZ LGYE MTZ2/NW 1600A 4P	E-37, E-39
LVS04429	UNIVERSAL CONNECTION IN DUCT 250A 3P	E-53, E-54	LVS04495	CONN. HORIZ LGYE MTZ2/NW 2500A 3P	C-9, C-11, E-37, E-39
LVS04430	UNIVERSAL CONNECTION IN DUCT 250A 4P	E-53, E-54	LVS04496	CONN. HORIZ LGYE MTZ2/NW 2500A 4P	C-9, C-11, E-37, E-39
LVS04431	CONNECTION NSX TOGGLE-3P 250A PLUGIN HZ	E-53	LVS04497	CONN. HORIZ LGYE MTZ2/NW 3200A 3P	C-9, C-11, E-37, E-39
LVS04432	CONNECTION NSX TOGGLE-4P 250A PLUGIN HZ	E-53	LVS04498	CONN. HORIZ LGYE MTZ2/NW 3200A 4P	C-9, C-11, E-37, E-39
LVS04433	690V VBB SIDE CONN COVER 100-250A 3P&4P	C-22	LVS04502	LINERGY LGY VERTICAL PROFILE 630A L1670	C-83, D-64, E-83, E-109
LVS04453	CONNECTION NSX TOGGLE-3P 630A FIXED HORZ	E-52	LVS04503	LINERGY LGY VERTICAL PROFILE 800A L1670	C-83, D-64, E-83, E-109
LVS04454	CONNECTION NSX TOGGLE-4P 630A FIXED HORZ	E-52	LVS04504	LINERGY LGY VERTICAL PROFILE 1000A L1670	E-83
LVS04455	CONN.TRANSF. NSX TOG -3P 630A FIXED HZ	C-22, E-52			
LVS04456	CONN.TRANSF. NSX TOG -4P 630A FIXED HZ	C-22, E-52			
LVS04459	UNIVERSAL CONNECTION IN DUCT 630A 3P	E-52, E-53, E-54			
LVS04460	UNIVERSAL CONNECTION IN DUCT 630A 4P	E-52, E-53, E-54, E-57			
LVS04461	CONNECTION NSX TOGGLE-3P 630A PLUGIN HZ	E-53			

PrismaSeT P Specific Applications - Index

Index of Commercial References with Description

www.se.com

Com. ref.	Description	Page
LVS04505	LINERGY LGY VERTICAL PROFILE 1250A L1670	C-83, D-64, E-83, E-109
LVS04506	LINERGY LGY VERTICAL PROFILE 1600A L1670	E-83
LVS04507	LINERGY LGYE VERT PROFILE 2000A L1625	C-73, D-61, E-84
LVS04508	LINERGY LGYE VERT PROFILE 2500A L1625	C-73, D-61, E-84
LVS04509	LINERGY LGYE VERT PROFILE 3200A L1625	C-73, E-84
LVS04512	PE V.BAR W.HOLES 25X5 L1675 LINERGY TB	C-83, D-64, E-109
LVS04515	PE V.BAR W.HOLES 50X5 L1675 LINERGY TB	C-83, D-64, E-109
LVS04516	DRILLED FLAT BAR LINERGY BS 60X5 L1675	C-83, D-64, E-109
LVS04560	LINERGY LGYE PROFILE 630A L2000	C-72, C-73, D-60, D-61, E-82, E-84
LVS04561	LINERGY LGYE PROFILE 800A L2000	C-72, C-73, D-60, D-61, E-82, E-84
LVS04562	LINERGY LGYE PROFILE 1000A L2000	C-72, C-73, D-60, D-61, E-82, E-84
LVS04563	LINERGY LGYE PROFILE 1250A L2000	C-72, C-73, D-60, D-61, E-82, E-84
LVS04564	LINERGY LGYE PROFILE 1600A L2000	C-72, C-73, D-60, D-61, E-82, E-84
LVS04565	LINERGY LGYE PROFILE 2000A L2000	C-72, D-60, E-82
LVS04566	LINERGY LGYE PROFILE 2500A L2000	C-72, D-60, E-82
LVS04567	LINERGY LGYE PROFILE 3200A L2000	C-72, E-82
LVS04602	LINERGY LGYE VERTICAL CONNECTION 1600A	C-73, C-83, D-61, E-83, E-84, E-109
LVS04603	LINERGY LGYE VERT. SHIFTED CONNECT. 1600A	C-73, D-61, E-83, E-84
LVS04604	LINERGY LGYE VERT. SHORT CONNECT. 2500A	C-73, D-61, E-84
LVS04605	LINERGY LGYE VERT. LONG CONNECT. 2500A	C-73, D-61, E-84
LVS04607	LINERGY LGYE VERTICAL CONNECTION 4000A	C-73, E-84
LVS04620	LINERGY LGYE HORIZONTAL JOINT 1600A	C-72, D-60, E-82
LVS04621	LINERGY LGYE HORIZONTAL JOINT 2500A	C-72, D-60, E-82
LVS04623	LINERGY LGYE HORIZONTAL JOINT 4000A	C-72, E-82
LVS04624	LINERGY LGYE ISOLATING SCREEN NEUTRAL	C-72, D-60, E-82
LVS04636	CONNECT. 1600A 10MM HZ BAR/ LGY V.PROFILE	C-83, E-109
LVS04646	MOUNTING HARDWARE LINERGY LGYE >= 3200A	C-72, C-73, D-61, E-82, E-84
LVS04651	LINERGY LGY LATERAL BUSBAR SUPPORT	E-83
LVS04656	LINERGY TB PEN KIT / LGY PROFILE	C-83, E-109
LVS04657	LINERGY TB 3 FLAT BAR SUPP.FOR VERT.PE	C-83, D-64, E-109

Com. ref.	Description	Page
LVS04658	12 STOPS/1600A BOTT.SUPPORT LINERGY LGYE	C-73, D-61, E-84
LVS04659	12 STOPS/4000A BOTT.SUPPORT LINERGY LGYE	C-73, D-61, E-84
LVS04661	FIXED SUPPORT VERT. BB LINERGY LGYE/BS	C-73, D-61, E-84
LVS04662	FREE BUSBAR SUPPORT LINERGY LGYE/BS	C-9, C-11, C-16, C-17, C-72, C-73, D-9, D-11, D-13, D-15, D-60, D-61, E-37, E-39, E-42, E-43, E-45, E-46, E-47, E-48, E-51, E-56, E-82, E-84
LVS04663	BOTTOM LAT.V.5/10 BB SUPPORT LIN. LGYE/BS	C-73, D-61, E-84
LVS04664	FIXED SUPPORT HZ. BB LINERGY LGYE/BS	C-72, D-60, E-82
LVS04666	BOT.LAT.5/10 BB SUPPORT W300 LIN. LGYE/BS	C-73, D-61, E-84
LVS04667	2 HORIZONTAL PE SUPPORTS LINERGY TB	C-63, C-83, D-51, D-64, E-25, E-109
LVS04671	MOUNT. HARDWARE BB>80MM LINERGY LGYE/BS	C-72, C-73, D-60, D-61, E-82, E-84
LVS04672	2 CONNECT.PLATE HZ/V.PE BAR LINERGY TB	C-83, D-64, E-109
LVS04678	FREE 5/10 BUSBAR SUPPORT D600 LINERGY BS	C-8, C-10, E-36, E-38
LVS04683	JOINT LINERGY VERT.LGY/LGYE 1600A 3P	E-37, E-39
LVS04684	JOINT LINERGY VERT.LGY/LGYE 1600A 4P	E-37, E-39
LVS04685	JOINT LINERGY VERTICAL LGYE 2500A NW	C-9, C-11, E-37, E-39
LVS04687	JOINT LINERGY VERTICAL LGYE 3200A NW	C-9, C-11, E-37, E-39
LVS04690	FLANGE FOR FLAT BARS	C-13
LVS04691	FLANGE FOR EDGEWISE BARS	C-16, C-19, E-42, E-45, E-47, E-51
LVS04692	FLANGE FOR FLAT BARS W400	C-19, E-45, E-51
LVS04693	CONN.SUP.70MM B/CENTRES	C-16, C-17, E-42, E-43, E-47, E-48
LVS04694	CONN.SUP 115MM B/CENTRES	C-8, C-10, C-12, D-10, D-12, D-14, E-36, E-38, E-46, D-9
LVS04703	CANALIS INTERFACE 1600A 3P	C-17, E-43, E-48
LVS04704	CANALIS INTERFACE 1600A 4P	C-17, E-43, E-48
LVS04711	CANALIS CONN.FRONT NS-MTZ1/ NT 3P	C-17, E-43, E-48
LVS04712	CANALIS CONN.FRONT NS-MTZ1/ NT 4P	C-17, E-43, E-48
LVS04713	CANALIS CONN.REAR NS-MTZ1/ NT 3P	C-17, E-43, E-48
LVS04714	CANALIS CONN.REAR NS-MTZ1/ NT 4P	C-17, E-43, E-48

PrismaSeT P Specific Applications - Index

Index of Commercial References with Description

www.se.com

Com. ref.	Description	Page
LVS04715	CANALIS CONN.1600A MTZ2/NW 3P	C-10, D-10, D-14, E-38
LVS04716	CANALIS CONN.1600A MTZ2/NW 4P	C-10, E-38
LVS04725	CANALIS CONN.2500A MTZ2/NW 3P	C-10, D-10, D-14, E-38
LVS04726	CANALIS CONN.2500A MTZ2/NW 4P	C-10, E-38
LVS04735	CANALIS CONN.3200A MTZ2/NW 3P	C-10, E-38
LVS04736	CANALIS CONN.3200A MTZ2/NW 4P	C-10, E-38
LVS04742	INSULATED FLEX.BAR 20X2 L1800	C-76, C-77, D-63, E-92, E-93
LVS04743	INSULATED FLEX.BAR 20X3 L1800.	C-76, C-77, D-63, E-92, E-93
LVS04746	INSULATED FLEX.BAR 24X5 L1800	E-92
LVS04751	INSULATED FLEX.BAR 32X5 L1800	C-76, C-77, D-63, C-77, E-92, E-93
LVS04752	INSULATED FLEX.BAR 32X6 L1800	C-77, E-92, E-93
LVS04753	INSULATED FLEX.BAR 32X8 L1800	C-76, C-77, E-92, E-93
LVS04759	20 M8 TORQUE NUTS	C-74, D-62, E-85
LVS04766	20 M8 LGY BOLTS FOR CAB.LUG/ FLEX BAR L25	C-74, C-83, D-62, D-64, E-85, E-109
LVS04767	20 M8 LGY BOLTS FOR COPPER BAR L39	C-74, D-62, E-85
LVS04768	SET OF 12 SCREWPLATES FOR LINERGY EVOLUT	C-74, D-62, E-85
LVS04769	SET OF 8 SCREWPLATES FOR LINERGY EVOLUTI	C-74, D-62, E-85
LVS04772	20 M8/DIAM.20 FLAT WASHERS FLEX. BAR/LGY	C-74, D-62, E-85
LVS04773	20 M8/DIAM.24 FLAT WASHERS FLEX. BAR/LGY	C-74, D-62, E-85
LVS04774	20 M8/DIAM.28 FLAT WASHERS FLEX. BAR/LGY	C-74, D-62, E-85
LVS04775	20 M8/DIAM.20 FLAT WASHERS LUGS<25°/LGY	C-74, D-62, E-85
LVS04782	20 BOLTS 8.8 CLASS M8X20 / LINERGY BS	C-74, D-62, E-85
LVS04783	21 BOLTS 8.8 CLASS M8X25 / LINERGY BS	C-74, D-62, E-85
LVS04784	22 BOLTS 8.8 CLASS M8X30 / LINERGY BS	C-74, D-62, E-85
LVS04785	23 BOLTS 8.8 CLASS M8X35 / LINERGY BS	C-74, D-62, E-85
LVS04786	24 BOLTS 8.8 CLASS M8X40 / LINERGY BS	C-74, D-62, E-85
LVS04787	25 BOLTS 8.8 CLASS M8X45 / LINERGY BS	C-74, D-62, E-85
LVS04788	26 BOLTS 8.8 CLASS M8X50 / LINERGY BS	C-74, D-62, E-85
LVS04794	12 PHASE MARKER/LINERGY LGY/ LGYE PROFILE	C-74, D-62, E-85
LVS04809	4P TOOTH-CAPS /LINERGY FC D.BLK NSX250	E-57, E-89
LVS04810	12*TOOTH-CAP 1P LINERGY FC D.BLK NSXM160	E-91
LVS04842	CONN.COVER HZ.FIX.NS1600	E-49

Com. ref.	Description	Page
LVS04851	FRONT CONN.COVER V.FIX.NS1600	E-47, E-48, E-119
LVS04852	FRONT V. CONN.COVER NS-MTZ1/NT	C-16, C-17, C-93, E-42, E-43, E-47, E-48, E-119
LVS04853	REAR CONN.COV.V.FIX.NS1600	E-47, E-119
LVS04854	REAR HORIZ CONN.COVER NS-MTZ1/NT	C-16, C-17, C-93, E-42, E-43, E-47, E-48, E-119
LVS04855	BUSBAR COVER V. NS-MTZ1/NT W400	C-19, E-45, E-51
LVS04860	BUSBAR COVER V. MTZ2/NW/ISFL W650	C-13, E-68
LVS04861	FRONT CONN. COVER MTZ2/NW	C-8, C-10, C-12, C-14, C-93, E-36, E-38, E-40, E-119
LVS04863	REAR CONN. COVER MTZ2/NW	C-8, C-10, C-93, E-36, E-38, E-119
LVS04871	CANALIS	C-10, C-17, C-93, E-38, E-43, E-48, E-119
LVS04901	FORM 3 HORIZONTAL PARTITION	C-95, D-70, E-121
LVS04911	INTER-CUBICLE PARTITION D400	C-97, D-71, E-123
LVS04920	W300 FR.BARRIER FOR LAT.V.BB.	C-94, D-69, E-120
LVS04921	W150 FR.BARRIER FOR LAT.V.BB.	C-94, D-69, E-120
LVS04922	FORM 2 SIDE BARRIER FOR LAT. VERT.BB.	C-94
LVS04924	FORM 2 SIDE BARRIER RESTORATION KIT	C-94, D-69, E-120
LVS04925	PARTITION CONN.LGYE DEV>800A W650 D600	C-9, C-11, C-93, D-9, D-11, D-13, D-15, D-69, E-37, E-39, E-119
LVS04926	PARTITION CONN. DEV>800A W650 D600	C-16, C-17, C-93, D-69, E-37, E-39, E-42, E-43, E-46, E-47, E-48, E-56, E-119
LVS04927	ADDITIONAL PARTITION CONN.W650 D600	C-93, D-69, E-37, E-39, E-46, E-119
LVS04928	ADDITIONAL PARTITION LGYE CONN. W650 D600	C-9, C-11, C-93, D-9, D-11, D-13, D-15, D-69, E-37, E-39, E-119
LVS04931	INTER-CUBICLE PARTITION D600	C-97, D-71, E-123
LVS04943	F3 PARTITION REAR SUPPORT	C-95, D-70, E-121
LVS04946	F4 BACKPLATE FRONT CONN.D600	C-96, D-70, E-122
LVS04951	FORM 4 CABLE GLAND PLATE 3/4 MODULES	C-23, C-96, D-70, E-122

PrismaSeT P Specific Applications - Index

Index of Commercial References with Description

www.se.com

Com. ref.	Description	Page
LVS04952	FORM 4 CABLE GLAND PLATE 5/6 MODULES	C-96, D-70, E-122
LVS04953	FORM 4B COVER TRANSF. CONNECTION 3/5M	C-96, E-122
LVS04954	FORM 4B COVER TRANSF. CONNECTION 4/6M	C-96, E-122
LVS04955	FORM 3 REAR CONN. -VERT. PARTITION 3/4M	C-95, E-121
LVS04956	FORM 3 REAR CONN. -VERT. PARTITION 5/6M	C-95, E-121
LVS04963	FORM 2 COVER HORZ.BB.4000A W300 D600	C-94, E-120
LVS04964	FORM 2 COVER HORZ.BB.4000A W400 D600	C-94, E-120
LVS04966	FORM 2 COVER HORZ.BB.4000A W650 D600	C-94, E-120
LVS04968	FORM 2 COVER HORZ.BB.4000A W800 D600	C-94, E-120
LVS04973	FORM 2 COVER HORZ.BUSBAR W300 D400	C-94, E-120
LVS04974	FORM 2 COVER HORZ.BUSBAR W400 D400	C-94, E-120
LVS04976	FORM 2 COVER HORZ.BUSBAR W650 D400	C-94, E-120
LVS04978	FORM 2 COVER HORZ.BUSBAR W800 D400	C-94, E-120
LVS04983	FORM 2 COVER HORZ.BUSBAR W300 D600	C-94, E-120
LVS04984	FORM 2 COVER HORZ.BUSBAR W400 D600	C-94, E-120
LVS04986	FORM 2 COVER HORZ.BUSBAR W650 D600	C-94, E-120
LVS04988	FORM 2 COVER HORZ.BUSBAR W800 D600	C-94, E-120
LVS04991	800V VBB PARTITON PLATE NSX250K & 400K	D-19
LVS04994	800V VERT. PARTITION EASYPACT SOLAR 160A	D-17
LVS04995	800V MYLAR NSX 250K-400K FOR MOUNT PLATE	D-19
LVS07931	RAL 7016 ROTATIVE HANDLE PRISMASET P/G	C-68, D-56, E-30
LVS07932	EURO ROTATIVE WHITE HANDLE PRISMA P/G	C-68, D-56, E-30
LVS07933	ASSA/ABLOY ROTATIVE WHITE HANDLE PRISMA	C-68, D-56, E-30
LVS07938	HANDLE PADLOCKING KIT FOR 1 LOCKERS	C-68, D-56, E-30
LVS07940	BARREL BLOC WITH COMBINATION LOCK 405	C-68, D-56, E-30
LVS07941	BARREL BLOC WITH COMBINATION LOCK 455	C-68, D-56, E-30
LVS07942	BARREL BLOC WITH COMBINATION LOCK 1242E	C-68, D-56, E-30
LVS07943	BARREL BLOC WITH COMBINATION LOCK 3113A	C-68, D-56, E-30
LVS07944	BARREL BLOC WITH COMBINATION LOCK 2433A	C-68, D-56, E-30
LVS07945	INSERT BLOC COMBINAISON.DIN DOUBLE BAR	C-68, D-56, E-30
LVS07946	INSERT BLOC COMBINAISON. SCREWDRIVER SLOT	C-68, D-56, E-30

Com. ref.	Description	Page
LVS07949	INSERT BLOC COMBI.8MM MALE TRIANGLE	C-68, D-56, E-30
LVS07951	INSERT BLOC COMBINAISON.6MM MALE SQUARE	C-68, D-56, E-30
LVS07953	INSERT BLOC COMBINAISON.8MM MALE SQUARE	C-68, D-56, E-30
LVS07956	BARREL BLOC WITH COMBINATION LOCK 2432 E	C-68, D-56, E-30
LVS08403	FRAMEWORK P W300 D400	C-45, C-58, D-34, D-46, E-9, E-20
LVS08404	FRAMEWORK P W400 D400	C-45, C-58, D-34, D-46, E-9, E-20
LVS08406	FRAMEWORK P W650 D400	C-43, C-44, C-45, C-58, D-33, D-34, D-46, E-8, E-9, E-20
LVS08407	PRISMA P FRAMEWORK W650+150 D400	C-43, C-44, C-45, C-58, D-33, D-34, D-46, E-8, E-9, E-20
LVS08408	FRAMEWORK P W800 D400	E-9
LVS08453	PLN.ROOF P IP55 W300 D400	C-54, C-56, D-43, E-17
LVS08454	PLN.ROOF P IP55 W400 D400	C-54, C-56, D-43, E-17
LVS08456	PLN.ROOF P IP55 W650 D400	C-43, C-44, C-54, C-56, D-33, D-43, E-8, E-17
LVS08458	PLN.ROOF P IP55 W800 D400	C-43, C-44, C-54, C-56, D-33, D-43, E-8, E-17
LVS08478	IP55 VENTILATED ROOF W800 D400	E-71
LVS08483	IP55 PLAIN GL.PL.W300 D400	C-57
LVS08484	IP55 PLAIN GL.PL.W400 D400	C-57
LVS08486	IP55 PLAIN GL.PL.W650 D400	C-43, C-44, C-57, D-33, E-8
LVS08487	IP55 PLAIN GL.PL.W650+150 D400	C-43, C-44, C-57, D-33, E-8
LVS08488	IP55 PLAIN GL.PL.W800 D400	C-57
LVS08493	IP30 2-PART GL.PL.W300 D400	C-57, D-45, E-19
LVS08494	IP30 2-PART GL.PL.W400 D400	C-57, D-45, E-19
LVS08496	IP30 2-PART GL.PL.W650 D400	C-57, D-45, E-19
LVS08497	IP30 2-PART GL.PL.W650+150D400	C-57, D-45, E-19
LVS08498	IP30 2 PART GL.PL.W800 D400	C-57, D-45, E-19
LVS08523	PLN.DOOR P IP55 W300	C-42, C-52, C-55, D-32, D-42, E-16
LVS08524	PLN.DOOR P IP55 W400	C-52, C-55, D-42, E-16
LVS08526	PLN.DOOR P IP55 W650	C-42, C-43, C-44, C-55, D-32, D-33, E-8

PrismaSeT P Specific Applications - Index

Index of Commercial References with Description

www.se.com

Com. ref.	Description	Page	Com. ref.	Description	Page
LVS08528	PLN.DOOR P IP55 W800	C-42, C-43, C-44, C-55, D-32, D-33, E-8	LVS08684	IP55 PLAIN GL.PL.W400 D600	C-57
LVS08544	TRANSP.DOOR P IP55 W400	C-52, C-55	LVS08686	IP55 PLAIN GL.PL.W650 D600	C-42, C-44, C-57, D-32, D-33, E-8
LVS08546	TRANSP.DOOR P IP55 W650	C-52, C-55	LVS08687	IP55 PLAIN GL.PL.W650+150 D600	C-42, C-44, C-57, D-32, D-33, E-8
LVS08548	TRANSP.DOOR P IP55 W800	C-52, C-55	LVS08688	IP55 PLAIN GL.PL.W800 D600	C-57
LVS08560	10M HINGED FRONT.PLATE SUP. KIT W650	C-14, C-45, E-9, E-40, E-41	LVS08693	IP30 2-PART GL.PL.W300 D600	C-57, D-45, E-19
LVS08562	12M HINGED FRONT PLATE SUP. FRAME W650	C-14, C-45, D-21, D-23, E-9, E-40, E-41, E-68	LVS08694	IP30 2-PART GL.PL.W400 D600	C-57, D-45, E-19
LVS08564	HINGED FR.PL SUP.FRAME P W400	C-45, D-34, E-9	LVS08696	IP30 2-PART GL.PL.W650 D600	C-57, D-45, E-19
LVS08566	HINGED FR.PL SUP.FRAME P W650	C-42, C-43, C-44, C-45, D-32, D-33, D-34, E-8, E-9	LVS08697	IP30 2-PART GL.PL.W650+150D600	C-57, D-45, E-19
LVS08585	FRONT PLATE HINGE KIT	C-61, D-49, E-23	LVS08698	IP30 2 PART GL.PL.W800 D600	C-57, D-45, E-19
LVS08603	FRAMEWORK P W300 D600	C-42, C-45, C-58, D-32, D-34, D-46, E-9, E-20	LVS08700	4 LIFTING RINGS	C-59, D-47, E-21
LVS08604	FRAMEWORK P W400 D600	C-45, C-58, D-34, D-46, E-9, E-20	LVS08701	STABILISER KIT	C-59, D-47, E-21
LVS08606	FRAMEWORK P W650 D600	C-42, C-44, C-45, C-58, D-32, D-33, D-34, D-46, E-8, E-9, E-20	LVS08702	LEVELLING KIT	C-60, D-48, E-22
LVS08607	FRAMEWORK P W650+150 D600	C-42, C-44, C-45, C-58, D-32, D-33, D-34, D-46, E-8, E-9, E-20	LVS08703	FALSE FLOOR FIXING KIT	C-60, D-48, E-22
LVS08608	FRAMEWORK P W800 D600	E-9	LVS08704	FLOOR/WALL FIXING KIT	C-60, D-48, E-22
LVS08640	PrismaSeT P Green Cover W300	C-54, C-56, D-44, E-18	LVS08705	HANDL.PLINTH LH 1200 SUP 1900	D-46
LVS08641	PrismaSeT P Green Cover W400	C-54, C-56, D-44, E-18	LVS08706	HANDL.PINTH LH 2000	C-58, D-46, E-20
LVS08642	PrismaSeT P Green Cover W650	C-54, C-56, D-44, E-18	LVS08707	HANDL PLINTH LH 2600	D-46
LVS08643	PrismaSeT P Green Cover W800	C-54, C-56, D-44, E-18	LVS08710	REINFORCED BRACKET FOR PRISMA P SEISMIC	C-58, D-46, E-20
LVS08653	PLN.ROOF P IP55 W300 D600	C-42, C-54, C-56, D-32, D-44, E-17	LVS08714	2 SIDE PARTS HANDL.PLINTH D400	C-58, D-46, E-20
LVS08654	PLN.ROOF P IP55 W400 D600	C-54, C-56, D-44, E-17	LVS08716	2 SIDE PARTS HANDL.PLINTH D600	C-58, D-46, E-20
LVS08656	PLN.ROOF P IP55 W650 D600	C-42, C-44, C-54, C-56, D-32, D-33, D-44, E-8, E-17, E-18	LVS08717	SIDE/SIDE COMBI.IP55 SEAL.KIT	C-46
LVS08658	PLN.ROOF P IP55 W800 D600	C-42, C-44, C-54, C-56, D-32, D-33, D-44	LVS08718	10 COMBINATION SCREWS ET ACC.	C-46, D-35, E-10
LVS08678	IP55 VENTILATED ROOF W800 D600	E-8, E-17, E-71	LVS08719	DOUBLE DEPTH COMBINATION KIT	C-43, C-44, C-46, D-33, D-35, E-8, E-10
LVS08683	IP55 PLAIN GL.PL.W300 D600	C-42, C-57, D-32	LVS08720	2 SIDE.PL PLINTH P D400	C-57, D-45, E-19
			LVS08721	2 SIDE.PL PLINTH P D600	C-57, D-45, E-19
			LVS08722	COMBINATION KIT FOR LIFTING	C-58, D-46, E-20
			LVS08723	PLINTH P H100 W300 D400	C-57, D-45, E-19
			LVS08724	PLINTH P H100 W400 D400	C-57, D-45, E-19
			LVS08726	PLINTH P H100 W650 D400	C-57, D-45, E-19
			LVS08728	PLINTH P H100 W800 D400	C-57, D-45, E-19
			LVS08743	REAR.PANEL P IP55 W300	C-42, C-53, C-55, D-32, D-42, E-17
			LVS08744	REAR.PANEL P IP55 W400	C-53, C-55, D-42, E-17

PrismaSeT P Specific Applications - Index

Index of Commercial References with Description

www.se.com

Com. ref.	Description	Page
LVS08746	REAR.PANEL P IP55 W650	C-42, C-43, C-44, C-53, C-55, D-32, D-33, D-42, E-8, E-17
LVS08748	REAR.PANEL P IP55 W800	C-42, C-43, C-44, C-53, C-55, D-32, D-33, D-42, E-8, E-17, E-71
LVS08749	IP55 REAR PANEL W800 FOR CAPACITORS	E-71
LVS08755	2 SIDE PANELS P IP55 D400	C-43, C-44, C-52, C-56, D-33, D-42, E-8, E-16
LVS08765	2 IP55 SIDE PANELS D600	C-42, C-44, C-52, C-56, D-32, D-33, D-42, E-8, E-16
LVS08773	4 CABLE TIE SUPPORTS W300	C-58, C-67, D-46, D-55, E-20, E-29
LVS08774	4 CABLE TIE SUPPORTS W400	C-19, C-58, C-67, D-46, D-55, E-20, E-29, E-45, E-51
LVS08776	4 CABLE TIE SUPPORTS W650	C-67, D-55, E-29
LVS08778	4 CABLE TIE SUPPORTS W800	C-67, D-55, E-29
LVS08783	FORM C CABLE TIE SUP. L1600	C-67, D-55, E-29
LVS08794	4 CABLE TIE SUPPORTS D400	C-19, C-67, D-55, E-29, E-45, E-51
LVS08796	4 CABLE TIE SUPPORTS D600	C-19, C-67, D-55, E-29, E-45, E-51
LVS08900	SWITCHBOARD IDENTIFICATION PL.	C-61, D-49, E-23
LVS08903	12 ADHESIVE LABEL HOLDERS 24x432	C-61, D-49, E-23
LVS08904	12 ADHESIVE LABEL HOLDERS 36x432	C-61, D-49, E-23
LVS08905	12 ADHESIVE LABEL HOLDERS 24x180 W300	C-61, D-49, E-23
LVS08906	12 ADHESIVE LABEL HOLDERS 36x180 W300	C-61, D-49, E-23
LVS08910	EARTHING BRAID 6MM	C-68, D-56, E-30
LVS08911	EARTHING WIRE 6MM	C-68, D-56, E-30
LVS08913	12 CLIP-ON LABELS 18X35	C-61, D-49, E-23
LVS08914	12 ENGRAVING PLATES 18X35 / SUPPORT 08913	C-61, D-49, E-23
LVS08915	12 CLIP-ON LABELS 18X72	C-61, D-49, E-23
LVS08916	12 ENGRAVING PLATES 18X72 / SUPPORT 08915	C-61, D-49, E-23
LVS08917	12 CLIP-ON LABELS 25X85	C-61, D-49, E-23
LVS08918	12 ENGRAVING PLATES 25X85 / SUPPORT 08917	C-61, D-49, E-23

Com. ref.	Description	Page
LVS08921	20 FRAMEWORK SCREWS+WING NUTS	C-46, D-35, E-10
LVS08961	TOUCH-UP PAINT BRUSH	C-61, D-49, E-23
LVS08963	ADHESIVE DRAWING HOLDER	C-61, D-49, E-23
LVS08964	SWITCHBOARD LIGHTING	E-33
LVS08965	SWITCHBOARD PORTABLE LAMP	E-33

N

NSYCAC228RMB	Roof outlet grid cut-out 228x228mm	D-44, E-18, E-71
NSYCAF228R	Filter for Roof O.Grid 228x228mm	E-71
NSYCAF291M	Anti-insect filter for outlet grille or fan cut-out 291x291mm	C-53, D-43
NSYCAC291LPF	Outlet Grid cut-out 291x29mm	C-53, D-43, E-71
NSYCCASTE	Temperature sensor L=3m.	E-32
NSYCCOHHY230VID	Electronical Hygrostat% Hr 230V	E-32
NSYCCOHHY230VID	Hygrotherm 230V	E-32
NSYCCOTH230VID	Electronical Thermostat 230V	E-32
NSYCCOTH230VID	Double Thermostat NO NC Deg Celsius	E-32
NSYCCOTHI	Thermostat w/Invers Contact Deg C	E-32
NSYCR10WU2	Resist.heater Alum 10W, 110-250V	C-69, D-57, E-31
NSYCR20WU2	Resist.heater Alum 20W, 110-250V	C-69, D-57, E-31
NSYCR55WU2	Resist.heater Alum 55W, 110-250V	C-69, D-57, E-31
NSYCR100WU2	HEATING RESISTOR 110-250V 100W NSYCR100W	C-69, D-57, E-31
NSYCR150WU2	Resist.heater Alum 150W, 110-250V	C-69, D-57, E-31
NSYCR250W230VV	Resis.ventil. 250W ,230V Alum	C-69, D-57, E-31
NSYCR400W230VV	Resis.ventil. 400W 230V Alum	C-69, D-57, E-31
NSYCRP1W230VTV	Thermoventil.Heat.350-500W 230V.	C-69, D-57, E-31
NSYCVF575M230MB	Roof filterfan 575m3/h 230V RAL 9003	E-71
NSYCVF850M230PF	Filterfan 850m3/h 230V IP54	E-71
NSYTRAB610	CLIP IN MARKING STRIP, 6MM, 10 CHARACTER	C-86, E-112
NSYTRAB620	CLIP IN MARKING STRIP, 6MM, 10 CHARACTER	C-86, E-112
NSYTRAB630	CLIP IN MARKING STRIP, 6MM, 10 CHARACTER	C-86, E-112
NSYTRAB640	CLIP IN MARKING STRIP, 6MM, 10 CHARACTER	C-86, E-112
NSYTRAB690	CLIP IN MARKING STRIP, 6MM, 10 CHARACTER	C-86, E-112
NSYTRAB6100	CLIP IN MARKING STRIP, 6MM, 10 CHARACTER	C-86, E-112
NSYTRAB61100	CLIP IN MARKING STRIP, 6MM, 100 CHARACTERS	C-86, E-112
NSYTRABF510	CLIP IN MARKING STRIP, FLAT, 5MM, 10 CHA	C-86, E-112
NSYTRABF520	CLIP IN MARKING STRIP, FLAT, 5MM, 10 CHA	C-86, E-112
NSYTRABF530	CLIP IN MARKING STRIP, FLAT, 5MM, 10 CHA	C-86, E-112

PrismaSeT P Specific Applications - Index

Index of Commercial References with Description

Com. ref.	Description	Page	Com. ref.	Description	Page
NSYTRABF540	CLIP IN MARKING STRIP, FLAT, 5MM, 10 CHA	C-86, E-112	NSYTRAL23	PLUG-IN BRIDGE, 3POINTS FOR 2,5MMA TERMI	C-86, E-112
NSYTRABF550	CLIP IN MARKING STRIP, FLAT, 5MM, 10 CHA	C-86, E-112	NSYTRAL24	PLUG-IN BRIDGE, 4POINTS FOR 2,5MMA TERMI	C-86, E-112
NSYTRAC22	END COVER, 2PTS, 2,2MM WIDTH, FOR SCREW	C-86, E-112	NSYTRAL25	PLUG-IN BRIDGE, 5POINTS FOR 2,5MM TERMI	C-86, E-112
NSYTRAC22BL	END COVER, 2PTS, 2,2MM, BLUE, FOR SCREW	C-86, E-112	NSYTRAL42	PLUG-IN BRIDGE, 2POINTS FOR 4MM2 TERMINA	C-86, E-112
NSYTRAC23	END COVER, 3PTS, 2,2MM WIDTH, FOR SCREW	C-86, E-112	NSYTRAL43	PLUG-IN BRIDGE, 3POINTS FOR 4MM2 TERMINA	C-86, E-112
NSYTRAC24	END COVER, 4PTS, 2,2MM WIDTH, FOR SCREW	C-86, E-112	NSYTRAL44	PLUG-IN BRIDGE, 4POINTS FOR 4MM TERMINA	C-86, E-112
NSYTRAC162	END COVER, 2PTS, 2,2MM WIDTH, FOR SCREW	C-86, E-112	NSYTRAL45	PLUG-IN BRIDGE, 5POINTS FOR 4MMA TERMINA	C-86, E-112
NSYTRACE24	END COVER, 2 LEVEL, 4PTS, 2,2MM WIDTH, F	C-86, E-112	NSYTRAL62	PLUG-IN BRIDGE, 2PTS FOR 6MMA TERMINAL B	C-86, E-112
NSYTRACE26	END COVER, 3 LEVEL, 2,2MM WIDTH, 6PTS, F	C-86, E-112	NSYTRAL102	PLUG-IN BRIDGE, 2PTS FOR 10MMA TERMINAL	C-86, E-112
NSYTRACP43	END COVER, 3PTS, 2,2MM WIDTH, FOR PUSH-I	C-86, E-112	NSYTRAL162	PLUG-IN BRIDGE, 2PTS FOR 16MMA TERMINAL	C-86, E-112
NSYTRACP44	END COVER, 4PTS, 2,2MM WIDTH, FOR PUSH-I	C-86, E-112	NSYTRAL210	PLUG-IN BRIDGE, 10POINTS FOR 2,5MMA TERM	C-86, E-112
NSYTRACP62	END COVER 6sqmm, 2PTS, FOR TR PUSH-IN	C-86, E-112	NSYTRAL210BL	PLUG-IN BRIDGE, 10POINTS FOR 2,5MM2 TERM	C-86, E-112
NSYTRACP63	END COVER 6sqmm, 3PTS, FOR TR PUSH-IN	C-86, E-112	NSYTRAL210GR	PLUG-IN BRIDGE, 10POINTS FOR 2,5MMA2 TERM	C-86, E-112
NSYTRACP102	END COVER 10sqmm, 2PTS, FOR TR PUSH-IN	C-86, E-112	NSYTRAL220	PLUG-IN BRIDGE, 20POINTS FOR 2,5MMA TERM	C-86, E-112
NSYTRACP162	END COVER 16sqmm, 2PTS, FOR TR PUSH-IN	C-86, E-112	NSYTRAL410	PLUG-IN BRIDGE, 10POINTS FOR 4MM2 TERMIN	C-86, E-112
NSYTRACPE26	END COVER 3 LEVEL, 2,2MM WIDTH, 6PTS FOR	C-86, E-112	NSYTRAL410BL	PLUG-IN BRIDGE, 10POINTS FOR 4MMA TERMIN	C-86, E-112
NSYTRACPE44	END COVER, 3 LEVEL 4sqmm, 4PTS, PUSH-IN	C-86, E-112	NSYTRAL410GR	PLUG-IN BRIDGE, 10POINTS FOR 4MM2 TERMIN	C-86, E-112
NSYTRACPK22	END COVER, 2PTS, 2,2MM WIDTH, FOR PUSH-I	C-86, E-112	NSYTRAL420	PLUG-IN BRIDGE, 20POINTS FOR 4MMA2 TERMIN	C-86, E-112
NSYTRACPK23	END COVER, 3PTS, 2,2MM WIDTH, FOR PUSH-I	C-86, E-112	NSYTRP22	PUSH-IN TERMINAL, FEED THROUGH, 2 POINTS	C-86, E-112
NSYTRACR22	END COVER, 2PTS, 2,2MM WIDTH, FOR SPRING	C-86, E-112	NSYTRP22AR	PUSH-IN TERMINAL, FEED THROUGH, 2 POINTS	C-86, E-112
NSYTRACR23	END COVER, 3PTS, 2,2MM WIDTH, FOR SPRING	C-86, E-112	NSYTRP22BL	PUSH-IN TERMINAL, FEED THROUGH, 2 POINTS	C-86, E-112
NSYTRACR24	END COVER, 4PTS, 2,2MM WIDTH, FOR SPRING	C-86, E-112	NSYTRP22PE	PUSH-IN TERMINAL, PROTECTIVE EARTH, 2 PO	C-86, E-112
NSYTRACR42	END COVER, 2PTS, 2,2MM WIDTH, FOR SPRING	C-86, E-112	NSYTRP22SC	PUSH-IN TERMINAL, KNIFE DISCONNECT, 2 PO	C-86, E-112
NSYTRACR43	END COVER, 3PTS, 2,2MM WIDTH, FOR SPRING	C-86, E-112	NSYTRP23	PUSH-IN TERMINAL, FEED THROUGH, 3 POINTS	C-86, E-112
NSYTRACR44	END COVER, 4PTS, 2,2MM WIDTH, FOR SPRING	C-86, E-112	NSYTRP23AR	PUSH-IN TERMINAL, FEED THROUGH, 3 POINTS	C-86, E-112
NSYTRACR62	END COVER, 2PTS, 2,2MM WIDTH, FOR SPRING	C-86, E-112	NSYTRP23BL	PUSH-IN TERMINAL, FEED THROUGH, 3 POINTS	C-86, E-112
NSYTRACR102	END COVER, 2PTS, 2,2MM WIDTH, FOR SPRING	C-86, E-112	NSYTRP23PE	PUSH-IN TERMINAL, PROTECTIVE EARTH, 3 PO	C-86, E-112
NSYTRACR162	END COVER, 2PTS, 2,2MM WIDTH, FOR SPRING	C-86, E-112	NSYTRP23SC	PUSH-IN TERMINAL, KNIFE DISCONNECT, 3 PO	C-86, E-112
NSYTRACRE24	END COVER 2 LEVEL, 2,2MM WIDTH, 4PTS FOR	C-86, E-112	NSYTRP23TB	PUSH-IN TERM 2,5sqmm BASIC DISCO, 3 PTS	C-86, E-112
NSYTRACRE44	END COVER 2 LEVEL, 2,2MM WIDTH, 4PTS FOR	C-86, E-112	NSYTRP24	PUSH-IN TERMINAL, FEED THROUGH, 4 POINTS	C-86, E-112
NSYTRACT22	END COVER, FOR NSYTRV62TT SWITCHABLE SCR	C-86, E-112	NSYTRP24BL	PUSH-IN TERMINAL, FEED THROUGH, 4 POINTS	C-86, E-112
NSYTRAL22	PLUG-IN BRIDGE, 2POINTS FOR 2,5MMA TERMI	C-86, E-112	NSYTRP24D	PUSH-IN TERMINAL, DOUBLE LEVEL, 4 POINTS	C-86, E-112

PrismaSeT P Specific Applications - Index

Index of Commercial References with Description

www.se.com

Com. ref.	Description	Page
NSYTRP24DBL	PUSH-IN TERMINAL, DOUBLE LEVEL, 4 POINTS	C-86, E-112
NSYTRP24PE	PUSH-IN TERMINAL, PROTECTIVE EARTH, 4 PO	C-86, E-112
NSYTRP26T	PUSH-IN TERMINAL,	C-86, E-112
NSYTRP42	PUSH-IN TERMINAL, FEED THROUGH, 2 POINTS	C-86, E-112
NSYTRP42BL	PUSH-IN TERMINAL, FEED THROUGH, 2 POINTS	C-86, E-112
NSYTRP42PE	PUSH-IN TERMINAL, PROTECTIVE EARTH, 2 PO	C-86, E-112
NSYTRP42TB	PUSH-IN TERMINAL, BASIC DISCONNECT TERMI	C-86, E-112
NSYTRP43	PUSH-IN TERMINAL, FEED THROUGH, 3 POINTS	C-86, E-112
NSYTRP43BL	PUSH-IN TERMINAL, FEED THROUGH, 3 POINTS	C-86, E-112
NSYTRP43PE	PUSH-IN TERMINAL, PROTECTIVE EARTH, 3 PO	C-86, E-112
NSYTRP44	PUSH-IN TERMINAL, FEED THROUGH, 4 POINTS	C-86, E-112
NSYTRP44BL	PUSH-IN TERMINAL, FEED THROUGH, 4 POINTS	C-86, E-112
NSYTRP44D	PUSH-IN TERM 4sqmm DOUBLE LVL, 4 PTS	C-86, E-112
NSYTRP44DBL	PUSH-IN TERM 4sqmm DOUBLE LVL, 4PTS BL	C-86, E-112
NSYTRP44DPE	PUSH-IN TERM, 4sqmm DOUBLE LVL, PROTEC.E	C-86, E-112
NSYTRP44PE	PUSH-IN TERMINAL, PROTECTIVE EARTH, 4 PO	C-86, E-112
NSYTRP62	PUSH-IN TERM 6sqmm FEED THROUGH, 2 PTS	C-86, E-112
NSYTRP62BL	PUSH-IN TERM 6sqmm FEED THROUGH, BL	C-86, E-112
NSYTRP62PE	PUSH-IN TERM 6sqmm PROTEC. EARTH, 2 PTS	C-86, E-112
NSYTRP63	PUSH-IN TERM 6sqmm FEED THROUGH, 3 PTS	C-86, E-112
NSYTRP102	PUSH-IN TERM 10sqmm FEED THROUGH, 2 PTS	C-86, E-112
NSYTRP102BL	PUSH-IN TERM 10sqmm FEED THROUGH, BL	C-86, E-112
NSYTRP102PE	PUSH-IN TERM 10sqmm PROTECT. EARTH, 2PTS	C-86, E-112
NSYTRP162	PUSH-IN TERM 16sqmm FEED THROUGH, 2 PTS	C-86, E-112
NSYTRP162BL	PUSH-IN TERM, 16sqmm FEED THROUGH, BL	C-86, E-112
NSYTRP162PE	PUSH-IN TERM 16sqmm PROTECT. EARTH, 2PTS	C-86, E-112
NSYTRR22	SPRING TERMINAL, FEED THROUGH, 2 POINTS,	C-86, E-112
NSYTRR22BL	SPRING TERMINAL, FEED THROUGH, 2 POINTS,	C-86, E-112
NSYTRR22PE	SPRING TERMINAL, PROTECTIVE EARTH, 2 POI	C-86, E-112
NSYTRR22SC	SPRING TERMINAL, KNIFE DISCONNECT, 2 POI	C-86, E-112
NSYTRR23	SPRING TERMINAL, FEED THROUGH, 3 POINTS,	C-86, E-112
NSYTRR23BL	SPRING TERMINAL, FEED THROUGH, 3 POINTS,	C-86, E-112

Com. ref.	Description	Page
NSYTRR23PE	SPRING TERMINAL, PROTECTIVE EARTH, 3 POI	C-86, E-112
NSYTRR23SC	SPRING TERMINAL, KNIFE DISCONNECT, 3 POI	C-86, E-112
NSYTRR24	SPRING TERMINAL, FEED THROUGH, 4 POINTS,	C-86, E-112
NSYTRR24BL	SPRING TERMINAL, FEED THROUGH, 4 POINTS,	C-86, E-112
NSYTRR24D	SPRING TERMINAL, DOUBLE LEVEL, 4 POINTS,	C-86, E-112
NSYTRR24PE	SPRING TERMINAL, PROTECTIVE EARTH, 4 POI	C-86, E-112
NSYTRR26T	SPRING TERMINAL,	C-86, E-112
NSYTRR42	SPRING TERMINAL, FEED THROUGH, 2 POINTS,	C-86, E-112
NSYTRR42BL	SPRING TERMINAL, FEED THROUGH, 2 POINTS,	C-86, E-112
NSYTRR42PE	SPRING TERMINAL, PROTECTIVE EARTH, 2 POI	C-86, E-112
NSYTRR43	SPRING TERMINAL, FEED THROUGH, 3 POINTS,	C-86, E-112
NSYTRR44	SPRING TERMINAL, FEED THROUGH, 4 POINTS,	C-86, E-112
NSYTRR44D	SPRING TERMINAL, DOUBLE LEVEL, 4 POINTS,	C-86, E-112
NSYTRR44DBL	SPRING TERMINAL, DOUBLE LEVEL, 4 POINTS,	C-86, E-112
NSYTRR44PE	SPRING TERMINAL, PROTECTIVE EARTH, 4 POI	C-86, E-112
NSYTRR62	SPRING TERMINAL, FEED THROUGH, 2 POINTS,	C-86, E-112
NSYTRR62BL	SPRING TERMINAL, FEED THROUGH, 2 POINTS,	C-86, E-112
NSYTRR62PE	SPRING TERMINAL, PROTECTIVE EARTH, 2 POI	C-86, E-112
NSYTRR102	SPRING TERMINAL, FEED THROUGH, 2 POINTS,	C-86, E-112
NSYTRR102BL	SPRING TERMINAL, FEED THROUGH, 2 POINTS,	C-86, E-112
NSYTRR102PE	SPRING TERMINAL, PROTECTIVE EARTH, 2 POI	C-86, E-112
NSYTRR162	SPRING TERMINAL, FEED THROUGH, 2 POINTS,	C-86, E-112
NSYTRR162BL	SPRING TERMINAL, FEED THROUGH, 2 POINTS,	C-86, E-112
NSYTRR162PE	SPRING TERMINAL, PROTECTIVE EARTH, 2 POI	C-86, E-112
NSYTRV22	SCREW TERMINAL FEEDTHROUGH, 2Pts,2.5MMA	C-86, E-112
NSYTRV22AR	SCREW TERMINAL, FEEDTHROUGH, 2Pts,2.5MM2	C-86, E-112
NSYTRV22BL	SCREW TERMINAL, FEEDTHROUGH, 2Pts,2.5MM	C-86, E-112
NSYTRV22M	SCREW TERMINAL, MINI, FOR 15MM DIN RAIL,	C-86, E-112
NSYTRV22MBL	SCREW TERMINAL, MINI, FOR 15MM DIN RAIL,	C-86, E-112
NSYTRV22MPE	SCREW TERMINAL, MINI, FOR 15MM DIN RAIL,	C-86, E-112
NSYTRV22PE	SCREW TERMINAL, PROTECTION, 2PTS,2,5MM	C-86, E-112
NSYTRV22SC	SCREW TERMINAL, KNIFE DISCONNECT, 2 POIN	C-86, E-112

PrismaSeT P Specific Applications - Index

Index of Commercial References with Description

www.se.com

Com. ref.	Description	Page
NSYTRV22ST	SCREW TERMINAL, KNIFE DISCONNECT, 2 POIN	C-86, E-112
NSYTRV24D	SCREW TERMINAL, 2 LEVEL, 4PTS, 2,5MMA	C-86, E-112
NSYTRV24DBL	SCREW TERMINAL, 2 LEVEL, 4PTS, 2,5MMA	C-86, E-112
NSYTRV26T	SCREW TERMINAL, 3 LEVEL, 6PTS, 2,5MMA	C-86, E-112
NSYTRV42	SCREW TERMINAL, FEED THROUGH, 2 POINTS,	C-86, E-112
NSYTRV42AR	SCREW TERMINAL, FEED THROUGH, 2Pts, 4MMA	C-86, E-112
NSYTRV42BL	SCREW TERMINAL, FEED THROUGH, 2Pts, 4MMA	C-86, E-112
NSYTRV42M	SCREW TERMINAL, MINI, FOR 15MM DIN RAIL,	C-86, E-112
NSYTRV42MBL	SCREW TERMINAL, MINI, FOR 15MM DIN RAIL,	C-86, E-112
NSYTRV42MPE	SCREW TERMINAL, MINI, FOR 15MM DIN RAIL,	C-86, E-112
NSYTRV42PE	SCREW TERMINAL, PROTECTION, 2Pts, 4MMA	C-86, E-112
NSYTRV42SF5	SCREW TERMINAL, FUSED, FOR 5X20, 5X25, 5X3	C-86, E-112
NSYTRV42SF5LA	TERM BLOCK, LIGHT IND, FUSED 5X20/25/30MM	C-86, E-112
NSYTRV42SF5LD	SCREW TERMINAL, FUSED, FOR 5X20/25/30MM	C-86, E-112
NSYTRV42TB	SCREW TERMINAL, BASIC DISCONNECT TERMINA	C-86, E-112
NSYTRV43	SCREW TERMINAL, FEED THROUGH, 3Pts, 4MMA	C-86, E-112
NSYTRV43BL	SCREW TERMINAL, FEED THROUGH, 3Pts, 4MM2	C-86, E-112
NSYTRV43PE	SCREW TERMINAL, PROTECTIVE EARTH, 3 POIN	C-86, E-112
NSYTRV44	SCREW TERMINAL, FEED THROUGH, 4 POINTS,	C-86, E-112
NSYTRV44BL	SCREW TERMINAL, FEED THROUGH, 4 POINTS,	C-86, E-112
NSYTRV44D	SCREW TERMINAL, DOUBLE LEVEL, 4 POINTS,	C-86, E-112
NSYTRV44DBL	SCREW TERMINAL, DOUBLE LEVEL, 4 POINTS,	C-86, E-112
NSYTRV44PE	SCREW TERMINAL, PROTECTIVE EARTH, 4 POIN	C-86, E-112
NSYTRV62	SCREW TERMINAL, FEED THROUGH, 2 POINTS,	C-86, E-112
NSYTRV62BL	SCREW TERMINAL, FEED THROUGH, 2 POINTS,	C-86, E-112
NSYTRV62PE	SCREW TERMINAL, PROTECTIVE EARTH, 2 POIN	C-86, E-112
NSYTRV62TT	SCREW TERMINAL, FEED THROUGH, MEASURING	C-86, E-112
NSYTRV62TTD	SCREW TERMINAL, DISCONNECT, MEASURING TR	C-86, E-112
NSYTRV62TTPE	SCREW TERMINAL, PROTECTIVE EARTH, MEASUR	C-86, E-112
NSYTRV102	SCREW TERMINAL, FEED THROUGH, 2 POINTS,	C-86, E-112
NSYTRV102BL	SCREW TERMINAL, FEED THROUGH, 2 POINTS,	C-86, E-112
NSYTRV102PE	SCREW TERMINAL, PROTECTIVE EARTH, 2 POIN	C-86, E-112

Com. ref.	Description	Page
NSYTRV162	SCREW TERMINAL, FEED THROUGH, 2 POINTS,	C-86, E-112
NSYTRV162BL	SCREW TERMINAL, FEED THROUGH, 2 POINTS,	C-86, E-112
NSYTRV162PE	SCREW TERMINAL, PROTECTIVE EARTH, 2 POIN	C-86, E-112

R

R9XE110	R9 SET OF 10 END CAPS XB 1P	E-105
R9XE210	R9 SET OF 10 END CAPS XB 2P	E-105
R9XE310	R9 SET OF 10 END CAPS XB 3P	E-105
R9XE410	R9 SET OF 10 END CAPS XB 4P	E-105
R9XFH112	R9 COMB BUSBAR XB 1P 12 MOD 63A	E-105
R9XFH118	R9 COMB BUSBAR XB 1P 18 MOD 63A	E-105
R9XFH157	R9 COMB BUSBAR XB 1P 57 MOD 63A	E-105
R9XFH212	R9 COMB BUSBAR XB 2P 12 MOD 63A	E-105
R9XFH218	R9 COMB BUSBAR XB 2P 18 MOD 63A	E-105
R9XFH257	R9 COMB BUSBAR XB 2P 57 MOD 63A	E-105
R9XFH312	R9 COMB BUSBAR XB 3P 12 MOD 63A	E-105
R9XFH318	R9 COMB BUSBAR XB 3P 18 MOD 63A	E-105
R9XFH357	R9 COMB BUSBAR XB 3P 57 MOD 63A	E-105
R9XFH412	R9 COMB BUSBAR XB 4P 12 MOD 63A	E-105
R9XFH418	R9 COMB BUSBAR XB 4P 18 MOD 63A	E-105
R9XFH457	R9 COMB BUSBAR XB 4P 57 MOD 63A	E-105
R9XFH518	R9 COMB BUSBAR XB BALANCED 4P 18 MOD 63A	E-105
R9XFH518G	R9 COMB BUSBAR XB HOG BALANCED 4P 18 MOD	E-105
R9XFH557	R9 COMB BUSBAR XB BALANCED 4P 57 MOD 63A	E-105
R9XT20	R9 SET OF 20 TOOTH CAPS	E-105

S

SOL40LTSHD	Long terminal shield, EasyPact Solar MCCB 400, 3 poles	D-17
-------------------	--	------

X

XB5PRJ45SP1	RJ45 interface, Ethernet, plastic cover	E-106
XB5PRJ45SP2	RJ45 interface, Ethernet, metal cover	E-106
XB5PUSB3SP1	USB 3.0 interface, type A, plastic cover	E-106
XB5PUSB3SP2	USB 3.0 interface, type A, metal cover	E-106

Overview

Prisma SeT G Enclosures up to 630 A	B-4
Prisma SeT P Cubicles up to 4000 A	B-5
Environmental Data Program	B-6

To respond to increasing building requirements



Improve
the continuity
of service



Help protect
people and
property

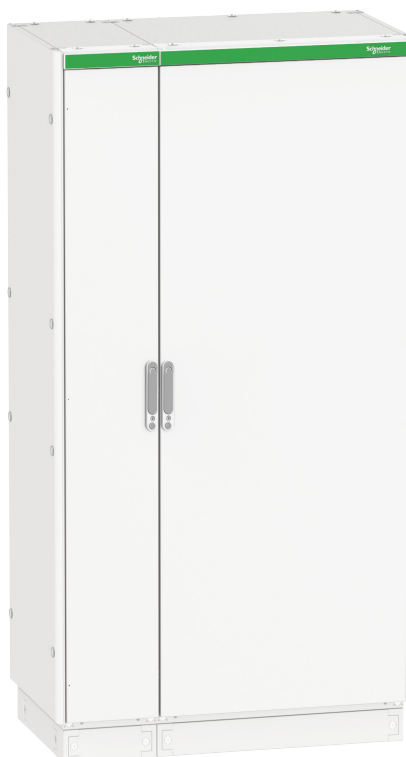


Control
deadlines
and costs

PrismaSeT:

The optimised, tested and IEC compliant solution, for low voltage electrical distribution and control switchboards.

B



PrismaSeT, A comprehensive range of enclosures and cubicles

- > A solution based on more than **30 years of experience** in low voltage switchboards.
- > Integrating Schneider Electric's switchgear offerings and ensuring electrical, mechanical, and communication **functions complete consistency**.
- > Quality production, **certified ISO 9001** and manufactured in Montmélian (France).

PrismaSeT G Enclosures up to 630 A



PB11562L_28eps



250 A

PrismaSeT G Pack 250

- Schools
- Small shops
- Hotels, etc.



- Small companies
- Buildings
- Offices
- Laboratories
- Healthcare centers
- Hotels
- Supermarkets
- Malls, etc.

PrismaSeT G



630 A

Prisma**SeT** P Cubicles up to 4000 A

The optimised, tested, and IEC compliant solution, for low voltage electrical distribution and control switchboards.



- Hospitals
- Data centers
- Logistics centers
- Shopping centers
- Office buildings
- Medium industrial solutions

Prisma**SeT** P



Prisma**SeT** P specific applications

- Prisma**SeT** P 690 V AC
- Prisma**SeT** P Internal Arc
- Prisma**SeT** P 800 V AC

Energy Management has never been simpler

Smart Panels connect you to energy savings in three steps:

1. Measure

Embedded and stand-alone metering and control capabilities

- Embedded and stand-alone metering
- Control capabilities

2. Connect

- Integrated communication interfaces
- Ready to connect to energy management platforms

3. Act

- Data-driven energy efficiency actions
- Real time monitoring and control
- Access to energy and site information through on-line services



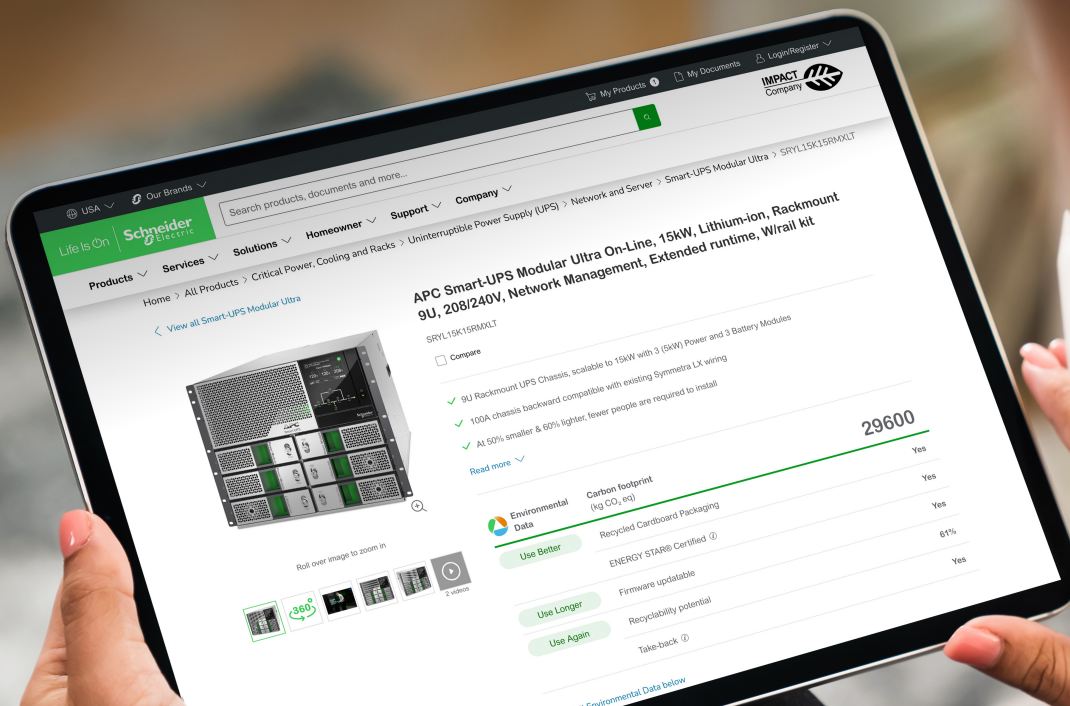
Tested, Validated, Documented Smart Panels Architecture

Smart Panels have been certified via Schneider Electric's TVDA quality process

- Tested in performance labs by experts, in the most common configuration.
- Validated full functional compatibility of devices.
- Documented, with user guide, predefined CAD panel designs and wiring diagrams.



Environmental Data Program

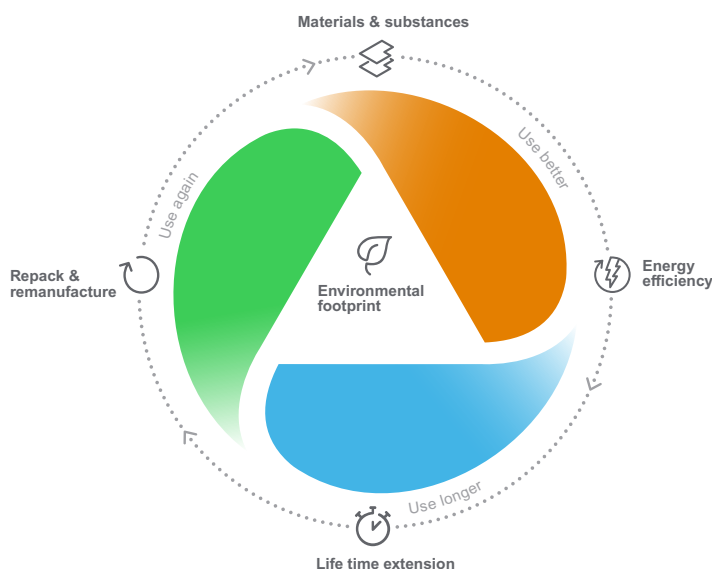


Next-level transparency for better-informed product choices

The Environmental Data Program is a framework for how we measure, categorize, and compare the environmental attributes and footprint of our products.

Using a rigorous, fact-based methodology, the program provides environmental data from across the product lifecycle.

Five data categories across the product lifecycle



Use Better: How sustainable a product is, including environmental footprint, materials and substances, packaging, and energy efficiency.

Use Longer: How a product's life time can be effectively extended in terms of reparability and updatability.

Use Again: How a product can be reused, from dismantling and remanufacturing to recyclability and manufacturer take back.

With this transparent, verified data, customers and partners are empowered to make conscious environmental choices and accurately evaluate and report on sustainability performance.

All our hardware offers have an associated environmental data available on se.com product pages.



Learn more about the
Environmental Data Program

PrismaSeT P
690 V AC

Prisma**SeT** P 690 V AC

Overview	C-2
Functional Units	C-7
Cubicles	C-41
Linergy Distribution Systems	C-71
Functional Partitioning	C-91
Disconnectable on Polyfast	C-99
Additional Information	C-107





Less current, more power density; **smarter design** and **higher efficiency**

As electrification accelerates across buildings, electrical distribution systems must deliver more with less, especially over longer distances and in more demanding environments. As a result, **operators** and **designers face new challenges**:



Pressure to
reduce CapEx
and operational
costs



Demand for
faster project
delivery



Need for modular,
scalable
infrastructure



Increasing
focus on **energy**
efficiency and
sustainability

Why PrismaSeT P 690 V AC?

690 V distribution operates under more demanding electrical conditions than standard 415 V systems. This makes certified design, rigorous testing, and proven architecture essential.

PrismaSeT P 690 V AC is built and validated to meet these requirements, supporting operation in high-performance environments.

By operating at higher voltage, it enables more efficient power transmission with lower current, reducing system losses across the installation.

This results in:



Lower energy losses over long cable runs



More compact and **optimized installations**

C



Reduced cable sizes and material usage

Where 690 V distribution delivers the most value



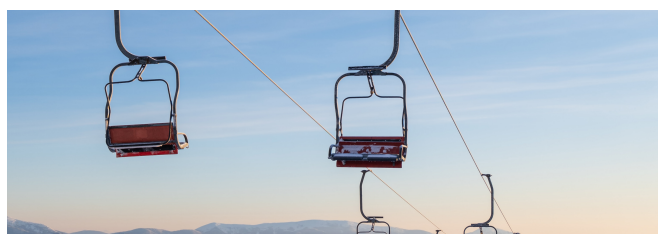
Industrial applications

Supports high-power loads with lower current, reducing cable sizing and distribution losses across large facilities.



Tunnels

Enables efficient long-distance power distribution with minimized voltage drop and optimized infrastructure footprint.



Ski Resorts

Improves power delivery efficiency across geographically dispersed installations and extended cable routes.



Large infrastructure

Optimizes power distribution in environments with distributed electrical loads and demanding uptime requirements.

Engineered for high-performance, long-distance power distribution

Designed to address the evolving challenges of electrification; higher power demand, longer distribution distances, and the need for faster, more efficient installations, Prisma**SeT** P 690 V AC combines performance, scalability, and cost efficiency in a single solution.



Ensuring compliance and operational confidence

- Designed in accordance with **IEC 61439-1 & 2** standards
- Supports tested and verified LV power distribution



Delivering high-power distribution over longer distances

- Up to 3200 A with high short-circuit performance
- Covers the majority of LV distribution use cases



Adapting to evolving infrastructure needs

- Up to 36 vertical modules for flexible configurations
- Easily expandable to support evolving system requirements



Accelerating project delivery

- Functional system architecture simplifies engineering and assembly
- Linergy busbars reduce wiring time and installation cost



Supporting sustainability goals

- Helps reduce carbon footprint and material waste
- Enables energy-efficient infrastructure
- Reduced footprint and material usage



See Prisma**SeT** P in action

Discover how it enhances installation safety.



[Click to find out more](#)

Prisma**SeT** P 690 V AC Cubicles up to 3200 A - IP31 and IP55



C



Electrical characteristics

- Rated insulation level of main busbars: 1000 V
- InA: 3200 A
- Rated peak withstand current Ipk: 220 kA
- Rated short-time withstand current Icw: 100 kA rms / 1 second
- Frequency: 50/60 Hz
- Voltage Ue = 690 V under conditions as described in this catalog.



Control devices should be connected to control circuit up to 415 V.



For Switchboard Assembly and Earthing Continuity instructions, refer *How to Assemble the Electrical Switchboard* Guide (PHA2165500).



Electrical switchboards built using the Prisma**SeT** P functional system and Schneider Electric recommendations fully comply with international standards IEC 61439-1 and 2.



Mechanical characteristics

- Steel sheet metal
- Cathaphoresis treatment + hot-polymerised polyester epoxy powder, white color RAL 9003
- Can be dismantled
- Can be combined side-by-side and back-to-back
- Degree of protection:
 - IP31
 - IP55
- Degree of protection against mechanical impacts:
 - IK10
- Framework dimensions:
 - Four widths:
 - W = 300: cable compartment
 - W = 400: cable compartment or device compartment
 - W = 650: device compartment or cable compartment
 - W = 800: device compartment with busbar compartment or cable compartment
 - Two depths: 400, 600 mm
 - Height: 2000 mm
- Indoor cubicles

Functional Units

Contents

Circuit breakers

MasterPact MTZ2

Cables connection	C-8
Canalis connection	C-10
Dedicated cubicle - W = 650 mm	C-12
Partial front plate support frames	C-14

MasterPact MTZ1

Cables connection	C-16
Canalis connection	C-17
Dedicated cubicle 3P - W = 400 mm	C-18

ComPacT NSX and NSXm

ComPacT NSX 100 to 250 - Horizontal mounting	C-20
ComPacT NSX 400 to 630 - Horizontal mounting	C-21
ComPacT NSX 100 to 630 - Horizontal mounting	C-22
ComPacT NSXm up to 63 - Horizontal mounting	C-23

Source-changeover

MasterPact MTZ1 06/16, MTZ2 08/32	C-24
MasterPact MTZ2 08/32	C-25
MasterPact MTZ1 06/16	C-29

Auxiliary devices

Industrial control devices	C-32
----------------------------	------

Modular devices (415 V)

Acti 9 ≤ 63 A	C-33
80/160 A switchboard incomer	C-34

Metering (415 V)

Single-phase and 3-phase kilowatt-hour meters	C-35
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Metering and human-switchboard interface (415 V)

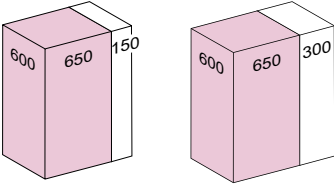
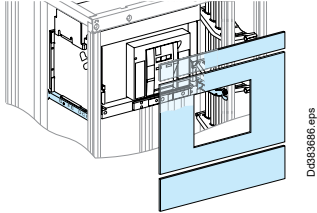
PowerLogic™ Meters	C-36
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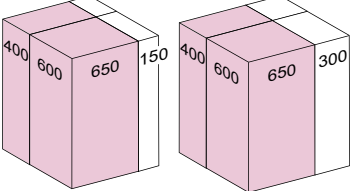
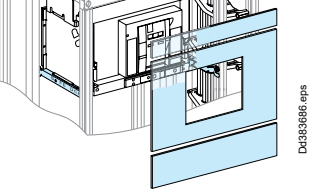
MasterPact MTZ2 08 to 32

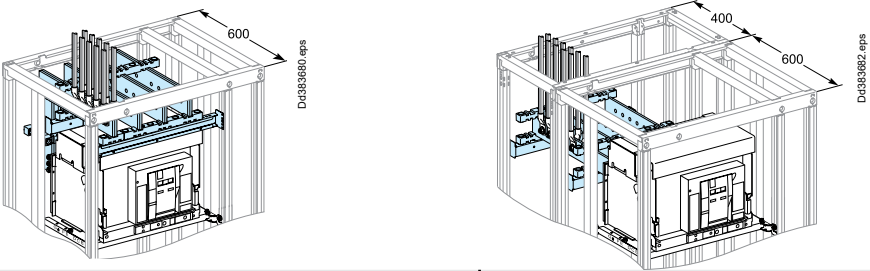
Cables connection

Fixed, withdrawable

Circuit breakers

Mounting		Front connection			
					
Devices		Fixed device		Withdrawable device	
		MTZ2 08/16	MTZ2 20/32	MTZ2 08/16	MTZ2 20/32
Number of devices per row		1	1	1	1
No. of vertical modules ⁽¹⁾		18	19	19	20
Mounting plates		LVS03500	LVS03500	LVS03500	LVS03500
Front plates [No. of vertical modules]	upstream	LVS03804 [4]	LVS03805 [5]	LVS03804 [4]	LVS03805 [5]
	with cut-out	LVS03711 [9]	LVS03711 [9]	LVS03710 [10]	LVS03710 [10]
	downstream	LVS03805 [5]	LVS03805 [5]	LVS03805 [5]	LVS03805 [5]

Mounting		Rear connection			
					
Devices		Fixed device		Withdrawable device	
		MTZ2 08/16	MTZ2 20/32	MTZ2 08/16	MTZ2 20/32
Number of devices per row		1	1	1	1
No. of vertical modules		14	14	15	15
Mounting plates		LVS03500	LVS03500	LVS03500	LVS03500
Front plates [No. of vertical modules]	with cut-out	LVS03711 [9]	LVS03711 [9]	LVS03710 [10]	LVS03710 [10]
	downstream	LVS03805 [5]	LVS03805 [5]	LVS03805 [5]	LVS03805 [5]

Connection		Upstream on incomer	
			
Devices		Fixed device	Withdrawable device
		MTZ2 08/32	MTZ2 08/32
Type of terminals		Vertical rear connections supplied with the device	
Connection		Connection must be made ⁽²⁾	
Front connection	bar supports	2 x LVS04694 + LVS04678	
	cables cover	LVS04861	
Rear connection	bar supports	2 x LVS04694	
	cables cover	LVS04863	

⁽¹⁾ For downstream connection with copper.

For downstream prefabricated connection with Linergy LGYE, 1 additional module is required only for MTZ2 3200 A. Select downstream plain front plate (LVS03806).

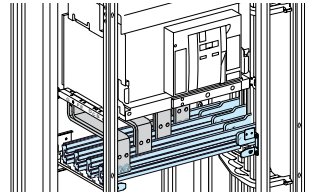
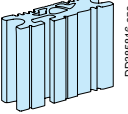
⁽²⁾ Connection to be made according to the busbar drawings supplied by Schneider Electric.

MasterPact MTZ2 08 to 32

Cables connection

Fixed, withdrawable

Circuit breakers

Distribution		Downstream on Linergy LGYE busbars					
							
Devices		Fixed and withdrawable MTZ2 08/16		Fixed and withdrawable MTZ2 20/25		Fixed and withdrawable MTZ2 32	
		3P	4P	3P	4P	3P	4P
Type of terminals		Front connections supplied with the device.					
For vertical busbar Lineray LGYE ⁽¹⁾ 	Connection	–	–	LVS04495	LVS04496	LVS04497 ⁽²⁾	LVS04498 ⁽²⁾
	Joint	–	–	3 x LVS04685	4 x LVS04685	3 x LVS04687	4 x LVS04687
	Free support	2 x LVS04662 For I _{cw} ≥ 75 kA rms, add an additional free support LVS04662.					
	Cover	LVS04925 + LVS04928					

⁽¹⁾ For LGYE 08/25, use a duct W = 150 mm. For LGYE 32, use a duct W = 300 mm.⁽²⁾ One additional module is required, select LVS03806 plain front plate for downstream.

Note: To make measurements, install the CTs preferably upstream, on the supply terminal extension bars or install the CTs on the horizontal busbars (busbar connection). In this case, add one module and a plain front plate (LVS03801) or install a Micrologic control unit capable of displaying the values.

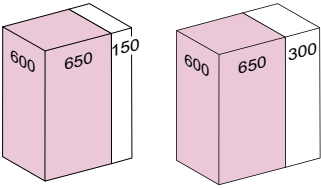
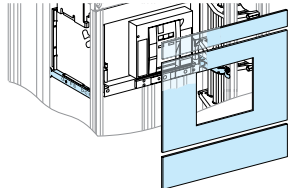
Selection of busbars: Linergy LGYE > [page C-72](#).

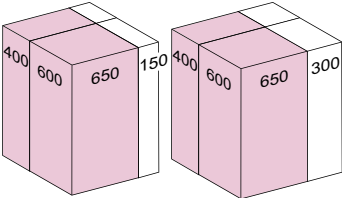
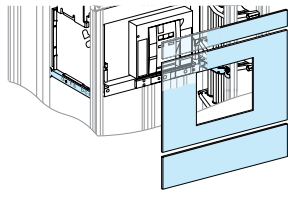
MasterPact MTZ2 08 to 32

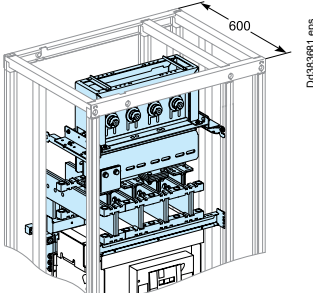
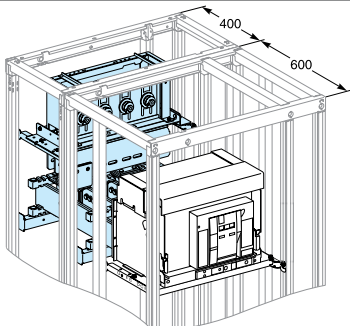
Canalis connection

Fixed, withdrawable

Circuit breakers

Mounting		Front connection			
					
Devices		Fixed device		Withdrawable device	
		MTZ2 08/16	MTZ2 20/32	MTZ2 08/16	MTZ2 20/32
Number of devices per row		1	1	1	1
No. of vertical modules ⁽¹⁾		27	28	27	28
Mounting plates		LVS03500	LVS03500	LVS03500	LVS03500
Front plates [No. of vertical modules]	upstream	LVS03805 [5] 2 x LVS03804 [8]	2 x LVS03805 [10] LVS03804 [4]	3 x LVS03804 [12]	LVS03805 [5] 2 x LVS03804 [8]
	with cut-out	LVS03711 [9]	LVS03711 [9]	LVS03710 [10]	LVS03710 [10]
	downstream	LVS03805 [5]	LVS03805 [5]	LVS03805 [5]	LVS03805 [5]

Mounting		Rear connection			
					
Devices		Fixed device		Withdrawable device	
		MTZ2 08/16	MTZ2 20/32	MTZ2 08/16	MTZ2 20/32
Number of devices per row		1	1	1	1
No. of vertical modules		16	16	17	17
Mounting plates		LVS03500	LVS03500	LVS03500	LVS03500
Front plates [No. of vertical modules]	upstream	LVS03804 [4] + LVS03803 [3]	LVS03804 [4] + LVS03803 [3]	LVS03804 [4] + LVS03803 [3]	LVS03804 [4] + LVS03803 [3]
	with cut-out	LVS03711 [9]	LVS03711 [9]	LVS03710 [10]	LVS03710 [10]

Connection		Upstream on incomer									
											
Devices		Fixed device					Withdrawable device				
		MTZ2 08/16	MTZ2 20/25	MTZ2 32			MTZ2 08/16	MTZ2 20/25	MTZ2 32		
Type of terminals		Vertical rear connections supplied with the device									
Canalis support		LVS03561									
Canalis interface ⁽²⁾		3P	4P	3P	4P	3P	4P	3P	4P	3P	4P
		LVS04715	LVS04716	LVS04725	LVS04726	LVS04735	LVS04736	LVS04715	LVS04716	LVS04725	LVS04726
Front connection	Bar supports	2 x LVS04694 + LVS04678									
	Extension bars	Connection must be made ⁽³⁾									
	Canalis Cover	LVS04871 + LVS04861									
Rear connection	Bar supports	2 x LVS04694									
	Extension bars	Connection must be made ⁽³⁾									
	Canalis Cover	LVS04871 + LVS04863									

⁽¹⁾ For downstream connection with copper.

For downstream prefabricated connection with Linergy LGYE, 1 additional module is required only for MTZ2 3200 A. Select downstream plain front plate (LVS03806).

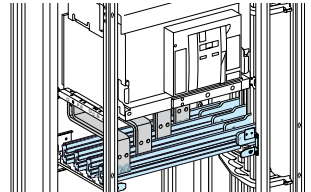
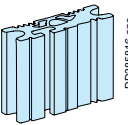
⁽²⁾ To tighten the screws of the Canalis interface, use the special tool 87808.⁽³⁾ Connection to be made according to the busbar drawings supplied by Schneider Electric.

MasterPact MTZ2 08 to 32

Canalis connection

Fixed, withdrawable

Circuit breakers

Distribution		Downstream on Linergy LGYE busbars					
							
Fixed / Withdrawable devices		MTZ2 08/16		MTZ2 20/25		MTZ2 32	
		3P	4P	3P	4P	3P	4P
Type of terminals		Front connections supplied with the device.					
 For vertical busbar Linergy LGYE ⁽¹⁾	Connection	—	—	LVS04495	LVS04496	LVS04497 ⁽²⁾	LVS04498 ⁽²⁾
	Joint	—	—	3 x LVS04685	4 x LVS04685	3 x LVS04687	4 x LVS04687
	Free support	2 x LVS04662 For I _{cw} ≥ 75 kA rms, add an additional free support LVS04662.					
	Cover	LVS04925 + LVS04928					

(1) For LGYE 08/25, use a duct W = 150 mm. For LGYE 32, use a duct W = 300 mm.

(2) One additional module is required, select LVS03806 plain front plate for downstream.

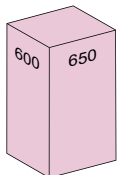
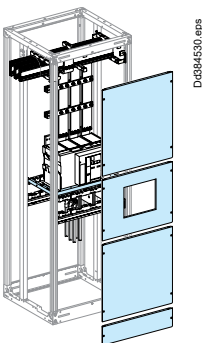
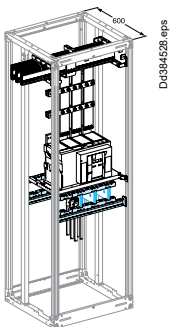
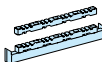
Note: To make measurements, install the CTs preferably upstream, on the supply terminal extension bars or install the CTs on the horizontal busbars (busbar connection). In this case, add one module and a plain front plate (LVS03801) or install a Micrologic control unit capable of displaying the values.
Selection of busbars: Linergy LGYE > page C-72.

MasterPact MTZ2 08 to 32

Dedicated cubicle - W = 650 mm

Fixed, withdrawable

Circuit breakers

Mounting		Dedicated cubicle	
			
Devices		Fixed device	Withdrawable device
		MTZ2 08/32	MTZ2 08/32
Number of devices per row		1	1
No. of vertical modules		36	36
Mounting plates		LVS03500	LVS03500
Front plates [No. of vertical modules]	upstream ⁽¹⁾	LVS03808 [12]	LVS03808 [12]
	with cut-out	LVS03711 [9]	LVS03710 [10]
	downstream	LVS03808 [12] + LVS03803 [3]	LVS03808 [12] + LVS03802 [2]
Connection		Upstream with bottom cables	
			
Fixed / withdrawable devices		MTZ2 08/32	
Type of terminals 		Vertical rear connectors	
Terminal extension bars for connection 		Connection must be made ⁽²⁾	
Terminal extension bar supports 		LVS04694 x 2	
Cables cover		LVS04861	

⁽¹⁾ One or two 3-module front plates for 72 x 72 and 96 x 96 mm measurement devices can be installed just above the cut-out front plate:

■ 2 or 3-module front plates + 1 plain front plate LVS03806 (6 modules).

⁽²⁾ Connection to be made according to the busbar drawings supplied by Schneider Electric.

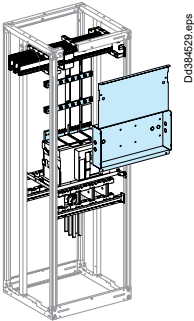
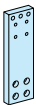
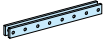
Human-switchboard interface > page C-36.

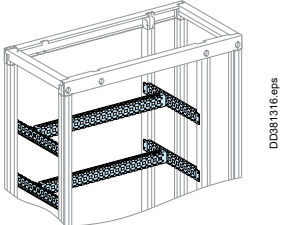
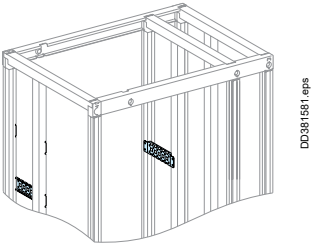
MasterPact MTZ2 08 to 32

Dedicated cubicle - W = 650 mm

Fixed, withdrawable

Circuit breakers

Distribution		Downstream up links on horizontal busbars Linergy LGYE		
				
Fixed / Withdrawable devices		MTZ2 08/16	MTZ2 20/25	MTZ2 32
Type of terminals		Front connection		
Spacing rods for flat bars		LVS04690 x 2	LVS04690 x 2	LVS04690 x 2
Connection	horizontal 3200 A mounting hardware	Connection must be made ⁽¹⁾		
Busbar cover ⁽²⁾		LVS04860	LVS04860	LVS04860

Accessories		
 		
Cross-members		
Catalog number	LVS03584	LVS03586
Characteristics	Set of 2 For 650 mm wide and 400 mm deep cubicle	Set of 2 W = 200 mm, can be added to the 400 mm cross-members for frameworks that are 600 mm deep. They can also be installed separately

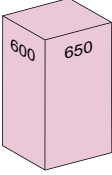
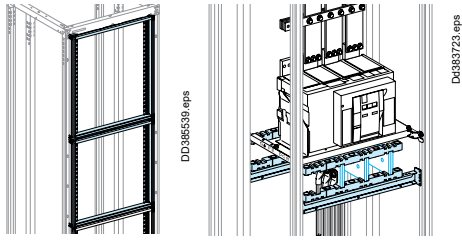
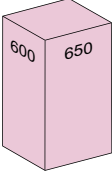
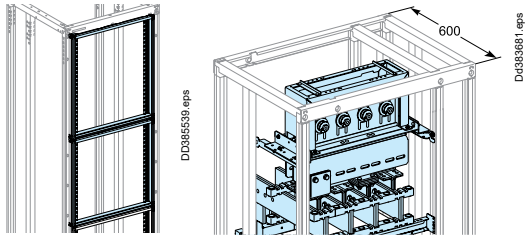
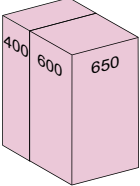
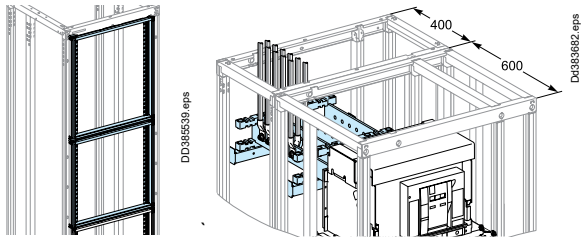
⁽¹⁾ Connection to be made according to the busbar drawings supplied by Schneider Electric.⁽²⁾ The cover is compulsory behind front plates designed for measurement devices.

MasterPact MTZ2 08 to 32

Partial front plate support frames

Withdrawable

Circuit breakers

Mounting		Front connection with cables in dedicated cubicle	
			
Devices		Withdrawable device	
		MTZ2 08/32	
No. of vertical modules		36 ⁽³⁾	
Mounting plates		LVS03500	
Front plates [No. of vertical modules]	upstream	2 x LVS03806 [12]	
	with cut-out	LVS03709 [10]	
	downstream	2 x LVS03806 [12]	
1/3 front plate support frame		LVS08560 ⁽¹⁾ + 2 x LVS08562 ⁽²⁾	
Cover		LVS04861	
Mounting		Canalis front connection	
			
Devices		Withdrawable device	
		MTZ2 08/16	MTZ2 20/32
No. of vertical modules		27 ⁽³⁾	28 ⁽³⁾
Mounting plates		LVS03500	
Front plates [No. of vertical modules]	upstream	3 x LVS03804 [12]	2 x LVS03805 [10] + LVS03802 [2]
	with cut-out	LVS03709 [10]	LVS03710 [10]
	downstream	LVS03804 [4]	LVS03804 [4]
1/3 front plate support frame		LVS08560 ⁽¹⁾ + 2 x LVS08562 ⁽²⁾	LVS08560 ⁽¹⁾ + 2 x LVS08562 ⁽²⁾
Cover		LVS04861	LVS04861
Mounting		Rear connection with cables	
			
Devices		Withdrawable device	
		MTZ2 08/32	
No. of vertical modules		15 ⁽³⁾	
Mounting plates		LVS03500	
Front plates [No. of vertical modules]	upstream	–	
	with cut-out	LVS03709 [10]	
	downstream	LVS03804 [4]	
1/3 front plate support frame		LVS08560 ⁽¹⁾ + 2 x LVS08562 ⁽²⁾	

(1) 1/3 front plate support frame 10 modules.

(2) 1/3 front plate support frame 12 modules.

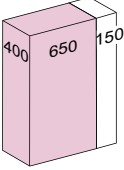
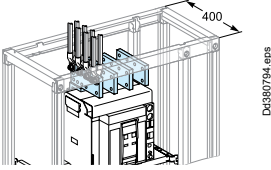
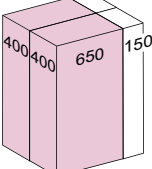
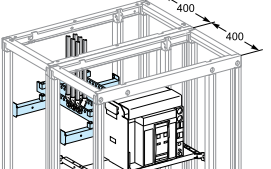
(3) Modularity includes the space of one module between each front plate support frame.

MasterPact MTZ1 06 to 16

Cables connection

Fixed, withdrawable

Circuit breakers

Mounting		Front connection with cables			
					
Devices		Fixed device		Withdrawable device	
		MTZ1 06/10	MTZ1 12/16	MTZ1 06/10	MTZ1 12/16
Number of devices per row		1	1	1	1
No. of vertical modules		12	14	13	15
Mounting plates		LVS03484	LVS03484	LVS03483	LVS03483
Front plates [No. of vertical modules]	upstream	LVS03802 [2]	LVS03804 [4]	LVS03802 [2]	LVS03804 [4]
	with cut-out	LVS03692 [7]	LVS03692 [7]	LVS03691 [8]	LVS03691 [8]
	downstream	LVS03803 [3]	LVS03803 [3]	LVS03803 [3]	LVS03803 [3]
Mounting		Rear connection with cables			
					
Devices		Fixed device		Withdrawable device	
		MTZ1 06/16		MTZ1 06/16	
Number of devices per row		1		1	
No. of vertical modules		11		11	
Mounting plates		LVS03484		LVS03483	
Front plates [No. of vertical modules]	upstream	LVS03801 [1]		—	
	with cut-out	LVS03692 [7]		LVS03691 [8]	
	downstream	LVS03803 [3]		LVS03803 [3]	
Connection		Upstream on incomer			
					
Devices		Fixed device		Withdrawable device	
		MTZ1 06/10	MTZ1 12/16	MTZ1 06/10	MTZ1 12/16
		3P	4P	3P	4P
Front connection	type of terminals	Front connections supplied with the device			
	vert. connection adapters	33642 (1)	33643 (1)	33642 (1)	33643 (1)
	cable-lug adapters	Direct	33644 (1) 33645 (1)	Direct	33644 (1) 33645 (1)
	spacing rods	—	LVS04691	—	LVS04691
	arc-chute cover	47335	47336	—	—
Rear connection	cables cover	LVS04852			
	type of terminals	Vertical rear connections supplied with the device			
	terminal extension bar	2 x LVS04693			
	support				
	cables cover	LVS04854			
extension bars		Connection must be made (2)			
Distribution		Downstream on Linergy LGYE busbar			
					
Devices		Fixed device		Withdrawable device	
		MTZ1 06/12	MTZ1 16	MTZ1 06/12	MTZ1 16
		3P	4P	3P	4P
Type of terminals		Front connections supplied with the device			
Prefabricated connection to busbars		Connection must be made (2)			
Cover for busbars connection		add free supports: 2 x LVS04662			
		LVS04926			

(1) Vertical connection adapters and cable-lug adapters and CT, are not compatible with input voltage ≥ 440 V due to mandatory barriers installation (LVS33648 or LVS33768).

(2) Connection to be made according to the busbar drawings supplied by Schneider Electric.

Note: To make measurements, install the CTs on the horizontal busbars (busbar connection); in this case, an additional module is required; add a plain front plate (LVS03801) or install a Micrologic control unit capable of displaying the values.

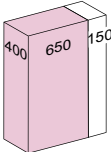
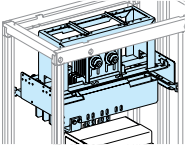
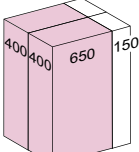
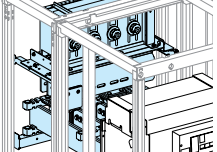
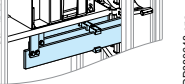
Selection of busbars: Linergy LGYE > page C-72.

MasterPact MTZ1 06 to 16

Canalis connection

Fixed, withdrawable

Circuit breakers

Mounting		Canalis front connection			
					
Devices		Fixed device		Withdrawable device	
		MTZ1 06/12	MTZ1 16	MTZ1 06/12	MTZ1 16
Number of devices per row		1	—	1	—
No. of vertical modules		17	—	18	—
Mounting plates		LVS03484	—	LVS03483	—
Front plates		LVS03804 [4] + LVS03803 [3]	—	LVS03804 [4] + LVS03803 [3]	—
[No. of vertical modules]	upstream	LVS03692 [7]	—	LVS03691 [8]	—
	downstream	LVS03803 [3]	—	LVS03803 [3]	—
Mounting		Canalis rear connection			
					
Devices		Fixed device		Withdrawable device	
		MTZ1 06/16		MTZ1 06/16	
Number of devices per row		1		1	
No. of vertical modules		16		16	
Mounting plates		LVS03484		LVS03483	
Front plates		LVS03806 [6]		LVS03805 [5]	
[No. of vertical modules]	upstream	LVS03692 [7]		LVS03691 [8]	
	downstream	LVS03803 [3]		LVS03803 [3]	
Connection		Upstream on incomer			
					
Devices		Fixed device		Withdrawable device	
		MTZ1 06/12	MTZ1 16	MTZ1 06/12	MTZ1 16
		3P 4P	3P 4P	3P 4P	3P 4P
Canalis support		LVS03561		—	
Canalis interface ⁽¹⁾		LVS04703	LVS04704	LVS04703	LVS04704
Front connection		Front connections supplied with the device			
Type of terminals	Canalis/device connection	LVS04711	LVS04712	LVS04711	LVS04712
	Arc-chute cover	47335	47336	—	—
	Canalis cover	LVS04871 + LVS04852	—	LVS04871 + LVS04852	—
Rear connection		Vertical rear connections supplied with the device			
Terminal extension bar support	Canalis/device connection	LVS04713	LVS04714	LVS04713	LVS04714
	Cable cover	LVS04871 + LVS04854			
	Extension bars	Connection must be made ⁽²⁾			
Distribution		Downstream on Linergy LGYE busbar			
					
Devices		Fixed device		Withdrawable device	
		MTZ1 06/12	MTZ1 16	MTZ1 06/12	MTZ1 16
		3P 4P	3P 4P	3P 4P	3P 4P
Type of terminals		Front connections supplied with the device			
Prefabricated connection Linergy LGYE to busbars		Connection must be made ⁽²⁾			
Cover for busbars connection		add free supports: 2 x LVS04662			

⁽¹⁾ To tighten the screws of the Canalis interface, use the special tool 87808.⁽²⁾ Connection to be made according to the busbar drawings supplied by Schneider Electric.**Note:** To make measurements, install the CTs on the horizontal busbars (busbar connection); in this case, an additional module is required; add a plain front plate (LVS03801) or install a Micrologic control unit capable of displaying the values.

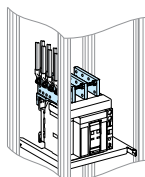
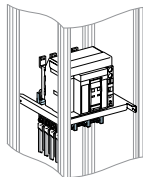
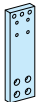
Selection of busbars: Linergy LGYE > page C-72.

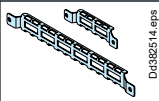
MasterPact MTZ1 06 to 16

Dedicated cubicle 3P - W = 400 mm

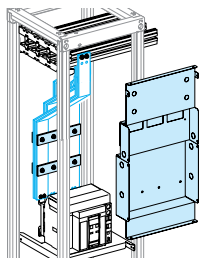
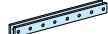
Fixed, withdrawable

Circuit breakers

Connection	Upstream on incomer	
	 Dd382672_1 eps	 Dd382689 eps
Devices	Fixed device	Withdrawable device
	MTZ1 06 to MTZ1 16	
Type of terminals 	Front connection	Front connection
Arc-chute cover 	47335	—
Vert. conn. adapters	33642 ⁽¹⁾	33642 ⁽¹⁾
Cable-lug adapters	33644 ⁽¹⁾	33644 ⁽¹⁾
Spacing rods 	LVS04691	LVS04691

Accessories		
	 Dd382513 eps	 Dd382514 eps
	W = 400	D = 400 D = 600
4 cable tie supports for framework	LVS08774	LVS08794 LVS08794 + LVS08796

⁽¹⁾ Vertical connection adapters and cable-lug adapters are not compatible with input voltage ≥ 500 V.

Distribution	Downstream on horizontal busbars Linergy LGYE	
	 DD3845890 eps	
Fixed / Withdrawable devices	MTZ1 06 to MTZ1 16	
Type of terminals 	Front connection	
Support 	2 x LVS04692 For MTZ1 H1 and H2 3 x LVS04692 For MTZ1 H3	
Barrier ⁽¹⁾ 	LVS04855	
Horizontal-busbar connections 10 mm thickness bars	Connection must be made ⁽²⁾	
Vertical-busbar connections	—	
Free support	—	

⁽¹⁾ A barrier must be installed behind front plate **LVS03723** when measurement devices are installed.

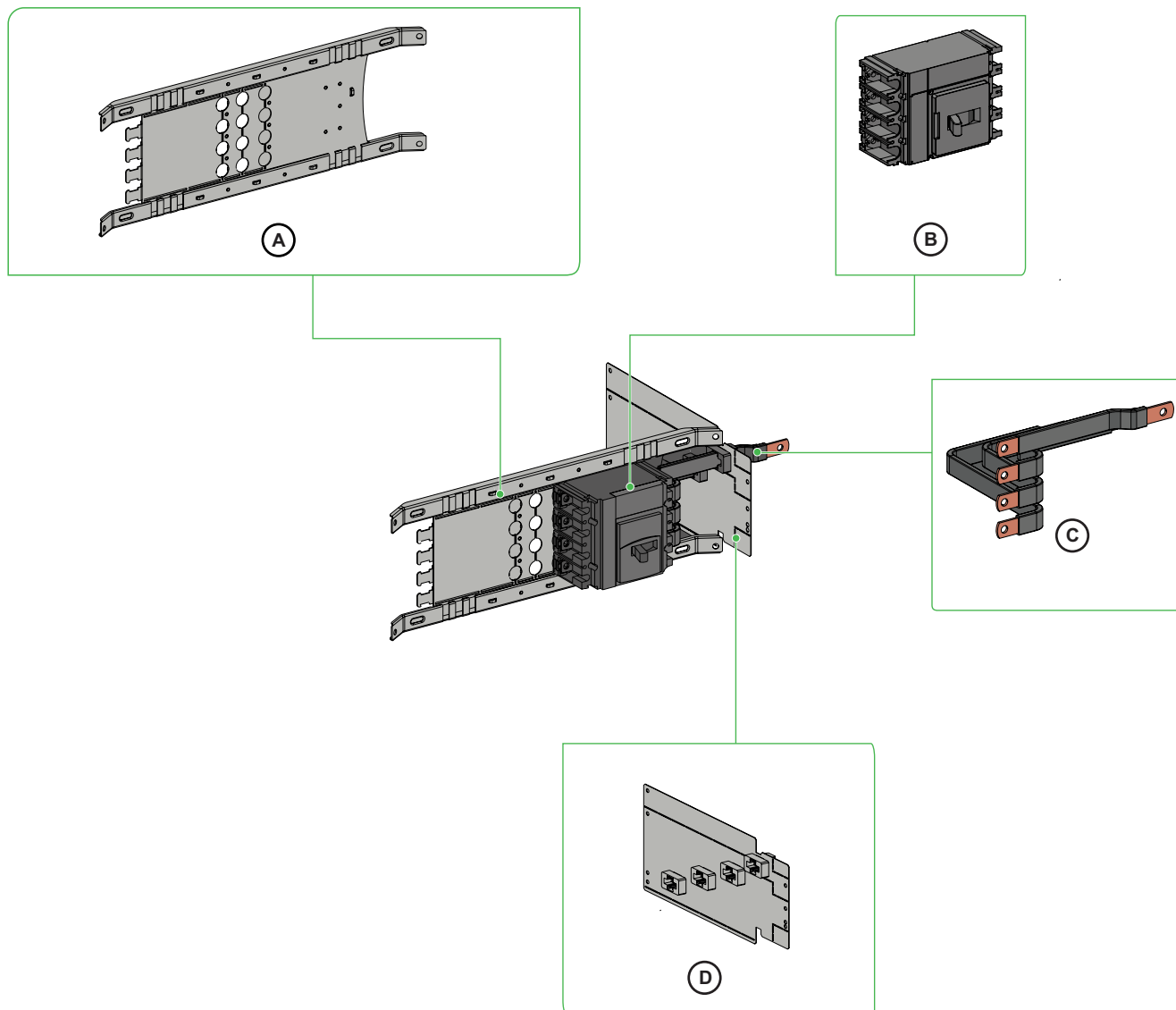
⁽²⁾ Connection to be made according to the busbar drawings supplied by Schneider Electric.

⁽³⁾ Catalog number **LVS04636** includes 1 connection only. Order 1 connection per phase.

ComPacT NSX 100 to 250

Horizontal mounting

Toggle - Fixed

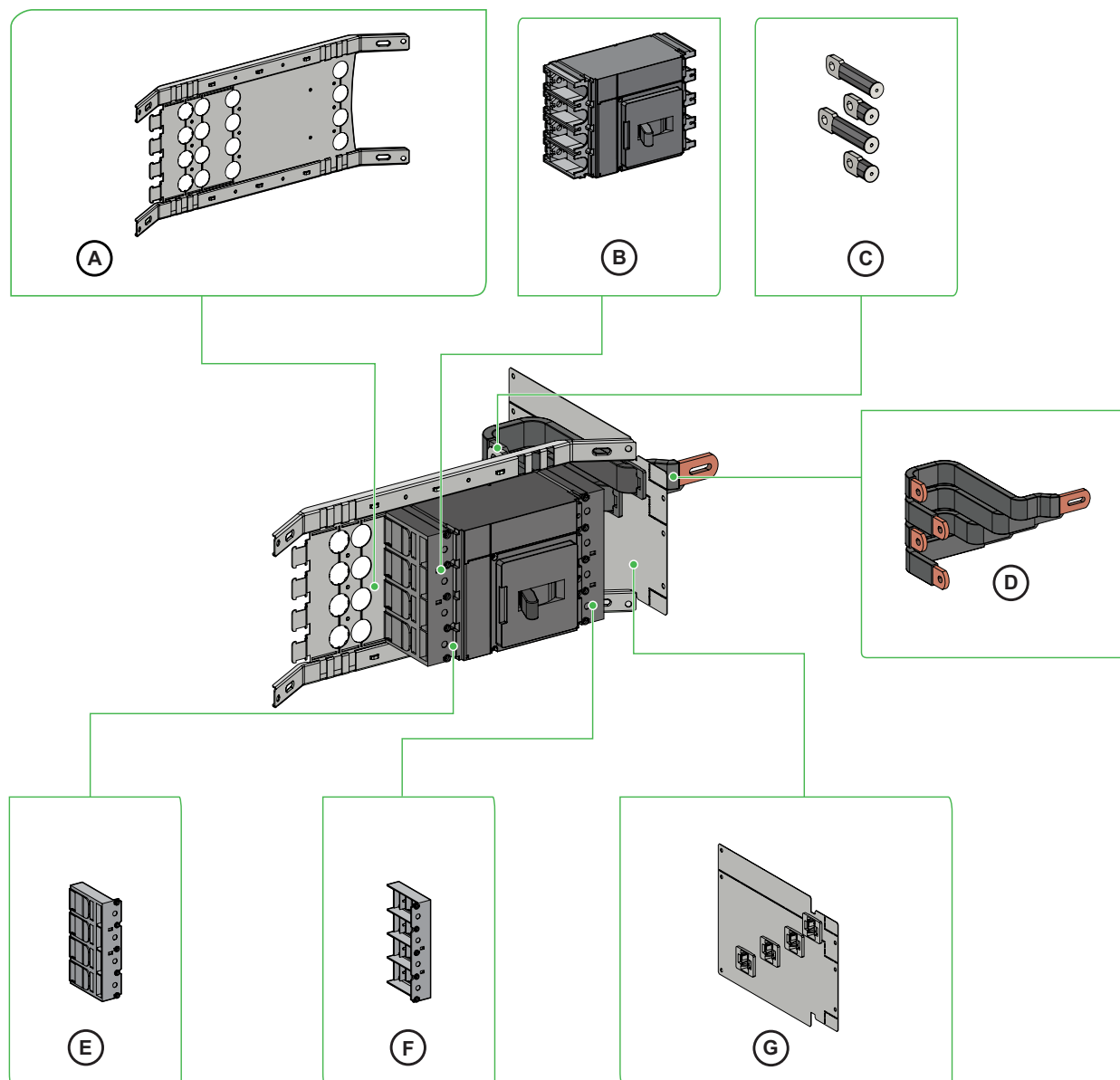


Item	Description
(A)	Mounting plate
(B)	Circuit breaker 690 V MCCB
(C)	Flexible busbar
(D)	VBB side form partition

ComPacT NSX 400 to 630

Horizontal mounting

Toggle - Fixed

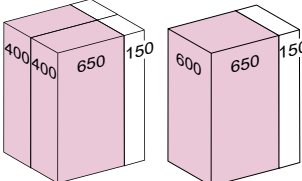
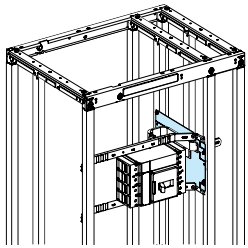
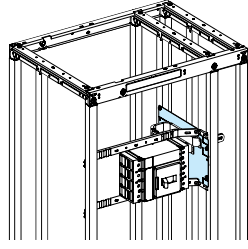
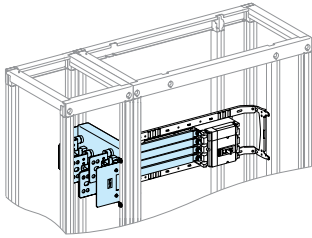


Item	Description
(A)	Mounting plate
(B)	Circuit breaker 690 V MCCB
(C)	Rear connectors
(D)	Flexible busbar
(E)	Power filter
(F)	VBB side form partition

ComPacT NSX 100 to 630

Horizontal mounting

Toggle - Fixed

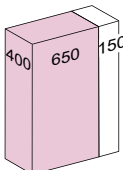
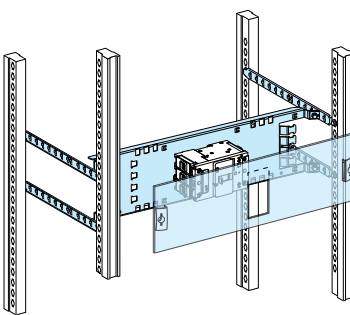
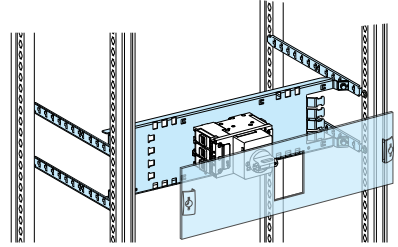
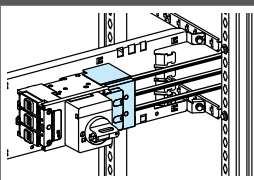
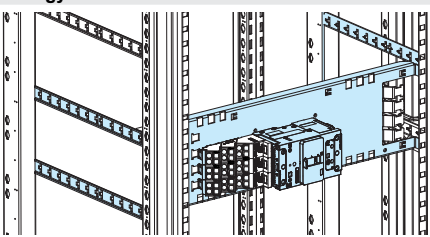
Mounting		Horizontal fixed			
					
Devices		Toggle			
		NSX 100/160/250		NSX 400/630	
		3P	4P	3P	4P
Number of devices per row		1	1	1	1
No. of vertical modules		3	4	4	5
Mounting plates		LVS03411	LVS03412	LVS03449	LVS03450
Front plates with cut-out		LVS03604	LVS03606	LVS03643	LVS03644
VBB side form partition		LVS04433	LVS04433	LVS04463	LVS04463
Power filter		–	–	LV435690	LV434690
Rear connector upstream connection		–	–	LV432475	LV432475
				LV432476	LV432476
Connection		Upstream from lateral busbars			
Fixed devices		NSX 100/160/250		NSX 400/630	
		3P	4P	3P	4P
Linery LGYE					
					
Long terminal shields		LV429517	LV429518	–	–
Connection		Downstream distribution			
					
Fixed devices		NSX 100/250		NSX 400/630	
		3P	4P	3P	4P
Front connection	long terminal shields	LV429517	LV429518	–	–
Connection	connection	LVS04425	LVS04426	LVS04455	LVS04456
transfer assembly					
Rear connection	short terminal shields	LV429515	LV429516	–	–
	short rear connectors	LV429235		LV432475	
	long rear connectors	LV429236		LV432476	

ComPacT NSXm up to 63

Horizontal mounting

Toggle, rotary handle - Fixed

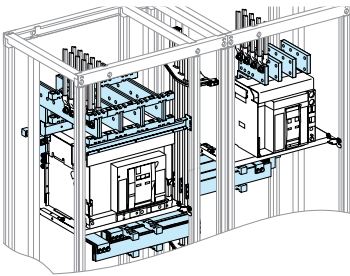
Circuit breakers

Mounting		Horizontal fixed	
			
			
Devices		Toggle	Direct rotary handle
		NSXm	NSXm
Number of devices per row		1 x 3P or 4P	1 x 3P or 4P
No. of vertical modules		3	3
Mounting plates		LVS03409	LVS03409
Front plates with cut-out [No. of vertical modules]		LVS03330 [3]	LVS03331 [3]
Side VBB plate		LVS04951	LVS04951
Connection		Upstream from lateral Linergy LGYE busbar	
			
Devices		Toggle	Direct rotary handle
		NSXm	NSXm
		3P 4P	3P 4P
Connection		Connections must be made	
Long terminal shields		LV426912 LV426913	LV426912 LV426913
Connection		Downstream distribution	
			
Busbars / Distribution block		LVS04038, LVS04039 > page C-75	
Prefabricated connection		Connection must be made	

Source-changeover

Possible combinations,
MasterPact MTZ1 06/16, MTZ2 08/32

Source-changeover

Manual source-changeover								
 Da343703.eps								
Type of device	Type of interlocking							
	Complete assembly	Toggle	Keylock	Rotary handle	On base plate	Cable-type with 2 devices side-by-side ⁽¹⁾	Cable-type with 3 devices side-by-side ⁽¹⁾	Cable-type with 2 devices one above another
MTZ1 06 to 16								
MTZ2 08 to 32								

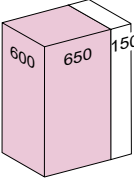
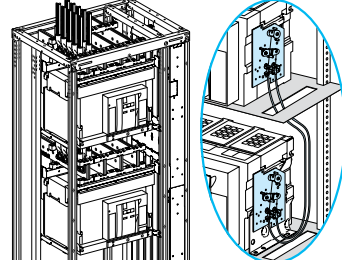
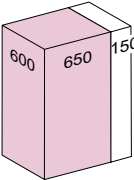
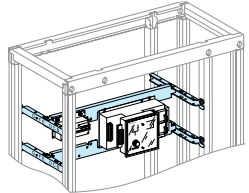
(1) In 2 or 3 cubicles.

Possible combinations.

Manual or remote-operated or automatic source-changeover

MasterPact MTZ2 08/32, front connection S1 device identical to S2 device

Source-changeover

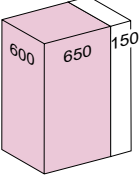
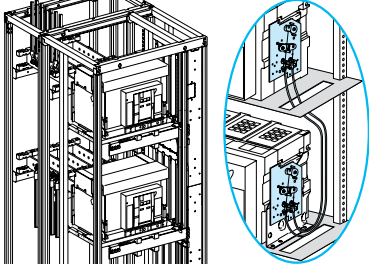
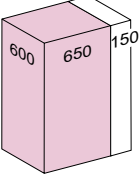
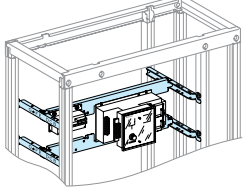
Mounting		Front connection with cables			
					
Devices		Fixed device		Withdrawable device	
Number of devices per row		2	2	2	2
Number of vertical modules		31	34	33	36
Mounting plates		LVS03500	LVS03500	LVS03500	LVS03500
		S1 device			
		MTZ2 08/16	MTZ2 20/32	MTZ2 08/16	MTZ2 20/32
Front plates [No. of vertical modules]	upstream	LVS03804 [4]	LVS03805 [5]	LVS03804 [4]	LVS03805 [5]
	with cut-out	LVS03711 [9]	LVS03711 [9]	LVS03710 [10]	LVS03710 [10]
	downstream	LVS03805 [5]	LVS03806 [6]	LVS03805 [5]	LVS03806 [6]
		S2 device			
		MTZ2 08/16	MTZ2 20/32	MTZ2 08/16	MTZ2 20/32
Front plates [No. of vertical modules]	upstream	–	–	–	–
	with cut-out	LVS03711 [9]	LVS03711 [9]	LVS03710 [10]	LVS03710 [10]
	downstream	LVS03804 [4]	LVS03805 [5]	LVS03804 [4]	LVS03805 [5]
Connection					
					
Devices		Fixed device		Withdrawable device	
		S1 device			
		MTZ2 08/16	MTZ2 20/32	MTZ2 08/16	MTZ2 20/32
Upstream connection		Vertical rear connections supplied with the device			
Connection		Connection must be made ⁽¹⁾			
		S2 device			
		MTZ2 08/16	MTZ2 20/32	MTZ2 06/10	MTZ2 20/32
Downstream connection		Vertical rear connections supplied with the device			
Connection		Connection must be made ⁽¹⁾			
Distribution		Linergy LGYE busbar			
		Selection of busbars: Linergy LGYE > page C-72.			
		S1 device			
Upstream connection		Front connections supplied with the device			
Connection		Connection must be made ⁽¹⁾			
		S2 device			
Downstream connection		Front connections supplied with the device			
Connection		Connection must be made ⁽¹⁾			
Mounting		Controller outside the device zone			
					
Devices		UA or BA controller			
Number of devices per row		1			
Number of vertical modules		4			
Mounting plates		LVS03417			
Front plates [No. of vertical mod.]	with cut-out	LVS03671 [4]			
Characteristics		When a UA, BA or UA150 automatic controller is added together with an ACP mounting plate, the sources can be controlled automatically according to a number of programmed operating modes.			

(1) Connection to be made according to the busbar drawings supplied by Schneider Electric.

Manual or remote-operated or automatic source-changeover

MasterPact MTZ2 08/32, rear connection S1 device identical to S2 device

Source-changeover

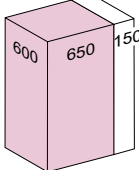
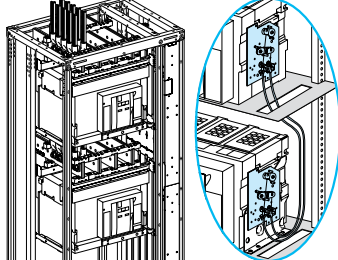
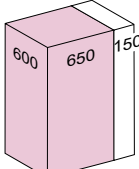
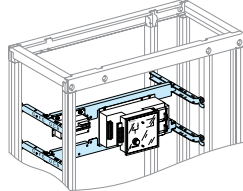
Mounting		Rear connection with cables			
					
Devices		Fixed device		Withdrawable device	
Number of devices per row		2	2	2	2
Number of vertical modules		23	24	25	26
Mounting plates		LVS03500	LVS03500	LVS03500	LVS03500
		S1 device			
		MTZ2 08/16	MTZ2 20/32	MTZ2 08/16	MTZ2 20/32
Front plates [No. of vertical modules]	upstream	–	–	–	–
	with cut-out	LVS03711 [9]	LVS03711 [9]	LVS03710 [10]	LVS03710 [10]
	downstream	LVS03805 [5]	LVS03806 [6]	LVS03805 [5]	LVS03806 [6]
		S2 device			
		MTZ2 08/16	MTZ2 20/32	MTZ2 08/16	MTZ2 20/32
Front plates [No. of vertical modules]	upstream	–	–	–	–
	with cut-out	LVS03711 [9]	LVS03711 [9]	LVS03710 [10]	LVS03710 [10]
	downstream	–	–	–	–
Connection					
					
Devices		Fixed device		Withdrawable device	
		S1 device			
		MTZ2 08/16	MTZ2 20/32	MTZ2 08/16	MTZ2 20/32
Upstream connection		Vertical rear connections supplied with the device			
Connection		Connection must be made ⁽¹⁾			
		S2 device			
		MTZ2 08/16	MTZ2 20/32	MTZ2 06/10	MTZ2 20/32
Downstream connection		Vertical rear connections supplied with the device			
Connection		Connection must be made ⁽¹⁾			
Distribution		Linergy LGYE busbar			
		Selection of busbars: Linergy LGYE > page C-72.			
		S1 device			
Upstream connection		Front connections supplied with the device			
Connection		Connection must be made ⁽¹⁾			
		S2 device			
Downstream connection		Front connections supplied with the device			
Connection		Connection must be made ⁽¹⁾			
Mounting		Controller outside the device zone			
					
Devices		UA or BA controller			
Number of devices per row		1			
Number of vertical modules		4			
Mounting plates		LVS03417			
Front plates [No. of vertical mod.]	with cut-out	LVS03671 [4]			
Characteristics		When a UA, BA or UA150 automatic controller is added together with an ACP mounting plate, the sources can be controlled automatically according to a number of programmed operating modes.			

⁽¹⁾ Connection to be made according to the busbar drawings supplied by Schneider Electric.

Manual or remote-operated or automatic source-changeover

MasterPact MTZ2 08/32, front connection S1 device different to S2 device

Source-changeover

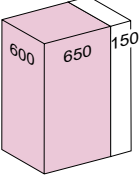
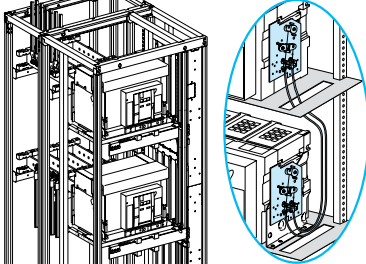
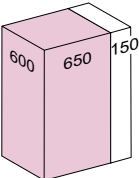
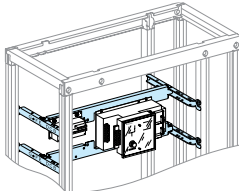
Mounting		Front connection with cables			
					
Devices		Fixed device		Withdrawable device	
Number of devices per row		2	2	2	2
Number of vertical modules		33	33	35	35
Mounting plates		LVS03500	LVS03500	LVS03500	LVS03500
		S1 device			
		MTZ2 08/16	MTZ2 20/32	MTZ2 08/16	MTZ2 20/32
Front plates [No. of vertical modules]	upstream	LVS03804 [4]	LVS03805 [5]	LVS03804 [4]	LVS03805 [5]
	with cut-out	LVS03711 [9]	LVS03711 [9]	LVS03710 [10]	LVS03710 [10]
	downstream	LVS03806 [6]	LVS03806 [6]	LVS03806 [6]	LVS03806 [6]
		S2 device			
		MTZ2 20/32	MTZ2 08/16	MTZ2 20/32	MTZ2 08/16
Front plates [No. of vertical modules]	upstream	—	—	—	—
	with cut-out	LVS03711 [9]	LVS03711 [9]	LVS03710 [10]	LVS03710 [10]
	downstream	LVS03805 [5]	LVS03804 [4]	LVS03805 [5]	LVS03804 [4]
Connection					
					
Devices		Fixed device		Withdrawable device	
		S1 device		MTZ2 20/32	
		MTZ2 08/16	MTZ2 20/32	MTZ2 08/16	MTZ2 20/32
Upstream connection		Vertical rear connections supplied with the device			
Connection		Connection must be made ⁽¹⁾			
		S2 device		MTZ2 T06/10	MTZ2 20/32
		MTZ2 08/16	MTZ2 20/32	MTZ2 T06/10	MTZ2 20/32
Downstream connection		Vertical rear connections supplied with the device			
Connection		Connection must be made ⁽¹⁾			
Distribution		Linergy LGYE busbar			
		Selection of busbars: Linergy LGYE > page C-72.			
		S1 device			
Upstream connection		Front connections supplied with the device			
Connection		Connection must be made ⁽¹⁾			
		S2 device			
Downstream connection		Front connections supplied with the device			
Connection		Connection must be made ⁽¹⁾			
Mounting		Controller outside the device zone			
					
Devices		UA or BA controller			
Number of devices per row		1			
Number of vertical modules		4			
Mounting plates		LVS03417			
Front plates [No. of vertical mod.]		LVS03671 [4]			
Characteristics		When a UA, BA or UA150 automatic controller is added together with an ACP mounting plate, the sources can be controlled automatically according to a number of programmed operating modes.			

(1) Connection to be made according to the busbar drawings supplied by Schneider Electric.

Manual or remote-operated or automatic source-changeover

MasterPact MTZ2 08/32, rear connection S1 device different to S2 device

Source-changeover

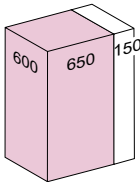
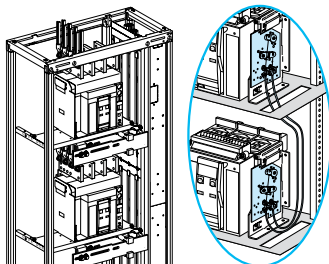
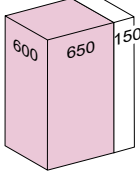
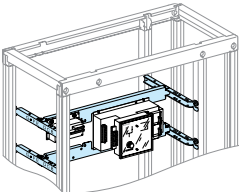
Mounting		Rear connection with cables			
					
Devices		Fixed device		Withdrawable device	
Number of devices per row		2	2	2	2
Number of vertical modules		24	24	26	26
Mounting plates		LVS03500	LVS03500	LVS03500	LVS03500
		S1 device			
		MTZ2 08/16	MTZ2 20/32	MTZ2 08/16	MTZ2 20/32
Front plates [No. of vertical modules]	upstream	–	–	–	–
	with cut-out	LVS03711 [9]	LVS03711 [9]	LVS03710 [10]	LVS03710 [10]
	downstream	LVS03806 [6]	LVS03806 [6]	LVS03806 [6]	LVS03806 [6]
		S2 device			
		MTZ2 08/16	MTZ2 20/32	MTZ2 08/16	MTZ2 20/32
Front plates [No. of vertical modules]	upstream	–	–	–	–
	with cut-out	LVS03711 [9]	LVS03711 [9]	LVS03710 [10]	LVS03710 [10]
	downstream	–	–	–	–
Connection					
					
Devices		Fixed device		Withdrawable device	
		S1 device			
		MTZ2 08/16	MTZ2 20/32	MTZ2 08/16	MTZ2 20/32
Upstream connection		Vertical rear connections supplied with the device			
Connection		Connection must be made ⁽¹⁾			
		S2 device			
		MTZ2 08/16	MTZ2 20/32	MTZ2 06/10	MTZ2 20/32
Downstream connection		Vertical rear connections supplied with the device			
Connection		Connection must be made ⁽¹⁾			
Distribution		Linergy LGYE busbar			
		Selection of busbars: Linergy LGYE > page C-72.			
		S1 device			
Upstream connection		Front connections supplied with the device			
Connection		Connection must be made ⁽¹⁾			
		S2 device			
Downstream connection		Front connections supplied with the device			
Connection		Connection must be made ⁽¹⁾			
Mounting		Controller outside the device zone			
					
Devices		UA or BA controller			
Number of devices per row		1			
Number of vertical modules		4			
Mounting plates		LVS03417			
Front plates [No. of vertical mod.]	with cut-out	LVS03671 [4]			
Characteristics		When a UA, BA or UA150 automatic controller is added together with an ACP mounting plate, the sources can be controlled automatically according to a number of programmed operating modes.			

(1) Connection to be made according to the busbar drawings supplied by Schneider Electric.

Manual or remote-operated or automatic source-changeover

MasterPact MTZ1 06/16, front connection S1 device identical to S2 device

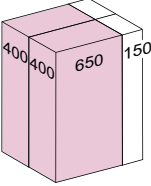
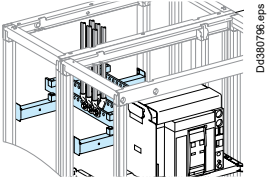
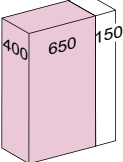
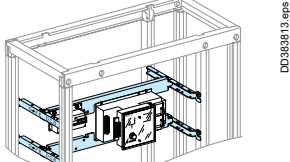
Source-changeover

Mounting		Front connection with cables			
		 DD38541.jpg			
Devices		Fixed device		Withdrawable device	
Number of devices per row		2	2	2	2
Number of vertical modules		24	28	26	30
Mounting plates		LVS03484	LVS03484	LVS03483	LVS03483
		S1 device			
		MTZ1 06/10	MTZ1 12/16	MTZ1 06/10	MTZ1 12/16
Front plates [No. of vertical modules]	upstream	LVS03802 [2]	LVS03804 [4]	LVS03802 [2]	LVS03804 [4]
	with cut-out	LVS03692 [7]	LVS03692 [7]	LVS03691 [8]	LVS03691 [8]
	downstream	LVS03803 [3]	LVS03803 [3]	LVS03803 [3]	LVS03803 [3]
		S2 device			
		MTZ1 06/10	MTZ1 12/16	MTZ1 06/10	MTZ1 12/16
Front plates [No. of vertical modules]	upstream	LVS03803 [3]	LVS03803 [3]	LVS03803 [3]	LVS03803 [3]
	with cut-out	LVS03692 [7]	LVS03692 [7]	LVS03691 [8]	LVS03691 [8]
	downstream	LVS03802 [2]	LVS03804 [4]	LVS03802 [2]	LVS03804 [4]
Connection					
					
Devices		Fixed device		Withdrawable device	
		MTZ1 06/10	MTZ1 12/16	MTZ1 06/10	MTZ1 12/16
		3P	4P	3P	4P
S1 device					
Upstream connection		Front connections supplied with the device			
Vertical connection adapters		33642	33643	33642	33643
S2 device					
Downstream connection		Front connections supplied with the device			
Vertical connection adapters		33642	33643	33642	33643
Distribution		Linergy LGYE busbar			
		Selection of busbars: Linergy LGYE > page C-72.			
S1 device					
Upstream connection		Front connections supplied with the device			
Connection		Connection must be made			
S2 device					
Downstream connection		Front connections supplied with the device			
Connection		Connection must be made			
Mounting		Outside the device zone			
		 DD383813.jpg			
Devices		UA or BA controller			
Number of devices per row		1			
Number of vertical modules		4			
Mounting plates		LVS03417			
Front plates [No. of vertical mod.]		LVS03671 [4]			
Characteristics		When a UA, BA or UA150 automatic controller is added together with an ACP mounting plate, the sources can be controlled automatically according to a number of programmed operating modes.			

Manual or remote-operated or automatic source-changeover

MasterPact MTZ1 06/16, rear connection S1 device identical to S2 device

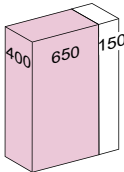
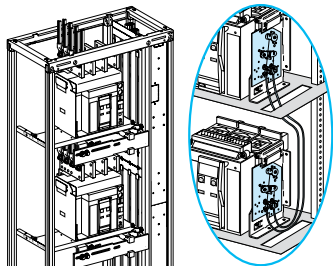
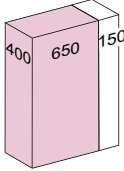
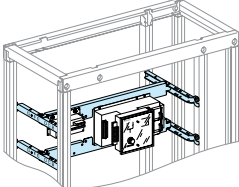
Source-changeover

Mounting		Rear connection with cables	
			
Devices		Fixed device	Withdrawable device
Number of devices per row		2	2
Number of vertical modules		22	22
Mounting plates		LVS03484	LVS03483
		S1 device	
		MTZ1 06/16	MTZ1 06/16
Front plates [No. of vertical modules]	upstream	LVS03801 [1]	–
	with cut-out	LVS03692 [7]	LVS03691 [8]
	downstream	LVS03803 [3]	LVS03803 [3]
		S2 device	
		MTZ1 06/16	MTZ1 06/16
Front plates [No. of vertical modules]	upstream	LVS03803 [3]	LVS03803 [3]
	with cut-out	LVS03692 [7]	LVS03691 [8]
	downstream	LVS03801 [1]	–
Connection			
			
Devices		Fixed device	Withdrawable device
		MTZ1 06/16	MTZ1 06/16
		S1 device	
Upstream connection		Vertical rear connections supplied with the device	
Connection		Connection must be made	
		S2 device	
Downstream connection		Vertical rear connections supplied with the device	
Connection		Connection must be made	
Distribution		Linergy LGYE busbar	
		Selection of busbars: Linergy LGYE > page C-72.	
		S1 device	
Upstream connection		Front connections supplied with the device	
Connection		Connection must be made	
		S2 device	
Downstream connection		Front connections supplied with the device	
Connection		Connection must be made	
Mounting		Controller outside the device zone	
			
Devices		UA or BA controller	
Number of devices per row		1	
Number of vertical modules		4	
Mounting plates		LVS03417	
Front plates [No. of vertical mod.]		LVS03671 [4]	
Characteristics		When a UA, BA or UA150 automatic controller is added together with an ACP mounting plate, the sources can be controlled automatically according to a number of programmed operating modes.	

Manual or remote-operated or automatic source-changeover

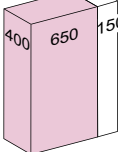
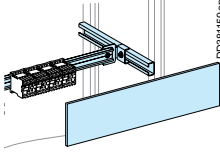
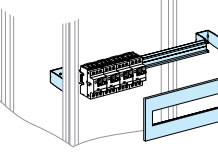
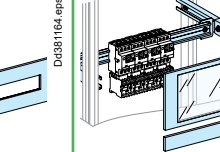
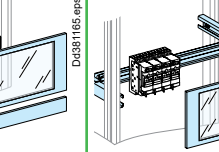
MasterPact MTZ1 06/16, front connection S1 device different to S2 device

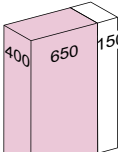
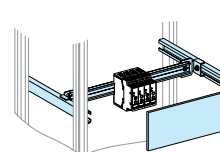
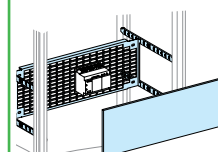
Source-changeover

Mounting		Front connection with cables			
					
Devices		Fixed device		Withdrawable device	
Number of devices per row		2	2	2	2
Number of vertical modules		26	26	28	28
Mounting plates		LVS03484	LVS03484	LVS03483	LVS03483
		S1 device			
		MTZ1 12/16	MTZ1 06/10	MTZ1 12/16	MTZ1 06/10
Front plates [No. of vertical modules]	upstream	LVS03804 [4]	LVS03802 [2]	LVS03804 [4]	LVS03802 [2]
	with cut-out	LVS03692 [7]	LVS03692 [7]	LVS03691 [8]	LVS03691 [8]
		S2 device			
		MTZ1 06/10	MTZ1 12/16	MTZ1 06/10	MTZ1 12/16
Front plates [No. of vertical modules]	upstream	LVS03803 [3]	LVS03803 [3]	LVS03803 [3]	LVS03803 [3]
	with cut-out	LVS03692 [7]	LVS03692 [7]	LVS03691 [8]	LVS03691 [8]
	downstream	LVS03802 [2]	LVS03804 [4]	LVS03802 [2]	LVS03804 [4]
Connection					
					
Devices		Fixed device		Withdrawable device	
		MTZ1 06/10	MTZ1 12/16	MTZ1 06/10	MTZ1 12/16
		3P 4P	3P 4P	3P 4P	3P 4P
S1 device					
Upstream connection		Front connections supplied with the device			
Vertical connection adapters		33642	33643	33642	33643
S2 device					
Downstream connection		Front connections supplied with the device			
Vertical connection adapters		33642	33643	33642	33643
Distribution		Linergy LGYE busbar			
		Selection of busbars: Linergy LGYE > page C-72.			
S1 device					
Upstream connection		Front connections supplied with the device			
Connection		Connection must be made			
S2 device					
Downstream connection		Front connections supplied with the device			
Connection		Connection must be made			
Mounting		Controller outside the device zone			
					
Devices		UA or BA controller			
Number of devices per row		1			
Number of vertical modules		4			
Mounting plates		LVS03417			
Front plates [No. of vertical mod.]		LVS03671 [4]			
Characteristics		When a UA, BA or UA150 automatic controller is added together with an ACP mounting plate, the sources can be controlled automatically according to a number of programmed operating modes.			

Industrial control devices

Auxiliary devices

Mounting		On a modular rail							
									
Devices		Contactor Series D and K ≤ 40 A contactors		Circuit breaker GV2RT- GV2ME- GV2LE		Circuit breaker + contactor GV2 + Series D and K ≤ 40 A contactors		TeSys TeSys modèle U	
Number of vertical modules		3		3		5		5	
Useful length of rail (mm)		432		432		432		432	
Modular rail (adjustable)		LVS03402		LVS03401 (2)		LVS03402		LVS03402	
Front plates		plain		LVS03803 [3]		-		-	
[No. of vertical mod.]		transparent		-		LVS03342 [4]		LVS03804 [4]	
		with cut-out		-		LVS03203 [3]		LVS03203 [3]	
		downstream		-		LVS03205 [5]		LVS03205 [5]	
Characteristics		-		-		LVS03801 [1]		-	
				Width of devices without lateral auxiliaries: 45 mm.					

Mounting		On a modular rail					On a base plate	
								
Devices		Soft starters ATS01					LV/LV transformer	
		ATS01N103/106FT	ATS01N109/112FT ATS01N206 to 212	ATS01N222 to 232	ATS01N230LY ATS01N244LY ATS01N244Q	ATS01N272LY ATS01N285LY ATS01N272Q ATS01N285Q	ABL6-TS/TD up to 2500 VA ABL6-RT up to 960 W ABL6-RF up to 480 W	
Number of vertical modules		4	5	6	5	6	4	
Useful length of rail (mm)		432	432	432	432	-	-	
Modular rail (adjustable)		LVS03402	LVS03402	LVS03402	LVS03402	-	-	
Slotted mounting plates		-	-	-	-	LVS03572	LVS03571	
Front plate		LVS03804 [4]	LVS03805 [5]	LVS03806 [6]	LVS03805 [5]	LVS03806 [6]	LVS03804 [4]	
[No. of vertical mod.]								
Characteristics		Width of devices (mm)					-	
		22.5	45	45	180	180		

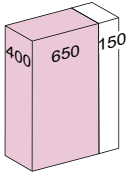
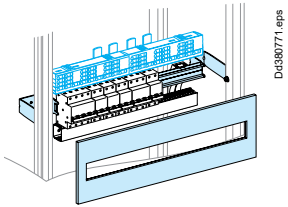
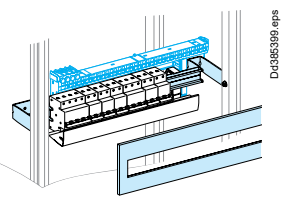
(1) Version without communication module, auxiliary contact and reversing module.

(2) Non-adjustable.

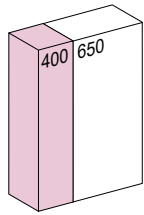
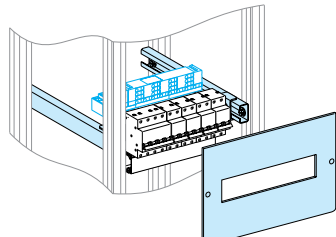
Modular devices (415 V) ⁽¹⁾

Acti 9 ≤ 63 A

Auxiliary devices

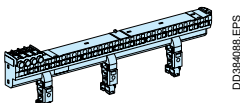
Mounting	Horizontal distances between centres: 200 mm	Horizontal distances between centres: 150 mm
		

Devices	All modular devices	Modular devices ≤ 40 A
Rail length (modules of 9 mm)	48	48
No. of vertical modules	4 ⁽²⁾	3
Rail (48 modules of 9 mm)	LVS03401	LVS03401
Modular front plates	LVS03204	LVS03203
Blanking plate strip	LVS03220	LVS03220
Blanking plate divisible	LVS03221	LVS03221

Mounting	Horizontal distances between centres: 200 mm	Horizontal distances between centres: 150 mm
		

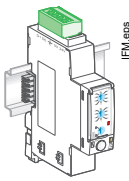
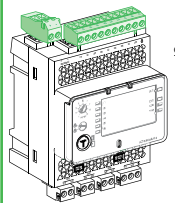
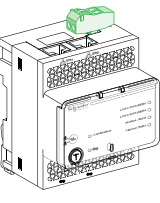
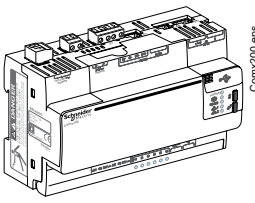
Devices	All modular devices	Modular devices ≤ 40 A
Rail length (modules of 9 mm)	20	20
No. of vertical modules	4	3
Rail (20 modules of 9 mm)	LVS03404 (adjustable)	LVS03404 (adjustable)
Modular front plates	LVS03214 ^[4]	LVS03213 ^[3]
Blanking plate strip	LVS03220	LVS03220
Blanking plate divisible	LVS03221	LVS03221

Connection	Distribution block Linergy FM 160 to 200 A row
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Type of connected devices	All type
Comb busbars / distribution blocks	> page C-80

Lineray TR Terminal blocks: > page C-86.

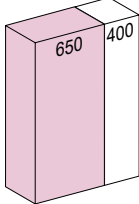
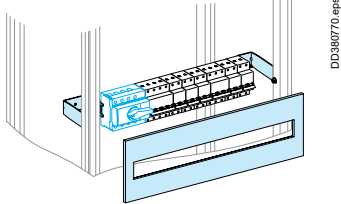
	EnerlinX devices	I/O module	IFE	ComX200	ComX510
					
No. of vertical modules	4				
Rail	LVS03401 / LVS03404				
Modular front plates	LVS03204 / LVS03214				
Characteristics	Installation by clip on a modular rail.				

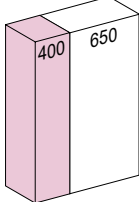
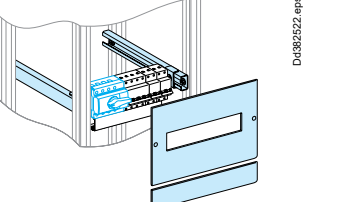
⁽¹⁾ Control devices should be connected to control circuit up to 415 V.⁽²⁾ For a modular row with a 160 A (half row) and 200 A Linergy FM distribution block positioned directly below a non-modular mounting-plate (ComPacT, etc.), or at the top of a switchboard, add one additional module (i.e. 4+1) and a plain upstream front plate (LVS03801).

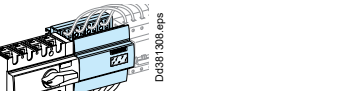
Modular devices (415 V) ⁽¹⁾

80/160 A switchboard incomer

Auxiliary devices

Mounting	Switch-disconnectors	
		
Devices	ComPacT INS40/160	ComPacT INS-INV100/160 with long terminal shields
No. of vertical modules	4	5
Rail (48 modules of 9 mm)	LVS03401	LVS03401
Modular front plates	LVS03204	LVS03205
Blanking plate strip	LVS03220	LVS03220
divisible	LVS03221	LVS03221

Mounting	Switch-disconnectors	
		
Devices	INS-INV40/160	INS-INV100/160 with long terminal shields
No. of vertical modules	4	5
Rail (20 modules of 9 mm)	LVS03404 (adjustable)	LVS03404 (adjustable)
Front plates modular	LVS03214 [4]	LVS03214 [4]
[No. of vertical modules] downstream	–	LVS03811 [1]
Blanking plate strip	LVS03220	LVS03220
divisible	LVS03221	LVS03221

Connection	Linergy DX 4P, 160 A distribution block	
		
Type of connected devices	All type	
Distribution block / busbars	> page C-78	
Connection	> page C-78	

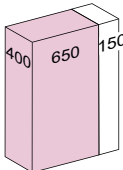
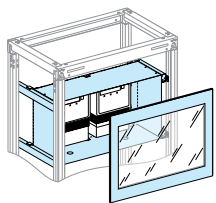
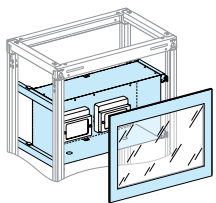
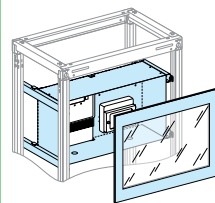
⁽¹⁾ Control devices should be connected to control circuit up to 415 V.

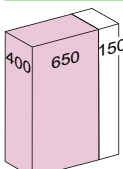
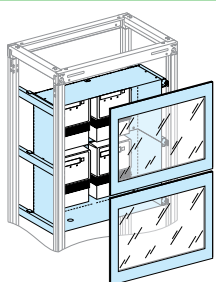
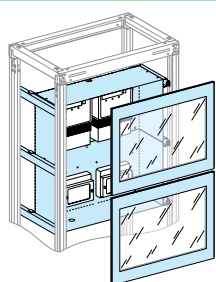
Metering (415 V) ⁽¹⁾

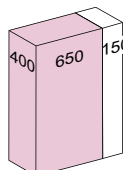
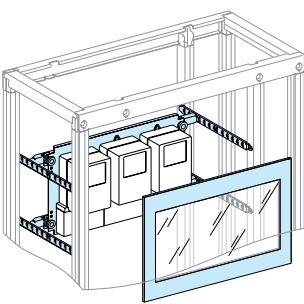
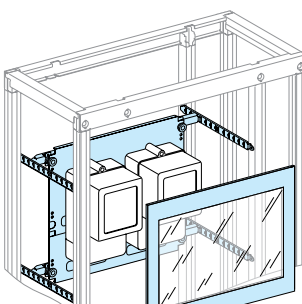
Single-phase and 3-phase kilowatt-hour meters

Class 1 and 2

Auxiliary devices

Mounting		With 1 mounting plate		
				
Devices		Meter and connection block		
		Meter 3 Ph + N	Connection block	Meter + connection block
Number of devices per row		2	2	1 + 1
Number of vertical modules		6	6	6
Mounting plates		LVS03508	LVS03508	LVS03508
Front plates	transparent	LVS03343 [6]	LVS03343 [6]	LVS03343 [6]
[No. of vertical mod.]	or plain	LVS03806 [6]	LVS03806 [6]	LVS03806 [6]

Mounting		With 2 mounting plates	
			
Devices		Meter and connection block	
		Meter 3 Ph + N	Meter + connection block
Number of devices per row		4	2 + 2
Number of vertical modules		12	12
Mounting plates		2 x LVS03508	2 x LVS03508
Front plates	transparent	2 x LVS03343 [6]	2 x LVS03343 [6]
[No. of vertical mod.]	or plain	2 x LVS03806 [6]	2 x LVS03806 [6]

Mounting		Behind front plate	
			
Devices		Meter and connection block	
		Single-phase (Ph + N)	3-phase (3 Ph + N)
Number of devices per row		3	2
Number of vertical modules		6	9
Mounting plates		—	LVS03152
Front plates	transparent	LVS03343 [6]	LVS03344 [9]
[No. of vertical mod.]	or plain	LVS03806 [6]	—
Insulating plate		—	—
Adapter		LVS03595	LVS03595
Accessories		M5 spacers for mounting plate > page C-63	

⁽¹⁾ Control devices should be connected to control circuit up to 415 V.**Note:** Meters can be installed at different levels on the functional uprights of frameworks.

Metering and human-switchboard interface (415 V) ⁽¹⁾

PowerLogic™ Meters

Auxiliary devices

★ Presentation

PowerLogic™ Meters

Schneider Electric provides these tools via the world's most advanced energy intelligence technology: PowerLogic. The PowerLogic range of meters help manage all energy assets, every second of the day.

PowerLogic PM5000 series



The ideal fit for cost management applications, the PowerLogic™ PM5000 power meter provides :

- > Sub-billing/tenant metering
- > Equipment sub-billing
- > Energy cost allocation
- > Track real-time power conditions
- > Monitor control functions
- > Provide basic power quality values
- > Monitor equipment and network status

Acti 9 iEM2000 and iEM3000 series



The Acti 9 iEM2000 and iEM3000 energy meter series offers a cost-attractive, competitive range of DIN rail-mounted energy meters ideal for:

- > Bill checking to verify that you are only charged for the energy you use.
 - > Sub-billing individual tenants for their energy consumption, including WAGES.
 - > Aggregation of energy consumption, including WAGES, and allocating costs per area, per usage, per shift, or per time within the same facility.
 - > Basic metering of electrical parameters to better understand the behavior of your electrical distribution system.
- Combined with communication systems, like Smart Link, the Acti 9 iEM2000 and iEM3000 series makes it easy to integrate electrical distribution measurements into facility management systems. It's the right energy meter at the right price for the right job.

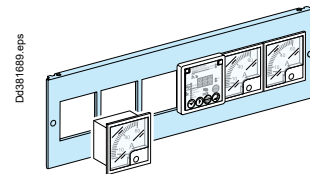
Possible installation

Cat. number	LVS03904	LVS03928	LVS03910	LVS03911	LVS03913	LVS03914
Front plate frame support (LVS08566)	■	■	■	■	■	■
L300/L400 with cut-out (LVS08593, LVS08594)	■	■	■	■	■	—

Note: Device mounting on door: earthing braid (cat. no. LVS08910) or earthing wire (cat. no. LVS08911) mandatory.

○ Installation in a switchboard

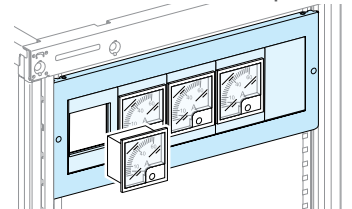
On a metal front plate with cut-outs, H = 150 mm (3 modules)



- > Devices are attached directly to the metal front plate.
- > Blanking plates are available to blank off any unused locations.
- > Economical solution.

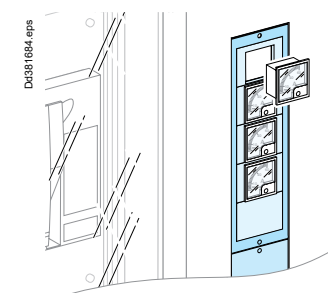
①

- > In the device zone of enclosures and cubicles, like a front plate



②

- > On a door with cut-outs in a 300 or 400 mm wide cubicle
- > On a inclined visor



The degree of protection for installed devices is IP30.

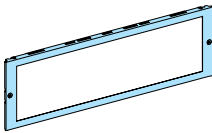
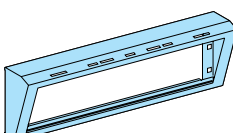
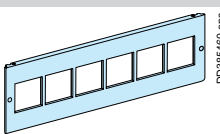
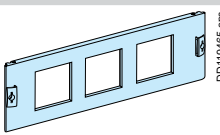
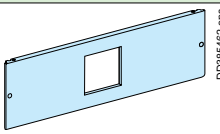
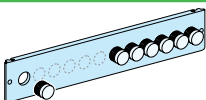
⁽¹⁾ Control devices should be connected to control circuit up to 415 V.

Notes:

- To maintain the IP55 degree of protection, the measurement devices must be installed behind a transparent door. If they are installed on a plain door, use the corresponding mounting plates.
- With a power voltage > SELV (12 V), devices on front plates must be mounted with a front plate hinge kit (cat no. LVS08585). The earthing braid must be connected to the front plate frame support (cat no. LVS08566, LVS08564, LVS08560, LVS08562 or else).
- With a power voltage > SELV (12 V) and a supply protection > 16 A, in addition to the preceding rule, the front plate frame support (cat no. LVS08566, LVS08564, LVS08560, LVS08562 or else) must be connected to the cubicle frame, using an earthing braid (cat no. LVS08910 or LVS08911). (standard NF / EN 61439-1 2011 edition).

Metering and human-switchboard interface (415 V) ⁽¹⁾

Auxiliary devices

Number and type of devices per row		Metal front plate with cut-out	No. of vertical mod.	Plastic mounting plates with cut-out	Blanking plate or devices support
W650 mounting on an interface with plastic mounting plates					
5 x 72 x 72	Vigirex and others devices 72 x 72	 DD385459 eps	3	 DD385465 eps	 DD385466 eps To blank-off or install: - 1 to 4 Ø 16 or 22 mm buttons - 1 device, 45 x 45
4 x 96 x 96	Power Meter and others devices 96 x 96			LVS03902	LVS03900
2 x 96 x 96 (3)	For PM200, 200P, PM5 and PM8 series meters			 DD385467 eps	 DD385468 eps To blank-off or install: - 1 to 4 Ø 16 or 22 mm buttons - 1 device, 45 x 45 - one 72 x 72 device
		LVS03904		LVS03903	LVS03901
W650 mounting on an inclined visor by 30° with plastic mounting plates					
5 x 72 x 72	Vigirex and others devices 72 x 72	 DD385459 eps	3	 DD385465 eps	 DD385466 eps To blank-off or install: - 1 to 4 Ø 16 or 22 mm buttons - 1 device, 45 x 45
4 x 96 x 96	Power Meter and others devices 96 x 96			LVS03902	LVS03900
2 x 96 x 96 (3)	For PM200, 200P, PM5 and PM8 series meters			 DD385467 eps	 DD385468 eps To blank-off or install: - 1 to 4 Ø 16 or 22 mm buttons - 1 device, 45 x 45 - one 72 x 72 device
		LVS03928 (2)		LVS03903	LVS03901
W650 direct mounting on a metal front plate with cut-outs					
72 x 72 device					
6 x 72 x 72	Vigirex and others devices 72 x 72	 DD385460 eps	3	Direct mounting	 DD385469 eps To blank-off or install: - 1 or 2 Ø 22 mm buttons - 1 device, 45 x 45
		LVS03910	—	LVS03907	
96 x 96 device					
3x 96 x 96	Power Meter and others devices 96 x 96	 DD119465 eps	3	Direct mounting	 DD385470 eps To blank-off or install: - 1 or 2 Ø 22 mm buttons - 1 device, 45 x 45 - one 72 x 72 device
		LVS03911	—	LVS03908	
1 x 96 x 96	Power Meter and others devices 96 x 96	 DD385462 eps	3	Direct mounting	 DD385470 eps To blank-off or install: - 1 or 2 Ø 22 mm buttons - 1 device, 45 x 45 - one 72 x 72 device
		LVS03913	—	LVS03908	
144 x 144 device + 72 x 72 devices					
1 x 144 x 144	144 x 144 device		4	Direct mounting	 DD385469 eps To blank-off or install: - 1 or 2 Ø 22 mm buttons - 1 device, 45 x 45
4 x 72 x 72	+ devices 72 x 72			—	LVS03907
W650 pushbuttons and lamps Ø 22 mm					
12 x Ø 22 mm		 DD385464 eps	2	Direct mounting	
		LVS03914	—	—	
W400 front plate					
1 x 96 x 96	Power Meter and others devices 96 x 96	 DD385660 eps	3	Direct mounting	 DD385470 eps To blank-off or install: - 1 or 2 Ø 22 mm buttons - 1 device, 45 x 45 - one 72 x 72 device
		LVS03923	—	LVS03908	

⁽¹⁾ Control devices should be connected to control circuit up to 415 V.⁽²⁾ The visor (cat. no. **LVS03928**) can be installed on a plain door with cut-out.⁽³⁾ For PM200, 200P, PM5 and PM8 series meters, use 2 no. blank off sheets between each meter.

Version : 2.1 - 29/09/2026

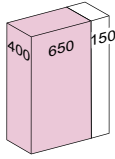
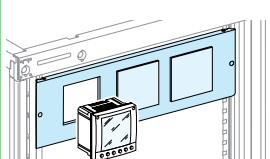
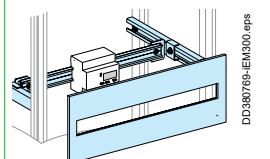
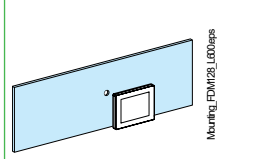
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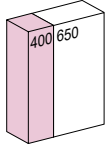
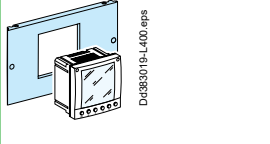
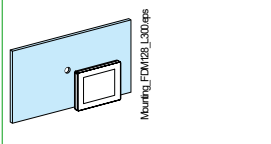
Metering and human-switchboard interface (415 V) ⁽¹⁾

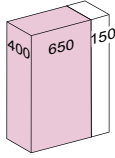
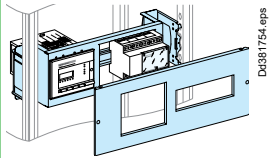
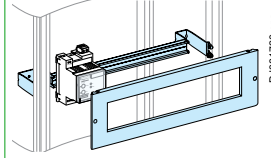
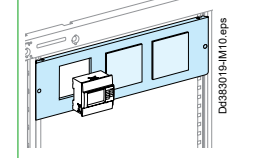
PowerLogic™ Meters

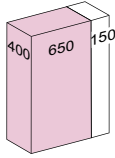
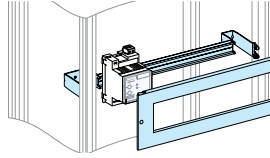
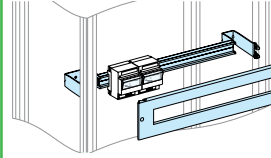
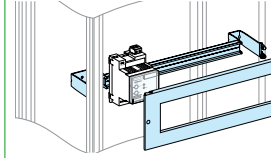
Vigilohm, Vigirex

Auxiliary devices

Mounting	Powerlogic system				
					
Devices					
	FDM121, PM5000 and PM8000 series ⁽³⁾	PM3000 series, IEM2000 and iEM3000 series	FDM128 ⁽²⁾	PM5RD, PM89RD96, PM5563RD ⁽⁴⁾	
Number of vertical mod.	3	3	4	4	
DIN rail	—	—	—	—	
Front plates [No. of vert. modules]	transparent plain	—	—	—	
	with cut-out	—	—	—	
Front plate	With cut-out for devices 96 x 96	—	Hole ø 22 mm to be stamped	Hole ø 30 mm to be stamped	

Mounting	Powerlogic system		
			
Devices			
	FDM121, PM5000 series, PM8000 series ⁽³⁾	FDM128 ⁽²⁾	PM5RD, PM89RD96, PM5563RD ⁽⁴⁾
Number of vertical mod.	3	4	4
DIN rail	—	—	—
Front plates [No. of vert. modules]	with cut-out plain	—	—
Front plate	With cut-out for devices 96 x 96	Hole ø 22 mm to be stamped	Hole ø 30 mm to be stamped

Mounting	Vigilohm		
			
Devices			
	IM400 with 3 XD301 or with 1 or 2 IFL12	IM10, IM10H, IM20, IM20H HV-IM20, HV-IM400, IM9, IM9-OL	IM10 / IM10H IM20 / IM20H
Number of vertical mod.	6	3	3
Modular rail	—	—	—
Mounting plates	—	—	—
Front plates with cut-outs	—	—	—
Characteristics	Installation in the device compartment	—	—

Mounting	Vigirex	Acti 9	
			
Devices			
	RH10/RH21/RH99/RH197M relays	Lamps, pushbuttons	Ammeter, voltmeter
Number of vertical mod.	3	2	3
Modular rail	—	—	—
Mounting plates	—	—	—
Front plates with cut-outs	—	—	—
Blanking strip	—	—	—
plate divisible	—	—	—
Characteristics	Installation in the device compartment	—	—

⁽¹⁾ Control devices should be connected to control circuit up to 415 V.⁽²⁾ For 72 x 72 mm cases > page C-36.⁽³⁾ Only for flush-mounted versions of PM5000 series and PM8000 series.⁽⁴⁾ Only for remote-display versions of PM5000 series and PM8000 series.

Cubicles

Contents

Enclosures

Cover panels	C-42
Cubicles	
Frameworks	C-45

Dimensions

Cubicles	C-47
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Enclosures

Cubicles	
IP31	C-52
IP55	C-55
Plinth	C-57
Cubicle handling and Lifting reinforcement kit	C-58
Installation accessories	C-59
Front plate accessories	C-61

Others

Reserve space	C-62
Fixing accessories	C-63
Universal adapter	
Mounting on a plain backplate	C-64
Others devices	
Mounting on a slotted plate - Mounting on a modular rail	C-65
Cable running	C-66
Connection accessories	
Cable-tie supports, lateral and longitudinal cross-members	C-67
Door handles and locks	C-68
Ventilation accessories	
Heat	C-69

Cover panels

Enclosures

600 mm deep switchboard

For switchboards with front connections.

■ Front panels

- One of the following must be installed in front of the hinged front plate frame support:

- A plain door
- A transparent door

■ Rear panels = screw-on panels

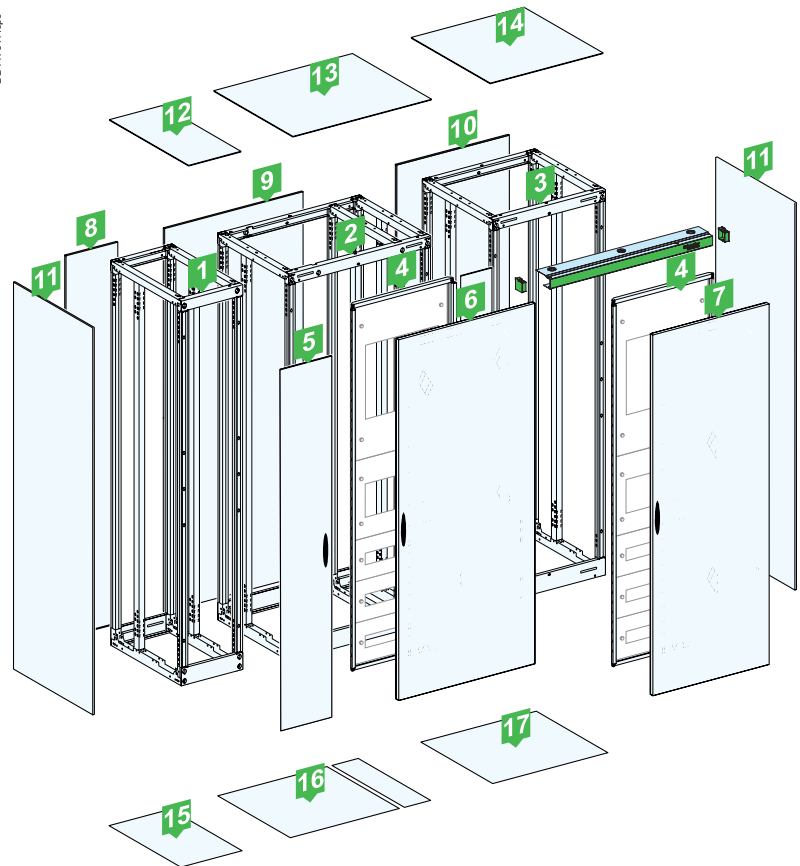
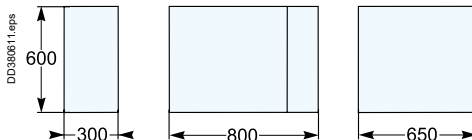
■ Side panels = screw-on panels

■ Plain roof

■ Gland plates (plain or in two parts)

Parts list:

- 1 LVS08603: Framework, W = 300, D = 600, H = 2000
- 2 LVS08607: Framework, W = 800 ⁽¹⁾, D = 600, H = 2000
- 3 LVS08606: Framework, W = 650, D = 600, H = 2000
- 4 LVS08566: Front plate frame support, W = 650
- 5 LVS08523: Plain door, W = 300
- 6 LVS08528: Plain door, W = 800 (supplied with barrier for busbar compartment, W = 150)
- 7 LVS08526: Plain door, W = 650
- 8 LVS08743: Rear panel, W = 300 (screw-on panel)
- 9 LVS08748: Rear panel, W = 800 (screw-on panel)
- 10 LVS08746: Rear panel, W = 650 (screw-on panel)
- 11 LVS08765: Set of two side panels, D = 600 (screw-on panels)
- 12 LVS08653: Plain roof, W = 300, D = 600 (screw-on panel)
- 13 LVS08658: Plain roof, W = 800, D = 600 (screw-on panel)
- 14 LVS08656: Plain roof, W = 650, D = 600 (screw-on panel)
- 15 LVS08683: Plain gland plate, W = 300, D = 600
- 16 LVS08687: Plain gland plate, W = 800, D = 600
- 17 LVS08686: Plain gland plate, W = 650, D = 600.



(1) (650+150) or (150+650).

Cover panels

Enclosures

800 mm deep switchboard

Made up of two cubicles back-to-back.

Rear connections are possible.

■ Front panels

- One of the following must be installed in front of the hinged front plate frame support:

- A plain door
- A transparent door

■ Rear panels = screw-on panels

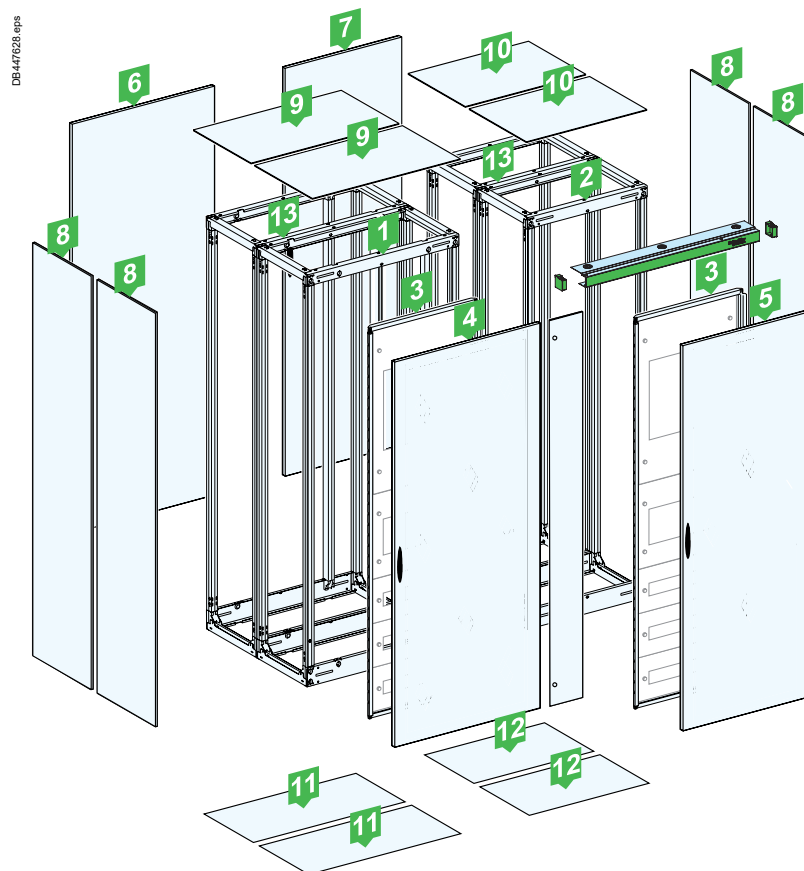
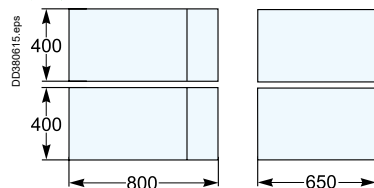
■ Side panels = screw-on panels

■ Plain roof

■ Gland plates (plain or in two parts)

Parts list:

- | | |
|-------------------------|--|
| 1 LVS08407 x 2: | 2 frameworks, W = 800 ⁽¹⁾ , D = 400, H = 2000 |
| 2 LVS08406 x 2: | 2 frameworks, W = 650, D = 400, H = 2000 |
| 3 LVS08566: | Front plate frame support, W = 650 |
| 4 LVS08528: | Plain door, W = 800
(supplied with barrier for busbar compartment, W = 150) |
| 5 LVS08526: | Plain door, W = 650 |
| 6 LVS08748: | Rear panel, W = 800 (screw-on panel) |
| 7 LVS08746: | Rear panel, W = 650 (screw-on panel) |
| 8 LVS08755 x 2: | 2 sets of two side panels D = 400 (screw-on panels) |
| 9 LVS08458 x 2: | 2 plain roofs, W = 800, D = 400 (screw-on panels) |
| 10 LVS08456 x 2: | 2 plain roofs, W = 650, D = 400 (screw-on panels) |
| 11 LVS08487 x 2: | 2 plain gland plates, W = 800, D = 400 |
| 12 LVS08486 x 2: | 2 plain gland plates, W = 650, D = 400 |
| 13 LVS08719 x 2: | Double depth combination kit |



(1) (650+150) or (150+650).

Cover panels

Enclosures

1000 mm deep switchboard

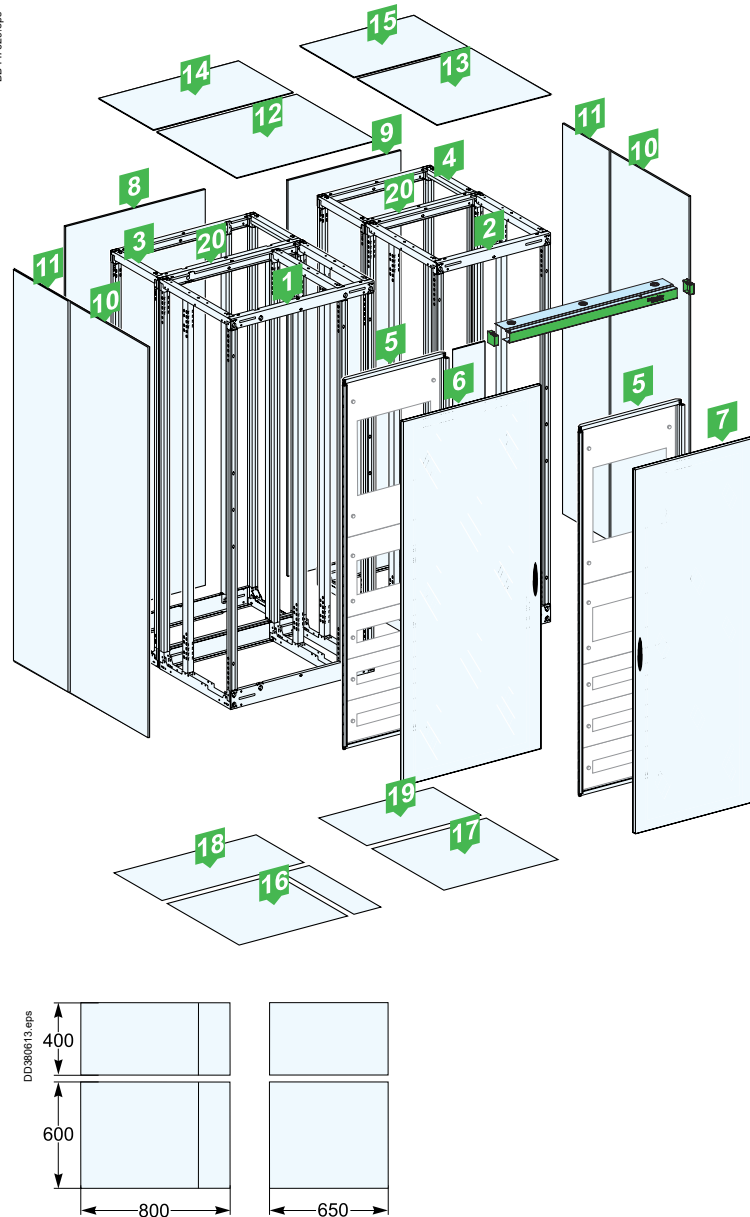
Made up of two cubicles back-to-back.

Rear connections are possible.

- Front panels
 - One of the following must be installed in front of the hinged front plate frame support:
 - A plain door
 - A transparent door
- Rear panels = screw-on panels
- Side panels = screw-on panels
- Plain roof
- Gland plates (plain or in two parts)

Parts list:

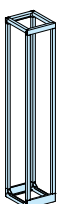
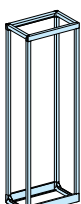
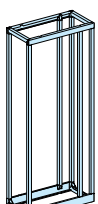
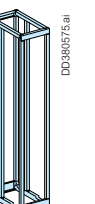
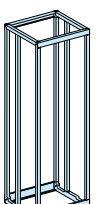
- | | | |
|-----------|---------------|--|
| 1 | LVS08607: | Framework, W = 800, D = 600, H = 2000 |
| 2 | LVS08606: | Framework, W = 650, D = 600, H = 2000 |
| 3 | LVS08407: | Framework, W = 800, D = 400, H = 2000 |
| 4 | LVS08406: | Framework, W = 650, D = 400, H = 2000 |
| 5 | LVS08566: | Front plate frame support, W = 650 |
| 6 | LVS08528: | Plain door, W = 800
(supplied with barrier for busbar compartment, W = 150) |
| 7 | LVS08526: | Plain door, W = 650 |
| 8 | LVS08748: | Rear panel, W = 800 (screw-on panel) |
| 9 | LVS08746: | Rear panel, W = 650 (screw-on panel) |
| 10 | LVS08765: | Set of two side panels, D = 600 (screw-on panels) |
| 11 | LVS08755: | Set of two side panels, D = 400 (screw-on panels) |
| 12 | LVS08658: | Plain roof, W = 800, D = 600 (screw-on panel) |
| 13 | LVS08656: | Plain roof, W = 650, D = 600 (screw-on panel) |
| 14 | LVS08458: | Plain roof, W = 800, D = 400 (screw-on panel) |
| 15 | LVS08456: | Plain roof, W = 650, D = 400 (screw-on panel) |
| 16 | LVS08687: | Plain gland plate, W = 800, D = 600 |
| 17 | LVS08686: | Plain gland plate, W = 650, D = 600 |
| 18 | LVS08487: | Plain gland plate, W = 800, D = 400 |
| 19 | LVS08486: | Plain gland plate, W = 650, D = 400 |
| 20 | LVS08719 x 2: | Double depth combination kit |

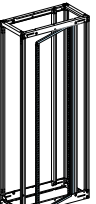


Cubicles

Frameworks

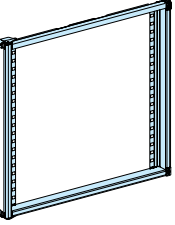
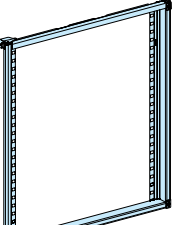
Enclosures

Mounting		Frameworks						
								
	DD380572.ai		DD380573.ai	DD380574.ai	DD380575.ai		DD380576.ai	DD380577.ai
Width (mm)	300	400	650	800 (650 + 150)	300	400	650	800 (650 + 150)
	Depth 400 mm				Depth 600 mm			
Cat. no.	LVS08403	LVS08404	LVS08406	LVS08407	LVS08603	LVS08604	LVS08606	LVS08607
Composition	2 frames							3 frames
	—			+ 2 additional uprights	Equipped with intermediate uprights for the mounting plates.			
	■ 4 cross-pieces ■ Mounting hardware ■ Framework combinations							
Characteristics	■ Cubicles can be combined side-by-side and back-to-back. ■ Can be equipped with screw cover panels. Note: For the 800 mm width, the busbar compartment can be on the left or right.							

Mounting	Hinged front plate frame support	
		
Width (mm)	400	650
Cat. no.	LVS08564	LVS08566 ⁽¹⁾
Characteristics	■ Reversible for left or right-hand opening. ■ Secured at two points. Note: Can be mounted on 650 mm and 800 mm (650 + 150) wide cubicles. (1) For drawout MasterPacT MTZ2, hinged front plate frame support must open towards left-hand side.	

Partial hinged cover-frame supports

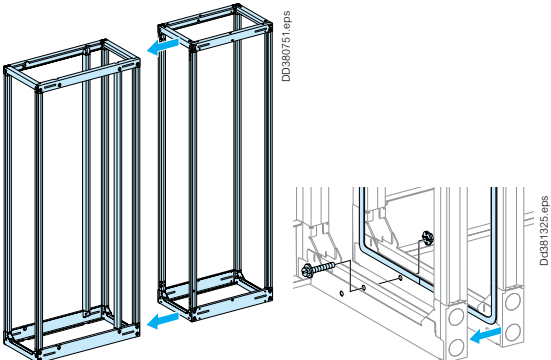
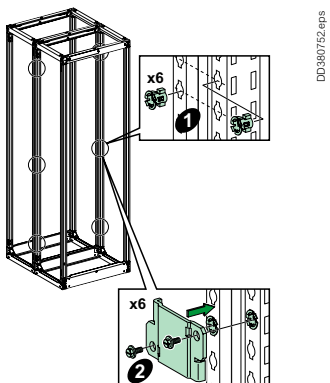
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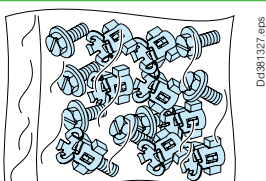
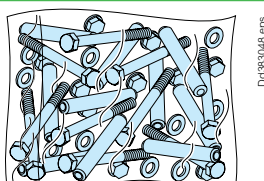
Mounting	Partial hinged cover-frame supports	
		
Width (mm)	650	12 modules
Cat. no.	LVS08560 ⁽¹⁾	LVS08562 ⁽¹⁾
Characteristics	■ For drawout MasterPacT MTZ2. (1) Hinged front plate frame support must open towards left-hand side.	

Cubicles

Frameworks

Enclosures

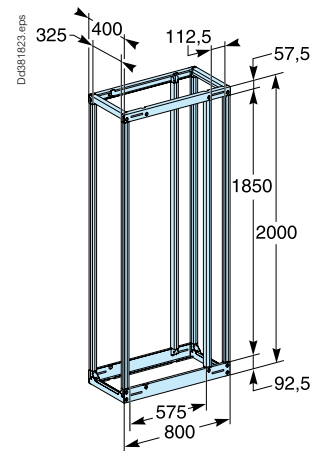
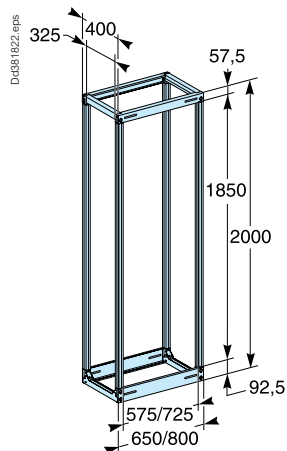
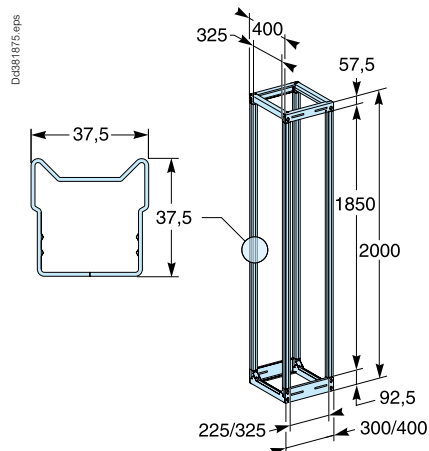
Framework combinations		
		
Type	Side-by-side	Back-to-back
	IP55 sealing kit	Double depth combination kit
Cat. no.	LVS08717	LVS08719
Characteristics	- The 650 and 800 mm wide frameworks are supplied with a combination kit comprising six M6 bolts. - To maintain the IP55 degree of protection, an optional gasket must be installed between the combined cubicles.	The kit is made up of: - A set of hardware for the mechanical connections between the cross-pieces. - Six assembly plates to connect the uprights. - The IP55 sealing kit.

Accessories		
		
Type	Commodities	
	Fixing screws and nuts	
Cat. no.	LVS08921	LVS08718
Characteristics	Set of 20 screws + wing nuts for framework	Set of 10 screws + combination accessories

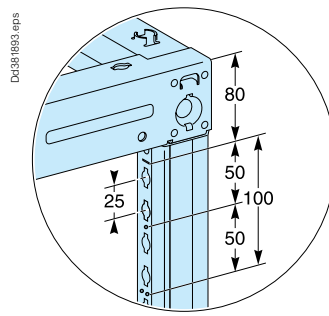
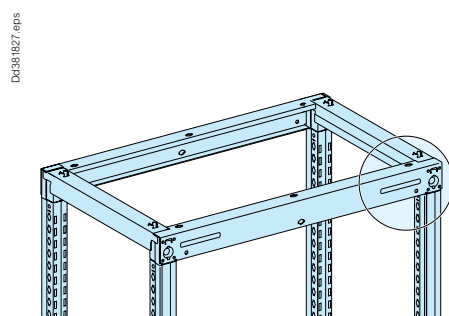
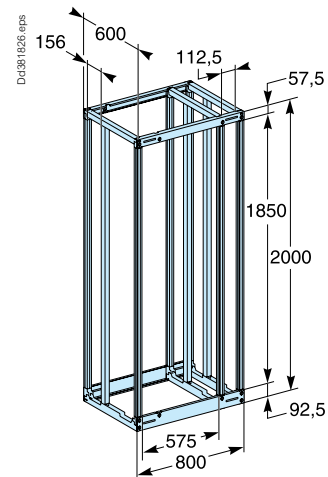
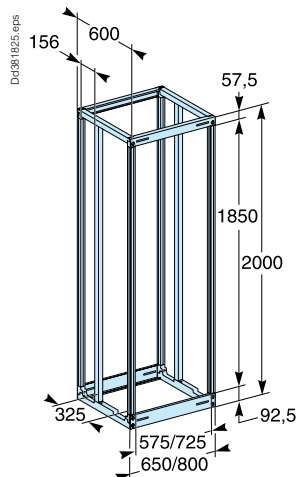
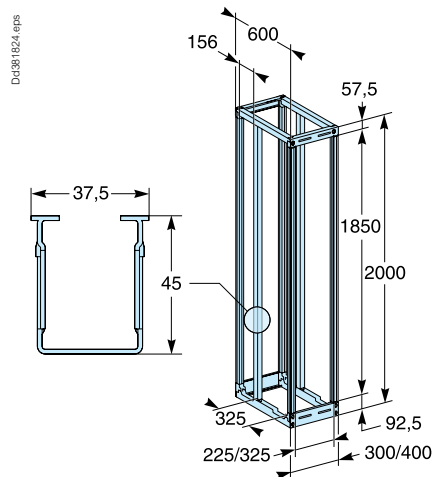
Cubicles

Dimensions (mm)

Frameworks, D = 400 mm

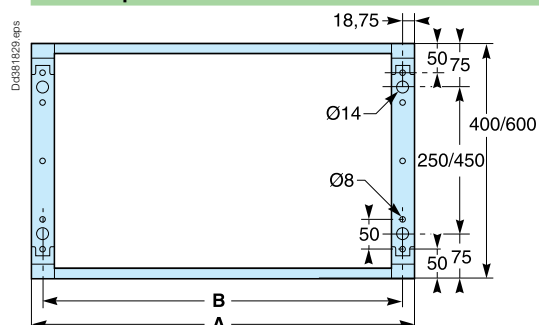


Frameworks, D = 600 mm

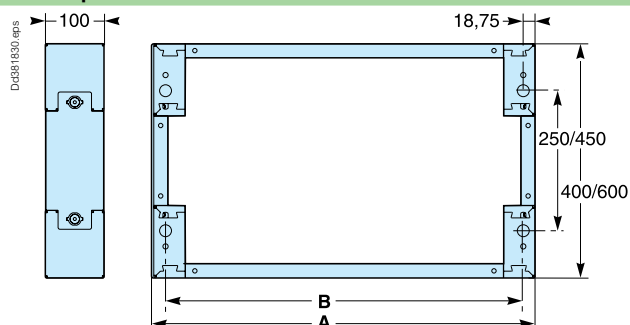


Fixing to floor

Without plinth



With plinth



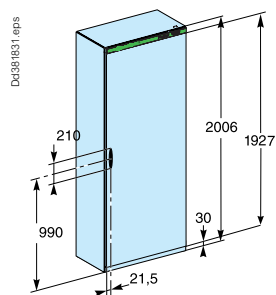
A	B
300	262.5
400	362.5
650	612.5
800	762.5

Cubicles

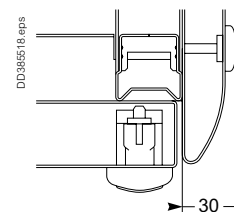
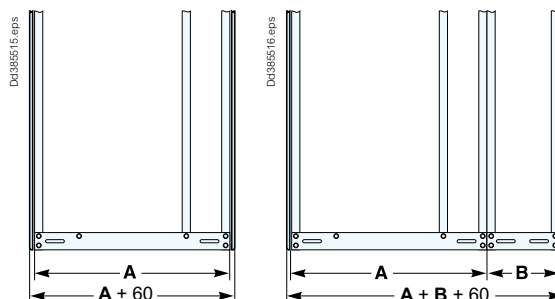
Dimensions (mm)

Cubicle with cover panels

Height

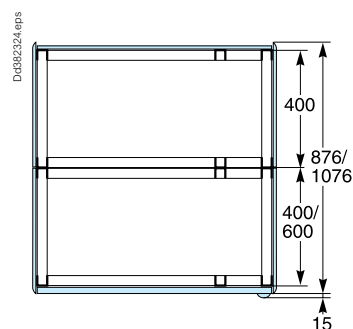
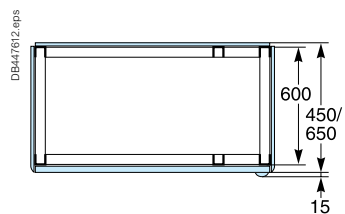


Width

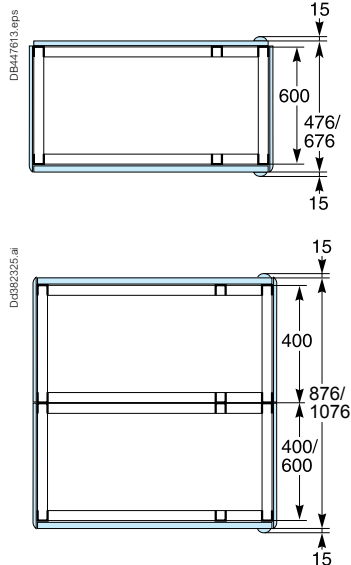


Depth

Door in front and panel in rear

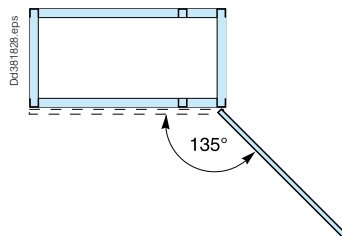
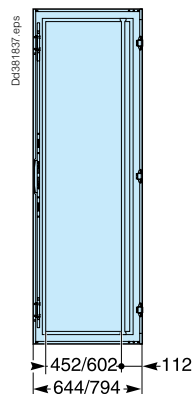
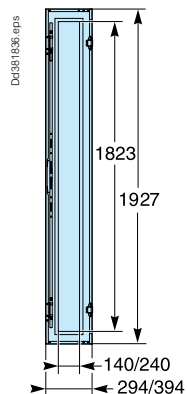


Doors front and rear

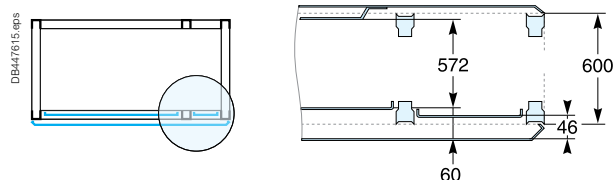


Door

IP31 and IP55 doors

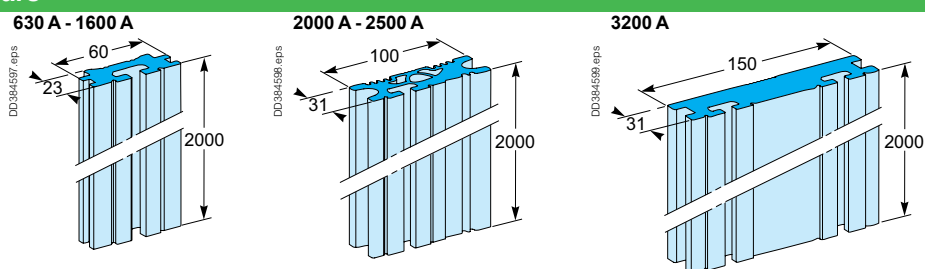


Available space behind door



Dimensions (mm)

Linery LGYE busbars

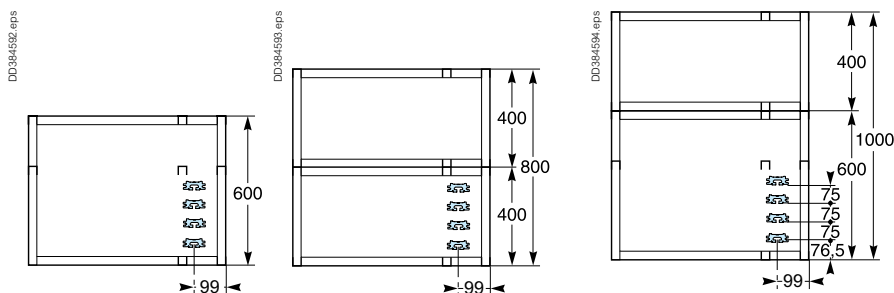


Layout of horizontal Linery LGYE busbars

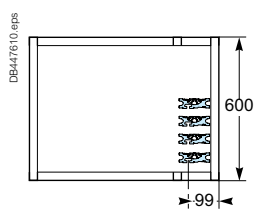


Layout of vertical Linery LGYE busbars

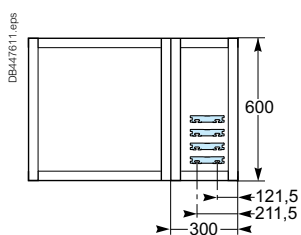
630 A - 1600 A



2000 A - 2500 A



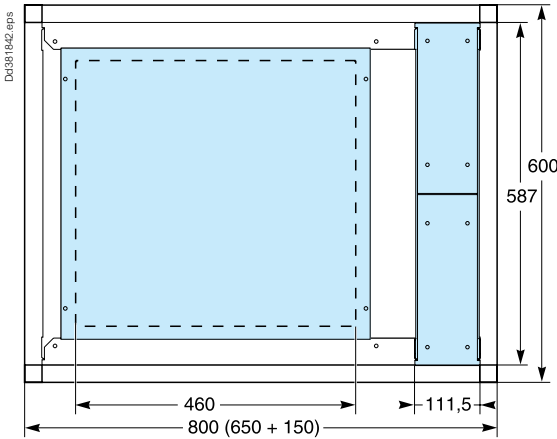
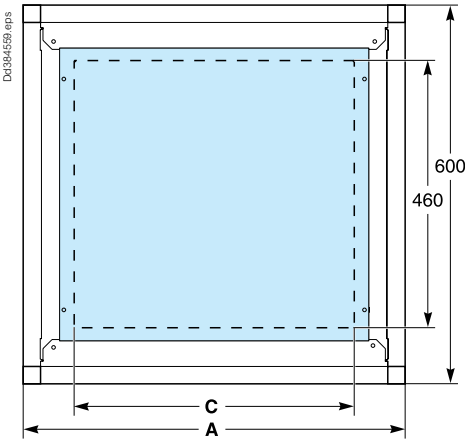
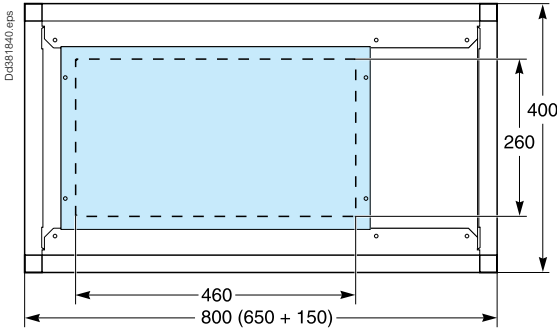
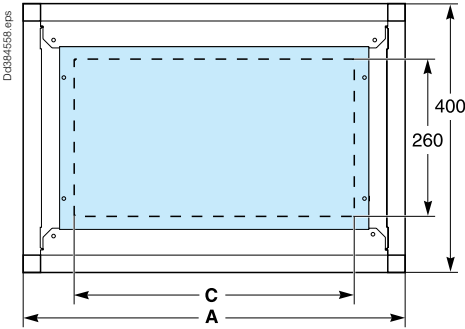
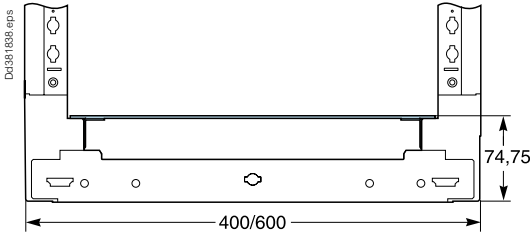
3200 A



Dimensions (mm)

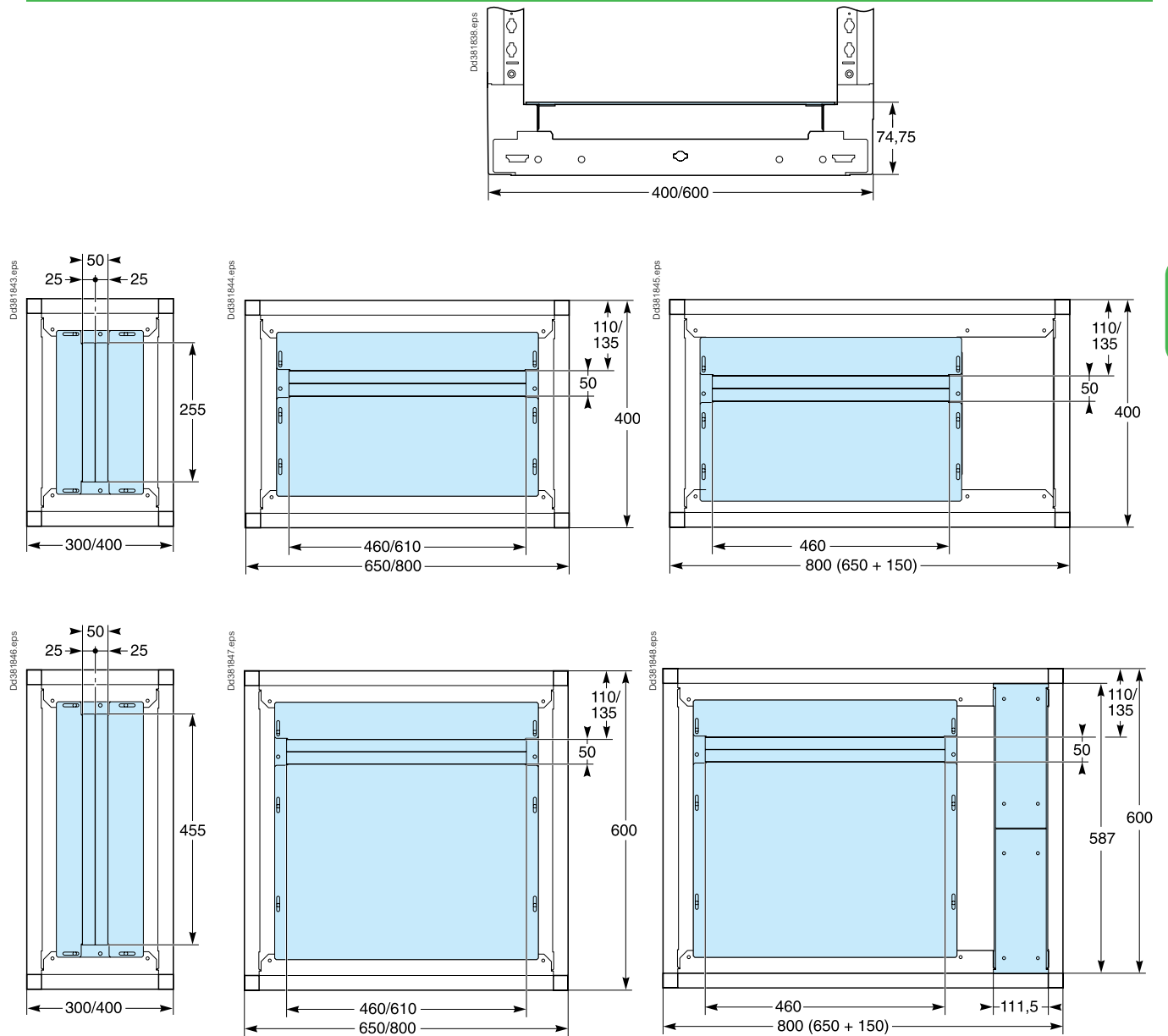
Plain gland plates

A	C
300	110
400	210
650	460
800	610



Dimensions (mm)

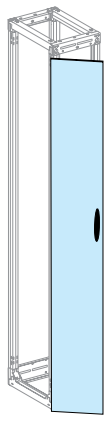
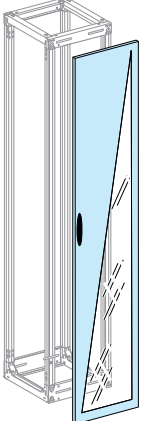
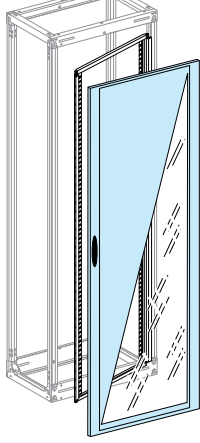
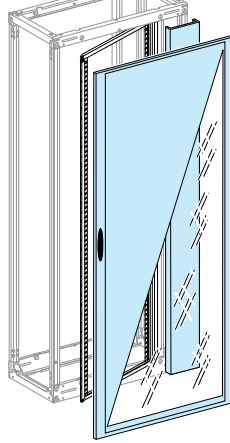
Two-part gland plates

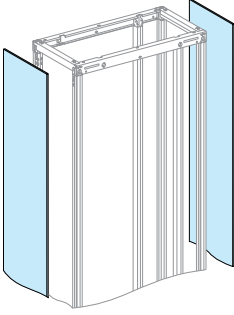


Cubicles

IP31

Enclosures

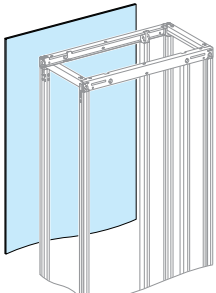
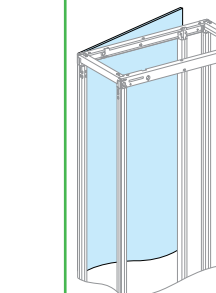
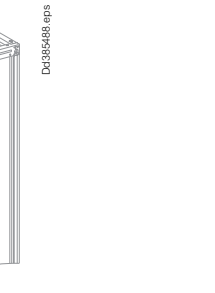
Mounting	Front doors			
	 DD385485 eps	 DD119390 al	 DD119388 al	 DD119389 al
Dimensions (mm)	W = 300	W = 400	W = 650	W = 800
Plain door	LVS08523	LVS08524	LVS01224	LVS01225
Glass door	–	LVS08544	LVS08546	LVS08548
Reinforced door striker	LVS01114 ⁽¹⁾			
Characteristics	■ Equipped with a factory-mounted polyurethane (PUR) gasket, IP55. ■ Reversible for left or right-hand opening. ■ Equipped with a handle and keylock (key 405). For other possibilities > page C-68 . For IP55 rated configurations, front or rear mounted doors, it is necessary to follow the temperature derating tables, to ensure a convenient installation of devices. Note: The 800 mm door is supplied with a 150 mm barrier for the side compartment, plus a finishing accessory to improve the appearance of the upright. (1) Refer to instruction sheet JPT89930 for assembly.			

Mounting	Side panels	
	 DB4417636 eps	
Dimensions (mm)	D = 400	D = 600
Side panels	LVS08755	LVS08765
Characteristics	■ Equipped with a factory-mounted polyurethane (PUR) gasket. ■ Supplied with mounting hardware.	

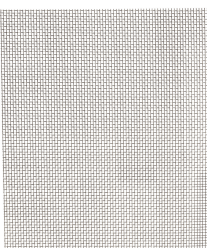
Cubicles

IP31

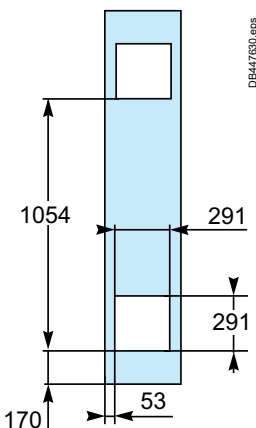
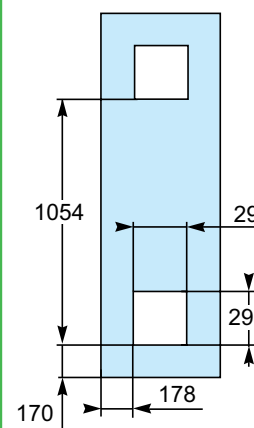
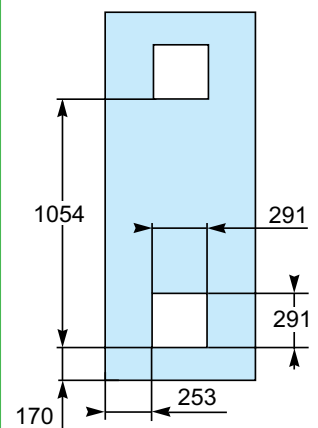
Enclosures

Mounting	Rear panels			
				
Dimensions (mm)	W = 300	W = 400	W = 650	W = 800
Rear panel	LVS08743	LVS08744	LVS08746	LVS08748
Characteristics	■ Equipped with a factory-mounted polyurethane (PUR) gasket. ■ Supplied with mounting hardware. ■ One-piece, reinforced panel designed to ensure the degree of protection.			

C

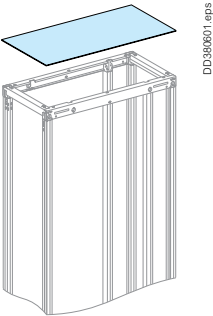
Ventilation accessories	Outlet grill	Filter for outlet grill
		
Catalog numbers	NSYAG291LPP	NSYCAF291M

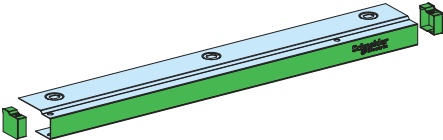
Note: Ventilation grid to be used only for IP31 enclosures.

Cut-outs in rear panels			
			
Dimensions (mm)	W = 400	W = 650	W = 800

Cubicles
IP31

Enclosures

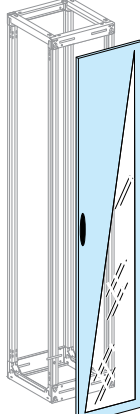
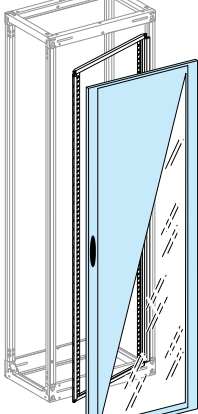
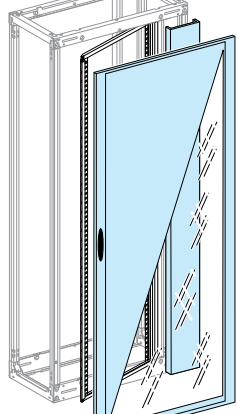
Mounting	Roof			
				
Dimensions (mm)	W = 300	W = 400	W = 650	W = 800
Plain roof D = 400 mm	LVS08453	LVS08454	LVS08456	LVS08458
Plain roof D = 600 mm	LVS08653	LVS08654	LVS08656	LVS08658
Characteristics	■ Equipped with a factory-mounted polyurethane (PUR) gasket. ■ Supplied with mounting hardware. ■ With markings for clear identification of cable-running zones, if necessary.			

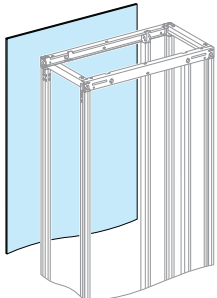
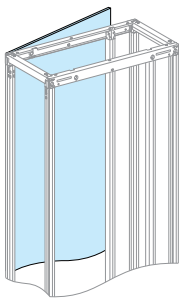
	Green cover to fix on top of each frame			
				
Dimensions (mm)	W = 300	W = 400	W = 650	W = 800
	LVS08640	LVS08641	LVS08642	LVS08643
Characteristics	To cover the top of each section which does not have Voltage Presence Indicator.			

Cubicles

IP55

Enclosures

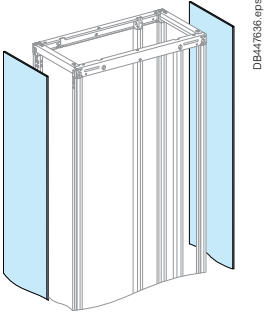
Mounting	Front doors			
				
Dimensions (mm)	W = 300	W = 400	W = 650	W = 800
Plain door	LVS08523	LVS08524	LVS08526	LVS08528
Glass door	–	LVS08544	LVS08546	LVS08548
Reinforced door striker	LVS01114 ⁽¹⁾			
Characteristics	■ Equipped with a factory-mounted polyurethane (PUR) gasket, IP55. ■ Reversible for left or right-hand opening. ■ Equipped with a handle and keylock (key 405). For other possibilities > page C-68. For IP55 rated configurations, front or rear mounted doors, it is necessary to follow the temperature derating tables, to ensure a convenient installation of devices. Note: The 800 mm door is supplied with a 150 mm barrier for the side compartment, plus a finishing accessory to improve the appearance of the upright. (1) Refer to instruction sheet JPT89930 for assembly.			

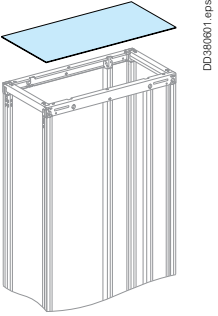
Mounting	Rear panels			
				
Dimensions (mm)	W = 300	W = 400	W = 650	W = 800
Rear panel	LVS08743	LVS08744	LVS08746	LVS08748
Characteristics	■ Equipped with a factory-mounted polyurethane (PUR) gasket. ■ Supplied with mounting hardware. ■ One-piece, reinforced panel designed to ensure the degree of protection.			

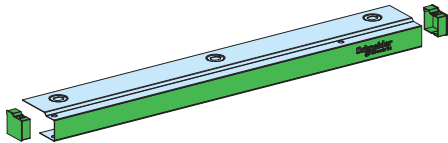
Cubicles

IP55

Enclosures

Mounting	Side panels	
		
Dimensions (mm)	D = 400	D = 600
Side panels	LVS08755	LVS08765
Characteristics	■ Equipped with a factory-mounted polyurethane (PUR) gasket. ■ Supplied with mounting hardware.	

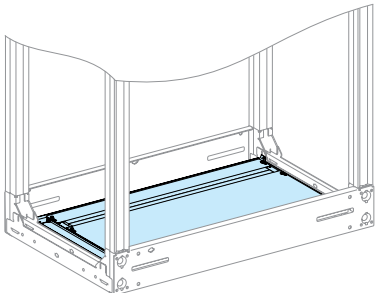
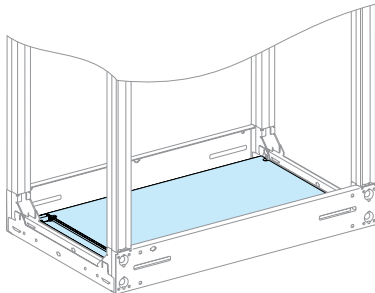
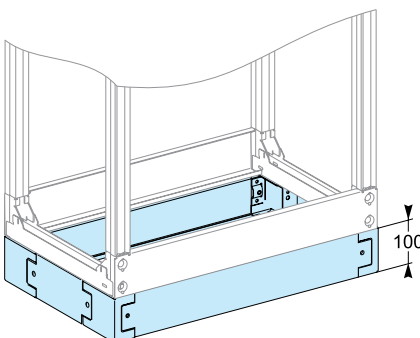
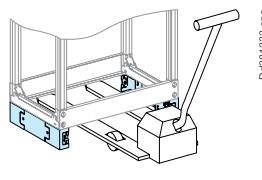
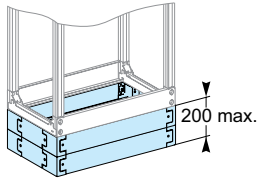
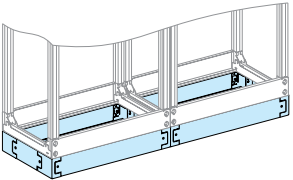
Mounting	Roof			
				
Dimensions (mm)	W = 300	W = 400	W = 650	W = 800
Plain roof D = 400 mm	LVS08453	LVS08454	LVS08456	LVS08458
Plain roof D = 600 mm	LVS08653	LVS08654	LVS08656	LVS08658
Characteristics	■ Equipped with a factory-mounted polyurethane (PUR) gasket. ■ Supplied with mounting hardware. ■ With markings for clear identification of cable-running zones, if necessary.			

	Green cover to fix on top of each frame			
				
Dimensions (mm)	W = 300	W = 400	W = 650	W = 800
	LVS08640	LVS08641	LVS08642	LVS08643
Characteristics	To cover the top of each section which does not have Voltage Presence Indicator.			

Cubicles

Plinth

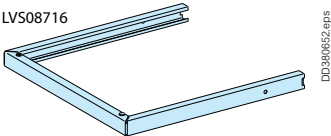
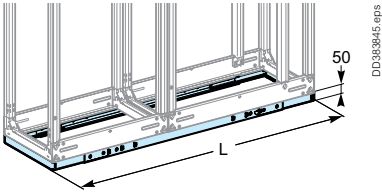
Enclosures

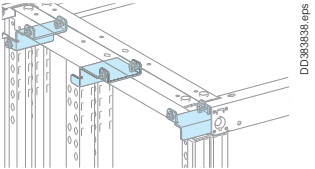
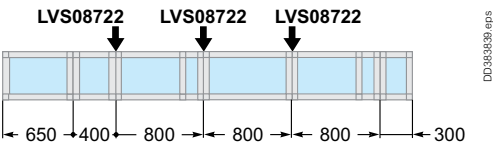
Mounting	Two-part gland plates		IP55, gland plates			
						
Degree of protection	IP30/IP31		IP55			
Dimensions (mm)	D400	D600	D400	D600		
W = 300	LVS08493	LVS08693	LVS08483	LVS08683		
W = 400	LVS08494	LVS08694	LVS08484	LVS08684		
W = 650	LVS08496	LVS08696	LVS08486	LVS08686		
W = 800 (650 + 150)	LVS08497	LVS08697	LVS08487	LVS08687		
W = 800	LVS08498	LVS08698	LVS08488	LVS08688		
Mounting	Plinth H = 100 mm					
						
Dimensions (mm)	W = 300	W = 400	W = 650	W = 800	D = 400	D = 600
Four corner posts + two cross-pieces (front and rear)	LVS08723	LVS08724	LVS08726	LVS08728	–	–
Two side plates	–	–	–	–	LVS08720	LVS08721
Characteristics	The plinth is made up of two catalog numbers: ■ One catalog number comprising four corner posts + two cross-pieces (front and rear), that can be used in side-by-side combinations or stacked to form a plinth 200 mm high (maximum). ■ One catalog number comprising two side plates (400 or 600 mm). Each Catalog number is supplied with the necessary hardware.					
Examples	 Side-by-side combination of two cubicles with a plinth. Two stacked plinths. The front and rear cross-pieces can be easily removed for a pallet-mover.					
 TIP OVER HAZARD • Read and apply user instructions before work: • Secure the product in place. • Secure the product if removing the securing bolts or moving the product. • Use appropriate lifting equipment. • Use trained personnel only, who know and understand the user instructions. Failure to follow these instructions can result in death, serious injury, or product damage.						

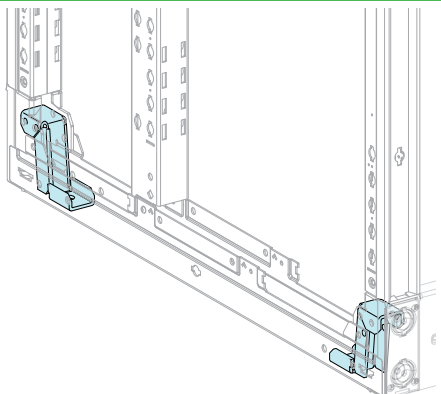
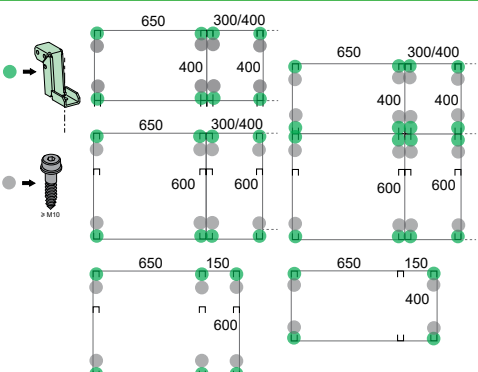
Cubicles

Cubicle handling and lifting reinforcement kit

Enclosures

Mounting	Cubicle handling and rolling base				
					
Dimensions (mm)	D = 400	D = 600	L1200 to L1900	L2000 to L2550	L2650 to L3050
2 cubicle handling base end-pieces	LVS08714	LVS08716	—	—	—
Cubicle handling	—	—	LVS08705	LVS08706	LVS08707
Characteristics	This type of base is designed to avoid any risk of cubicle deformation during transport and handling. Five different catalog numbers offer 27 width possibilities (1200 to 3050 mm) for 400 and 600 mm deep cubicles. - Two catalog numbers each include 2 end-pieces for handling bases for 400 and 600 mm deep cubicles respectively and the corresponding mounting hardware. - Three catalog numbers each include 2 lengths for the sides of handling bases for 1200 to 3050 mm wide cubicles respectively and the corresponding mounting hardware. Handling bases can be used for both side-by-side and back-to-back cubicle combinations. In this case, the mounting hardware for one of the sets is used.				

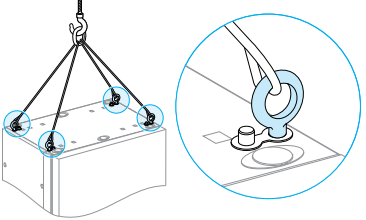
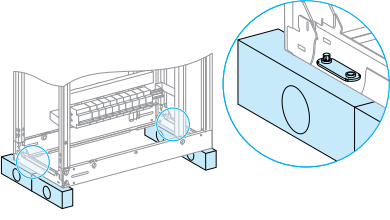
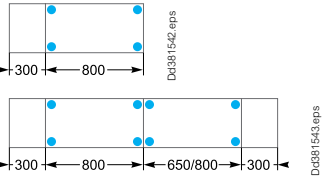
Mounting	Lifting reinforcement kit	
	 	
Dimensions (mm)	D = 400, D = 600	
Lifting reinforcement kit	LVS08722	
Characteristics	Kit LVS08722 is recommended for lifting combined cubicles and can be used together with handling base end-pieces LVS08714 or LVS08716 for severe transport or handling conditions. Catalog number LVS08722 includes 3 reinforcement brackets for 400 or 600 mm deep cubicles and the corresponding mounting hardware.	

Mounting	Seismic Kit	
	 	
	Foot part to be added in each bottom angle to reinforce the structure.	
Reinforcement bracket	LVS08710	
Characteristics	Catalog number ref LVS08710 includes 1 reinforcement bracket and 4 M6 screws. Plinths are not allowed with seismic kits.	

Type of cubicle	W300		W400		W650		W650 + W150	
	D = 400	D = 600	D = 400	D = 600	D = 400	D = 600	D = 400	D = 600
Framework	LVS08403	LVS08603	LVS08404	LVS08604	LVS08406	LVS08606	LVS08407	LVS08607
Reinforcement bracket	LVS08710 x 4		LVS08710 x 4		LVS08710 x 4		LVS08710 x 4	LVS08710 x 6
Longitudinal cross men	LVS08773		LVS08774		LVS03587 x 2		LVS03587 x 2	
Lateral cross member	LVS03584 x 2	LVS03584 x 2 + LVS03586 x 2	LVS03584 x 2	LVS03584 x 2 + LVS03586 x 2	LVS03584 x 2	LVS03584 x 2 + LVS03586 x 2	LVS03584 x 2	LVS03584 x 2 + LVS03586 x 2
M10 screw (not supplied)	4	4	4	4	4	4	4	6

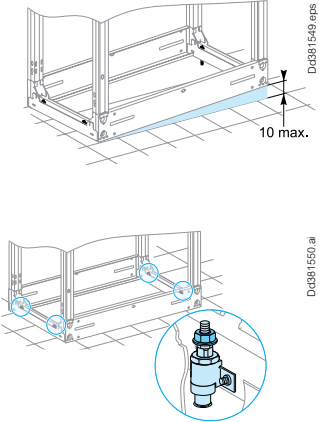
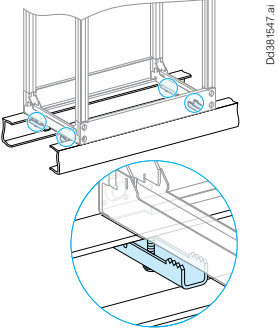
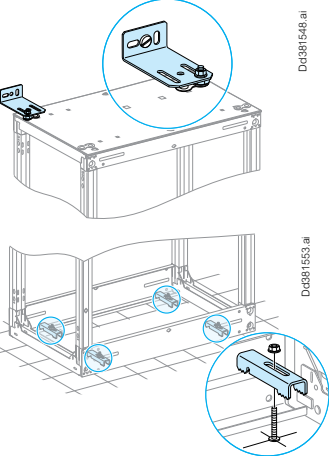
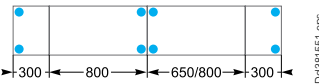
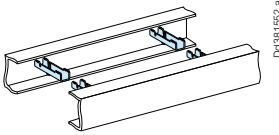
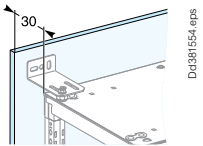
Installation accessories

Enclosures

Mounting	Lifting rings	Framework stabiliser kit
	 Doc81541.ai ⚠ WARNING HAZARD OF DROPPING • Use strong slings with a valid use-by date when lifting with cranes. • Attach the slings to the 4 lifting rings of the cubicles. • For combined units, use lifting beam and slings for lifting. • Secure the plinth of floor standing enclosure using the fasteners. Failure to follow these instructions can result in death, serious injury, or equipment damage.	 Doc83946.ai
Cat. no.	LVS08700	LVS08701
Characteristics	■ Set of four lifting rings screwed to the framework. ■ Use a set of lifting rings for each framework (W = 650 and 800 mm) containing devices. ■ When two cubicles with devices have been combined, use a lifting beam. ■ Can be installed and removed without removing the roof ■ Even if they are left attached, the switchboard conserves its original degree of protection.  Positions of the lifting rings for two combined cubicles containing devices. In this case, a lifting beam must be used.	■ Made up of four blocks under the framework. ■ Suitable for all types of cubicles, whatever the width and depth. ■ Increases the stability of the cubicle during mounting of devices. ■ Makes possible cubicle handling using a pallet mover or a forklift. ■ Protects the front, side and rear cover panels during handling. ■ Can be reused.

Installation accessories

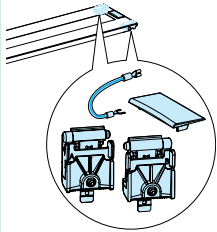
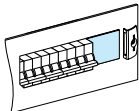
Enclosures

Mounting	Levelling kit	False floor fixing kit	Floor / Wall fixing kit
			 ⚠ WARNING HAZARD OF DROPPING • Use strong slings with a valid use-by date when lifting with cranes. • Attach the slings to the 4 lifting rings of the cubicles. • For combined units, use lifting beam and slings for lifting. • Secure the plinth of floor standing enclosure using the fasteners. Failure to follow these instructions can result in death, serious injury, or equipment damage.
Cat. no.	LVS08702	LVS08703	LVS08704
Characteristics	■ Set of 4 fixtures. ■ Can be installed at any time, even when the cubicle is already in position. ■ Maximum adjustment range = 10 mm. ■ Secures the cubicle to the floor.  Recommended positions of the fixtures for combined cubicles.	■ Made up of four independent clamps. ■ Clamp on: □ "U" sections: H = 175 mm, W = 70 mm □ "I" sections: H = 120 mm, W = 64 mm ■ Clamp travel = 11 mm 	■ Made up of two brackets and four clamps. ■ Can be used to offset the switchboard fixing points for easier access. ■ The wall brackets ensure sufficient wall clearance (at least 30 mm) for natural convection. 

Front plate accessories

Front plate accessories, blanking plates

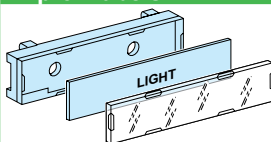
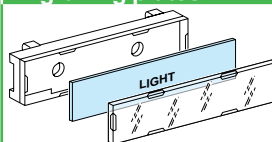
Enclosures

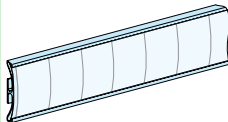
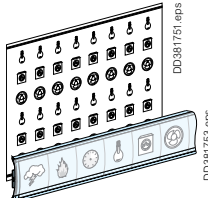
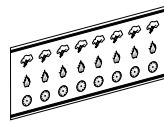
Used for	Front plate hinge kit	Blanking plates	
	 DD383950.eps	 DD384029.eps	
Cat. no.	LVS08585 ⁽¹⁾	For modular devices LVS03220	LVS03221
Characteristics	■ Set of 2 hinges ■ 1 earthing braid	■ Strip ■ H = 46 mm, L = 1 m	■ Divisible ■ Set of 4 ■ H = 46 mm, L = 90 mm ■ White RAL 9003

(1) With a power voltage > SELV (12 V), devices on front plates must be mounted with a front plate hinge kit (cat no. **LVS08585**). The earthing braid must be connected to the front plate frame support (cat no. **LVS08566**, **LVS08564**, **LVS08560**, **LVS08562** or else).

With a power voltage > SELV (12 V) and a supply protection > 16 A, in addition to the preceding rule, the front plate frame support (cat no. **LVS08566**, **LVS08564**, **LVS08560**, **LVS08562** or else) must be connected to the cubicle frame, using an earthing braid (cat no. **LVS08910** or **LVS08911**). (standard NF / EN 61439-1 2011 edition).

Identification labels

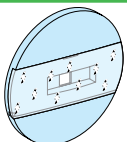
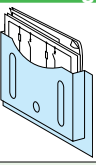
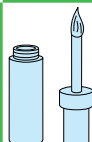
Used for	Clip-on labels			Engraving plates		
	 DD383974.eps			 Dd383975.eps		
Cat. no.	LVS08913	LVS08915	LVS08917	LVS08914	LVS08916	LVS08918
Dimensions (mm)	18 x 35	18 x 72	25 x 85	18 x 35	18 x 72	25 x 85
Characteristics	■ Set of 12 ■ The clip-on support is supplied with a paper label and a transparent cover. ■ It clips onto the front plate horizontally or vertically and can be screwed to any support (plain door, plain front plate, etc.).			■ Set of 12 ■ Simply replace the paper labels.		

Used for	Adhesive labels				Symbol sheets		
	 DD381715.eps				 DD381751.eps DD381753.eps	 DD381752.eps	
Cat. no.	LVS08905	LVS08906	LVS08903	LVS08904	13735	13736	
Dimensions (mm)	24 x 180	36 x 180	24 x 432	36 x 432			
Characteristics	■ Set of 12 ■ The adhesive label holders are supplied with a paper label and a transparent cover.				■ Set of 10 symbol sheets ■ Standard symbols: □ Loads: sockets, lights, heating units, etc. □ Rooms: bedroom, bathroom, etc.		■ Set of 10 symbol sheets ■ Special symbols: □ Loads: lightning arrestor, gate, swimming pool, etc. □ Rooms: technical room, computer room, etc.

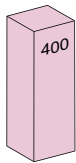
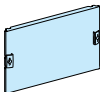
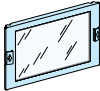
Adhesive labels for mimic diagrams

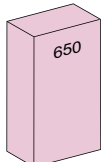
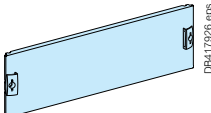
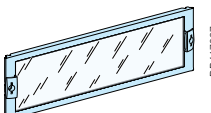
Used for	Lines	Outgoing arrows	Incoming arrows	Transformers
	 x 10	 x 10	 x 10	 x 10
Cat. no.	LVS01005	LVS01006	LVS01007	LVS01008
Characteristics	900 mm long and 7 mm thick			
	Set of 10			

Accessories

Used for	Switchboard identification plate	Drawing holder	Touch-up accessories
	 DD381721.eps	 DD381208.eps	 DD385306.eps
Cat. no.	LVS08900	LVS08963	LVS08961
Characteristics	Color: RAL 9003	Color: RAL 9003	Color: RAL 9003

Reserve space

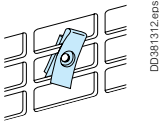
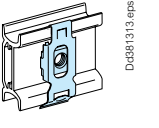
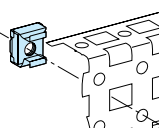
Reserve space								
								
	Plain front plate W = 250 mm							
	H = 50 mm	H = 100 mm	H = 150 mm	H = 200 mm	H = 250 mm	H = 300 mm	H = 450 mm	H = 600 mm
[No. of vertical mod.]	[1]	[2]	[3]	[4]	[5]	[6]	[9]	[13]
Catalog number	LVS03811	LVS03812	LVS03813	LVS03814	LVS03815	LVS03816	LVS03817	LVS03722
								
	Transparent front plate W = 250 mm							
	H = 50 mm	H = 100 mm	H = 150 mm	H = 200 mm	H = 250 mm	H = 300 mm	H = 450 mm	H = 600 mm
[No. of vertical mod.]	–	–	–	[4]	–	[6]	[9]	–
Catalog number	–	–	–	LVS03352	–	LVS03353	LVS03354	–

Reserve space								
								
	Plain front plate W = 500 mm							
	H = 50 mm	H = 100 mm	H = 150 mm	H = 200 mm	H = 250 mm	H = 300 mm	H = 450 mm	H = 600 mm
[No. of vertical mod.]	[1]	[2]	[3]	[4]	[5]	[6]	[9]	[12]
Catalog number	LVS03801	LVS03802	LVS03803	LVS03804	LVS03805	LVS03806	–	LVS03808
								
	Transparent front plate W = 500 mm							
	H = 50 mm	H = 100 mm	H = 150 mm	H = 200 mm	H = 250 mm	H = 300 mm	H = 450 mm	H = 600 mm
[No. of vertical mod.]	–	–	–	[4]	–	[6]	[9]	[12]
Catalog number	–	–	–	LVS03342	–	LVS03343	LVS03344	LVS03345

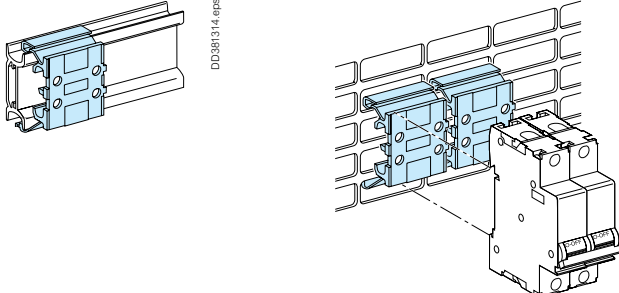
Fixing accessories

Others

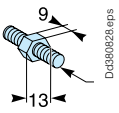
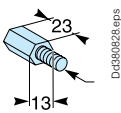
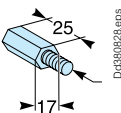
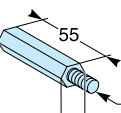
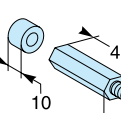
Clip-nuts

Mounting	For slotted mounting plates	For modular rails	For lateral and longitudinal cross-members
	 DD381312 eps	 DD381313 eps	 DD381612 eps
M4	LVS03180	LVS03164	—
M5	LVS03181	LVS03165	—
M6	LVS03182	LVS03166	LVS03194
Characteristics	■ Set of 20 ■ Mounting of various devices	■ Set of 20 ■ Mounting of various devices	■ Set of 20 ■ Mounting in cubicles

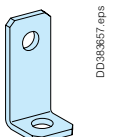
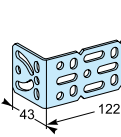
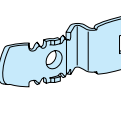
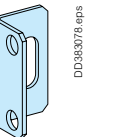
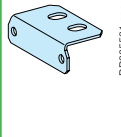
Pratic raiser

Raiser	
	 DD381314 eps DD381576 eps
Catalog number	LVS04224
Characteristics	■ Set of 5 ■ Height 10 mm, wide 27 mm ■ Color: RAL 9003, insulating material

Hexagonal spacers

Hexagonal spacers					
	 DD380828 eps	 DD380828 eps	 DD380828 eps	 DD380828 eps	 DD380828 eps
M5	LVS03185	LVS03186	—	LVS03187	—
M6	LVS03195	LVS03196	LVS03198	LVS03197	—
M8	—	—	—	—	LVS03199
Characteristics	Height: 9 mm Set of 4	Height: 23 mm Set of 4	Height: 25 mm Set of 4	Height: 55 mm Set of 4	Height: 40 + 10 mm Set of 4

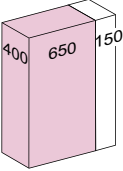
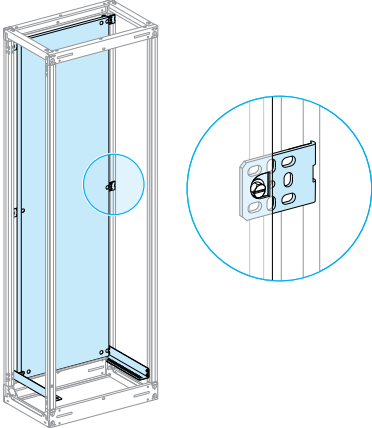
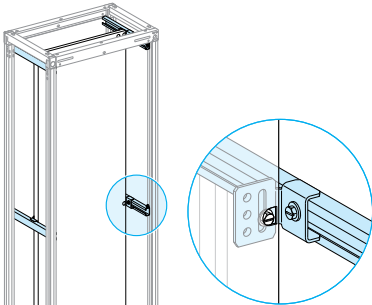
Universal angle brackets

Universal angle brackets				
	 DD383657 eps	 DD381577 eps	 DD382820 eps	 DD383078 eps
Catalog number	LVS03580	LVS03581	LVS03582	LVS03583
Characteristics	Set of 4 + vis	Set of 2	6 universal inserts	Set of 6
				 DD385531 eps
				LVS04667
				Set of 2

Universal adapter
Mounting on a plain backplate

Others

Mounting on a plain backplate

Mounting	Plain backplate		Slide rails + angle brackets
			
Catalog number	LVS03570	LVS03569	LVS03593
Characteristics	36 modules 510 mm wide for installation in a device compartment W = 650 mm or W = 800 mm (650 + 150).	36 modules 660 mm wide for installation for a cubicle W = 800 mm.	Set of 2 for the installation and depth adjustment.

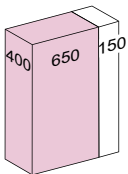
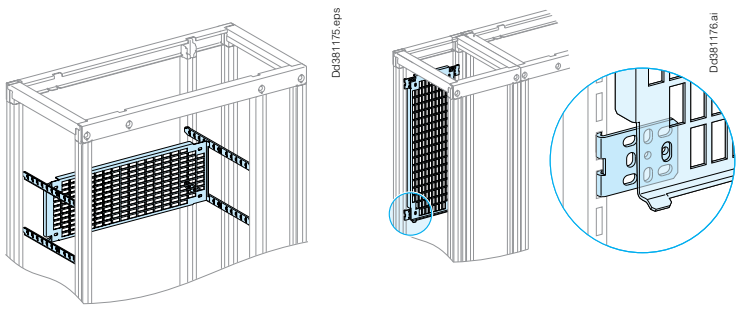
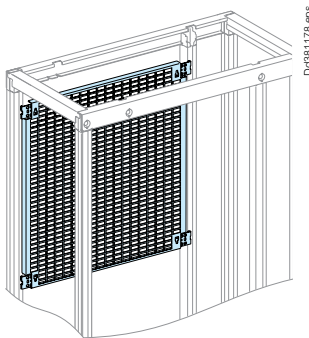
Others devices

Mounting on a slotted plate

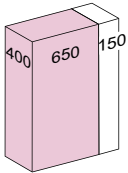
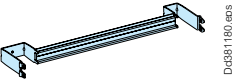
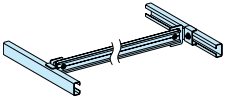
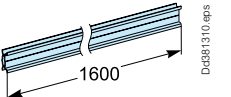
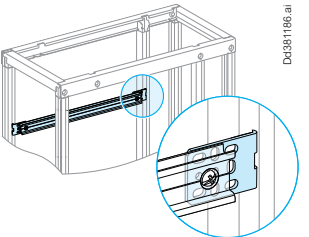
Mounting on a modular rail

Others

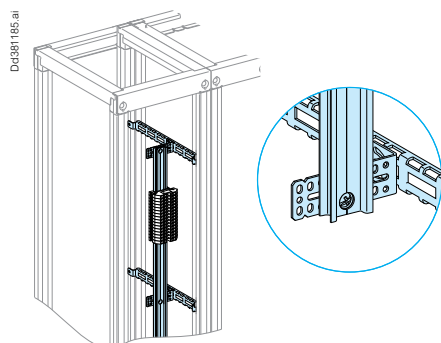
Mounting on a slotted plate

Mounting	Slotted mounting plates + lateral cross-members		Slotted mounting plate without lateral cross-members
			
Catalog number	LVS03571	LVS03572	LVS03574
Number of vertical modules	4	6	12
Height (mm)	200	300	600
2 universal angle brackets	–	2 x LVS03581	–
Characteristics	Installation ■ Either in the device zone on the four lateral cross-members (depth adjustment is possible). ■ Or vertically at the rear of a cable compartment, W = 300 mm (LVS03571) or W = 400 mm (LVS03572).		■ Galvanised, slotted metal mounting plate. ■ Supplied with four angle brackets, they connect directly to the rear of a framework, W = 650 mm or 800 mm (650 + 150 mm). ■ The mounting plate can also be installed using two sets of two slide rails (LVS03593 x 2) for depth adjustment.

Mounting on a modular rail

Mounting	Modular rails			Modular rail W = 650 mm
				
Catalog number	LVS03401	LVS03402	LVS04226 ⁽¹⁾	LVS03590
Characteristics	Useful length: 432 mm	Useful length: 432 mm Modular rail (adjustable)	Set of 2 rails, useful length: 1600 mm with 4 holes, Ø 6.4 mm, 450 mm between centres	W = 650 mm Supplied with two angle brackets for mounting on the framework.

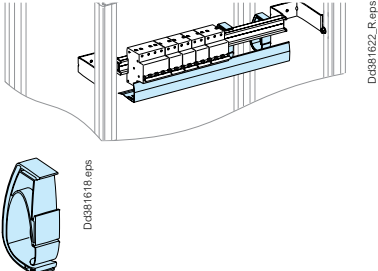
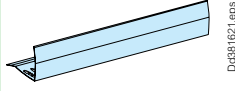
(1) Example of a Linergy busbars installed in a busbar compartment, on a modular rail cat. no. **LVS04226 + LVS03581 + LVS08794**: > page C-84.



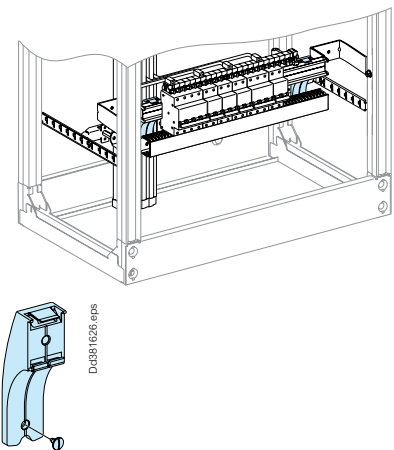
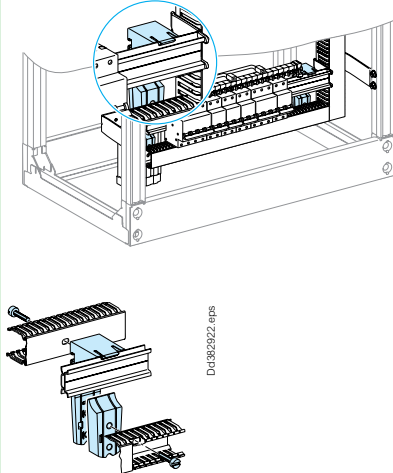
Cable running

Others

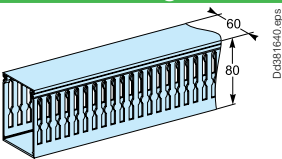
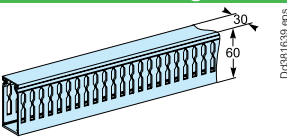
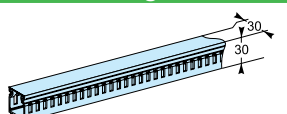
Straps and covers

Type	Horizontal cable straps	Covers for horizontal cable straps
	 DD381622_R.eps DD381618.eps	 DD381621.eps
Catalog number	LVS04239	LVS04243
Characteristics	Set of 12 Horizontal cable straps have the same capacity as 60 x 30 mm trunking.	Set of 4 covers of 430 mm

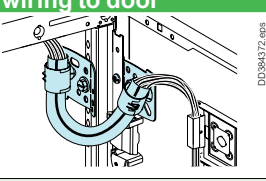
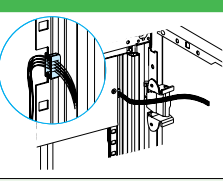
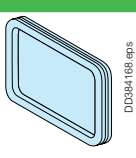
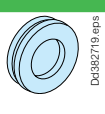
Trunking supports

Type	Horizontal trunking supports	Adaptable support for horizontal trunking
	 DD382320.eps DD381626.eps	 DD382924.eps DD382922.eps
Catalog number	LVS04255	LVS04256
Characteristics	Set of 12	Set of 10 Aligns the cover of a horizontal trunking section (H = 60 or 80 mm) with that of a vertical trunking section (H = 80 mm). Note: Not designed for use with Pack enclosures.

Trunkings

Type	Vertical trunkings 80 x 60 mm	Horizontal trunkings 60 x 30 mm	Cable trunkings for doors 30 x 30 mm
	 DD381640.eps	 DD381639.eps	 DD381641.eps
Catalog number	LVS04267	LVS04257	LVS04233
Characteristics	Set of 18 L = 2000 mm	Set of 4 L = 450 mm Supplied with supports	Set of 30 adhesive trunkings 30 x 30 mm L = 2000

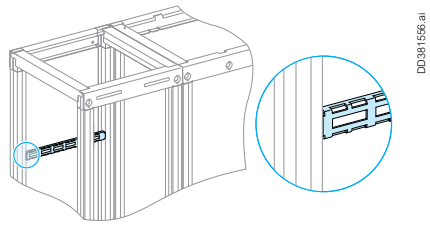
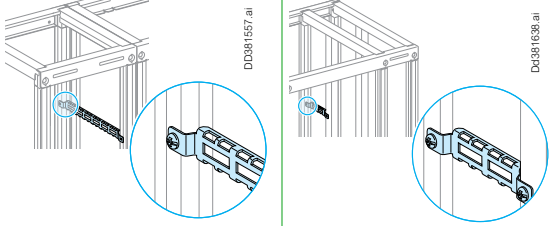
Cable trunkings for doors, grommets

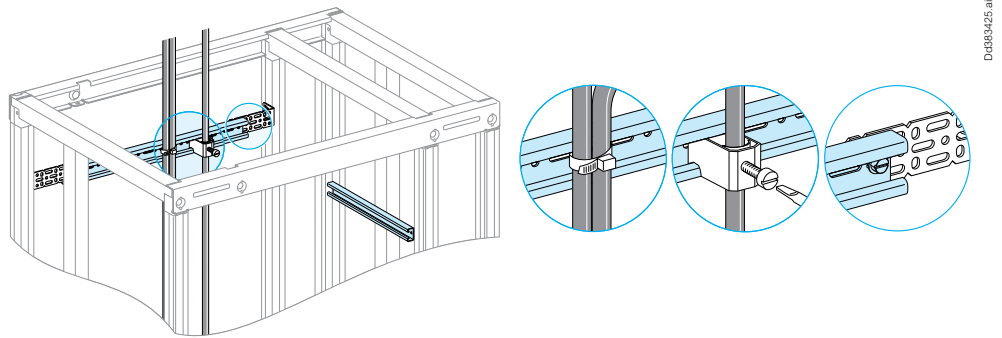
Type	Flexible trunkings for wiring to door	Grommets		
	 DD384372.eps	 DD383653.eps	 DD384168.eps	 DD382719.eps
Catalog number	LVS04235	LVS04234	LVS01215	87648
Characteristics	W = 500 mm, inner Ø = 19 mm	Set of 10 For wiring through front	5 square grommets 70 x 40	50 grommets Ø22 mm

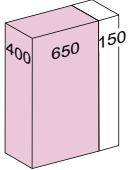
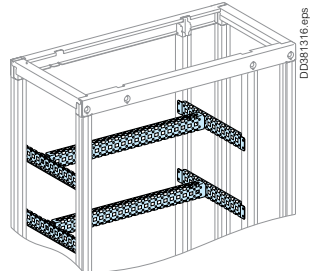
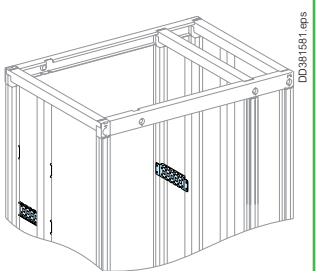
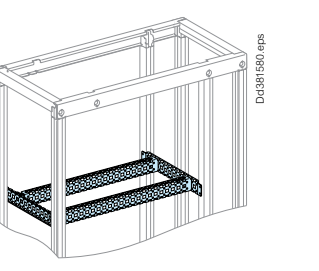
Connection accessories

Cable-tie supports, lateral and longitudinal cross-members

Others

Mounting	Longitudinal cable-tie supports				Lateral cable-tie supports	
						
Catalog number	LVS08773	LVS08774	LVS08776	LVS08778	LVS08794	LVS08796
Characteristics	W = 300 mm	W = 400 mm	W = 650 mm	W = 800 mm	D = 400 mm	D = 200 mm
	Set of 4, supplied with the necessary hardware for connection to the framework. Cable-tie supports are used to correctly position the cables in the connection compartment.				For frameworks that are 400 mm deep, assign a 400 mm deep support to a 200 mm deep support.	

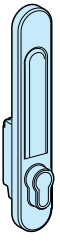
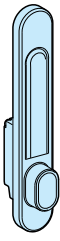
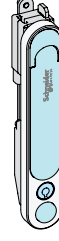
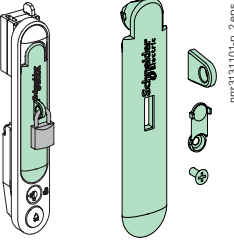
Mounting	C-shaped cable-tie supports
	
Catalog number	LVS08783
Characteristics	C-shaped 1600 mm long support, supplied with hardware for mounting on universal angle brackets and modular rails, that can be cut to length as needed. Can be secured to: ■ Universal angle bracket LVS03581 (for the longitudinal support). ■ Universal angle bracket LVS03582 (for the lateral support). ■ Modular rail LVS03593 (for depth adjustment).

Mounting	Lateral cross-members		Longitudinal cross-members
			
Catalog number	LVS03584	LVS03586	LVS03587
Characteristics	Set of 2 W = 400 mm: for frameworks that are 400 mm deep	Set of 2 W = 200 mm: can be added to the 400 mm crossmembers for frameworks that are 600 mm deep. They can also be installed separately.	Set of 2 W = 650 mm They are connected directly to the framework (W = 650 mm). They can also be mounted on the lateral cross-members.
	Metallics, they offer numerous positioning holes for easier installation.		

Door handles and locks

Handles and padlocking

Others

	EURO handle	ASSA/ABLOY handle	RAL 7016 rotary handle	Padlocking
	 Dd110386 ai	 Dd110387 ai	 nm23131101_1 eps	 nm23131101-p_2 eps
Cat. no.	LVS07932	LVS07933	LVS07931	LVS07938
Characteristics	Supplied without barrel	Supplied without barrel	Supplied with barrel lock (key no. 405) RAL 7016	For new rotary handle

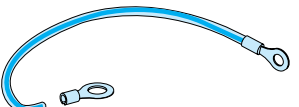
Barrel locks, inserts

The barrel locks and inserts below can mount on all the door handles of PrismaSeT P range after removing the standard barrel lock (key n°405).

Barrels and inserts for rotary handle	
Characteristics	Catalog numbers
 1 key no. 405	LVS07940
 2 keys no. 455	LVS07941
 2 keys no. 1242E	LVS07942
 2 keys no. 3113A	LVS07943
 2 keys no. 2433A	LVS07944
 2 keys no. 2432E	LVS07956
 DIN double bar insert	LVS07945
 Screwdriver slot insert	LVS07946
 Male triangle insert 8 mm	LVS07949
 Male square insert 6 mm	LVS07951
 Male square insert 8 mm	LVS07953

Earthing braid

Earthing braid is used to earth a door or wicket door with devices.

	Earthing braid, 6 mm ²	Earthing wire, 6 mm ²
	 DD384368 eps	 DD384368 eps
Catalog numbers	LVS08910	LVS08911
Characteristics	Equipped with a 4 mm diameter lug at one end and a 6 mm diameter lug on the other. W = 200 mm.	Equipped with a 5 mm diameter lug at one end and a 6 mm diameter lug on the other. W = 200 mm.

Ventilation accessories

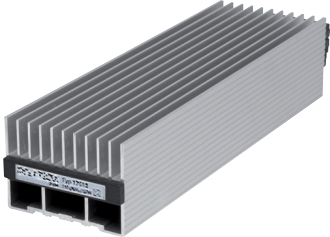
Heat

Others

Resistors

Resistors prevent condensation, corrosion, and superficial leakage currents. They maintain a positive temperature in the enclosures and cubicles when external temperatures drop very low.

- Install heaters according to the desired power level at the bottom of the enclosure.
- Respect a safety area of a least 10 cm around the device.
- The heaters must be installed with a thermal controller to control the temperature or the humidity inside the enclosure.
- The enclosure must be sealed to prevent the entry of air from the outside.
- An electrical protection device must be installed on the supply side of the unit.
- Surface temperature limited to 75 °C when the ambient temperature is -5 °C.
- Heaters equipped with a power cable with a length of 500 mm with silicon insulation, or with a connection terminal block.

	Aluminium PTC resistors					Resistive heaters with fan	
							
	Power cord		Terminal block			Terminal block	
Cat. no.	NSYCR10WU2	NSYCR20WU2	NSYCR55WU2	NSYCR100WU2	NSYCR150WU2	NSYCR250W230VV	NSYCR400W230VV
Power rating (W)	10	25	55	90	150	250	400
Voltage (V)	110-250 AC	110-250 AC	110-250 AC	110-250 AC	110-250 AC	230 AC	230 AC
Characteristics	■ Vertical mounting ■ Aluminium case with fins ■ Temperature: □ Turns off at 60 °C □ Turns on at 25-30 °C (temperature of the resistor itself) ■ Equipped with a symmetrical					■ Vertical mounting ■ Aluminium case with fins ■ Temperature: □ Turns off at 60 °C □ Turns on at 25-30 °C (temperature of the resistor itself) ■ Equipped with a symmetrical	

Thermofan

	Thermofan
	
	Terminal block
Cat. no.	NSYCRP1W230VTVC
Power rating (W)	400/550
Voltage (V)	230 AC
Characteristics	■ Combination of a resistance heater and an axial motor to ensure uniform heating of the enclosure. ■ Fixing by clip on a DIN rail. ■ Thermostat adjustable from 0...+60 °C. ■ Visual operation indicator.

Lineryg Distribution Systems

Contents

Power busbars

Linergy LGYE

Horizontal profiles up to 3200 A

C-72

Lateral profiles up to 3200 A

C-73

Linergy Busbars

Accessories

C-74

Distribution blocks

Linergy DP

Quick distribution blocks - ComPacT NSXm up to 160 A

C-75

Secondary distribution

Insulated flexible bars

C-76

Distribution blocks

Linergy DX

Quick distribution blocks

C-78

Device feeders

Linergy FM

Quick device feeders

C-80

Terminal blocks and lines

Linergy TB

Earth bars

C-82

PE conductors

C-83

Secondary distribution

Linergy TB terminal block support

C-84

Electrical characteristics

Designing connection ≤ 630 A

Auxiliary connections

C-85

Linergy TR

Terminal blocks

C-86

Linergy cable ends

Mounting and cabling accessories

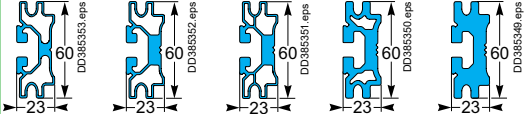
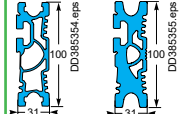
C-88

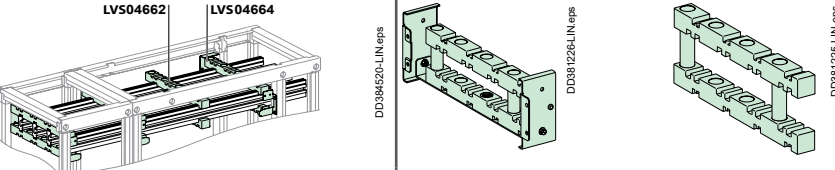
LinerGYE

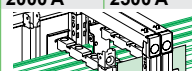
Horizontal profiles up to 3200 A

400 mm deep installation

Power busbars

LinerGYE profiles		Up to 1600 A					Up to 2500 A		Up to 3200 A
Installation									
LinerGYE profiles, 2000 mm length									
Permissible current for an ambient temperature of 35 °C around the switchboard	IP ≤ 31	630 A	800 A	1000 A	1250 A	1600 A	2000 A	2500 A	3200 A
	IP > 31	530 A	680 A	850 A	1050 A	1480 A	1650 A	2100 A	2800 A
Number of profiles per phase		1					3		4
Total number of vertical modules (50 mm)		3					3		4
Catalog numbers		LVS04560	LVS04561	LVS04562	LVS04563	LVS04564	LVS04565	LVS04566	LVS04567

Busbar supports					
					
		Fixed support LVS04664 Free support LVS04662			
Characteristics		Two fixed supports for 650 mm or 650 + 150 mm wide PrismaSeT P frameworks and one fixed support for 300/400 mm wide PrismaSeT P frameworks are mandatory. If more supports are required, use free supports.			
In cubicle W = 650 or W = 650+150 busbar supports 75 mm between centres	Number of supports depending on l _{cw} (kA rms/1 s)	≤ 15	2		
		≤ 25	2		
	≤ 30	≤ 40	2		
		≤ 50	2		
	≤ 60	≤ 65	2+1	2	
		≤ 75	2+1		
	≤ 85	≤ 100	2+1		
				2+3	
	Catalog numbers	Fixed support	LVS04664	LVS04664 + LVS04671 ⁽¹⁾ (hardware)	LVS04664 + LVS04646 ⁽²⁾ (hardware)
		Free support	LVS04662	LVS04662 + LVS04671 ⁽¹⁾ (hardware)	LVS04662 + LVS04646 ⁽²⁾ (hardware)
In cubicle W = 800 busbar supports 75 mm between centres	Number of supports depending on l _{cw} (kA rms/1 s)	≤ 100	2 + 4 ⁽³⁾		
	Catalog numbers	Fixed support	LVS04664	LVS04664 + LVS04671 ⁽¹⁾ (hardware)	LVS04664 + LVS04646 ⁽²⁾ (hardware)
		Free support	LVS04662	LVS04662 + LVS04671 ⁽¹⁾ (hardware)	LVS04662 + LVS04646 ⁽²⁾ (hardware)
	Number of supports depending on l _{cw} (kA rms/1 s)	≤ 60	1		
		≤ 85	1 + 1		
	≤ 100			1 + 1	
	Catalog numbers	Fixed support	LVS04664	LVS04664 + LVS04671 ⁽¹⁾ (hardware)	LVS04664 + LVS04646 ⁽²⁾ (hardware)
		Free support	LVS04662	LVS04662 + LVS04671 ⁽¹⁾ (hardware)	LVS04662 + LVS04646 ⁽²⁾ (hardware)
In duct W = 300 busbar supports 75 mm between centres	Number of supports depending on l _{cw} (kA rms/1 s)	≤ 50	1		
		≤ 85	1 + 1		
	≤ 100			1 + 1	
	Catalog numbers	Fixed support	LVS04664	LVS04664 + LVS04671 ⁽¹⁾ (hardware)	LVS04664 + LVS04646 ⁽²⁾ (hardware)
		Free support	LVS04662	LVS04662 + LVS04671 ⁽¹⁾ (hardware)	LVS04662 + LVS04646 ⁽²⁾ (hardware)
	Number of supports depending on l _{cw} (kA rms/1 s)	≤ 50	1		
		≤ 85	1 + 1		
	≤ 100			1 + 1	
	Catalog numbers	Fixed support	LVS04664	LVS04664 + LVS04671 ⁽¹⁾ (hardware)	LVS04664 + LVS04646 ⁽²⁾ (hardware)
		Free support	LVS04662	LVS04662 + LVS04671 ⁽¹⁾ (hardware)	LVS04662 + LVS04646 ⁽²⁾ (hardware)

Joints									
	Up to 1600 A					Up to 2500 A		Up to 3200 A	
	630 A	800 A	1000 A	1250 A	1600 A	2000 A	2500 A	3200 A	
			DD384535-LIN all			DD384588-LIN eps			DD384615-LIN eps
	LVS04620		LVS04623			LVS04624			
Catalog numbers	3 x LVS04620 (3P) 4 x LVS04620 + LVS04624 (4P)					3 x LVS04621 (3P) 4 x LVS04621 + LVS04624 (4P)		3 x LVS04623 (3P) 4 x LVS04623 + LVS04624 (4P)	
Note	LVS04624 is mandatory in case of jointed 4P Linergy LGYE busbars installations and must be installed only at the junction on side-by-side frameworks combination. When installed at the bottom of cubicles, the busbars must be partitioned.								

(1) LVS04671: mounting hardware for bars or profile H = 100 or 120 mm. Contains 2 threaded rods and 4 insulators.

(2) LVS04646: mounting hardware for bars or profile H = 150 mm. Contains 2 threaded rods and 2 insulators. **Note:** For accessories > page C-74.

(3) It is applicable for W = 800 mm control panel configuration only.

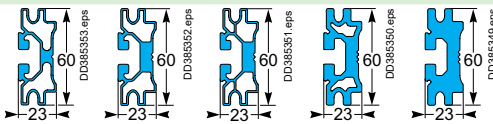
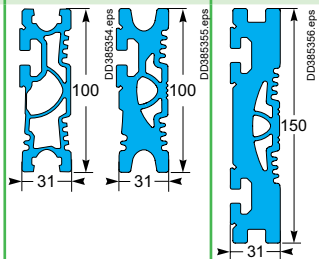
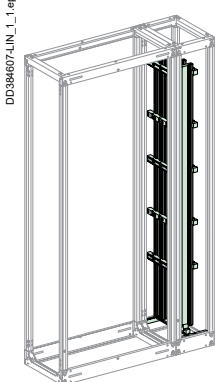
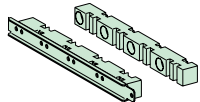
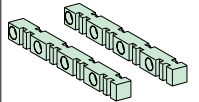
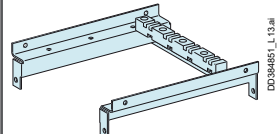
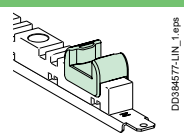
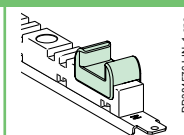
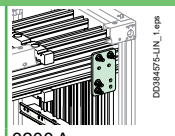
Note: Busbar supports are specified as "fixed + free." The first number indicates fixed supports, and the second number indicates free supports.

Linerogy LGYE

Lateral profiles up to 3200 A

400 mm deep installation

Power busbars

Linerogy LGYE profiles									
		Linerogy profile, 2000 mm length ⁽¹⁾					Linerogy profile, 1625 mm length		
In duct		W150					W150	W300	
Linerogy profile									
		630 A	800 A	1000 A	1250 A	1600 A	2000 A	2500 A	3200 A
Permissible current for an ambient temperature of 35 °C around the switchboard		630 A	800 A	1000 A	1250 A	1650 A	2000 A	2440 A	3200 A
Length to cut for side mounting		1675 mm					—		—
Number of profiles per phase		1							
Catalog numbers		LVS04560	LVS04561	LVS04562	LVS04563	LVS04564	LVS04507	LVS04508	LVS04509
Busbar supports									
									
Characteristics		Attach directly to the framework. Three fixed supports are required to maintain the busbars. If more than three supports are required, use additional free supports. The bottom support maintains the bars in position. It is not considered a busbar support.							
Number depending on I _{cu} (kA _{rms} /1 s)		≤ 30	3						
		≤ 40	—		3+2		3		
		≤ 50	—		3+2		3		
		≤ 60	—		3+2		3		
		≤ 65	—		3+2				
		≤ 75	—		3+4		3+2		
		≤ 85	—		3+4				
		≤ 100	—				3+6		
In duct W150, W = 300 busbar supports 75 mm between centres		Catalog numbers	Fixed support		LVS04661		LVS04661 + LVS04671 ⁽²⁾		LVS04661 + LVS04646 ⁽³⁾
			Free support		LVS04662		LVS04662 + LVS04671 ⁽²⁾		LVS04662 + LVS04646 ⁽³⁾
Busbars chocks									
		Chocks installed on a bottom support LVS04658							
Characteristics		The bottom support maintains the sections in position. It is not considered a busbar support.							
In duct W150, W = 300		Catalog numbers	Bottom support		LVS04663		LVS04666 + LVS04661		
			Chocks		LVS04658		LVS04659		
Connections to the horizontal Linergy LGYE busbars									
		630 to 1600 A						2000 to 2500 A	
		3200 A							
Characteristics		Supplied with mounting hardware. Catalog numbers include 1 connection only: 1 connection per phase.							
Cat. no. according to horizontal busbar size		LVS04602 (straight connection) LVS04603 (shifted connection)				LVS04604 (short connection) LVS04605 (long connection)		LVS04607	

(1) Linergy LGYE profiles up to 1600 A must be cut at the dimension of the cubicle: 1625 mm.

(2) LVS04671: mounting hardware for bars or profile H = 100 or 120 mm. Contain 2 threaded rods and 4 insulators.

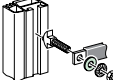
(3) LVS04646: mounting hardware for bars or profile H = 150 mm. Contain 2 threaded rods and 3 insulators.

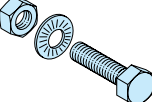
Note: Busbar supports are specified as "fixed + free." The first number indicates fixed supports, and the second number indicates free supports.

Linerogy Busbars

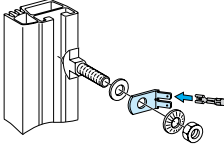
Accessories

Power busbars

Accessories										
	 DD3865360.eps		 DD381219-LIN-15.eps			 DD381222-LIN-10.eps	 DD385409.eps	 DD385409.eps	 DD385302.eps	
	Linerogy connection hardware		Steel flat washers			Brass flat washers	Markers	Screwplate		
Cat. no.	LVS04766	LVS04767	LVS04772	LVS04773	LVS04774	LVS04775	LVS04794	LVS01130	LVS04768	LVS04769
Characteristics	L 25 mm	L 39 mm	20 mm ext. Ø	24 mm ext. Ø	28 mm ext. Ø	20 mm ext. Ø		2 studs	2 studs	3 studs
	Set of 20: 20 bolts + 20 nuts + 20 contact washers, class 8.8. The screws slide into the profile and are then locked in the desired position.		M8 set of 20			M8 sold in lots of 20 for connection of ≤ 25 mm² lugs to Linergy	12 clip-on supports + N, L1, L2, L3, PE, PEN labels	Linerogy LGYE busbars connection kit spare part	Set of 12 flat plates with 2 studs + 24 torque nuts + 24 contact washers. The plates slide along the profile.	Set of 8 flat plates with 3 studs + 24 torque nuts + 24 contact washers. The plates slide along the profile.

M8 bolts		
		
Linerogy BS, 20 bolts class 8.8	Characteristics	Set of 20 bolts + 20 nuts + 40 contact washers
	Catalog numbers	LVS04782
	M8 x 20	LVS04783
	M8 x 25	LVS04784
	M8 x 30	LVS04785
	M8 x 35	LVS04786
	M8 x 40	LVS04787
	M8 x 45	LVS04788
	M8 x 50	LVS04788

Torque nuts		
		
20 M8 torque nuts	Characteristics	Can be used to obtain the correct tightening torque (28 Nm) recommended by the manufacturer, without using a torque wrench. Torque nuts may be used for all electrical connections.
	Catalog numbers	LVS04759

Voltage tap-offs		
		
20 Voltage tap-offs M10 pour 2 clips 6.35	Characteristics	For small lugs (on low-current cables or measurement tap-offs), insert a conducting washer (cat. no. LVS04775) between the busbar and the lug.
	Catalog numbers	LVS04229



Connections on Linergy LGYE and LGY

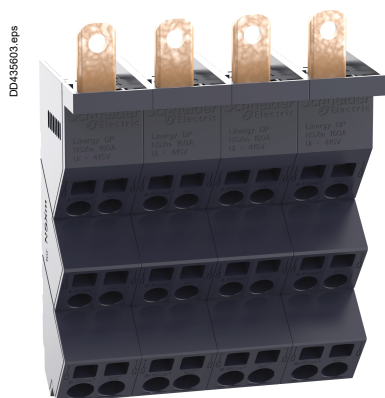
InA (A)		Connecting to Linergy LGYE
0 to 630	Cable - Insulated flexible bars	25 mm Linergy connection hardware used
800 to 1250	5 mm bars	25 mm Linergy connection hardware used
1600 to 2500	5 mm or 10 mm bars	Use of the 2 studs flat plate
3200 to 4000	10 mm bars	Use of the 3 studs flat plate

Note: Joining between 2 busbars (horizontal/vertical or horizontal/horizontal) must be mandatory done with studs plates.

Linerger DP

Quick distribution blocks - ComPacT NSXm up to 160 A

Distribution blocks



IEC 60947-7-1, IEC 61439-1 and 2

Description

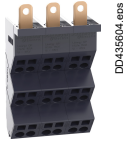
■ The Linergy DP quick distribution block is designed for installation directly downstream of ComPacT NSXm up to 160 A. It can also be clipped onto a modular rail.

Advantages

- It is quick to mount in the horizontal position. Electrical connections are made directly to the device terminals.
- It is the same width as the devices and does not take up any additional space in the switchboard.
- The connection terminals are slanted to facilitate cable entry and avoid exceeding the bending radius of the flexible and rigid cables.

C

Quick distribution blocks for ComPacT devices

Number of poles	3P	4P
		
Rated operational current (Ie)	160 A	160 A
Rated peak withstand current (Ipk)	20 kA	20 kA
Rated short-time current (Icc)	70 kA	70 kA
Thermal stress (I².t)	4.7 x 10⁶ A²S	4.7 x 10⁶ A²S
Total connection capacity, outgoing terminals	18 connections: 4 x 10²/phase 2 x 16²/phase	24 connections: 4 x 10²/phase 2 x 16²/phase
Incomer terminals	1 cable lug 70 mm² per pole	
Dimensions (H x W x D)	140 X 81 X 58 mm	140 X 108 X 58 mm
Installation	On mounting plate or DIN rail	
Product certifications	ASEFA	
Standard for installation inside PrismaSeT	IEC 61439-1-2	
Glow-wire 60695-2-11	960 °C	
Catalog numbers	LVS04038	LVS04039

Technical Data

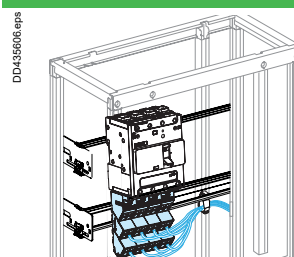
Common characteristics

Rated conditional short-circuit current of an assembly (Isc)	The reinforced breaking capacity due to cascading in circuit-breaker combinations is maintained. The worst-case situations have been tested.
Rated insulation voltage (Ui)	800 V AC
Rated operational voltage (Ue)	690 V AC
Rated impulse withstand voltage (Uimp)	8 kV
Network frequency	50/60 Hz
Degree of protection	IPxxB
Degree of pollution	3
Overvoltage category	III

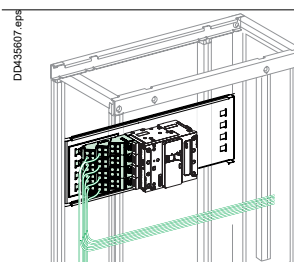
Additional technical characteristics

Reference temperature	40 °C
Operating temperature	-25 °C to 55 °C

Installation



It can also be mounted downstream of vertically mounted **ComPacT NSXm** devices in the enclosures. In this case, the Linergy DP is mounted on a depth-adjustable modular rail.

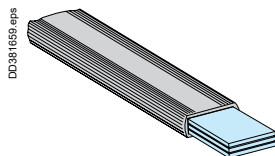


Directly on the mounting plates of horizontally mounted **ComPacT NSXm** devices in the enclosures.

For details on mounting plates, refer > [page C-23](#).

Note: Electrical characteristics > [page C-85](#).

Insulated flexible bars



Secondary distribution

The insulated flexible bars are tested in a type-tested switchboard environment. Their design takes into account the switchboard architecture where they are often in close proximity to a protection device (circuit breaker or fuse) with significant heat losses.

The sizes for the flexible bars indicated below take into account the heat losses of Schneider Electric devices in a PrismaSeT switchboard.

Characteristics

Length	1800 mm
Rated insulation voltage (Ui)	1000 V
Maximum withstand temperature for the insulating material	125 °C

Connection between device and busbars

The flexible bars are determined taking into account the connected device, whatever the internal temperature of the switchboard.

The bar sizes indicated below take into account the derating curves of devices.

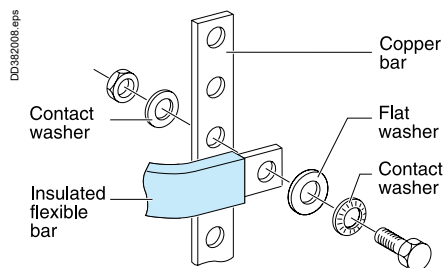
Devices	Size (mm)	Catalog number
NSX100	20 x 2	LVS04742
NSX160/250	20 x 3	LVS04743
NSX400	32 x 5	LVS04751
NSX630	32 x 8 ⁽¹⁾	LVS04753

⁽¹⁾ The insulated flexible bars is not compatible with Form 2 partitioning (LVS04922).

In this case, use the form 2 restoration kit LVS04924 > page C-94.

Insulated flexible bars

Secondary distribution



Connection between busbars

Copper flexible bars are designed for connections between busbars taking into account the following characteristics:

- A maximum temperature of 60 °C inside the switchboard. This corresponds to the average temperature inside a switchboard for an ambient temperature of 35 °C.
- The maximum withstand temperature for the insulating material is 125 °C.

Ie ⁽¹⁾ max	Size (mm)	Catalog numbers
200 A	20 x 2	LVS04742
250 A	20 x 3	LVS04743
400 A	32 x 5	LVS04751
520 A	32 x 5	LVS04751
580 A	32 x 6	LVS04752
660 A	32 x 8	LVS04753

(1) Rated operational current.

Designing connections

> page C-76.

C

Linerger DX

Quick distribution blocks

Distribution blocks



IEC 60947-7-1, IEC 61439-2

Description

- Downstream circuits are connected from the front, to spring terminals.
- Contact pressure automatically adapts to the size of the conductor.
- Contacts are insensitive to vibrations and thermal variations.
- Only one cable (flexible or rigid) can be inserted per terminal.

Quick distribution blocks

Number of poles	4P	
		
Rated operational current at 40° (Ie)	125 A	160 A
Rated conditional short-circuit current of an assembly (Isc)	The reinforced breaking capacity due to cascading in circuit breaker combinations is maintained. The worst-case situations have been tested. 150 kA with upstream protection of 150 kA Icc	
Rated peak withstand current (Ipk)	20 kA	20 kA
Rated insulation voltage (Ui)	750 V AC	750 V AC
Rated operational voltage (Ue)	690 V AC	690 V AC
Rated impulse withstand voltage (Uimp)	8 kV	8 kV
Rated short-time current (Icc)	150 kA	150 kA
Thermal stress (I².t)	2.025 x 10⁷	2.025 x 10⁷
Rated operational frequency	50/60 Hz	50/60 Hz
Degree of protection	IPxxB	IPxxB
Incoming terminals	1 tunnel terminal 35²/phase	Supplied with a prefabricated flexible connection equipped with tunnel terminals (for INS-INV100/160 use adaptor 28947 (3P) 28948 (4P))
Total connection capacity, outgoing terminals	52 connections: 7 x 4²/phase 3 x 6²/phase 2 x 10²/phase 1 x 16²/phase (screw terminal)	52 connections: 7 x 4²/phase 3 x 6²/phase 2 x 10²/phase 1 x 16²/phase (screw terminal)
Dimensions (H x W x D)	127 x 108 x 48 12 x 9 mm pitch	127 x 108 x 48 12 x 9 mm pitch
Installation	Screwed to plain or slotted backplate or onto DIN rail	Screwed to plain or slotted backplate or onto DIN rail
Others	Possible to combine 2 terminal blocks (2 nd terminal block supplied from enclosed terminals in the 1 st , I _{max} of 2 nd terminal block: 80 A)	—
Standard for installation inside PrismaSeT	IEC 61439-2	IEC 61439-2
Glow-wire 60695-2-11	960 °C	960 °C
Degree of pollution	3	3
Catalog numbers	LVS04045	LVS04046 ⁽¹⁾

Accessories

	4 x 125 A flexible connections, L = 240 mm with 1 end fitting for tunnel terminals.	
Catalog numbers	LVS04047 ⁽¹⁾	—

Linerger DX

Quick distribution blocks

Distribution blocks

Advantages

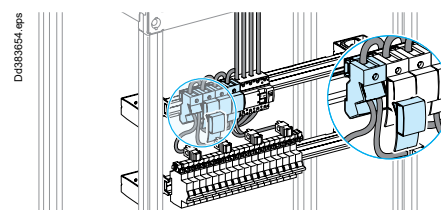
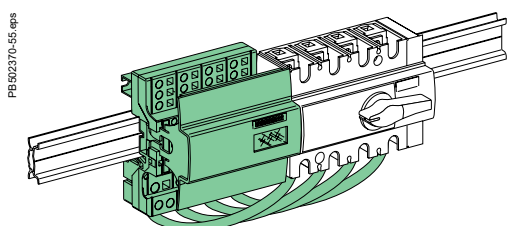
- A reliable electrical connection, no maintenance required (tightness guaranteed over time).
- Quick connection.
- Easy phase balancing.
- Ease of rewiring if the switchboard is expanded or modified.

Quick distribution blocks

Number of poles	1P
	
Rated operational current at 40° (Ie)	160 A
Rated conditional short-circuit current of an assembly (Isc)	The reinforced breaking capacity due to cascading in circuit breaker combinations is maintained. The worst-case situations have been tested. 150 kA with upstream protection of 150 kA Icc
Rated peak withstand current (Ipk)	24 kA
Rated insulation voltage (Ui)	750 V AC
Rated operational voltage (Ue)	690 V AC
Rated impulse withstand voltage (Uimp)	8 kV
Rated short-time current (Icc)	150 kA
Thermal stress (I².t)	3.025 x 10⁷
Rated operational frequency	50/60 Hz
Degree of protection	IPxxB
Incoming terminals	1 tunnel terminal 70²/phase
Total connection capacity, outgoing terminals	6 connections: 6 x 16²/phase
Dimensions (H x W x D)	95 x 36 x 70 4 x 9 mm pitch
Installation	Onto DIN rail
Others	—
Standard for installation inside PrismaSeT	IEC 61439-2
Glow-wire 60695-2-11	960 °C
Degree of pollution	3
Catalog numbers	LVS04031

Accessories

	4 x 160 A flexible connections, L = 380 mm with 2 x 45 mm² end fittings for tunnel terminals.
Catalog numbers	LVS04149



Note: Electrical characteristics > page C-85.

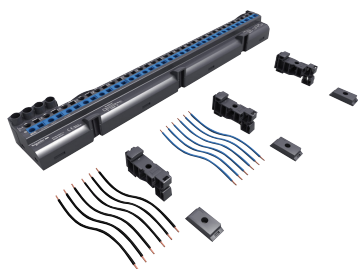
(1) To be adapted with reference 28947 and 28948 for INS-INV160.

Linerity FM

Quick device feeders

Device feeders

PB10455-50.eps



IEC60947-7-1, IEC61439-1 and 2

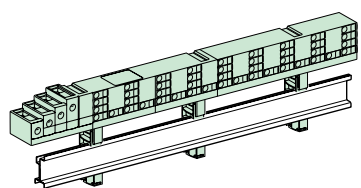
Description

- Distribution over full rows of modular devices.
- The distribution block is generally supplied by busbars in enclosures and cubicles.
- Easy phase balancing.
- Mix of devices and functions in the same row.
- Installation ≥ 160 A: clipped onto the back of a modular rail or screwed onto a solid or pre-slotted plate.

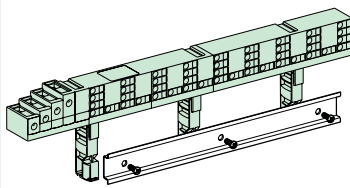
Distribution blocks

Number of poles	4P	4P
		
	63 A	80 A
Rated peak withstand current (Ipk)	12 kA	13 kA
Rated conditional short-circuit current of an assembly (Isc)	The cascading reinforced breaking capacity when combining circuit breakers is maintained. The worst-case scenarios have been tested. The characteristics are exactly right for the connected devices. Circuit breakers and switches still have their temperature derating curves, and their whole performance is maintained.	
Rated insulation voltage (Ui)	500 V AC	500 V AC
Rated voltage (Ue)	440 V AC	440 V AC
Rated impulse withstand voltage (Uimp)	6 kV	8 kV
Maximum current (Imax)	—	—
Rated operational frequency	50/60 Hz	50/60 Hz
Degree of protection	IPxxB	IPxxB
Supply at incoming terminals	Enclosed terminals for cables up to 25 mm ²	Enclosed terminals for cables up to 25 mm ²
Total connection capacity at outgoing terminals	Spring terminals for rigid or flexible cables: 4 for each phase (2 x 1 to 4 mm ² + 2 x 1 to 6 mm ²) 8 for the neutral (4 x 1 to 4 mm ² + 4 x 1 to 6 mm ²)	Spring terminals for rigid or flexible cables: 9 for each phase (2 x 6 mm ² + 7 x 4 mm ²) 17 for the neutral (4 x 6 mm ² + 13 x 4 mm ²)
Width	24 9-mm pitches 12 18-mm modules	48 9-mm pitches 24 18-mm modules
Composition	Stripped copper connections (L=100 mm) 10 x 4 mm ² + 6 x 6 mm ²	Stripped copper connections (L=105 mm) 6 mm ² (6 black) 4 mm ² (20 black)
Catalog numbers	LVS04008	LVS04004

Installation



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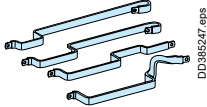
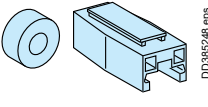
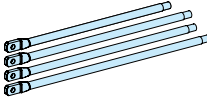
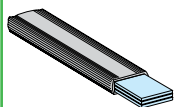


DB124196-LIN.eps

Clipped onto the back of a modular rail, or screw fixing.

Clipped onto the back of a modular rail, or screw fixing.

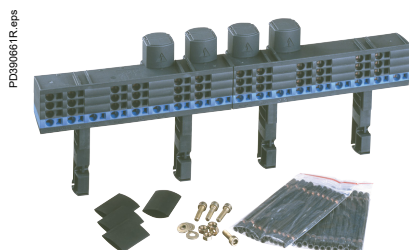
Connections to the device feeders

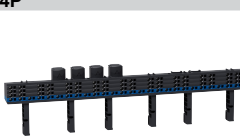
				
	4P 200 A connection (supplied with fixing accessories)	4P 200 A connection (supplied with fixing accessories)	4P 160 A connection for Linergy FM 1/2 row	200 A connection (20 x 3) for Linergy FM
Allows power supply from	Multi-stage Linergy BS busbar	Rear Linergy BS busbar	Device	Device
Catalog numbers	LVS04024	LVS04029	LVS04030	LVS04743

Linerger FM

Quick device feeders

Device feeders



4P	2P	3P	4P	4P
				
160 A	200 A	200 A	200 A	200 A
20 kA	20 kA	20 kA	20 kA	20 kA
The cascading reinforced breaking capacity when combining circuit breakers is maintained. The worst-case scenarios have been tested. The characteristics are exactly right for the connected devices. Circuit breakers and switches still have their temperature derating curves, and their whole performance is maintained.				
750 V AC	750 V AC	750 V AC	750 V AC	750 V AC
690 V AC	690 V AC	690 V AC	690 V AC	690 V AC
8 kV	8 kV	8 kV	8 kV	8 kV
50 A for feeder for 10 mm ² cable/63 A for feeder for two 10 mm ² cables				
50/60 Hz				
IPxxB				
Direct onto the row by cable 70 mm ² with crimped lug, or flexible bar 20 x 3 from busbar with prefabricated connection.				
6 connection points for each phase 9 connection points for the neutral	12 connection points for each phase 18 connection points for the neutral			18 connection points for each phase 27 connection points for the neutral
24 9-mm pitches 12 18-mm modules	48 9-mm pitches 24 18-mm modules			72 9-mm pitches 36 18-mm modules
2 sachets with 12 stripped copper connections 10 mm ² (L=100 mm)				
Protective covers for power supply rows (IPxxB)				
Fixing accessories for power supply rows				
LVS04018 ⁽¹⁾	LVS04012 ^{(1) (2)}	LVS04013 ⁽¹⁾	LVS04014 ^{(1) (2)}	LVS04026 ⁽¹⁾

Spare parts

	
	4 covers for 160/200 A Linergy FM rows
Catalog numbers	LVS01202

Note: Electrical characteristics > page C-85.

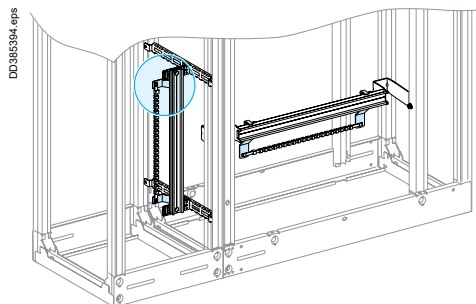
⁽¹⁾ Cable to be used without ferrules.

⁽²⁾ The Linergy FM 200 (**LVS04012** and **LVS04014**) can be used with direct current. The upstream and downstream terminal type (⊕ and ⊖) must be marked on the device. For more information, please contact our customer services.

Linerger TB

Earth bars

Terminal blocks and lines

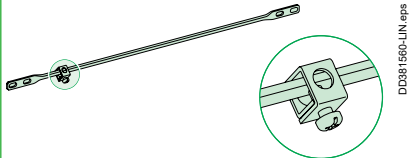


Description

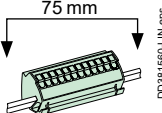
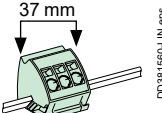
This range of earth bars is installed:

- In the duct which can constitute a dedicated area, completely separate from the equipment.
- Or in the switchgear compartment, at the top or the bottom.

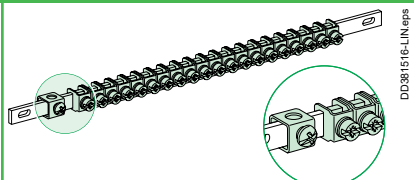
Fast-connecting earth bar

	
	Copper earth bar
Cross-section (mm)	12 x 3
Effective length (mm)	330
Total length (mm)	450
Composition	Copper bar with 1 terminal 16 to 35 mm ²
Rated short time withstand current (I _{cw})	9 kA rms/0.5 s
Catalog numbers	LVS04201

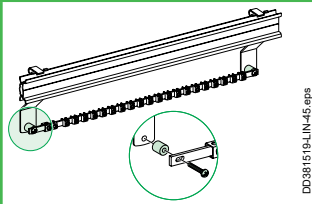
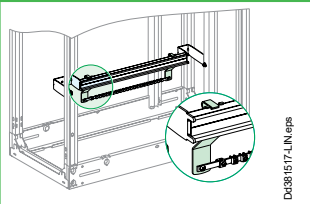
Accessories

	 	
	Earth blocks with terminals	
	Spring-fixing (clip onto the earth bar)	
Total connection capacity	12 x 4 mm ²	3 x 16 mm ²
Composition	4 earth blocks	4 earth blocks
Rated short time withstand current (I _{cw})	1 kA rms/0.5 s	4 kA rms/0.5 s
Catalog numbers	LVS04214	LVS04215

Accessories

		
	Copper earth bar with jumper	
Total connection capacity	40 x 2.5 to 16 mm ²	20 x 2.5 to 16 mm ²
Cross-section (mm)	12 x 3	12 x 3
Length (mm)	450	200
Composition	40 jumpers and a terminal (16 to 35 mm ²)	20 jumpers and a terminal (16 to 35 mm ²)
Rated short time withstand current (I _{cw})	9 kA rms/0.5 s	9 kA rms/0.5 s
Catalog numbers	LVS04200	LVS04202

Accessories

		
	Neutral bar	Earth bar
	Converts an earth bar to a neutral bar	
Composition	2 insulating spacers	2 supports for earth bar on modular rail
Catalog numbers	LVS04210	LVS04205

Linergy TB

PE conductors

Terminal blocks and lines

PE conductors									
	Vertical PE conductor with Linergy LGY profile (W = 1670 mm)			Vertical PE conductor with Linergy BS busbar (W = 1675 mm)			Horizontal PE conductor with Linergy BS busbar		
Rated short-time current (Isc)	≤ 65	> 65... ≤ 80	= 100	≤ 40	< 85	≤ 100	≤ 40	< 85	≤ 100
Permissible current (A)	630	800	1250	400	600	800	400	600	800
Bar size (mm)	—	—	—	25 x 5	50 x 5	60 x 5	25 x 5	50 x 5	60 x 5
Characteristics	—	—	—	Drilled flat bar Ø10.6 mm (one 10.6 mm hole every 25 mm along the entire length)			Drilled flat bar Ø10.6 mm (two 10.6 mm hole every 25 mm along the entire length)		
Catalog numbers	LVS04502	LVS04503	LVS04505	LVS04512	LVS04515	LVS04516	LVS04512	LVS04515	LVS04516

Support selection			
Composition	Three supports for one vertical PE (supplied with PE marking) to secure to the framework.	Three supports for one vertical PE (supplied with PE marking) to secure to the framework.	Two supports for one horizontal PE.
Catalog numbers	LVS04657	LVS04657	LVS04667

Connection between PE conductors	
	Connection plates for horizontal/vertical PE bars
Composition	2 copper angle brackets
Catalog numbers	LVS04672
	Linergy connection hardware
	20 M8 bolts (W = 25 mm) + 20 nuts + 20 contact washers for connection to cable lugs or flexible bars
Catalog numbers	LVS04766

PEN conductors		
	Linergy TB PEN installation kit with LGY vertical profile	1600 A connection 10 mm horizontal busbar with Linergy LGY profile
Catalog numbers	LVS04656 ⁽¹⁾	LVS04636
		Linergy LGYE vertical connection 1600 A
Catalog numbers		LVS04602

(1) For LGYE HBB, additional fish plate need to be manufactured as per the drawing supplied by Schneider Electric.

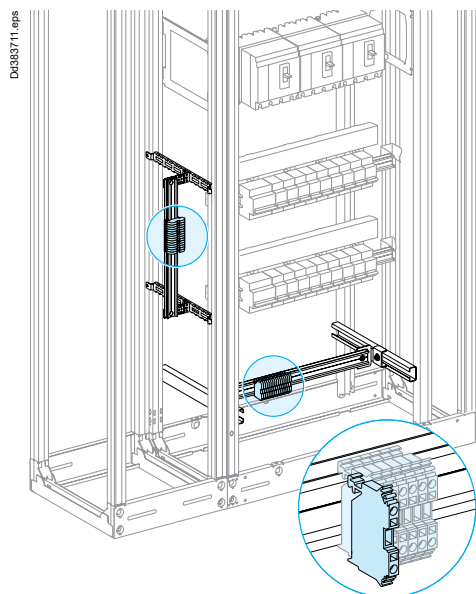
Linerger TB terminal block support

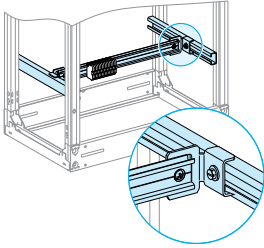
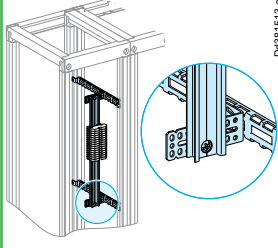
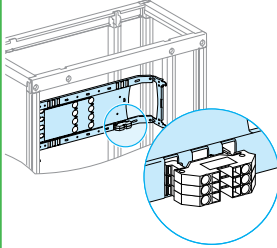
Secondary distribution

Introduction

In PrismaSeT P cubicles, terminal blocks are commonly installed in a lateral compartment, generally 300 or 400 mm wide.

They may also be installed at the top or bottom of the cubicle.



	Installation at top or bottom of a cubicle	Installation in a lateral compartment	Installation on a device mounting plate
			
Modular rail, depth adjustable (W = 432 mm)	LVS03402	—	—
2 modular rails W = 1600 mm	LVS04226	LVS04226	—
2 universal angle brackets	LVS03581	LVS03581	—
Set of two lateral cross-members W = 400 mm	LVS03584	—	—
Characteristics	Terminal blocks are grouped on modular rails that can be depth adjusted behind a plain front plate.	- The terminal block is generally installed in the cable compartment, W = 300 or 400 mm. - The terminal blocks clip onto a modular rail. The rail is secured to cable-tie supports using universal angle brackets for precise positioning of the terminal blocks.	Terminal blocks can be directly installed on the mounting plates for horizontally mounted ComPacT NSX100/630 and vertically mounted ComPacT NS630b/1600 for connection of auxiliary wires.

Width of standard terminal blocks

Max. cable CSA (mm ²)	4	6	10	16
Width of terminal block (mm)	6	8	10	12

Height required in switchboard

Max. cable CSA (mm ²)	4	6	10	16
No. of vertical modules	3	3	5	6
Plain front plate	LVS03803	LVS03803	LVS03805	LVS03806

Designing connection ≤ 630 A

Auxiliary connections

Electrical characteristics

Device												
	Ambient temperature around the switchboard											
	25°C		30°C		35°C		40°C		45°C		50°C	
	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
	Rated current of a circuit I _{nc} (A)											
Linerage DX												
Quick distribution block Linerage DX 4P 125A	134	125	129	120	125	116	120	111	116	106	111	■
Quick distribution block Linerage DX 4P 160A	171	160	166	154	160	148	154	142	148	135	142	■
Quick distribution block Linerage DX 1P 1P 160A	171	160	166	154	160	148	154	142	148	155	142	■
Linerage DP												
Quick distribution block Linerage DP 3P-4P 160A	160	160	155	155	150	150	145	145	140	140	135	■
Quick distribution block Linerage DP 3P-4P 250A	267	250	259	241	250	231	241	222	231	211	222	■
Linerage FM												
Quick device feeders Linerage FM 4P 63A	67	63	65	61	63	58	61	56	58	53	56	■
Quick device feeders Linerage FM 4P 80A	86	80	83	77	80	74	77	71	74	68	71	■
Quick device feeders Linerage FM 4P 160A	171	160	166	154	160	148	154	142	148	135	142	■
Quick device feeders Linerage FM 2P 200A	214	200	207	193	200	185	193	177	185	169	177	■
Quick device feeders Linerage FM 3P 200A	214	200	207	193	200	185	193	177	185	169	177	■
Quick device feeders Linerage FM 4P 200A	214	200	207	193	200	185	193	177	185	169	177	■
Quick device feeders Linerage FM 4P 200A (36 modules)	214	200	207	193	200	185	193	177	185	169	177	■

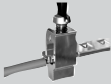
■ Check the concordance between Linergy derating value and upstream protection device derating value.

Linergy TR

Terminal blocks

Secondary distribution



			Connection technology			
Type of terminal block	Cross section area	Color	Screw tech 	Spring tech 	Push-in tech 	Miniature screw for 15 mm DIN rail
Passthrough	2.5 mm ² (2 pts)	Grey	NSYTRV22	NSYTRR22	NSYTRP22	NSYTRV22M
		Blue	NSYTRV22BL	NSYTRR22BL	NSYTRP22BL	NSYTRV22MBL
		Orange	NSYTRV22AR	–	NSYTRP22AR	–
	2.5 mm ² (3 pts)	Grey	–	NSYTRR23	NSYTRP23	–
		Blue	–	NSYTRR23BL	NSYTRP23BL	–
		Orange	–	–	NSYTRP23AR	–
	2.5 mm ² (4 pts)	Grey	–	NSYTRR24	NSYTRP24	–
		Blue	–	NSYTRR24BL	NSYTRP24BL	–
	2.5 mm ² (4 pts, 2 levels)	Grey	NSYTRV24D	NSYTRR24D	NSYTRP24D	–
		Blue	NSYTRV24DBL	–	NSYTRP24DBL	–
	2.5 mm ² (6 pts, 3 levels)	Grey	NSYTRV26T	NSYTRR26T	NSYTRP26T	–
		Blue	–	–	–	–
	4 mm ² (2 pts)	Grey	NSYTRV42	NSYTRR42	NSYTRP42	NSYTRV42M
		Blue	NSYTRV42BL	NSYTRR42BL	NSYTRP42BL	NSYTRV42MBL
		Orange	NSYTRV42AR	–	–	–
	4 mm ² (3 pts)	Grey	NSYTRV43	NSYTRR43	NSYTRP43	–
		Blue	NSYTRV43BL	–	NSYTRP43BL	–
	4 mm ² (4 pts)	Grey	NSYTRV44	NSYTRR44	NSYTRP44	–
		Blue	NSYTRV44BL	–	NSYTRP44BL	–
	4 mm ² (4 pts, 2 levels)	Grey	NSYTRV44D	NSYTRR44D	NSYTRP44D	–
		Blue	NSYTRV44DBL	NSYTRR44DBL	NSYTRP44DBL	–
	6 mm ² (2 pts)	Grey	NSYTRV62	NSYTRR62	NSYTRP62	–
		Blue	NSYTRV62BL	NSYTRR62BL	NSYTRP62BL	–
	6 mm ² (3 pts)	Grey	–	–	NSYTRP63	–
		Blue	–	–	–	–
	10 mm ² (2 pts)	Grey	NSYTRV102	NSYTRR102	NSYTRP102	–
		Blue	NSYTRV102BL	NSYTRR102BL	NSYTRP102BL	–
	16 mm ² (2 pts)	Grey	NSYTRV162	NSYTRR162	NSYTRP162	–
		Blue	NSYTRV162BL	NSYTRR162BL	NSYTRP162BL	–
Earth protection	2.5 mm ² (2 pts)	Green/Yellow	NSYTRV22PE	NSYTRR22PE	NSYTRP22PE	NSYTRV22MPE
	2.5 mm ² (3 pts)	Green/Yellow	–	NSYTRR23PE	NSYTRP23PE	–
	2.5 mm ² (4 pts)	Green/Yellow	–	NSYTRR24PE	NSYTRP24PE	–
	4 mm ² (2 pts)	Green/Yellow	NSYTRV42PE	NSYTRR42PE	NSYTRP42PE	NSYTRV42MPE
	4 mm ² (3 pts)	Green/Yellow	NSYTRV43PE	–	NSYTRP43PE	–
	4 mm ² (4 pts)	Green/Yellow	NSYTRV44PE	NSYTRR44PE	NSYTRP44PE	–
	4 mm ² (4 pts, 2 levels)	Green/Yellow	–	–	NSYTRP44DPE	–
	6 mm ² (2 pts)	Green/Yellow	NSYTRV62PE	NSYTRR62PE	NSYTRP62PE	–
	10 mm ² (2 pts)	Green/Yellow	NSYTRV102PE	NSYTRR102PE	NSYTRP102PE	–
	16 mm ² (2 pts)	Green/Yellow	NSYTRV162PE	NSYTRR162PE	NSYTRP162PE	–
Knife Disconnect	2.5 mm ² (2 pts)	Grey	NSYTRV22SC	NSYTRR22SC	NSYTRP22SC	–
		Orange	NSYTRV22ST ⁽¹⁾	–	–	–
	2.5 mm ² (3 pts)	Grey	–	NSYTRR23SC	NSYTRP23SC	–
		Orange	–	–	–	–
	2.5 mm ² (2 levels)	Grey	–	–	–	–
Fuse Disconnect	4 mm ² (2 pts)	Black	NSYTRV42SF5	–	–	–
	5 x 20 mm fuse	Black (12 V)	NSYTRV42SF5LD ⁽²⁾	–	–	–
		Black (230 V)	NSYTRV42SF5LA ⁽²⁾	–	–	–
Basic Disconnect ⁽³⁾	4 mm ² (2 pts)	Grey	NSYTRV42TB	–	NSYTRP42TB	–
	2.5 mm ² (2 pts)	Grey	–	–	NSYTRP23TB	–
Measuring transducer	6 mm ² (2 pts) Disconnect	Grey	NSYTRV62TTD	–	–	–
	6 mm ² (2 pts)	Grey	NSYTRV62TT	–	–	–
	6 mm ² (2 pts)	Green/Yellow	NSYTRV62TTPE	–	–	–

* Grey terminal with flange.

⁽¹⁾ Grey disconnect terminal with 2 test points.⁽²⁾ With light indicator.⁽³⁾ Fuse or component carrier not supplied.

Linerly TR

Terminal blocks

Secondary distribution

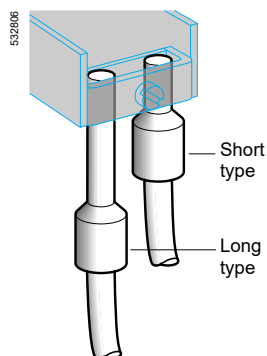


Accessories					
	End plate for screw TBs	End plate for spring TBs	End plate for push-in TBs	Plug-in bridge	Marking strips 10 characters
	NSYTRAC22	NSYTRACR22	NSYTRACR22	NSYTRAL22	NSYTRABF510
	NSYTRAC22BL	–	–	NSYTRAL23	NSYTRABF520
	–	–	–	NSYTRAL24	NSYTRABF530
	NSYTRAC23	NSYTRACR23	NSYTRACR23	NSYTRAL25	NSYTRABF540
	–	–	–	NSYTRAL210	NSYTRABF550
	–	–	–	NSYTRAL210BL	
	NSYTRAC24	NSYTRACR24	NSYTRACR24	NSYTRAL210GR	
	–	–	–	NSYTRAL220	
	NSYTRACE24	NSYTRACRE24	NSYTRACRE24		
	–	–	–		
	NSYTRACE26	–	NSYTRACPE26		
	–	–	–		
	NSYTRAC22	NSYTRACR42	NSYTRACR42	NSYTRAL42	NSYTRAB610
	NSYTRAC22BL	–	–	NSYTRAL43	NSYTRAB620
	–	–	–	NSYTRAL44	NSYTRAB630
	NSYTRAC23	NSYTRACR43	NSYTRACP43	NSYTRAL45	NSYTRAB640
	–	–	–	NSYTRAL410	NSYTRAB690
	NSYTRAC24	NSYTRACR44	NSYTRACP44	NSYTRAL410BL	NSYTRAB6100
	–	–	–	NSYTRAL410GR	NSYTRAB61100
	NSYTRACE24	NSYTRACRE44	NSYTRACPE44	NSYTRAL420	
	–	–	–		
	NSYTRAC22	NSYTRACR62	NSYTRACP62	NSYTRAL62	
	NSYTRAC22BL	–	–		
	–	–	NSYTRACP63		
	–	–	–		
	NSYTRAC22	NSYTRACR102	NSYTRACP102	NSYTRAL102	
	NSYTRAC22BL	–	–		
	NSYTRAC162	NSYTRACR162	NSYTRACP162	NSYTRAL162	
	–	–	–		
	NSYTRAC22	NSYTRACR22	NSYTRACR22		
	NSYTRAC23	NSYTRACR23	NSYTRACR23		
	NSYTRAC24	NSYTRACR24	NSYTRACR24		
	NSYTRAC22	NSYTRACR42	NSYTRACR42		
	NSYTRAC23	NSYTRACR43	NSYTRACP43		
	NSYTRAC24	NSYTRACR44	NSYTRACP44		
	–	–	NSYTRACPE44		
	NSYTRAC22	NSYTRACR62	NSYTRACP62		
	NSYTRAC22	NSYTRACR102	NSYTRACP102		
	NSYTRAC162	NSYTRACR162	NSYTRACP162		
	NSYTRAC23	NSYTRACR23	NSYTRACPK22		
	NSYTRAC23	–	–		
	–	NSYTRACR24	NSYTRACPK23		
	–	–	–		
	–	Included	–		
	Included	–	–		
	Included	–	–		
	Included	–	–		
	Included	Included	NSYTRACR42		
	–	–	NSYTRACPK23		
	NSYTRACT22	–	–		
	NSYTRACT22	–	–		
	NSYTRACT22	–	–		

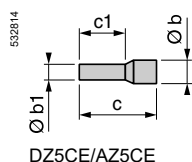
Linergy cable ends

Mounting and cabling accessories

Conforming to standard NF C 63-023 or DIN 46228-4



DZ5CE



DZ5CE/AZ5CE



AZ5CE●●●

Single conductor cable ends (Packed in individual bags or <i>strings</i> of bags)											
Conductor c.s.a.		Type	Dimensions				Sold in lots of	Unit reference NF C 63-023		Unit reference DIN 46228-4	
mm ²	AWG		Ø b mm	Ø b1 mm	c mm	c1 mm		Reference	color	Reference	color
0.25	26	Short	2.3	1.1	10	6	10 x 100	DZ5CE002L6	Yellow		
		Medium	2.3	1.1	12	8	10 x 100	DZ5CE002			
0.34	24	Short	2.5	1.1	10	6	10 x 100	DZ5CE003L6	Green		
		Medium	2.5	1.1	12	8	10 x 100	DZ5CE003			
0.5	22	Short	3.1	1.3	12	6	10 x 100	DZ5CE005L6 ⁽¹⁾	White	—	White
		Medium	3.1	1.3	14	8	10 x 100	DZ5CE005 ⁽¹⁾		DZ5CE005D ⁽¹⁾	
		—	—	—	—	—	—	DZ5CE005L10D ⁽¹⁾			
0.75	20	Short	3.3	1.5	12	6	10 x 100	DZ5CE007L6 ⁽¹⁾	Blue	DZ5CE007L6D ⁽¹⁾	Grey
		Medium	3.3	1.5	14	8	10 x 100	DZ5CE007 ⁽¹⁾		DZ5CE007D ⁽¹⁾	
1	18	Short	3.5	1.7	12	6	10 x 100	DZ5CE010L6 ⁽¹⁾	Red	DZ5CE010L6D ⁽¹⁾	Red
		Medium	3.5	1.7	14	8	10 x 100	DZ5CE010 ⁽¹⁾		DZ5CE010D ⁽¹⁾	
		Long	3.5	1.7	18	12	10 x 100	DZ5CE010L12 ⁽¹⁾		DZ5CE010L12D ⁽¹⁾	
1.5	16	Short	4	2	12	6	10 x 100	DZ5CE015L6 ⁽¹⁾	Black	DZ5CE015L6D ⁽¹⁾	Black
		Medium	4	2	14	8	10 x 100	DZ5CE015 ⁽¹⁾		DZ5CE015D ⁽¹⁾	
		Long	4	2	24	18	10 x 100	DZ5CE0153 ⁽¹⁾		DZ5CE0153D ⁽¹⁾	
2	14	Medium	4.2	2.2	14	8	10 x 100	DZ5CE020	Yellow	—	
2.5	14	Medium	4.7	2.5	14	8	10 x 100	DZ5CE025 ⁽¹⁾	Grey	DZ5CE025D ⁽¹⁾	Blue
		Long	4.7	2.5	24	18	10 x 100	DZ5CE0253 ⁽¹⁾		DZ5CE0253D ⁽¹⁾	
4	12	Medium	5.4	3.2	17	10	10 x 100	DZ5CE042 ⁽¹⁾	Orange	DZ5CE042D ⁽¹⁾	Grey
		Long	5.4	3.2	26	18	10 x 100	DZ5CE043 ⁽¹⁾		DZ5CE043D ⁽¹⁾	
6	10	Medium	6.9	3.9	20	12	1 x 100	DZ5CE062 ⁽¹⁾	Green	DZ5CE062D ⁽¹⁾	Yellow
		Long	6.9	3.9	26	18	1 x 100	DZ5CE063 ⁽¹⁾		DZ5CE063D ⁽¹⁾	
10	8	Medium	8.4	4.9	22	12	1 x 100	DZ5CE102 ⁽¹⁾	Brown	DZ5CE102D ⁽¹⁾	Red
		Long	8.4	4.9	28	18	1 x 100	DZ5CE103 ⁽¹⁾			
16	6	Medium	9.6	6.2	24	12	1 x 100	DZ5CE162 ⁽¹⁾	White	DZ5CE162D ⁽¹⁾	Blue
		Long	9.6	6.2	28	18	1 x 100	DZ5CE163 ⁽¹⁾			
25	4	Medium	12	7.7	30	18	1 x 50	DZ5CE252 ⁽¹⁾	Black	—	
		Long	12	7.7	36	22	1 x 50	DZ5CE253 ⁽¹⁾			
35	2	Medium	13.5	8.7	30	16	1 x 50	DZ5CE352 ⁽¹⁾	Red	DZ5CE352D ⁽¹⁾	Red
		Long	13.5	8.7	39	25	1 x 50	DZ5CE353 ⁽¹⁾			
50	0	Medium	16	11	36	20	1 x 50	DZ5CE502 ⁽¹⁾	Blue	—	Blue
		—	—	—	—	—	—	—			

Single conductor cable ends (Packed in dispenser pack)

0.5	22	Medium	3.1	1.3	14	8	5 x 200	AZ5CE005 ⁽¹⁾	White	AZ5CE005D ⁽¹⁾	White
0.75	20	Medium	3.3	1.5	14	8	5 x 200	AZ5CE007 ⁽¹⁾	Blue	AZ5CE007D ⁽¹⁾	Grey
1	18	Medium	3.5	1.7	14	8	5 x 200	AZ5CE010 ⁽¹⁾	Red	AZ5CE010D ⁽¹⁾	Red
1.5	16	Medium	4	2	14	8	5 x 200	AZ5CE015 ⁽¹⁾	Black	AZ5CE015D ⁽¹⁾	Black
2.5	14	Medium	4.7	2.5	14	8	5 x 200	AZ5CE025 ⁽¹⁾	Grey	AZ5CE025D ⁽¹⁾	Blue

Single conductor cable ends (Strips of 50 packed in bag)

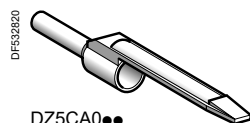
0.5	22	Medium	3.1	1.3	14	8	10 x 50	DZ5CEB005 ⁽¹⁾	White	DZ5CEB005D ⁽¹⁾	White
0.75	20	Medium	3.3	1.5	14	8	10 x 50	DZ5CEB007 ⁽¹⁾	Blue	DZ5CEB007D ⁽¹⁾	Grey
1	18	Medium	3.5	1.7	14	8	10 x 50	DZ5CEB010 ⁽¹⁾	Red	DZ5CEB010D ⁽¹⁾	Red
1.5	16	Medium	4	2	14	8	10 x 50	DZ5CEB015 ⁽¹⁾	Black	DZ5CEB015D ⁽¹⁾	Black
2.5	14	Medium	4.7	2.5	14	8	10 x 50	DZ5CEB025 ⁽¹⁾	Grey	DZ5CEB025D ⁽¹⁾	Blue

(1) UL certified products.

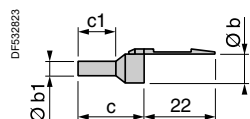
Linergy cable ends

Mounting and cabling accessories

Conforming to standard NF C 63-023 or DIN 46228-4

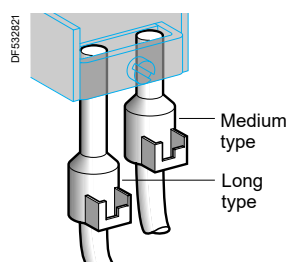


DZ5CA0●●

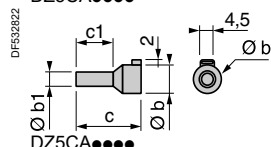


DZ5CA●●●●

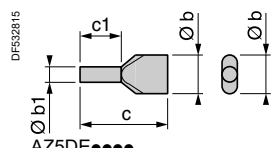
(with clip-in marker tag holder)



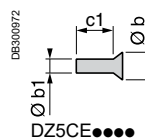
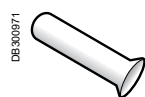
DZ5CA●●●●



DZ5CA●●●●



AZ5DE●●●●



DZ5CE●●●●

Single conductor markable cable ends (Packed in strings of bags)

Conductor c.s.a.	Type	Dimensions				Sold in lots of	Unit reference NF C 63-023		Unit reference DIN 46228-4	
		Ø b	Ø b1	c	c1		Reference	color	Reference	color
mm²	AWG	mm	mm	mm	mm					
0.25	26	Medium	2.3	1.1	12	8	10 x 100	DZ5CA002	Yellow	
0.34	24	Medium	2.5	1.1	12	8	10 x 100	DZ5CA003	Green	
0.5	22	Medium	3.1	1.3	14	8	10 x 100	DZ5CA005 ⁽¹⁾	White	DZ5CA005D ⁽¹⁾ White
0.75	20	Medium	3.3	1.5	14	8	10 x 100	DZ5CA007 ⁽¹⁾	Blue	DZ5CA007D ⁽¹⁾ Grey
1	18	Medium	3.5	1.7	14	8	10 x 100	DZ5CA010 ⁽¹⁾	Red	DZ5CA010D ⁽¹⁾ Red
1.5	16	Medium	4	2	14	8	10 x 100	DZ5CA015 ⁽¹⁾	Black	DZ5CA015D ⁽¹⁾ Black
2.5	14	Medium	4.7	2.5	14	8	10 x 100	DZ5CA025 ⁽¹⁾	Grey	DZ5CA025D ⁽¹⁾ Blue

Single conductor cable ends with facility for clip-in marker tag holder

4	12	Medium	5.4	3.2	20	12	10 x 100	DZ5CA042 ⁽¹⁾	Orange	DZ5CA042D ⁽¹⁾	Grey
		Long	5.4	3.2	26	18	10 x 100	DZ5CA043 ⁽¹⁾		—	
6	10	Medium	6.9	3.9	20	12	1 x 100	DZ5CA062	Green	DZ5CA062D	Yellow
		Long	6.9	3.9	26	18	1 x 100	DZ5CA063		—	
10	8	Medium	8.4	4.9	22	12	1 x 100	DZ5CA102	Brown	DZ5CA102D	Red
		Long	8.4	4.9	28	18	1 x 100	DZ5CA103		DZ5CA103D	
16	6	Medium	9.6	6.2	24	12	1 x 100	DZ5CA162	White	DZ5CA162D	Blue
		Long	9.6	6.2	28	18	1 x 100	DZ5CA163		DZ5CA163D	
25	4	Medium	12	7.7	30	18	1 x 100	DZ5CA253	Black	DZ5CA253D	Yellow
35	2	Medium	13.5	8.7	30	16	1 x 20	DZ5CA352	Red	DZ5CA352D	Red
		Long	13.5	8.7	39	25	1 x 20	DZ5CA353		DZ5CA353D	
50	0	Medium	16	11	36	20	1 x 20	DZ5CA502	Blue	DZ5CA502D	Blue
		Long	16	11	40	25	1 x 20	DZ5CA503		DZ5CA503D	

Twin conductor cable ends (in dispenser pack)

2 x 0.75	20	Medium	2.8 x 5	2	15	8	5 x 100	AZ5DE007 ⁽²⁾	Blue	AZ5DE007D ⁽¹⁾	Grey
2 x 1	18	Medium	3.4 x 5.4	2.25	15	8	5 x 100	AZ5DE010 ⁽²⁾	Red	AZ5DE010D ⁽¹⁾	Red
2 x 1.5	16	Medium	3.6 x 6.6	2.5	15	8	5 x 100	AZ5DE015 ⁽²⁾	Black	AZ5DE015D ⁽¹⁾	Black
2 x 2.5	14	Medium	4.2 x 7.8	3.2	18.5	10	5 x 50	AZ5DE025 ⁽²⁾	Grey	AZ5DE025D ⁽¹⁾	Blue

Twin conductor cable ends (packed in 1 plastic bag)

2 x 0.5	22	Medium	2.5 x 4.7	1.7	15	8	1 x 1000	AZ5DE005 ⁽²⁾	White		
2 x 0.75	20	Medium	2.8 x 5	2	15	8	1 x 1000	AZ5DE0071 ⁽²⁾	Blue		
2 x 1	18	Medium	3.4 x 5.4	2.25	15	8	1 x 1000	AZ5DE0101 ⁽²⁾	Red		
2 x 1.5	16	Medium	3.6 x 6.6	2.5	15	8	1 x 1000	AZ5DE0151 ⁽²⁾	Black		
2 x 2.5	14	Medium	4.2 x 7.8	3.2	18.5	10	1 x 500	AZ5DE0255 ⁽²⁾	Grey		

Single conductor uninsulated cable ends

Conductor c.s.a.	Type	Dimensions				Sold in lots of	Unit reference DIN 46228-1	
		Ø b	Ø b1	c	c1		Reference	
mm²	AWG	mm	mm	mm	mm			
0.75	20	Medium	2.3	1.2	--	8	10 x 100	DZ5CE007N
1	18	Medium	2.5	1.4	--	8	10 x 100	DZ5CE010N
1.5	16	Medium	2.8	1.7	--	8	10 x 100	DZ5CE015N
2.5	14	Medium	3.4	2.2	--	10	10 x 100	DZ5CE025N
4	12	Medium	4	2.8	--	12	1 x 100	DZ5CE040
		Long	4.7	3.5	--	18	1 x 100	DZ5CE060L
6	10	Medium	4.7	3.5	--	12	1 x 100	DZ5CE060
		Long	4.7	3.5	--	18	1 x 100	DZ5CE060L
10	8	Medium	5.8	4.5	--	18	1 x 100	DZ5CE100
16	6	Medium	7.5	5.8	--	18	1 x 100	DZ5CE160

(1) UL certified products.

(2) cCSAus certified products.

Functional Partitioning

Main distribution

Forms partitioning	
Presentation	C-92
Partitioning	C-93
Other partitions	C-97

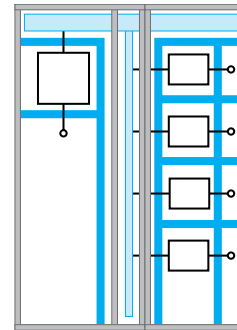
Forms partitioning

Presentation

What are the forms?

- The forms are metal partitions or molded material, removable by using tools or keys, which ensure the protection of operators against direct contact with power conductors when working on low voltage switchboards.
- They also protect internal elements of the switchboard against external aggressions (dust, pests, water ...).
- These forms are graduated from 1 to 4, with indices "a" or "b". Their use contributes to the level of service continuity required by the user.
- Forms have a cumulative effect (a higher form integrates the characteristics of the forms that precede it).
- The choice of a form is the subject to an agreement between the manufacturer and the user.
- The electrical panel must comply with the degree of protection IP 2X, according to standard IEC 61439-1 and 2.

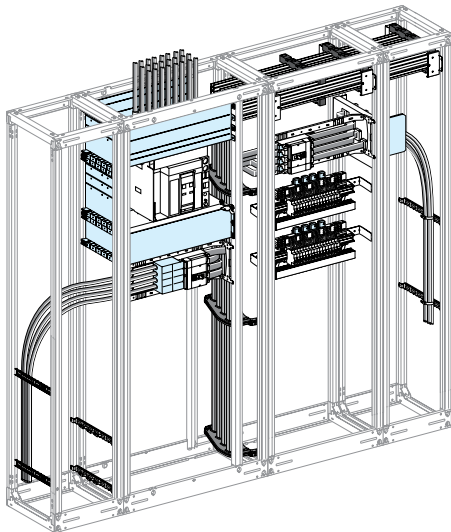
Form 4b



PrismaSeT P 690 V AC requires Form 4b.

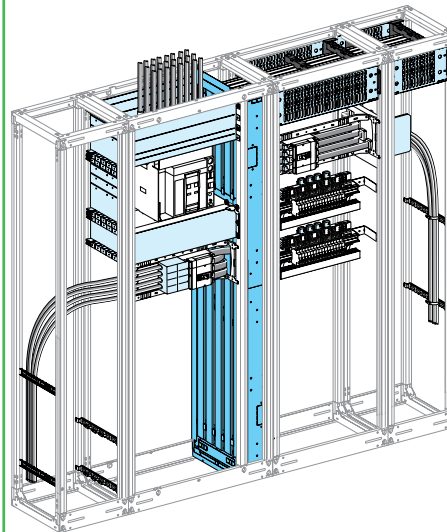
Form 1

No internal separation



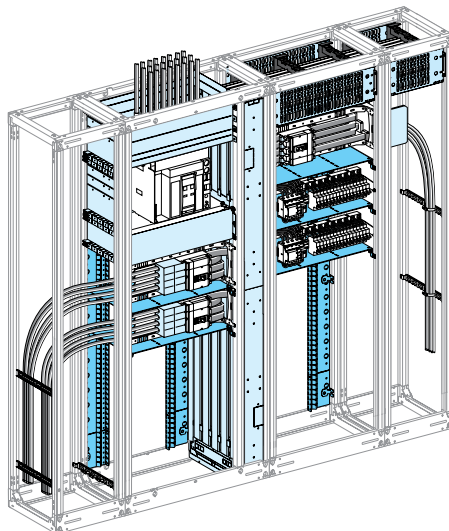
Form 2

Separation between horizontal busbars, vertical busbars, and functional units



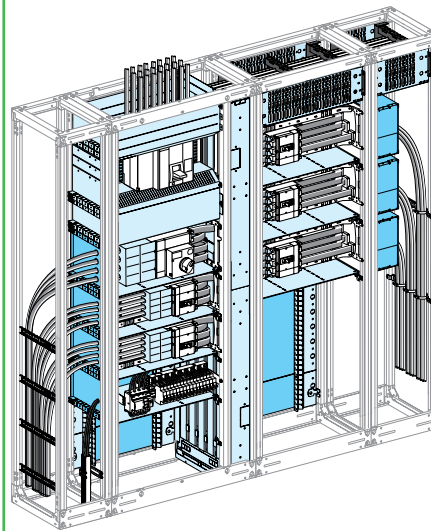
Form 3

Form 2 + separation of functional units from one another



Form 4

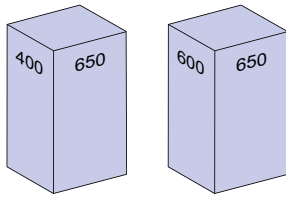
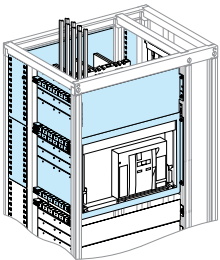
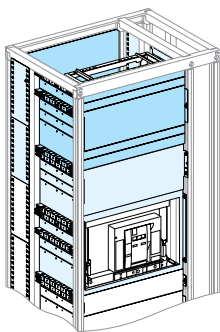
Form 3 + separation of the terminals of the functional units from one another

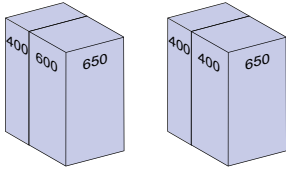
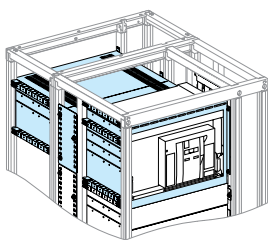
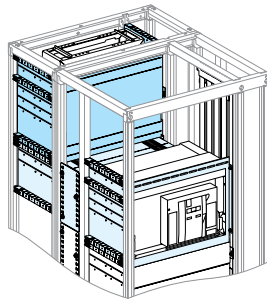


Partitioning

Covering the supply terminals on the incoming device

Main distribution

	Front connection with cables		Canalis front connection	
 MTZ2 MTZ1				
Devices	Fixed or withdrawable device		Fixed or withdrawable device	
	MasterPact		MasterPact	
	MTZ2	MTZ1	MTZ2	MTZ1
Cover	LVS04861	LVS04852	LVS04861	LVS04852
Canalis additional cover	—	—	LVS04871	LVS04871

	Rear connection with cables		Canalis rear connection	
 MTZ2 MTZ1				
Devices	Fixed or withdrawable device		Fixed or withdrawable device	
	MasterPact		MasterPact	
	MTZ2	MTZ1	MTZ2	MTZ1
Cover	LVS04863	LVS04854	LVS04863	LVS04854
Canalis additional cover	—	—	LVS04871	LVS04871

Covering of the connection between an incoming device and lateral busbars

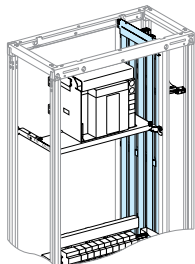
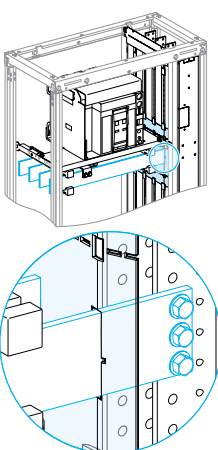
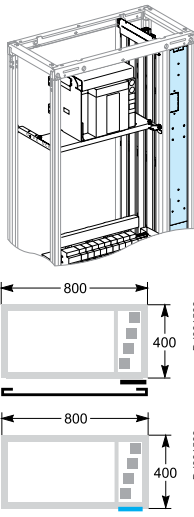
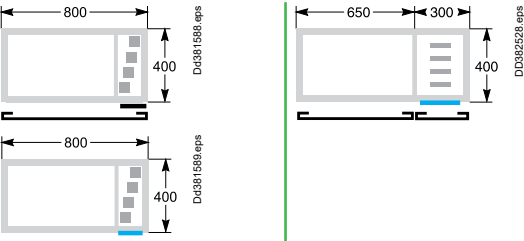
	MasterPact MTZ2	MasterPact MTZ1
Cover with copper connection	LVS04926	LVS04926
Additional cover	LVS04927	—
Cover with Linergy LGYE connection	LVS04925	LVS04925
Additional cover	LVS04928	—
Form partition depth	600	400

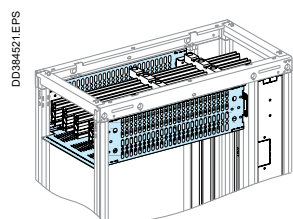
Note: Cubicle depth is based on the depth of the incoming device.

Main distribution

Lateral partitioning

- Lateral partitioning is made up of:
 - Four supports that clip to the framework.
 - Five extruded slats that clip to the supports.
 - Two metal plates at the top and bottom that can be cut out to pass a PE or PEN conductor, or one or two 30 x 60 mm trunking sections.
- Compliance with the standard IEC 695.2.1 concerning withstand to fire.

	Side barrier	Restoration kit	Front or rear barrier
	 DD383712-1.eps	 DD385402.eps	 DD383714-1.eps
			 DD381588.eps DD382528.eps
			W = 150 mm W = 300 mm
Characteristics	■ Vertical barrier is made of insulating slats. ■ The space between the slats is sufficient for prefabricated connections (one copper bar, 5 or 10 mm thick, or insulated flexible bars) or for cables up to 35 mm², while maintaining the degree of protection IP2X.	■ This kit enables passage of the connection between a device > 1600 A (MTZ2) and lateral vertical busbars. ■ It is made up of an insulated plate (six modules high = 300 mm) that can be cut as required, supplied with supports and the necessary hardware. ■ Must be used with MTZ2 interlocking mounting plate.	Can be installed in the front and rear of the busbar compartment. Protects against direct contact with the busbars. ■ For 800 mm cubicles: □ The door is systematically supplied with a barrier. □ The cover frame is supplied with a wicket door, W = 150 mm, on which devices can be mounted. A front barrier is indispensable. ■ A barrier is required at the rear of the busbar compartment in cubicles that are 600, 800, and 1000 mm deep.
Catalog number	LVS04922	LVS04924	LVS04921 LVS04920



Horizontal partitioning

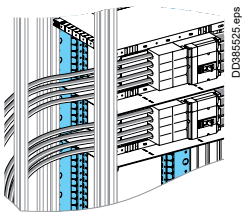
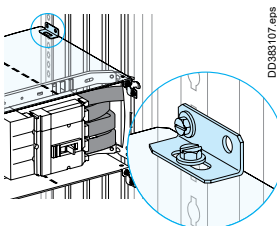
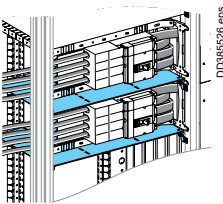
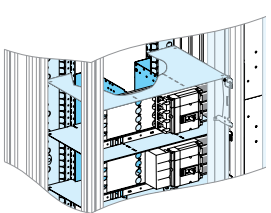
- Set of two barriers (front and rear), plus a slotted rear panel for efficient natural convection in the switchboard.
- The set can be used to partition horizontal busbars installed at the top or bottom of the cubicle.
- The space required for the busbars is not increased.

Linergy LGYE		
Top position		
In	≤ 2500 A	≥ 3200 A
No of module	3	4
D400		
Cover	W = 300	LVS04973 LVS04963
	W = 400	LVS04974 LVS04964
	W650	LVS04976 LVS04966
	W650 + 150	LVS04976 LVS04966
	W800	LVS04978 LVS04968
D600		
Cover	W = 300	LVS04983 LVS04963
	W = 400	LVS04984 LVS04964
	W650	LVS04986 LVS04966
	W650 + 150	LVS04986 LVS04966
	W800	LVS04988 LVS04968

Note: When the busbars are at the bottom of the cubicle, gland plates are mandatory > page C-57.

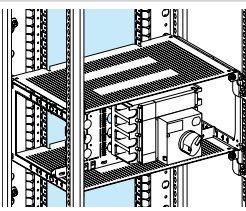
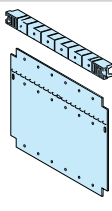
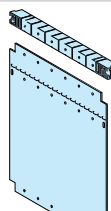
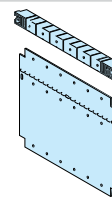
Note: To protect horizontal busbars installed at the bottom of the cubicle, the slotted horizontal panel must be replaced by a plain barrier.(LVS04915 or LVS04919) and add a free support LVS04662.

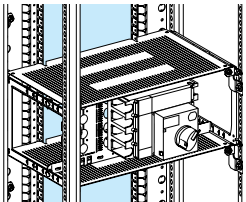
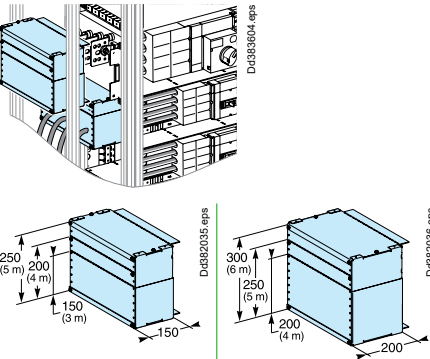
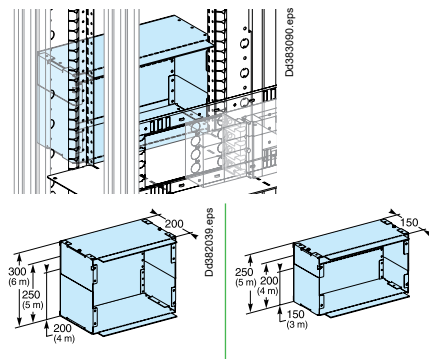
Main distribution

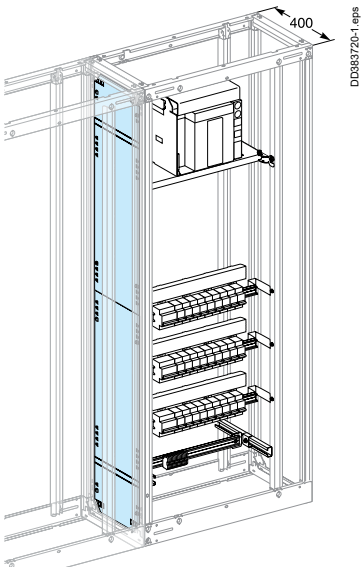
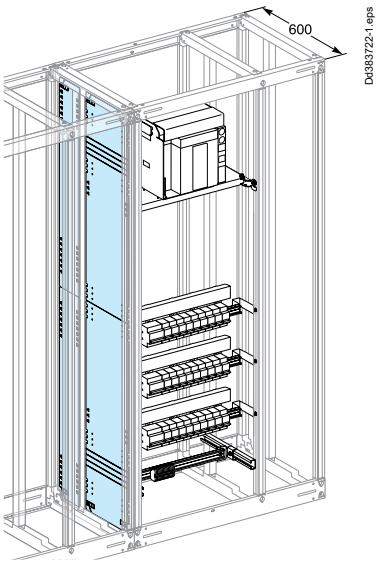
	Front connection			Rear connection	
					
	Rear support for partitions W = 650 mm	6 universal angle brackets	Horizontal metal partition W = 650 mm	Rear connection	
Characteristics	Two uprights secured to the framework (400 mm deep) or to the intermediate uprights (600 mm deep frameworks).	A set of brackets can be used to install partial Form 3 partitioning in the cubicle. It does not take up any useful space in the switchboard.	A horizontal metal partition can be used to physically separate functional units from one another. It does not take up any useful space in the switchboard.	Vertical partitions (two cat. no. per functional unit)	
Catalog numbers	LVS04943	LVS03583	LVS04901	LVS04955	LVS04956

C

Main distribution

Direct connection to the device				
	Front connection	Rear connection		
				
Characteristics	Backplate ■ A backplate (one cat. no. per cubicle) made up of two metal half panels mounted on the rear supports for Form 3 partitions. This backplate is not indispensable for 400 mm deep frameworks.	Gland plate ■ A plastic gland plate that can be easily cut out (one for each functional unit) and is mounted on the framework.		
		3 to 4 modules	5 to 6 modules	3 to 5 modules
Catalog numbers	LVS04946	LVS04951	LVS04952	LVS04951

Connection transfer				
	In a lateral compartment	At the rear of the cubicle		
				
Characteristics	Backplate ■ A backplate (one cat. no. per cubicle) made up of two metal half panels mounted on the rear supports for Form 3 partitions. This backplate is not indispensable for 400 mm deep frameworks.	Cover ■ A cover with plastic gland plates that can be easily cut out on the side and bottom.		
		3 to 5 modules W150	4 to 6 modules W200	3 to 5 modules
Catalog numbers	LVS04946	LVS04953	LVS04954	LVS04953

Inter-cubicle partition		
	 Diagram showing the D400 inter-cubicle partition installed in a rack. The partition is 400 mm wide. The rack structure is labeled DCS83720-1 eps.	 Diagram showing the D600 inter-cubicle partition installed in a rack. The partition is 600 mm wide. The rack structure is labeled DCS83722-1 eps.
	D400	D600
Characteristics	■ Metal partition, used to separate two adjacent cubicles. ■ It is made up of two panels, each 850 mm high. ■ The top and bottom ends have knock-outs for busbars, PE/PEN conductors or auxiliary wiring. ■ Supplied with the necessary supports and hardware, the partition is mounted on the framework and does not hinder installation of the functional mounting plates.	
Catalog numbers	LVS04911	LVS04911 + LVS04931

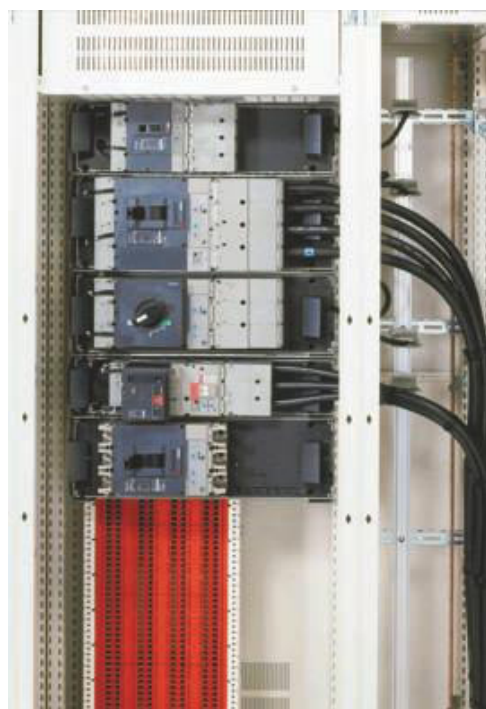
Disconnectable on Polyfast

Contents

Electrical-distribution switchboards	C-100
Presentation of vertical busbars with clamp connections	C-101
Selection of vertical busbars with clamp connections	C-102
ComPacT NSX100/630	C-104

C

These electrical-distribution switchboards are designed to contain a set of disconnectable functional units. The feeders, made up of three or four-pole ComPacT NSX circuit breakers up to 630 A or Multi9 devices, are installed on disconnectable mounting plates and directly connected to vertical busbars via clamps. Upgrades or maintenance can be carried out by qualified personnel with the switchboard energised, thus ensuring true continuity of service at all times. The disconnectable mounting plates can be installed in a cubicle 650 mm wide and 600 mm deep, perfectly compatible with all standard Prisma**SeT** P disconnectable cubicles. The vertical capacity is 30 modules, each 50 mm high.

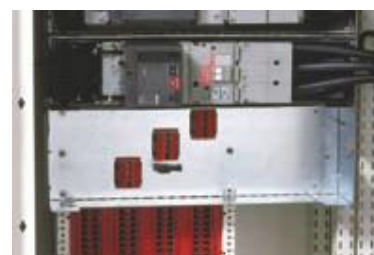


Optimised device density in cubicles

The height of the disconnectable mounting plates is perfectly suited to the volume of three-pole and four-pole devices. Integration of the control wires within the volume of the functional units ensures very compact switchboards.

Easy to set up

The disconnectable mounting plates can be easily installed from the front. Direct connection via clamps is very easy. This system eliminates any intermediate connections and ensures high-quality electrical contacts.



Fixed part equipped with double-contact clamps.

An electrical installation that remains available

Maintenance can be carried out by qualified personnel even with the switchboard energised, thus ensuring true continuity of service for the installation.



Auxiliary connection block in the connection compartment.

Presentation of vertical busbars with clamp connections

Prisma**SeT** P disconnectable electrical switchboards have a complete and consistent distribution system capable of supplying electrical energy where it is needed.

- Modern, high-performance busbars.
- Perfectly sized, prefabricated connections.
- Distribution blocks that blend perfectly with the devices.

- Direct supply to feeders on disconnectable mounting plates via clamps.

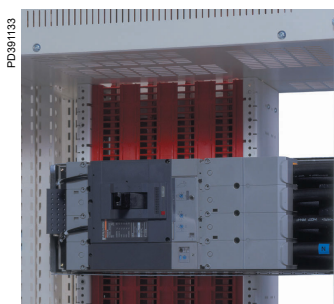
All components are put through rigorous tests with Schneider Electric devices to ensure that the resulting switchboards are dependable and comply with international standard IEC 61439-1.



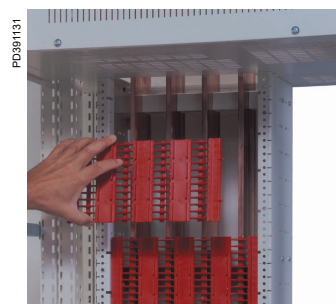
Rear vertical busbars with clamp connections.



Fixed part equipped with double-contact clamps.



NSX400 disconnectable mounting plate for electrical distribution.



Fully insulated horizontal and vertical busbars.

Calculation of busbars

Permissible current for switchboards		Number of bars/phase	Number of supports for Icw (kA rms/1 s)		
IP ≤ 31	IP > 31		50	70	85
1200	1050	1 bar, 50 x 10 mm	6		
1750	1530	1 bar, 80 x 10 mm		7	
2100	1840	1 bar, 100 x 10 mm			8

Selection of busbars



Busbar covers

Presentation

Set made up of:

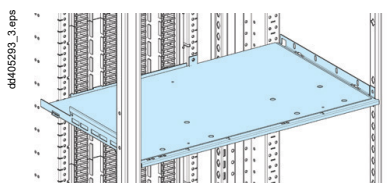
- 1 top plate
- 1 bottom plate with a stop to maintain the bars in position
- 2 side plates (1 left and 1 right) to which the bar supports are secured
- 1 rear plate
- 1 set of grilles for the front
- 1 cover for the horizontal busbars
- 2 busbar support lateral cross-members
- Height: 6 modules

Cat. no. selection

Designation	Cat. no.
Rear busbar cover for cubicle D = 600 mm	88002

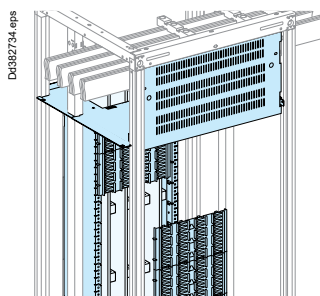
Case and space cover

Designation	Cat. no.
FU horizontal partition	87401

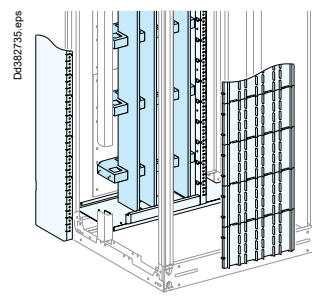


Busbar supports

Designation	Cat. no.
1 support for 50 x 10 mm bars	88005
1 support for 80 x 10 mm bars	88006
1 support for 100 x 10 mm bars	88006



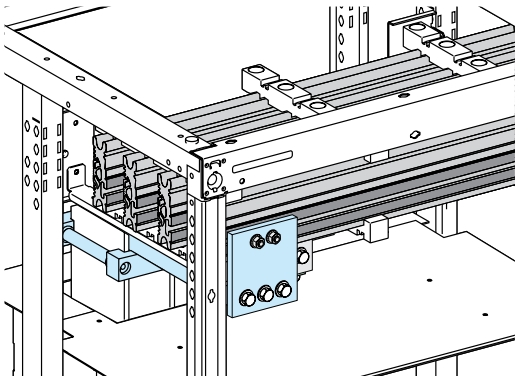
Busbar covers



Bars and supports

Calculation of busbars

DB447641.eps

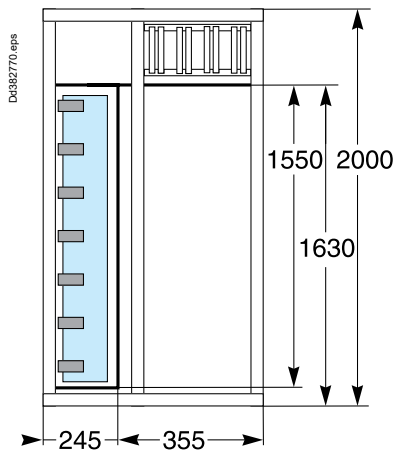
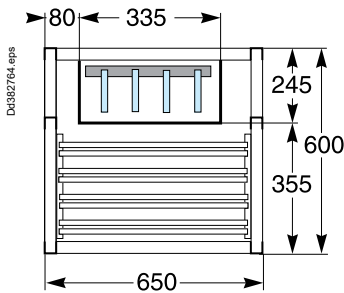


Flat busbars, L = 2000 mm

Connection between horizontal and vertical busbars	Catalog number
For horizontal busbars width ≤ 80 mm	
Vertical busbars ≤ 1200 A	3P 88007
	4P 88008
Vertical busbars > 1200 A	3P 88014
	4P 88015
For horizontal busbars width = 100 mm	
Vertical busbars ≤ 1200 A	3P 88007
	4P 88008
Vertical busbars > 1200 A	3P 88014
	4P 88015

C

Busbar dimensions



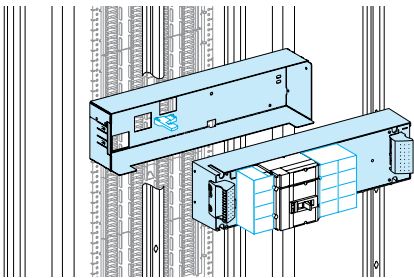
Device installation



Note: For measurements, the current transformers are installed in the cable compartment.

Device	No. of 50 mm modules (1)	Disconnectable mounting plates		Terminal shields		Safety trip for advanced opening
		Fixed part	Moving part	Upstream (short terminal shields)	Downstream (long terminal shields)	
ComPacT NSX100/630						
NSX100/250 3P	2, 5	88010	88020	LV429515	LV429517	LV429270
	4P	88011	88021	LV429516	LV429518	LV429270
NSX400/630 3P	3, 5	88012	88022	LV432591	LV432593	LV432520
	4P	88013	88023	LV432592	LV432594	LV432520
NSX400/630	Earth-leakage protection is provided by an external Vigirex type device with a toroid installed in the cable compartment.					

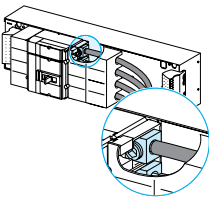
(1) Available capacity: 30 modules.



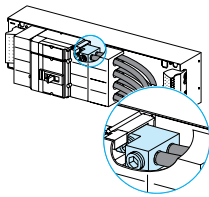
Connection

To connect the ComPacT NSX400/630 using cables with large cross-sectional areas (up to 300 mm²), use of the terminals below is recommended.

Terminals for copper and aluminium cables		
For 1 cable from 35 to 300 mm²	Set of 3	LV432479
	Set of 4	LV432480
For 2 cables from 85 to 240 mm²	Set of 3	LV432481
	Set of 4	LV432482



LV432480



LV432482

Additional Information

Contents

Spare parts

After-sales accessories	C-108
Electrical characteristics	
Designing horizontal busbars	
Linery LGE	C-112
Designing vertical busbars	
Linery LGE	C-113
Designing connections between a device and busbars	
Fixed MasterPact 08-16	C-114
Fixed MasterPact 08-32	C-115
Drawout MasterPact 08-16	C-116
Drawout MasterPact 08-32	C-117
Designing connections between a device and busbars	
Dedicated cubicle	
Fixed MasterPact 08-32	C-118
Drawout MasterPact 08-32	C-119
Designing connections between a device and busbars	
Fixed MasterPact 06-16	C-120
Drawout MasterPact 06-16	C-122
Designing connections ≤ 630 A	
Device connections	C-124
ComPacT circuit breakers NSX100 to NSX630	C-125
ComPacT circuit breakers NSX100 to NSX250	C-126
ComPacT circuit breakers NSXm up to 63	C-127
Designing cable connections	
Tubular lugs	C-128
Designing customer connections	
Prefabricated connections for MasterPact 06-16	C-129
Fixed MasterPact 08-16	C-130
Fixed MasterPact 08-32	C-131
Drawout MasterPact 08-16	C-132
MasterPact 08-32 withdrawable	C-133
Fixed MasterPact 06-16	C-134
Drawout MasterPact 06-16	C-135
Designing connections between a device and busbars	
Dedicated cubicle - W = 400 mm	C-136

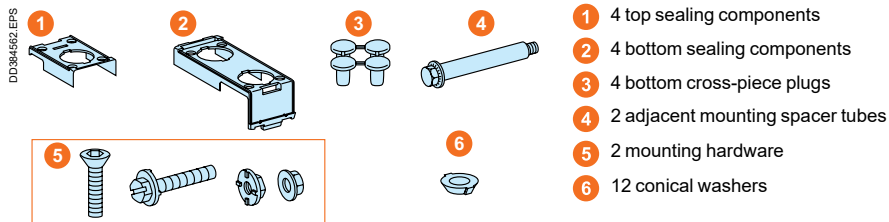
After-sales accessories

Spare parts

Framework accessories

Framework accessories

LVS01104



Front-plate accessories

10 sets of 2 grips quarter turn

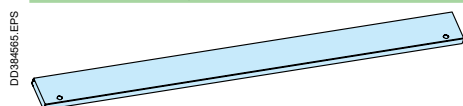
LVS01094



Accessory

Plain wicket door, W = 150 mm

LVS01110



Linergy LGYE busbar accessories

Linergy LGYE connection screwplate kit

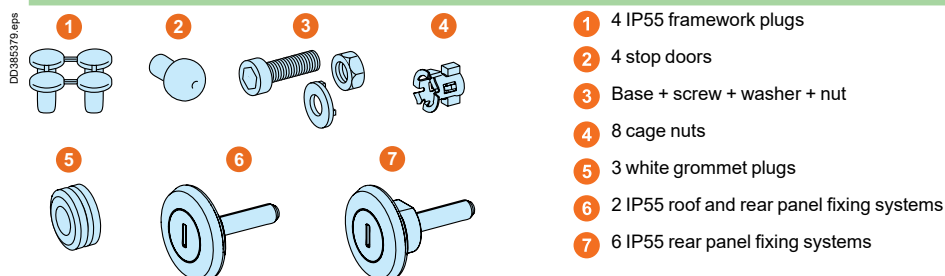
LVS01130



Rear accessories

Accessories IP55

LVS01101



After-sales accessories

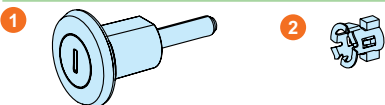
Spare parts

Side panel accessories

Accessories for IP55 side panel

LVS01102

DD38468 EPS



- 1 16 fixing system IP55
- 2 16 cage nuts

Roof accessories

Accessories for IP55 roof

LVS01103

DD38530 EPS



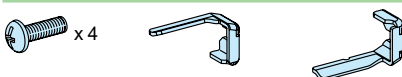
- 1 4 lifting ring plugs
- 2 6 cage nuts
- 3 6 mounting sets of screw fixing IP55 for roof

Front plate support frames

Front plate support striker kit for LVS08564 - LVS08566

LVS01123

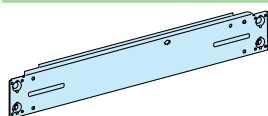
DD384571 EPS



Framework accessories

Framework accessories

DD384572 EPS



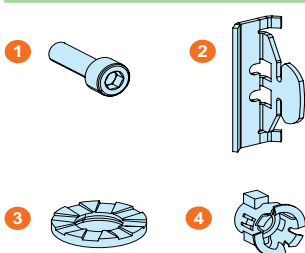
- Frame bottom cross-member W400 to use with LVS08564 **LVS01119** ⁽¹⁾
 - Frame bottom cross-member W650 to use with LVS08566 **LVS01120** ⁽¹⁾
 - Frame bottom cross-member W150+650 to use with LVS08566 **LVS01121** ⁽¹⁾
 - Frame bottom cross-member W650+150 to use with LVS08566 **LVS01122** ⁽¹⁾
- ⁽¹⁾ Spare parts on stock in RAL 9003 only.

Door accessories

Reinforced door striker

LVS01114

DD435601 EPS

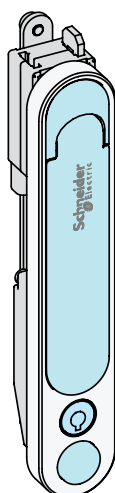


- 1 4 screws MSC HXG SK M6 x 20
- 2 4 door strike stoppers
- 3 4 washers
- 4 4 captive nuts for frame

PrismaSeT P rotary handle spare parts

LVS01219

mz3131101_1 EPS



- 1 Handle housing block
- 2 P adapter link part
- 3 Screw, pan head, M5x8
- 4 The key of 405
- 5 1 crosshead screw
- 6 Omega fix part
- 7 Driver block
- 8 Hex locking screw, M6x10
- 9 Self tapping screw, pan head, ST3.5x15

Designing horizontal busbars

Linergy LGE

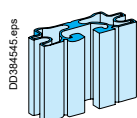
Electrical characteristics

Permissible current and selection of Linergy LGE busbars
Up to 3200 A

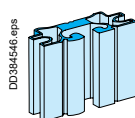
Linergy LGE section

Type of bars	Permissible current (A)											
	Ambient temperature around the switchboard											
	25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
Size per phase	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
Linergy LGE 630	680	580	650	550	630	530	590	500	550	470	520	■
Linergy LGE 800	860	740	830	710	800	680	750	630	700	600	660	■
Linergy LGE 1000	1080	920	1040	884	1000	850	940	790	880	750	830	■
Linergy LGE 1250	1350	1150	1300	1100	1250	1050	1170	1000	1100	930	1020	■
Linergy LGE 1600	1730	1580	1690	1530	1650	1480	1550	1380	1450	1300	1350	■
Linergy LGE 2000	2200	1810	2100	1730	2000	1650	1900	1560	1810	1480	1720	■
Linergy LGE 2500	2640	2230	2540	2160	2440	2100	2310	2000	2240	1930	2120	■
Linergy LGE 3200	3400	3020	3300	2900	3200	2800	3040	2660	2890	2520	2750	■

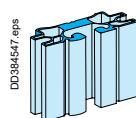
■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.



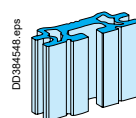
Section 630 A.
Cat. No. LVS04560.



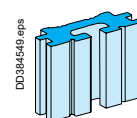
Section 800 A.
Cat. No. LVS04561.



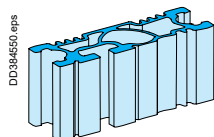
Section 1000 A.
Cat. No. LVS04562.



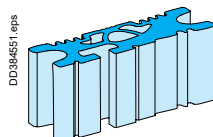
Section 1250 A.
Cat. No. LVS04563.



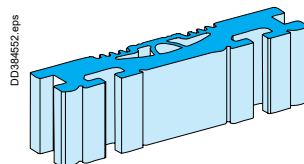
Section 1600 A.
Cat. No. LVS04564.



Section 2000 A.
Cat. No. LVS04565.



Section 2500 A.
Cat. No. LVS04566.



Section 3200 A.
Cat. No. LVS04567.

Designing vertical busbars

Linery LGE

Electrical characteristics

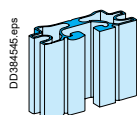
Permissible current and selection of Linery LGE busbars

Up to 3200 A

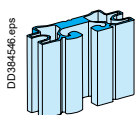
Linery LGE section

Type of bars	Permissible current (A)											
	Ambient temperature around the switchboard											
	25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
Size per phase	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
Linery LGE 630	680	580	650	550	630	530	590	500	550	470	520	■
Linery LGE 800	860	740	830	710	800	680	750	630	700	600	660	■
Linery LGE 1000	1080	920	1040	884	1000	850	940	790	880	750	830	■
Linery LGE 1250	1350	1150	1300	1100	1250	1050	1170	1000	1100	930	1020	■
Linery LGE 1600	1730	1580	1690	1530	1650	1480	1550	1380	1450	1300	1350	■
Linery LGE 2000	2200	1810	2100	1730	2000	1650	1900	1560	1810	1480	1720	■
Linery LGE 2500	2640	2230	2540	2160	2440	2100	2310	2000	2240	1930	2120	■
Linery LGE 3200	3400	3020	3300	2900	3200	2800	3040	2660	2890	2520	2750	■

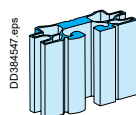
■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.



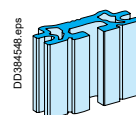
Section 630 A.
Cat. No. LVS04560.



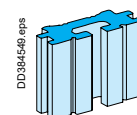
Section 800 A.
Cat. No. LVS04561.



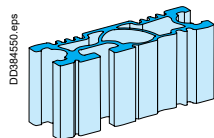
Section 1000 A.
Cat. No. LVS04562.



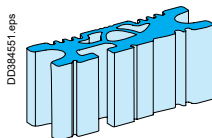
Section 1250 A.
Cat. No. LVS04563.



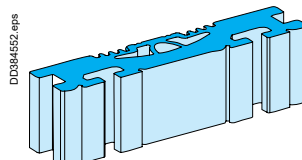
Section 1600 A.
Cat. No. LVS04564.



Section 2000 A.
Cat. No. LVS04565.



Section 2500 A.
Cat. No. LVS04566.



Section 3200 A.
Cat. No. LVS04567.

Designing connections between a device and busbars

Fixed MasterPact 08-16

Electrical characteristics

MasterPact MTZ2 08 to 16

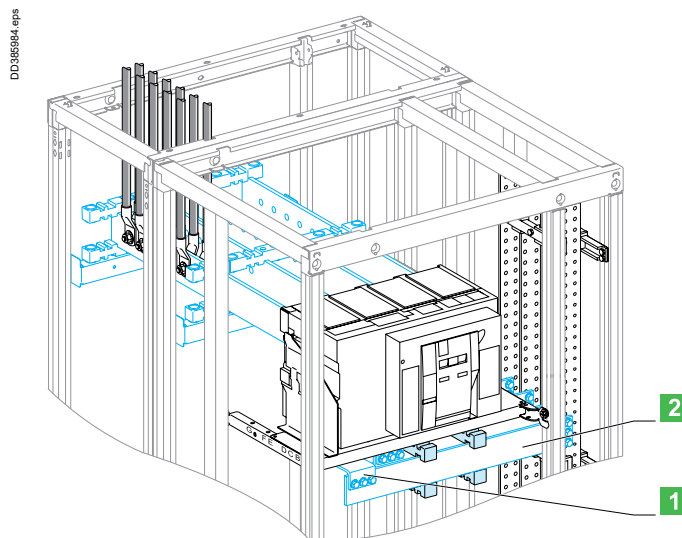
Fixed

Vertical busbars on the left or right

Linergy LGYE busbar

Connections drawings supplied by

Schneider Electric

**1** Liaison**2** Horizontal link.

Using the data below, it is possible to determine the size of the copper bars and the maximum permissible currents when making the connections to busbars for a vertical, fixed MasterPact MTZ2 08/16, front or rear connection, taking into account the ambient temperature around the switchboard and the IP value.

Connection

Flat bars, 5 mm thick

Device		Permissible current (A)											
		Ambient temperature around the switchboard ⁽¹⁾											
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
MTZ2 08	Size per phase	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	
MTZ2 10	Size per phase	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
MTZ2 12	Size per phase	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	■
	I (A)	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	
MTZ2 16	Size per phase	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	■
	I (A)	1600	1600	1600	1570	1600	1520	1570	1470	1520	1420	1470	

Horizontal link

Flat bars, 5 mm thick

Device		Permissible current (A)											
		Ambient temperature around the switchboard											
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
MTZ2 08	Size per phase	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	
MTZ2 10	Size per phase	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
MTZ2 12	Size per phase	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	■
	I (A)	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	
MTZ2 16	Size per phase	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	■
	I (A)	1600	1600	1600	1570	1600	1520	1570	1470	1520	1420	1470	

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

(1) In the case of a door mounted at the rear of cubicle, add 10 °C.

Note: The values indicated above have been validated for PrismaSeT P switchboards.

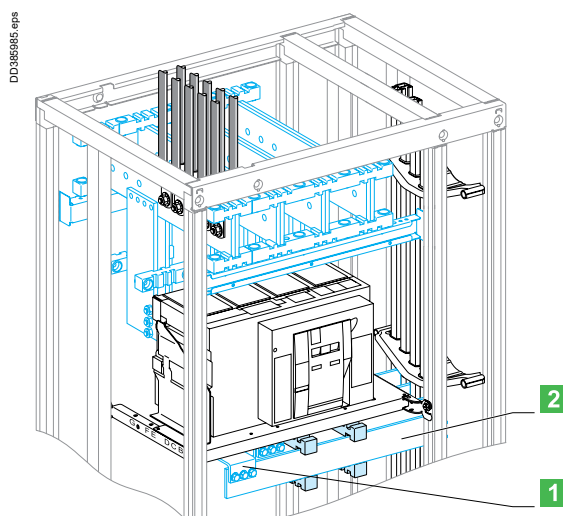
Designing connections between a device and busbars

Fixed MasterPact 08-32

Electrical characteristics

MasterPact MTZ2 08 to 32
Fixed

Vertical busbars on the left or right
Linergy LGYE busbar
Connections drawings supplied by
Schneider Electric



1 Connection.

2 Horizontal link.

Using the data below, it is possible to determine the size of the copper bars and the maximum permissible currents when making the connections to busbars for a vertical, fixed MasterPact MTZ2 08/32, front or rear connection, taking into account the ambient temperature around the switchboard and the IP value.

Connection

Flat bars, 10 mm thick

Device		Permissible current (A)											
		Ambient temperature around the switchboard											
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
MTZ2 08	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	
MTZ2 10	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
MTZ2 12	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	■
	I (A)	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	
MTZ2 16	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	■
	I (A)	1600	1600	1600	1570	1600	1520	1570	1470	1520	1420	1470	
MTZ2 20	Size per phase	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	■
	I (A)	2000	2000	2000	2000	2000	2000	2000	1950	2000	1900	1950	
MTZ2 25	Size per phase	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	■
	I (A)	2500	2500	2500	2500	2500	2460	2500	2380	2500	2300	2460	
MTZ2 32	Size per phase	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	■
	I (A)	3200	3000	3170	2910	3080	2820	3000	2730	2910	2630	2820	

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Horizontal link

Flat bars, 10 mm thick

Device		Permissible current (A)											
		Ambient temperature around the switchboard											
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
MTZ2 08	Size per phase	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	
MTZ2 10	Size per phase	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
MTZ2 12	Size per phase	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	■
	I (A)	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	
MTZ2 16	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	■
	I (A)	1600	1600	1600	1570	1600	1520	1570	1470	1520	1420	1470	
MTZ2 20	Size per phase	2b 60 x 10	2b 60 x 10	2b 60 x 10	2b 60 x 10	2b 60 x 10	2b 60 x 10	2b 60 x 10	2b 60 x 10	2b 60 x 10	2b 60 x 10	2b 60 x 10	■
	I (A)	2000	2000	2000	2000	2000	2000	2000	1950	2000	1900	1950	
MTZ2 25	Size per phase	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	■
	I (A)	2500	2500	2500	2500	2500	2460	2500	2380	2500	2300	2460	
MTZ2 32	Size per phase	2b 100x10	2b 100x10	2b 100x10	2b 100x10	2b 100x10	2b 100x10	2b 100x10	2b 100x10	2b 100x10	2b 100x10	2b 100x10	■
	I (A)	3200	3000	3170	2910	3080	2820	3000	2730	2910	2630	2820	

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Note: The values indicated above have been validated for PrismaSeT P switchboards.

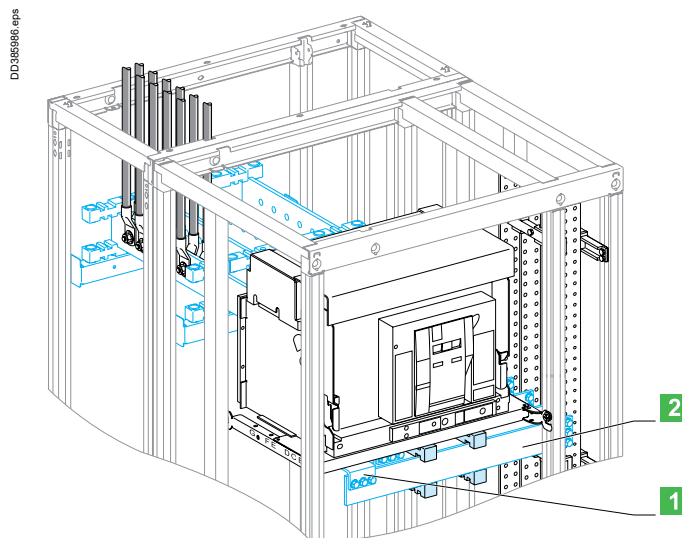
Designing connections between a device and busbars

Drawout MasterPact 08-16

Electrical characteristics

MasterPact MTZ2 08 to 16
Drawout

Vertical busbars on the left or right
 Linergy LGYE busbar
 Connections drawings supplied by
 Schneider Electric



- 1** Connection.
2 Horizontal link.

Using the data below, it is possible to determine the size of the copper bars and the maximum permissible currents when making the connections to busbars for a vertical, drawout MasterPact MTZ2 08/16, front or rear connection, taking into account the ambient temperature around the switchboard and the IP value.

Connection

Flat bars, 5 mm thick

Device		Permissible current (A)											
		Ambient temperature around the switchboard ⁽¹⁾											
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
MTZ2 08	Size per phase	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	
MTZ2 10	Size per phase	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
MTZ2 12	Size per phase	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	■
	I (A)	1250	1250	1250	1250	1250	1230	1250	1200	1230	1160	1200	
MTZ2 16	Size per phase	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	■
	I (A)	1560	1480	1520	1430	1480	1380	1430	1330	1380	1280	1330	

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Horizontal link

Flat bars, 5 mm thick

Device		Permissible current (A)											
		Ambient temperature around the switchboard											
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
MTZ2 08	Size per phase	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	
MTZ2 10	Size per phase	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
MTZ2 12	Size per phase	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	■
	I (A)	1250	1250	1250	1250	1250	1230	1250	1200	1230	1160	1200	
MTZ2 16	Size per phase	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	■
	I (A)	1560	1480	1520	1430	1480	1380	1430	1330	1380	1280	1330	

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

(1) In the case of a door mounted at the rear of cubicle, add 10 °C.

Note: The values indicated above have been validated for PrismaSeT P switchboards.

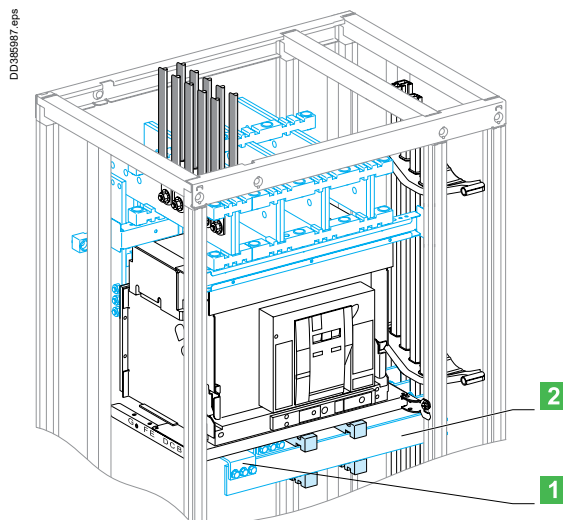
Designing connections between a device and busbars

Drawout MasterPact 08-32

Electrical characteristics

MasterPact MTZ2 08 to 32
Drawout

Vertical busbars on the left or right
Linery LGE busbar
Connections drawings supplied by
Schneider Electric



1 Connection.

2 Horizontal link.

Using the data below, it is possible to determine the size of the copper bars and the maximum permissible currents when making the connections to busbars for a vertical, drawout MasterPact MTZ2 08/32, front or rear connection, taking into account the ambient temperature around the switchboard and the IP value.

Connection

Flat bars, 10 mm thick

Device		Permissible current (A)											
		Ambient temperature around the switchboard											
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
MTZ2 08	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	
MTZ2 10	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
MTZ2 12	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	■
	I (A)	1250	1250	1250	1210	1250	1180	1210	1140	1180	1100	1140	
MTZ2 16	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	■
	I (A)	1560	1480	1520	1430	1480	1380	1430	1330	1380	1280	1330	
MTZ2 20	Size per phase	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	■
	I (A)	2000	2000	2000	1950	2000	1900	1950	1830	1900	1760	1830	
MTZ2 25	Size per phase	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	■
	I (A)	2470	2280	2410	2210	2350	2140	2280	2070	2210	2000	2140	
MTZ2 32	Size per phase	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	■
	I (A)	2960	2730	2890	2630	2820	2530	2730	2450	2630	2370	2530	

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Horizontal link

Flat bars, 10 mm thick

Device		Permissible current (A)											
		Ambient temperature around the switchboard											
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
MTZ2 08	Size per phase	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	
MTZ2 10	Size per phase	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
MTZ2 12	Size per phase	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	■
	I (A)	1250	1250	1250	1210	1250	1180	1210	1140	1180	1100	1140	
MTZ2 16	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	■
	I (A)	1560	1480	1520	1430	1480	1380	1430	1330	1380	1280	1330	
MTZ2 20	Size per phase	2b 60 x 10	2b 60 x 10	2b 60 x 10	2b 60 x 10	2b 60 x 10	2b 60 x 10	2b 60 x 10	2b 60 x 10	2b 60 x 10	2b 60 x 10	2b 60 x 10	■
	I (A)	2000	2000	2000	1950	2000	1900	1950	1830	1900	1760	1830	
MTZ2 25	Size per phase	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	■
	I (A)	2470	2280	2410	2210	2350	2140	2280	2070	2210	2000	2140	
MTZ2 32	Size per phase	2b 100x10	2b 100x10	2b 100x10	2b 100x10	2b 100x10	2b 100x10	2b 100x10	2b 100x10	2b 100x10	2b 100x10	2b 100x10	■
	I (A)	2960	2730	2890	2630	2820	2530	2730	2450	2630	2370	2530	

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Note: The values indicated above have been validated for PrismaSeT P switchboards.

Designing connections between a device and busbars

Dedicated cubicle

Fixed MasterPact 08-32

Electrical characteristics

MasterPact MTZ2 08 to 32

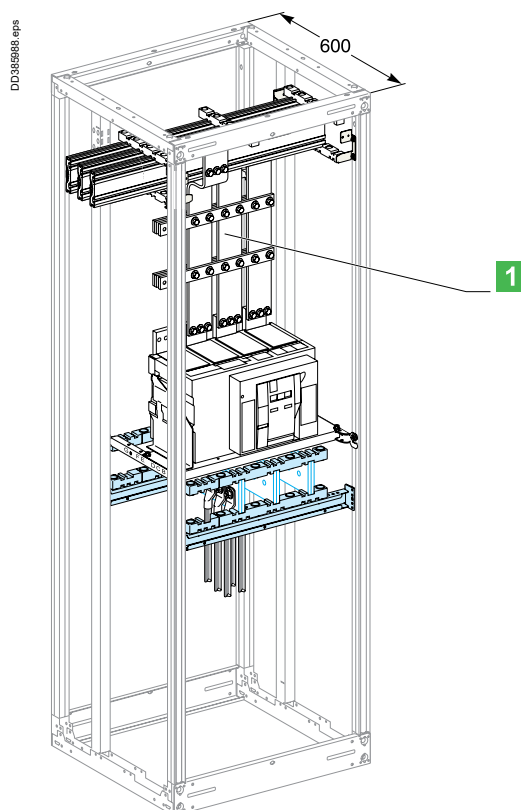
Fixed

Dedicated cubicle

Linergy LGYE busbar

Connections drawings supplied by

Schneider Electric



Connection

Flat bars, 10 mm thick

Device		Permissible current (A)											
		Ambient temperature around the switchboard											
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
MTZ2 08	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	
MTZ2 10	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
MTZ2 12	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	■
	I (A)	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	
MTZ2 16	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	■
	I (A)	1600	1600	1600	1570	1600	1520	1570	1470	1520	1420	1470	
MTZ2 20	Size per phase	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	■
	I (A)	2000	2000	2000	2000	2000	2000	2000	1950	2000	1900	1950	
MTZ2 25	Size per phase	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	■
	I (A)	2500	2500	2500	2500	2500	2460	2500	2380	2500	2300	2460	
MTZ2 32	Size per phase	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	■
	I (A)	3200	3000	3170	2910	3080	2820	3000	2730	2910	2630	2820	

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Designing connections between a device and busbars

Dedicated cubicle

Drawout MasterPact 08-32

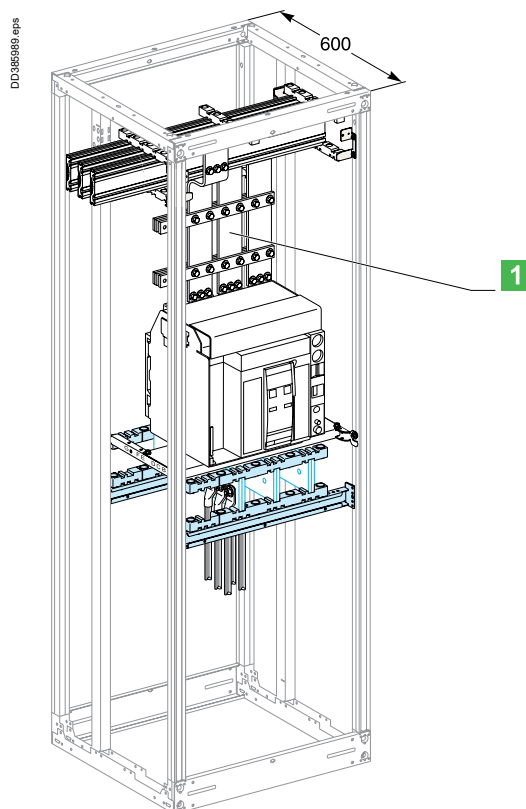
Electrical characteristics

MasterPact MTZ2 08 to 32

Drawout

Dedicated cubicle

Linergy LGYE busbar

Connections drawings supplied by
Schneider Electric

Connection

Flat bars, 10 mm thick

Device		Permissible current (A)											
		Ambient temperature around the switchboard											
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
MTZ2 08	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	
MTZ2 10	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
MTZ2 12	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	■
	I (A)	1250	1250	1250	1210	1250	1180	1210	1140	1180	1100	1140	
MTZ2 16	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	■
	I (A)	1560	1480	1520	1430	1480	1380	1430	1330	1380	1280	1330	
MTZ2 20	Size per phase	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	■
	I (A)	2000	2000	2000	1950	2000	1900	1950	1830	1900	1760	1830	
MTZ2 25	Size per phase	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	■
	I (A)	2470	2280	2410	2210	2350	2140	2280	2070	2210	2000	2140	
MTZ2 32	Size per phase	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	■
	I (A)	2960	2730	2890	2630	2820	2530	2730	2450	2630	2370	2530	

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

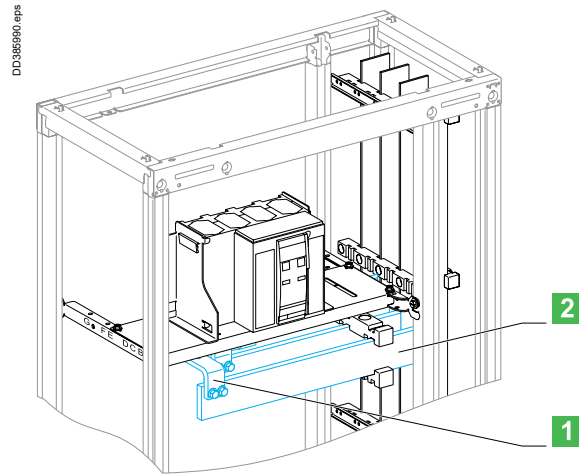
Designing connections between a device and busbars

Fixed MasterPact 06-16

Electrical characteristics

MasterPact MTZ1 06 to 16
Fixed

Vertical busbars on the left or right
Linergy LGYE busbar
Connections drawings supplied by
Schneider Electric



- 1 Connection.
2 Horizontal link.

Using the data below, it is possible to determine the size of the copper bars and the maximum permissible currents when making the connections to busbars for a vertical, fixed MasterPact MTZ1 06/16, taking into account the ambient temperature around the switchboard and the IP value.

Connection

Flat bars, 5 mm thick

Device		Permissible current (A)											
		Ambient temperature around the switchboard											
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
MTZ1 06	Size per phase	1b 50 x 5	1b 50 x 5	1b 50 x 5	1b 50 x 5	1b 50 x 5	1b 50 x 5	1b 50 x 5	1b 50 x 5	1b 50 x 5	1b 50 x 5	1b 50 x 5	■
	I (A)	630	630	630	630	630	630	630	630	630	630	630	
MTZ1 08	Size per phase	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	
MTZ1 10	Size per phase	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
MTZ1 12	Size per phase	3b 50 x 5	3b 50 x 5	3b 50 x 5	3b 50 x 5	3b 50 x 5	3b 50 x 5	3b 50 x 5	3b 50 x 5	3b 50 x 5	3b 50 x 5	3b 50 x 5	■
	I (A)	1250	1250	1250	1250	1250	1250	1250	1250	1250	1200	1250	
MTZ1 16 ⁽¹⁾	Size per phase	4b 50 x 5	4b 50 x 5	4b 50 x 5	4b 50 x 5	4b 50 x 5	4b 50 x 5	4b 50 x 5	4b 50 x 5	4b 50 x 5	4b 50 x 5	4b 50 x 5	■
	I (A)	1600	1570	1600	1520	1570	1470	1520	1420	1470	1370	1420	

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Horizontal link

Flat bars, 5 mm thick

Device		Permissible current (A)											
		Ambient temperature around the switchboard											
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
MTZ1 06	Size per phase	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	■
	I (A)	630	630	630	630	630	630	630	630	630	630	630	
MTZ1 08	Size per phase	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	
MTZ1 10	Size per phase	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
MTZ1 12	Size per phase	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	■
	I (A)	1250	1250	1250	1250	1250	1250	1250	1250	1250	1200	1250	
MTZ1 16	Size per phase	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	■
	I (A)	1600	1570	1600	1520	1570	1470	1520	1420	1470	1370	1420	

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

(1) Make the neutral connection with two bars, 50 x 5 mm.

Note: The values indicated above have been validated for PrismaSeT P switchboards.

Designing connections between a device and busbars

Fixed MasterPact 06-16

Electrical characteristics

Connection

Flat bars, 10 mm thick

Device		Permissible current (A)											
		Ambient temperature around the switchboard											
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
MTZ1 06	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	■
	I (A)	630	630	630	630	630	630	630	630	630	630	630	
MTZ1 08	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	
MTZ1 10	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
MTZ1 12	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	■
	I (A)	1250	1250	1250	1250	1250	1250	1250	1250	1250	1180	1230	
MTZ1 16 ⁽¹⁾	Size per phase	2b 50 x 10	2b 50 x 10	2b 50 x 10	2b 50 x 10	2b 50 x 10	2b 50 x 10	2b 50 x 10	2b 50 x 10	2b 50 x 10	2b 50 x 10	2b 50 x 10	■
	I (A)	1600	1570	1600	1520	1570	1470	1520	1420	1470	1370	1420	

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Horizontal link

Flat bars, 10 mm thick

Device		Permissible current (A)											
		Ambient temperature around the switchboard											
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
MTZ1 06	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	■
	I (A)	630	630	630	630	630	630	630	630	630	630	630	
MTZ1 08	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	
MTZ1 10	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	960	1000	
MTZ1 12	Size per phase	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	■
	I (A)	1250	1250	1250	1250	1250	1210	1250	1160	1210	1180	1230	
MTZ1 16	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	■
	I (A)	1600	1570	1600	1520	1570	1470	1520	1420	1470	1370	1420	

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

(1) Make the neutral connection with one bar, 50 x 10 mm.

Note: The values indicated above have been validated for PrismaSeT P switchboards.

Designing connections between a device and busbars

Drawout MasterPact 06-16

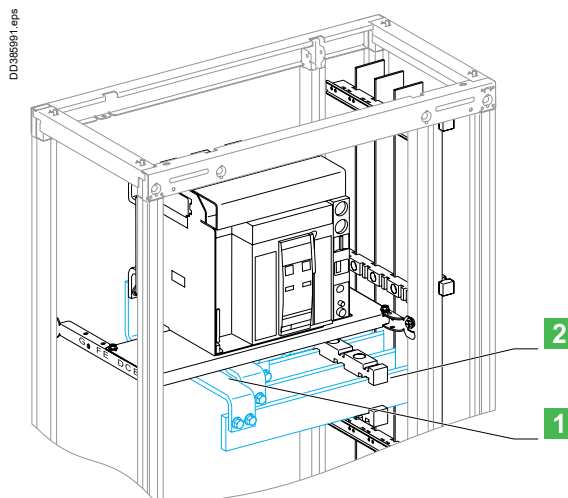
Electrical characteristics

MasterPact MTZ1 06 to 16

Drawout

Vertical busbars on the left or right

Linergy LGYE busbar

Connections drawings supplied by
Schneider Electric

- 1 Connection.
2 Horizontal link.

Using the data below, it is possible to determine the size of the copper bars and the maximum permissible currents when making the connections to busbars for a vertical, drawout MasterPact MTZ1 06/16, taking into account the ambient temperature around the switchboard and the IP value.

Connection

Flat bars, 5 mm thick

Device		Permissible current (A)											
		Ambient temperature around the switchboard											
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
MTZ1 06	Size per phase	1b 50 x 5	1b 50 x 5	1b 50 x 5	1b 50 x 5	1b 50 x 5	1b 50 x 5	1b 50 x 5	1b 50 x 5	1b 50 x 5	1b 50 x 5	1b 50 x 5	■
	I (A)	630	630	630	630	630	630	630	630	630	630	630	
MTZ1 08	Size per phase	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	
MTZ1 10	Size per phase	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	960	1000	
MTZ1 12	Size per phase	3b 50 x 5	3b 50 x 5	3b 50 x 5	3b 50 x 5	3b 50 x 5	3b 50 x 5	3b 50 x 5	3b 50 x 5	3b 50 x 5	3b 50 x 5	3b 50 x 5	■
	I (A)	1250	1250	1250	1250	1250	1230	1250	1180	1230	1130	1180	
MTZ1 16 ⁽¹⁾	Size per phase	4b 50 x 5	4b 50 x 5	4b 50 x 5	4b 50 x 5	4b 50 x 5	4b 50 x 5	4b 50 x 5	4b 50 x 5	4b 50 x 5	4b 50 x 5	4b 50 x 5	■
	I (A)	1560	1430	1520	1430	1480	1380	1430	1330	1380	1280	1330	

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Horizontal link

Flat bars, 5 mm thick

Device		Permissible current (A)											
		Ambient temperature around the switchboard											
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
MTZ1 06	Size per phase	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	■
	I (A)	630	630	630	630	630	630	630	630	630	630	630	
MTZ1 08	Size per phase	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	
MTZ1 10	Size per phase	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	960	1000	
MTZ1 12	Size per phase	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	■
	I (A)	1250	1250	1250	1250	1250	1230	1250	1180	1230	1130	1180	
MTZ1 16	Size per phase	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	■
	I (A)	1560	1430	1520	1430	1480	1380	1430	1330	1380	1280	1330	

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

(1) Make the neutral connection with two bars, 50 x 5 mm.

Note: The values indicated above have been validated for PrismaSeT P switchboards.

Designing connections between a device and busbars

Drawout MasterPact 06-16

Electrical characteristics

Connection

Flat bars, 10 mm thick

Device		Permissible current (A)											
		Ambient temperature around the switchboard											
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
MTZ1 06	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	■
	I (A)	630	630	630	630	630	630	630	630	630	630	630	
MTZ1 08	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	
MTZ1 10	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	960	1000	
MTZ1 12	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	■
	I (A)	1250	1250	1250	1250	1250	1210	1250	1160	1210	1110	1160	
MTZ1 16 ⁽¹⁾	Size per phase	2b 50 x 10	2b 50 x 10	2b 50 x 10	2b 50 x 10	2b 50 x 10	2b 50 x 10	2b 50 x 10	2b 50 x 10	2b 50 x 10	2b 50 x 10	2b 50 x 10	■
	I (A)	1560	1430	1520	1430	1480	1380	1430	1330	1380	1280	1330	

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Horizontal link

Flat bars, 10 mm thick

Device		Permissible current (A)											
		Ambient temperature around the switchboard											
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
MTZ1 06	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	■
	I (A)	630	630	630	630	630	630	630	630	630	630	630	
MTZ1 08	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	
MTZ1 10	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	960	1000	
MTZ1 12	Size per phase	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	■
	I (A)	1250	1250	1250	1250	1250	1210	1250	1160	1210	1110	1160	
MTZ1 16	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	■
	I (A)	1560	1430	1520	1430	1480	1380	1430	1330	1380	1280	1330	

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

⁽¹⁾ Make the neutral connection with one bar, 50 x 10 mm.**Note:** The values indicated above have been validated for PrismaSeT P switchboards.

Designing connections ≤ 630 A

Device connections

Electrical characteristics

Flexible copper bars with an insulating sheath

Switchboards that comply with standard IEC 61439-1 and 2

It is imperative to use the values indicated below that have been validated for the installation of devices in PrismaSeT switchboards.

The parameters determining the size of flexible bars are:

- The environment in which the devices are installed:
 - Position in the enclosure
 - Dimensions of other conductors in the circuit
 - Ambient temperature around the switchboard
- The characteristics of the connected devices:
 - Device heat losses
 - The type of installation (horizontal or vertical)

Only the equipment manufacturer with in-depth knowledge on:

- The characteristics of the installed devices.
- The configuration of the installation in the enclosure can provide the correct sizes of flexible bars for a given permissible current.

Insulated, flexible bars make for easy, fast and flexible implementation up to 630 A, but higher ratings require sizes that cancel these advantages.

For high I_{sc} values, it is advised to use rigid bars which require fewer supports.

Insulated flexible bars are better than cables, they offer:

- Better insulation temperature withstand (125 °C for bars, 105 °C for cables) and a larger exchange surface for an equivalent size, that is, a smaller size for a given current.
- Greater rigidity offering better electrodynamic characteristics for short-circuit currents.
- No intermediate parts (lugs) for a direct connection between the device and the busbars therefore less temperature rise and less risk of error.
- Fast implementation of prefabricated connections already cut to length, formed and drilled.
- Length limited to 500 mm.

Technical characteristics

- Thickness of the insulation: variable depending on the bar size, 2 mm on average
- Rated insulation level $U_i = 1000$ V
- Impulse withstand voltage $U_{imp} = 12$ kV
- Maximum withstand temperature of insulating material = 125 °C.

Connection

In all cubicles with IP ≤ 55 :

- The switchboard internal temperature is 60 °C.
- The withstand temperature of the insulating material is 125 °C.

If the withstand temperature of the insulation is only 105 °C, use the next largest size of flexible bar given for standard insulated flexible bars (withstand temperature = 125 °C).

The bar sizes indicated below take into account the derating curves of devices.

Note: The values indicated above have been validated for PrismaSeT P switchboards.

Designing connections ≤ 630 A

ComPacT circuit breakers NSX100 to NSX630

Insulated flexible copper bars ⁽¹⁾

Electrical characteristics

ComPacT NSX100 to NSX630

Insulated flexible copper bars (withstand temperature = 125 °C)

We recommend insulated flexible copper bars for ComPacT NSX connections from 100 to 630 A

Devices		Permissible current (A)					
		Ambient temperature around the switchboard					
		25 °C	30 °C	35 °C	40 °C	45 °C	50 °C
IP ≤ 31							
NSX100 TMD-TMG	Size per phase	20 x 2	20 x 2	20 x 2	20 x 2	20 x 2	20 x 2
	I _{nc} (A)	100	100	100	97.5	95	92.5
NSX125 TMD-TMG	Size per phase	20 x 2	20 x 2	20 x 2	20 x 2	20 x 2	20 x 2
	I _{nc} (A)	125	125	125	122	119	115
NSX160 TMD-TMG	Size per phase	20 x 3	20 x 3	20 x 3	20 x 3	20 x 3	20 x 3
	I _{nc} (A)	160	160	160	156	152	148
NSX250 TMD-TMG	Size per phase	20 x 3	20 x 3	20 x 3	20 x 3	20 x 3	20 x 3
	I _{nc} (A)	250	244	238	231	225	219
NSX100 STR	Size per phase	20 x 2	20 x 2	20 x 2	20 x 2	20 x 2	20 x 2
	I _{nc} (A)	100	100	100	100	100	100
NSX160 STR	Size per phase	20 x 3	20 x 3	20 x 3	20 x 3	20 x 3	20 x 3
	I _{nc} (A)	160	160	160	160	160	160
NSX250 STR	Size per phase	20 x 3	20 x 3	20 x 3	20 x 3	20 x 3	20 x 3
	I _{nc} (A)	250	245	237	230	225	220
NSX400B/F/N/H/S/L fixed	Size per phase	32 x 5	32 x 5	32 x 5	32 x 5	32 x 5	32 x 5
	I _{nc} (A)	400	400	400	390	380	370
NSX630B/F/N/H/S/L fixed	Size per phase	32 x 6	32 x 6	32 x 6	32 x 6	32 x 6	32 x 6
	I _{nc} (A)	630	615	600	585	570	550
IP > 31							
NSX100 TMD-TMG	Size per phase	20 x 2	20 x 2	20 x 2	20 x 2	20 x 2	20 x 2
	I _{nc} (A)	100	100	100	97.5	95	92.5
NSX125 TMD-TMG	Size per phase	20 x 2	20 x 2	20 x 2	20 x 2	20 x 2	20 x 2
	I _{nc} (A)	125	125	125	122	119	115
NSX160 TMD-TMG	Size per phase	20 x 3	20 x 3	20 x 3	20 x 3	20 x 3	20 x 3
	I _{nc} (A)	160	160	160	156	152	148
NSX250 TMD-TMG	Size per phase	20 x 3	20 x 3	20 x 3	20 x 3	20 x 3	20 x 3
	I _{nc} (A)	238	231	225	219	213	207
NSX100 STR	Size per phase	20 x 2	20 x 2	20 x 2	20 x 2	20 x 2	20 x 2
	I _{nc} (A)	100	100	100	100	100	100
NSX160 STR	Size per phase	20 x 3	20 x 3	20 x 3	20 x 3	20 x 3	20 x 3
	I _{nc} (A)	160	160	160	160	160	160
NSX250 STR	Size per phase	20 x 3	20 x 3	20 x 3	20 x 3	20 x 3	20 x 3
	I _{nc} (A)	237	230	225	220	215	210
NSX400B/F/N/H/S/L fixed	Size per phase	32 x 5	32 x 5	32 x 5	32 x 5	32 x 5	32 x 5
	I _{nc} (A)	400	400	400	390	380	370
NSX630B/F/N/H/S/L fixed	Size per phase	32 x 6	32 x 6	32 x 6	32 x 6	32 x 6	32 x 6
	I _{nc} (A)	600	585	570	550	535	520

Note: The values indicated above have been validated for PrismaSeT P switchboards.

⁽¹⁾ We recommend insulated flexible copper bars instead of copper cables for all NSX100 to NSX630 connection.

Designing connections ≤ 630 A

ComPacT circuit breakers NSX100 to NSX250

Copper cable

Electrical characteristics

Cables: practical guidelines

This section does not concern customer's loads connection (see IEC 61439-1, IEC 60364).

Schneider Electric provides cabling recommendations according to the rating of the circuit breaker.

The size of cables must be selected according to:

- The level of current
- The ambient temperature around the conductors
- The degree of protection for the switchboard

The tables below take into account the installation conditions for each type of device (permissible temperature at connection terminals, etc.).

They follow the temperature derating values for installed devices in all cubicles with cover panels rated IP ≤ 55.

- Switchboard internal temperature 60 °C
- Connections using copper cables

The withstand temperature of insulating material of cable = 105 °C

The withstand voltage of insulating material of cable ≥ 1000 V

ComPacT NSX100 to NSX250

Copper cable, withstand temperature = 105 °C

Devices		Permissible current (A)					
		Ambient temperature around the switchboard					
		25 °C	30 °C	35 °C	40 °C	45 °C	50 °C
IP ≤ 31							
NSX100 TMD-TMG	Size per phase	50 mm ²	50 mm ²	50 mm ²	50 mm ²	50 mm ²	50 mm ²
	I _{nc} (A)	100	100	100	97.5	95	92.5
NSX125 TMD-TMG	Size per phase	70 mm ²	70 mm ²	70 mm ²	70 mm ²	70 mm ²	70 mm ²
	I _{nc} (A)	125	125	125	122	119	115
NSX160 TMD-TMG	Size per phase	95 mm ²	95 mm ²	95 mm ²	95 mm ²	95 mm ²	95 mm ²
	I _{nc} (A)	160	160	160	156	152	148
NSX250 TMD-TMG	Size per phase	120 mm ²	120 mm ²	120 mm ²	120 mm ²	120 mm ²	120 mm ²
	I _{nc} (A)	250	244	238	231	225	219
NSX100 STR	Size per phase	50 mm ²	50 mm ²	50 mm ²	50 mm ²	50 mm ²	50 mm ²
	I _{nc} (A)	100	100	100	100	100	100
NSX160 STR	Size per phase	95 mm ²	95 mm ²	95 mm ²	95 mm ²	95 mm ²	95 mm ²
	I _{nc} (A)	160	160	160	160	160	160
NSX250 STR	Size per phase	120 mm ²	120 mm ²	120 mm ²	120 mm ²	120 mm ²	120 mm ²
	I _{nc} (A)	250	245	237	230	225	220
IP > 31							
NSX100 TMD-TMG	Size per phase	50 mm ²	50 mm ²	50 mm ²	50 mm ²	50 mm ²	50 mm ²
	I _{nc} (A)	100	100	100	97.5	95	92.5
NSX125 TMD-TMG	Size per phase	70 mm ²	70 mm ²	70 mm ²	70 mm ²	70 mm ²	70 mm ²
	I _{nc} (A)	125	125	125	122	119	115
NSX160 TMD-TMG	Size per phase	95 mm ²	95 mm ²	95 mm ²	95 mm ²	95 mm ²	95 mm ²
	I _{nc} (A)	160	160	160	156	152	148
NSX250 TMD-TMG	Size per phase	120 mm ²	120 mm ²	120 mm ²	120 mm ²	120 mm ²	120 mm ²
	I _{nc} (A)	237	230	225	220	215	210
NSX100 STR	Size per phase	50 mm ²	50 mm ²	50 mm ²	50 mm ²	50 mm ²	50 mm ²
	I _{nc} (A)	100	100	100	100	100	100
NSX160 STR	Size per phase	95 mm ²	95 mm ²	95 mm ²	95 mm ²	95 mm ²	95 mm ²
	I _{nc} (A)	160	160	160	160	160	160
NSX250 STR	Size per phase	120 mm ²	120 mm ²	120 mm ²	120 mm ²	120 mm ²	120 mm ²
	I _{nc} (A)	237	230	225	220	215	210

Note: The values indicated above have been validated for PrismaSeT P switchboards.

Note: Schneider Electric recommends connecting ComPacT NSX400/630 circuit breakers with insulated flexible bars or rigid bars > [page C-123](#).

Designing connections ≤ 630 A

ComPacT circuit breakers NSXm up to 63

Copper cable

Electrical characteristics

ComPacT NSXm up to 63

Copper cable, withstand temperature = 105°C

Devices		Permissible current (A)					
		Ambient temperature around the switchboard					
		25 °C	30 °C	35 °C	40 °C	45 °C	50 °C
IP ≤ 31							
NSXm 63	Size per phase (mm ²)	50	50	50	50	50	50
	I _{nc} (A)	100	100	96	94	90	87
IP > 31							
NSXm 63	Size per phase (mm ²)	50	50	50	50	50	50
	I _{nc} (A)	100	100	96	94	90	87

Note: The values indicated above have been validated for PrismaSeT P switchboards.

C

Designing cable connections

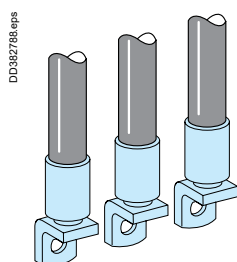
Tubular lugs

Electrical characteristics

Tubular lugs for incoming connection blocks

Maximum size of lugs for connection to the different incoming connection blocks.

	Standard Cu lugs	Narrow Cu lugs	Narrow bimetal lugs
Incoming connection block for ComPacT NSX250 supplied via the top or the bottom, cat. no. LVS04066 and LVS04067	150 mm ²	240 mm ²	185 mm ²
In-duct incoming connection block for ComPacT NSX630 supplied via the top or the bottom cat. no. LVS04076	240 mm ²	300 mm ²	300 mm ²



Narrow bimetal lugs

Cat. no. selection

Cat. no.	Cable size (mm ²)	Quantity
Lugs for aluminium cable ⁽¹⁾		
29504	150	3
29505	150	4
29506	185	3
29507	185	4
32504	240	3
32505	240	4
32506	300	3
32507	300	4

Customer connection of devices ≥ 630 A

Maximum size and number of cables for connection to terminal extension bars (according to busbar drawing supplied) for customer connection of ComPacT NSX and MasterPact MTZ1 /MTZ2 devices.

	Cable size (mm ²)	Quantity
Size and number of cables		
Copper lugs	300	12
Bimetal lugs	240	12

⁽¹⁾ Supplied with 2 or 3 interphase barriers.

Designing customer connections

Prefabricated connections for MasterPact 06-16

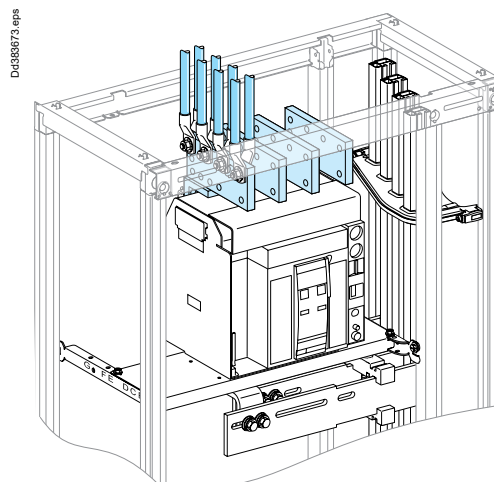
Electrical characteristics

MasterPact MTZ1 06 to 16

Vertical mounting

Front or rear connection

Incoming via top or bottom



Using the data below, it is possible to determine the permissible current for a prefabricated connection between a vertical MasterPact MTZ1 06/16, fixed or drawout, and Linergy busbars depending on the ambient temperature around the switchboard and the IP value.

Fixed

Prefabricated connections

Device and cat. no.	Permissible current (A)											
	Ambient temperature around the switchboard											
	25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
MTZ1 06 3P cat. no. 33642	630	630	630	630	630	630	630	630	630	630	630	■
4P cat. no. 33643												
MTZ1 08 3P cat. no. 33642	800	800	800	800	800	800	800	800	800	800	800	■
4P cat. no. 33643												
MTZ1 10 3P cat. no. 33642	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	■
4P cat. no. 33643												
MTZ1 12 3P ref. 33642 + 33644	1250	1250	1250	1250	1250	1250	1250	1200	1250	1150	1200	■
4P ref. 33643 + 33645												
MTZ1 16 3P ref. 33642 + 33644	1600	1570	1600	1520	1570	1470	1520	1420	1470	1370	1420	■
4P ref. 33643 + 33645												

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Withdrawable

Prefabricated connections

Device and cat. no.	Permissible current (A)											
	Ambient temperature around the switchboard											
	25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
MTZ1 06 3P cat. no. 33642	630	630	630	630	630	630	630	630	630	630	630	■
4P cat. no. 33643												
MTZ1 08 3P cat. no. 33642	800	800	800	800	800	800	800	800	800	800	800	■
4P cat. no. 33643												
MTZ1 10 3P cat. no. 33642	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	■
4P cat. no. 33643												
MTZ1 12 3P ref. 33642 + 33644	1250	1250	1250	1250	1250	1250	1250	1200	1250	1150	1200	■
4P ref. 33643 + 33645												
MTZ1 16 3P ref. 33642 + 33644	1560	1480	1520	1430	1480	1380	1430	1330	1380	1280	1330	■
4P ref. 33643 + 33645												

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Note: The values indicated above have been validated for PrismaSeT P switchboards.

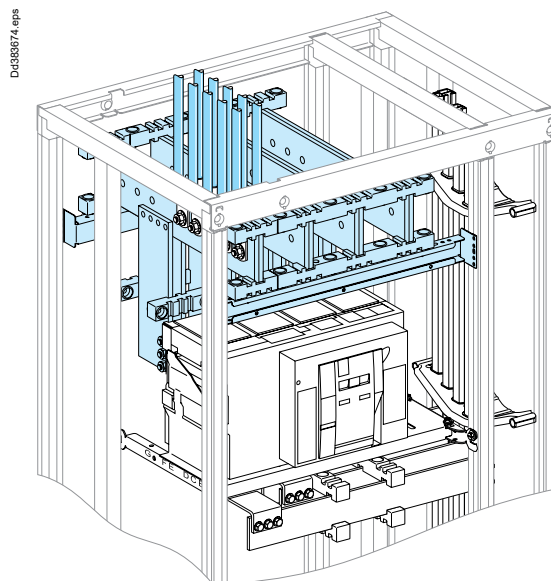
Designing customer connections

Fixed MasterPact 08-16

Electrical characteristics

MasterPact MTZ2 08 to 16
Fixed

Vertical mounting
Front or rear connection
Incoming via top or bottom
Busbar drawings supplied by
Schneider Electric



Using the data below, it is possible to determine the size of the copper bars and the maximum permissible currents when making a front or rear customer connection for a vertical, fixed MasterPact MTZ1 06/16, taking into account the ambient temperature around the switchboard and the IP value.

Connection to be made according to the busbar drawings supplied.

For connection cable cross-sections and quantities > [page C-126](#).

Customer connection

Flat bars, 5 mm thick

Device		Permissible current (A)											
		Ambient temperature around the switchboard											
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
MTZ2 08	Size per phase	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	
MTZ2 10	Size per phase	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
MTZ2 12	Size per phase	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	■
	I (A)	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	
MTZ2 16	Size per phase	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	■
	I (A)	1600	1600	1600	1570	1600	1520	1570	1470	1520	1420	1470	

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Note: The values indicated above have been validated for PrismaSeT P switchboards.

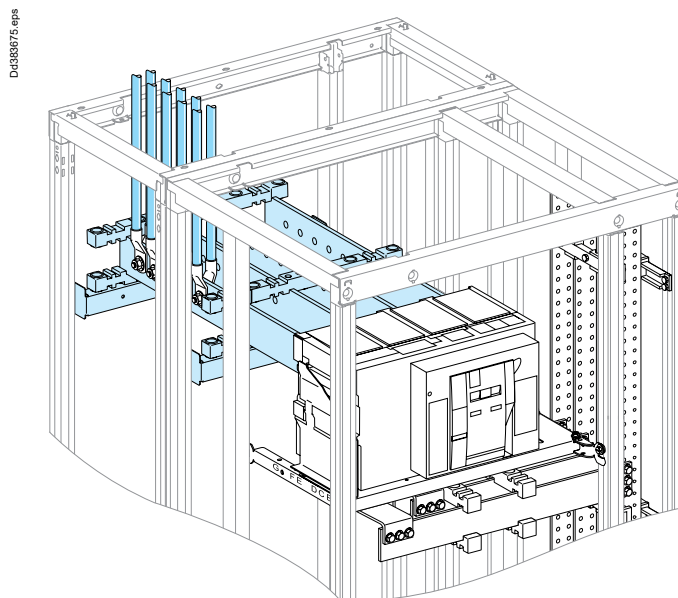
Designing customer connections

Fixed MasterPact 08-32

Electrical characteristics

MasterPact MTZ2 08 to 32
Fixed

Vertical mounting
Front or rear connection
Incoming via top or bottom
Busbar drawings supplied by
Schneider Electric



Customer connection

Flat bars, 10 mm thick

Device		Permissible current (A)											
		Ambient temperature around the switchboard											
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
MTZ2 08	Size per phase	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	
MTZ2 10	Size per phase	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
MTZ2 12	Size per phase	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	■
	I (A)	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	
MTZ2 16	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	■
	I (A)	1600	1600	1600	1570	1600	1520	1570	1470	1520	1420	1470	
MTZ2 20	Size per phase	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	■
	I (A)	2000	2000	2000	2000	2000	2000	2000	1950	2000	1900	1950	
MTZ2 25	Size per phase	2b 100 x 10	2b 100 x 10	2b 100 x 10	2b 100 x 10	2b 100 x 10	2b 100 x 10	2b 100 x 10	2b 100 x 10	2b 100 x 10	2b 100 x 10	2b 100 x 10	■
	I (A)	2500	2500	2500	2500	2500	2460	2500	2380	2500	2300	2460	
MTZ2 32	Size per phase	2b 120 x 10	2b 120 x 10	2b 120 x 10	2b 120 x 10	2b 120 x 10	2b 120 x 10	2b 120 x 10	2b 120 x 10	2b 120 x 10	2b 120 x 10	2b 120 x 10	■
	I (A)	3200	3000	3170	2910	3080	2820	3000	2730	2910	2630	2820	

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Canalis connection

For Canalis connections, apply the appropriate derating coefficient K.

Device	MTZ2 08	MTZ2 10	MTZ2 12	MTZ2 16	MTZ2 20	MTZ2 25	MTZ2 32
Derating coefficient K	1	1	1	0,98	0,98	0,97	0,97

Note: The values indicated above have been validated for PrismaSeT P switchboards.

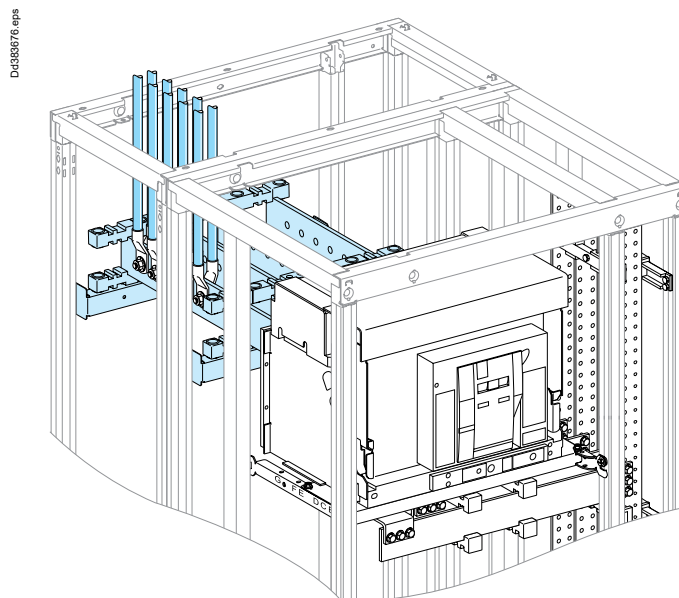
Designing customer connections

Drawout MasterPact 08-16

Electrical characteristics

MasterPact MTZ2 08 to 16
Drawout

Vertical mounting
Front or rear connection
Incoming via top or bottom
Busbar drawings supplied by
Schneider Electric



Using the data below, it is possible to determine the size of the copper bars and the maximum permissible currents when making a front or rear customer connections to busbars for a vertical, drawout MasterPact MTZ1 08/16, taking into account the ambient temperature around the switchboard and the IP value.
Connection to be made according to the busbar drawings supplied.
For connection cable cross-sections and quantities > [page C-126](#).

Customer connection

Flat bars, 5 mm thick

Device		Permissible current (A)											
		Ambient temperature around the switchboard											
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
MTZ2 08	Size per phase	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	
MTZ2 10	Size per phase	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
MTZ2 12	Size per phase	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	■
	I (A)	1250	1250	1250	1250	1250	1230	1250	1200	1230	1160	1200	
MTZ2 16	Size per phase	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	■
	I (A)	1560	1480	1520	1430	1480	1380	1430	1330	1380	1280	1330	

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Note: The values indicated above have been validated for PrismaSeT P switchboards.

Designing customer connections

MasterPact 08-32 withdrawable

Electrical characteristics

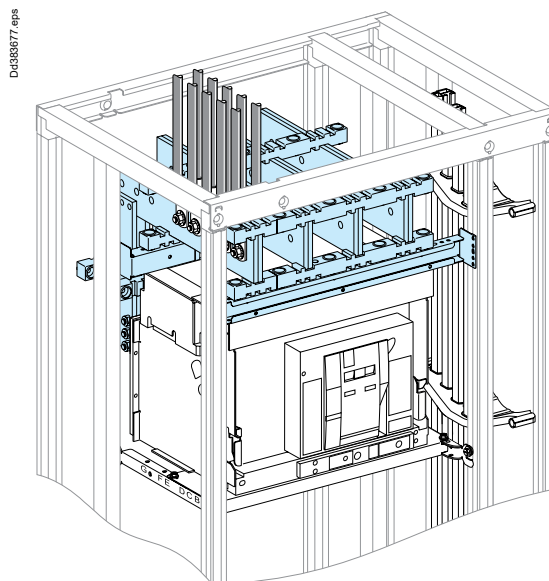
MasterPact MTZ2 08 to 32

Drawout

Vertical mounting

Front or rear connection

Incoming via top or bottom

Busbar drawings supplied by
Schneider Electric

Customer connection

Flat bars, 10 mm thick

Device		Permissible current (A)											
		Ambient temperature around the switchboard											
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
MTZ2 08	Size per phase	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	
MTZ2 10	Size per phase	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
MTZ2 12	Size per phase	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	■
	I (A)	1250	1250	1250	1210	1250	1180	1210	1140	1180	1100	1140	
MTZ2 16	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	■
	I (A)	1560	1480	1520	1430	1480	1380	1430	1330	1380	1280	1330	
MTZ2 20	Size per phase	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	■
	I (A)	2000	2000	2000	1950	2000	1900	1950	1830	1900	1760	1830	
MTZ2 25	Size per phase	2b 100 x 10	2b 100 x 10	2b 100 x 10	2b 100 x 10	2b 100 x 10	2b 100 x 10	2b 100 x 10	2b 100 x 10	2b 100 x 10	2b 100 x 10	2b 100 x 10	■
	I (A)	2470	2280	2410	2210	2350	2140	2280	2070	2210	2000	2140	
MTZ2 32	Size per phase	2b 120 x 10	2b 120 x 10	2b 120 x 10	2b 120 x 10	2b 120 x 10	2b 120 x 10	2b 120 x 10	2b 120 x 10	2b 120 x 10	2b 120 x 10	2b 120 x 10	■
	I (A)	2960	2730	2890	2630	2820	2530	2730	2450	2630	2370	2530	

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Canalis connection

For Canalis connections, apply the appropriate derating coefficient K.

Device	MTZ2 08	MTZ2 10	MTZ2 12	MTZ2 16	MTZ2 20	MTZ2 25	MTZ2 32
Derating coefficient K	1	1	1	0,98	0,98	0,97	0,97

Note: The values indicated above have been validated for PrismaSeT P switchboards.

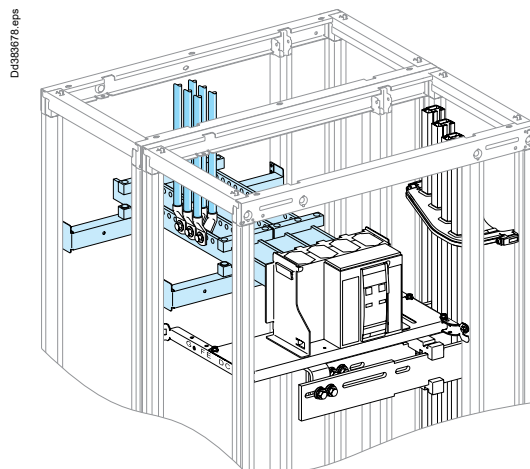
Designing customer connections

Fixed MasterPact 06-16

Electrical characteristics

MasterPact MTZ1 06 to 16
Fixed

Rear connection
Incoming via top or bottom
Busbar drawings supplied by
Schneider Electric



Using the data below, it is possible to determine the size of the copper bars and the maximum permissible currents when making a front or rear customer connections to busbars for a vertical, fixed MasterPact MTZ1 06/16, taking into account the ambient temperature around the switchboard and the IP value.

Connection to be made according to the busbar drawings supplied.

For connection cable cross-sections and quantities > page C-126.

Customer connection

Flat bars, 5 mm thick

Device		Permissible current (A)											
		Ambient temperature around the switchboard											
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
MTZ1 06	Size per phase	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	■
	I (A)	630	630	630	630	630	630	630	630	630	630	630	
MTZ1 08	Size per phase	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	
MTZ1 10	Size per phase	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
MTZ1 12	Size per phase	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	■
	I (A)	1250	1250	1250	1250	1250	1250	1250	1250	1250	1200	1250	
MTZ1 16	Size per phase	2b 100 x 5	2b 100 x 5	2b 100 x 5	2b 100 x 5	2b 100 x 5	2b 100 x 5	2b 100 x 5	2b 100 x 5	2b 100 x 5	2b 100 x 5	2b 100 x 5	■
	I (A)	1600	1570	1600	1520	1570	1470	1520	1420	1470	1370	1420	

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Customer connection

Flat bars, 10 mm thick

Device		Permissible current (A)											
		Ambient temperature around the switchboard											
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
MTZ1 06	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	■
	I (A)	630	630	630	630	630	630	630	630	630	630	630	
MTZ1 08	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	
MTZ1 10	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
MTZ1 12	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	■
	I (A)	1250	1250	1250	1250	1250	1250	1250	1250	1250	1180	1230	
MTZ1 16	Size per phase	1b100 x 10	1b100 x 10	1b100 x 10	1b100 x 10	1b100 x 10	1b100 x 10	1b100 x 10	1b100 x 10	1b100 x 10	1b100 x 10	1b100 x 10	■
	I (A)	1600	1570	1600	1520	1570	1470	1520	1420	1470	1370	1420	

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Canalis connection

For Canalis connections, apply the appropriate derating coefficient K.

Device	MTZ1 06b	MTZ1 08	MTZ1 10	MTZ1 12	MTZ1 16
Derating coefficient K	1	1	1	1	0,98

Note: The values indicated above have been validated for PrismaSeT P switchboards.

Designing customer connections

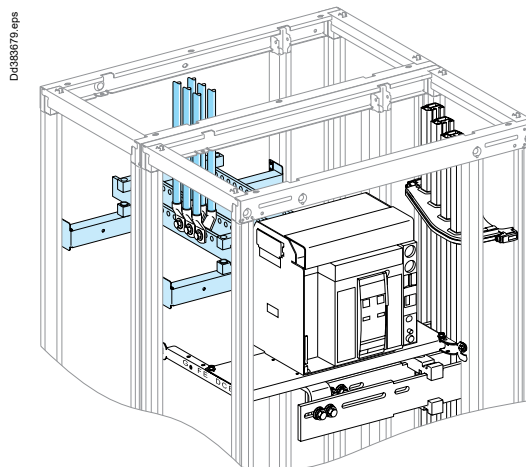
Drawout MasterPact 06-16

Electrical characteristics

MasterPact MTZ1 06 to 16

Rear connection

Incoming via top or bottom

Busbar drawings supplied by
Schneider Electric

Using the data below, it is possible to determine the size of the copper bars and the maximum permissible currents when making a customer connections to busbars for a vertical, drawout MasterPact MTZ1 06/16, taking into account the ambient temperature around the switchboard and the IP value.
Connection to be made according to the busbar drawings supplied.
For connection cable cross-sections and quantities > page C-126.

Customer connection

Flat bars, 5 mm thick

Device		Permissible current (A)											
		Ambient temperature around the switchboard											
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
MTZ1 06	Size per phase	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	■
	I (A)	630	630	630	630	630	630	630	630	630	630	630	
MTZ1 08	Size per phase	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	
MTZ1 10	Size per phase	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	960	1000	
MTZ1 12	Size per phase	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	■
	I (A)	1250	1250	1250	1250	1250	1230	1250	1180	1230	1130	1180	
MTZ1 16	Size per phase	2b 100 x 5	2b 100 x 5	2b 100 x 5	2b 100 x 5	2b 100 x 5	2b 100 x 5	2b 100 x 5	2b 100 x 5	2b 100 x 5	2b 100 x 5	2b 100 x 5	■
	I (A)	1560	1430	1520	1430	1480	1380	1430	1330	1380	1280	1330	

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Customer connection

Flat bars, 10 mm thick

Device		Permissible current (A)											
		Ambient temperature around the switchboard											
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
MTZ1 06	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	■
	I (A)	630	630	630	630	630	630	630	630	630	630	630	
MTZ1 08	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	
MTZ1 10	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	960	1000	
MTZ1 12	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	■
	I (A)	1250	1250	1250	1250	1250	1210	1250	1160	1210	1110	1160	
MTZ1 16	Size per phase	1b100 x 10	1b100 x 10	1b100 x 10	1b100 x 10	1b100 x 10	1b100 x 10	1b100 x 10	1b100 x 10	1b100 x 10	1b100 x 10	1b100 x 10	■
	I (A)	1560	1430	1520	1430	1480	1380	1430	1330	1380	1280	1330	

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Canalis connection

For Canalis connections, apply the appropriate derating coefficient K.

Device	MTZ1 06	MTZ1 08	MTZ1 10	MTZ1 12	MTZ1 16
Derating coefficient K	1	1	1	1	0,98

Note: The values indicated above have been validated for PrismaSeT P switchboards.

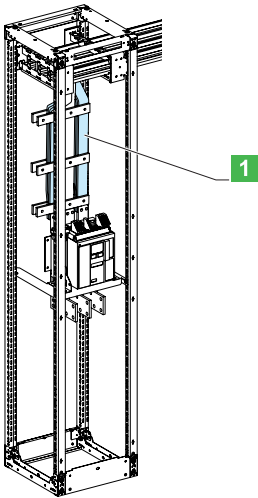
Version : 2.1 - 29/09/2026
690V7100

Designing connections between a device and busbars
Dedicated cubicle - W = 400 mm

Electrical characteristics

Fixed Master**PacT** / MTZ1 06 to 16

Dedicated cubicle
Linergy LGYE busbar
Connections drawings supplied by Schneider Electric



1 Connection

Connection
Flat bars, 10 mm thick

Device		Permissible current (A)											
Fixed NS, MTZ1		Ambient temperature (°C)											
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
MTZ1 630	Size per phase	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	■
	Fixed I (A)	630	630	630	630	630	630	630	630	630	630	630	
MTZ1 800	Size per phase	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	■
	Fixed I (A)	800	800	800	800	800	800	800	800	800	800	800	
MTZ1 1000	Size per phase	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	■
	Fixed I (A)	1000	1000	1000	1000	980	940	960	920	940	900	920	
MTZ1 1250	Size per phase	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	■
	Fixed I (A)	1240	1080	1200	1050	1160	1020	1125	980	1085	950	1040	
MTZ1 1600	Size per phase	2b 50x10	2b 50x10	2b 50x10	2b 50x10	2b 50x10	2b 50x10	2b 50x10	2b 50x10	2b 50x10	2b 50x10	2b 50x10	■
	Fixed I (A)	1525	1380	1490	1345	1450	1310	1415	1275	1375	1240	1330	

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Designing connections between a device and busbars

Dedicated cubicle - W = 400 mm

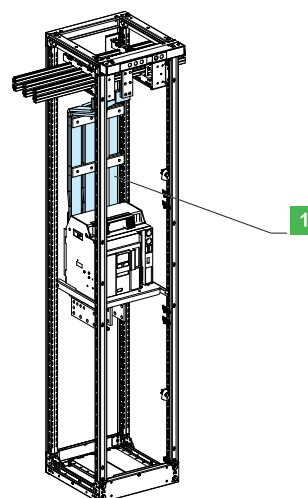
Electrical characteristics

Drawout MasterPacT / MTZ1 06 to 16

Dedicated cubicle

Linergy LGYE busbar

Connections drawings supplied by Schneider Electric



1 Connection

Connection

Flat bars, 10 mm thick

Device		Permissible current (A)											
		Ambient temperature (°C)											
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
Drawout NS, MTZ1		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
MTZ1 630	Size per phase	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	■
	Drawout A (l)	630	630	630	630	630	630	630	630	630	630	630	
MTZ1 800	Size per phase	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	■
	Drawout A (l)	800	800	800	800	800	800	800	800	800	800	800	
MTZ1 1000	Size per phase	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	■
	Drawout A (l)	1000	1000	1000	1000	980	940	960	920	940	900	920	
MTZ1 1250	Size per phase	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	■
	Drawout A (l)	1230	1070	1190	1040	1155	1005	1115	970	1075	935	1030	
MTZ1 1600	Size per phase	2b 50x10	2b 50x10	2b 50x10	2b 50x10	2b 50x10	2b 50x10	2b 50x10	2b 50x10	2b 50x10	2b 50x10	2b 50x10	■
	Drawout A (l)	1515	1340	1480	1305	1440	1270	1400	1235	1355	1200	1315	

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

PrismaSeT P
800 V AC

Prisma**SeT** P 800 V AC

Overview	D-2
Functional Units	D-7
Cubicles	D-31
Linergy Distribution Systems	D-59
Functional Partitioning	D-75
Additional Information	D-81



Supporting continuity in **mission-critical power systems**

As renewable energy deployment accelerates worldwide, utility-scale solar farms are growing in both size and power density. Larger inverter blocks, longer cable distances, and increasing pressure to maximize energy yield are driving new requirements for **low-voltage power distribution**.



Growing plant capacity

Larger inverter blocks (1 MW) and increasing installed capacity



Longer transmission distances

Power must travel further across larger sites



Profitability under pressure

Every minute of downtime impacts energy production and revenue

Why 800 V AC?

As inverter power ratings continue to increase, operators need to transfer more energy while reducing losses and infrastructure costs.

Increasing AC distribution voltage from conventional low-voltage architectures to 800 V AC enables more power to be transmitted with lower current, improving efficiency while reducing infrastructure requirements.

This results in four key advantages:



Higher power density

Transfer more megawatt per feeder and support larger inverter blocks



Reduced power losses

Lower I^2R losses over long cable runs improving overall energy yield



Lower infrastructure costs

Smaller cable cross-sections, reduced copper and aluminium consumption, and simpler distribution architecture



Supporting decarbonization

Lower embedded carbon through reduced material use leading to more efficient energy delivery

800 V AC is becoming the preferred architecture for utility-scale solar:



Enabling **higher efficiency**



Lower lifecycle costs



Optimized infrastructure

PrismaSeT P – 800 V AC

In utility-scale solar applications, every interruption can reduce energy production and impact profitability. PrismaSeT P 800 V AC combines Schneider Electric's proven low-voltage architecture with certified performance to support operation in demanding environments.



Business continuity

- Proven circuit breaker performance
- Fast fault identification and isolation
- Priority loads maintained during disturbances



Greater peace of mind

- **IEC 61439-1/2** certified for 800 V
- **IEC 60947-2** certified components
- 800 V AC type-tested switchboards
- Compatible with IT systems up to 800 V AC
- Global support, documentation and reference designs



Optimized Return on Investment (ROI)

- Lower Levelized Cost of Energy (LCOE)



Enhanced availability

- Flexible system design
- Easy installation and expansion
- Connectivity, smart sensors, and thermal monitoring



Improved sustainability

- Reduced electrical losses
- Lower material consumption
- Compliant with RoHS and REACH

Prisma**SeT** P 800 V AC Cubicles up to 2500 A - IP31



D



Electrical characteristics

- Rated insulation level of main busbars (U_i): 1000 V
- Rated current of an assembly (I_n): 2500 A
- Rated short-time withstand current of main busbar (I_{cw}): 66 kA at peak of 145.2 kA
- Frequency: 50/60 Hz
- Rated operational voltage (U_e) = 800 V under conditions as described in this catalog.
- Rated conditional short-circuit current (I_{cc}):
 - For MVS T3 2500 and MTZ2H10 2500: 50 kA
 - For NSX400K - 250/400 A and **EasyPact** Solar MCCB 400 - 160 A: 36 kA
 - For FuPact ISFL: 50 kA



Control devices should be connected to control circuit up to 415 V.



For Switchboard Assembly and Earthing Continuity instructions, refer *How to Assemble the Electrical Switchboard* Guide (PHA2165500).



Electrical switchboards built using the Prisma**SeT** P functional system and Schneider Electric recommendations fully comply with international standards IEC 61439-1 and 2.



Mechanical characteristics

- Steel sheet metal
- Cataphoresis treatment + hot-polymerised polyester epoxy powder, white color RAL 9003
- Can be dismantled
- Can be combined side-by-side and back-to-back
- Degree of protection:
 - IP31
- Degree of protection against mechanical impacts:
 - IK10
- Framework dimensions:
 - Four widths:
 - W = 300: cable compartment
 - W = 400: cable compartment or device compartment
 - W = 650: device compartment or cable compartment
 - W = 800: device compartment with busbar compartment or cable compartment
 - Two depths: 400 and 600 mm
 - Height: 2000 mm
- Indoor cubicles

Functional Units

Contents

Circuit breakers

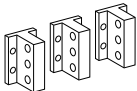
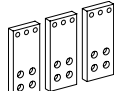
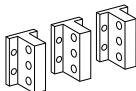
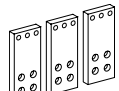
Panorama of device installation configuration	D-8
MasterPact MTZ2 08 to 25	
Cables connection	D-8
Canalis connection	D-10
EasyPact MVS 08 to 25	
Cables connection	D-12
Canalis connection	D-14
EasyPact Solar MCCB 400 - up to 160 A	D-16
NSX400K - 250/400 A	D-18
Fupact ISFL250/400 - up to 250 A	
Single tier fuse - Vertical mounting	D-20
Two tier fuse - Vertical mounting	D-22

Auxiliary devices

Modular devices (415 V)	
Acti 9 ≤ 63 A	D-24
80/160 A switchboard incomer	D-25
Metering (415 V)	
Single-phase and 3-phase kilowatt-hour meters	D-26
Metering and human-switchboard interface (415 V)	
PowerLogic™ Meters	D-27

D

Panorama of device installation configuration

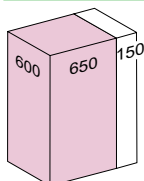
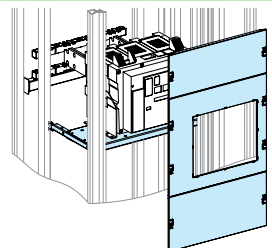
	D600		D1000	
	ACB Top terminal	ACB Bottom terminal	ACB Top terminal	ACB Bottom terminal
Top cable entry	Vertical connection 	Front connection 	Vertical connection 	Front connection 
Bottom cable entry				
Top canalis entry	-	-	-	-
Bottom canalis entry	-	-	-	-

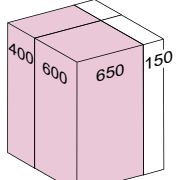
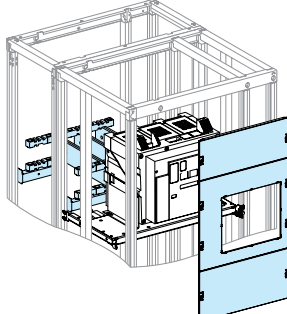
MasterPact MTZ2 08 to 25

Cables connection

Fixed

Circuit breakers

Mounting		Front connection	
		 DB447646.eps	
Devices		Fixed device	
		MTZ2 08/16	MTZ2 20/25
Number of devices per row		1	1
No. of vertical modules ⁽¹⁾		18	18
Mounting plates		LVS03500	LVS03500
Front plates [No. of vertical modules]	upstream	LVS03804 [4]	LVS03804 [4]
	with cut-out	LVS03711 [9]	LVS03711 [9]
	downstream	LVS03805 [5]	LVS03805 [5]

Mounting		Rear connection	
		 DB447667.eps	
Devices		Fixed device	
		MTZ2 08/16	MTZ2 20/25
Number of devices per row		1	1
No. of vertical modules		18	18
Mounting plates		LVS03500	LVS03500
Front plates [No. of vertical modules]	upstream	LVS03804 [4]	LVS03804 [4]
	with cut-out	LVS03711 [9]	LVS03711 [9]
	downstream	LVS03805 [5]	LVS03805 [5]

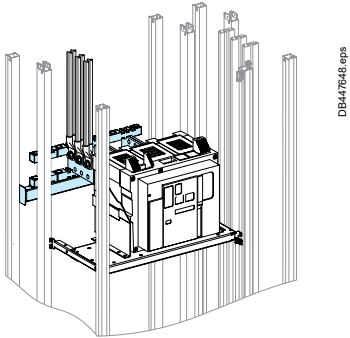
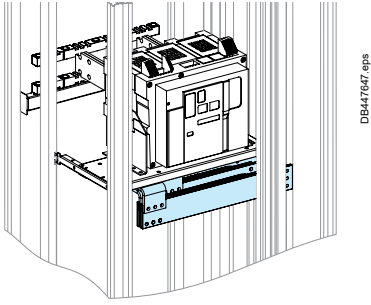
(1) For downstream connection with copper.

MasterPact MTZ2 08 to 25

Cables connection

Fixed

Circuit breakers

Connection		Upstream on incomer	
			
Devices		Fixed device	
		MTZ2 08/25	
Type of terminals		Vertical rear connections supplied with the device	
Connection		Connection must be made ⁽¹⁾	
Front connection	bar supports	LVS04694	
Rear connection	bar supports	2 x LVS04694	
Distribution		Downstream on Linergy LGYE busbars	
			
Devices		Fixed device	
		MTZ2 08/16	MTZ2 20/25
Type of terminals		Front connections ⁽²⁾	
		LV848130	LV848125
For vertical busbar Lineray LGYE ⁽³⁾	Connection	Connection must be made ⁽⁴⁾	
	Free support	2 x LVS04662	
	Cover	LVS04925 + LVS04928	

⁽¹⁾ Connection to be made according to the busbar drawings supplied by Schneider Electric.

⁽²⁾ Bottom rear vertical connections are supplied with the device. These need to be replaced with front terminal connection.

⁽³⁾ For LGYE 08/25, use a duct W = 150 mm.

⁽⁴⁾ Connection to be made according to the busbar drawings supplied by Schneider Electric.

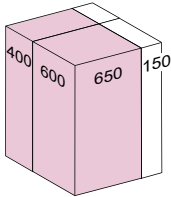
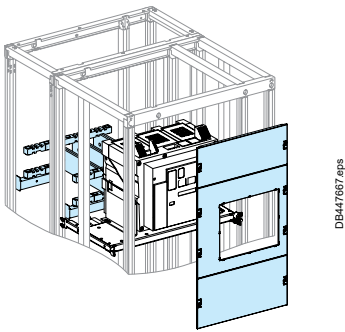
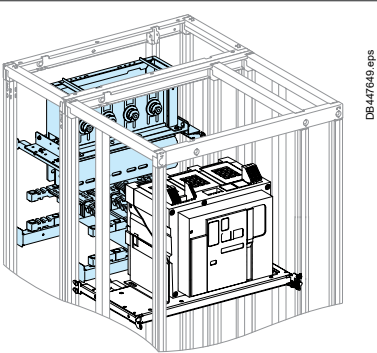
Note: To make measurements, install the CTs preferably upstream, on the supply terminal extension bars or install the CTs on the horizontal busbars (busbar connection). In this case, add one module and a plain front plate (**LVS03801**) or install a Micrologic control unit capable of displaying the values.
Selection of busbars: Linergy LGYE > page D-60.

MasterPact MTZ2 08 to 25

Canalis connection

Fixed

Circuit breakers

Mounting		Rear connection	
			
Devices		Fixed device	
		MTZ2 08/16	MTZ2 20/25
Number of devices per row		1	1
No. of vertical modules		21	21
Mounting plates		LVS03500	LVS03500
Front plates [No. of vertical modules]	upstream	LVS03804 [4] + LVS03803 [3]	LVS03804 [4] + LVS03803 [3]
	with cut-out	LVS03711 [9]	LVS03711 [9]
	downstream	LVS03805 [5]	LVS03805 [5]
Connection		Upstream on incomer	
			
Devices		Fixed device	
		MTZ2 08/16	MTZ2 20/25
Type of terminals		Vertical rear connections supplied with the device	
Canalis support		LVS03561	
Canalis interface ⁽²⁾		LVS04715	LVS04725
Rear bar supports		2 x LVS04694	
connection extension bars		Connection must be made ⁽³⁾	

(1) For downstream connection with copper.

(2) To tighten the screws of the Canalis interface, use the special tool 87808.

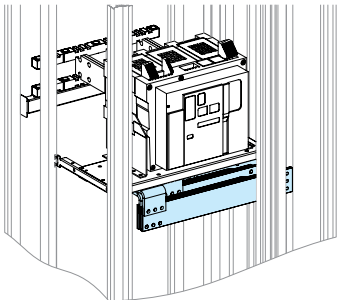
(3) Connection to be made according to the busbar drawings supplied by Schneider Electric.

MasterPact MTZ2 08 to 25

Canalis connection

Fixed

Circuit breakers

Distribution		Downstream on Linergy LGYE busbars	
			
Devices		Fixed device	
		MTZ2 08/16	MTZ2 20/25
Type of terminals		Front connections ⁽¹⁾	
		LV848130	LV848125
For vertical busbar Lineray LGYE ⁽²⁾	Connection	Connection must be made ⁽³⁾	
	Free support	2 x LVS04662	
	Cover	LVS04925 + LVS04928	

⁽¹⁾ Bottom rear vertical connections are supplied with the device. These need to be replaced with front terminal connection.

⁽²⁾ For LGYE 08/25, use a duct W = 150 mm.

⁽³⁾ Connection to be made according to the busbar drawings supplied by Schneider Electric.

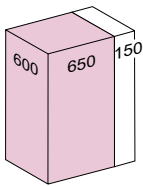
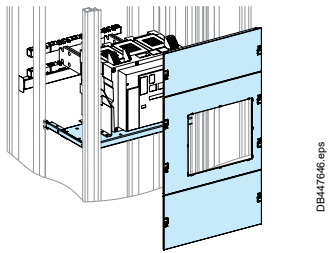
Note: To make measurements, install the CTs preferably upstream, on the supply terminal extension bars or install the CTs on the horizontal busbars (busbar connection). In this case, add one module and a plain front plate (**LVS03801**) or install a Micrologic control unit capable of displaying the values.
Selection of busbars: Linergy LGYE > page D-60.

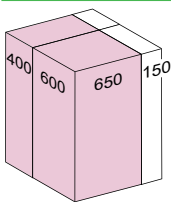
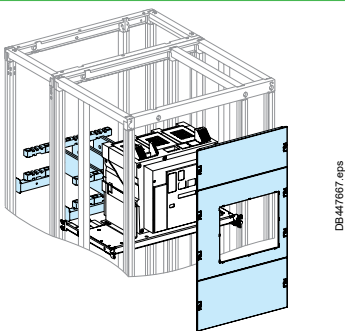
EasyPact MVS 08 to 25

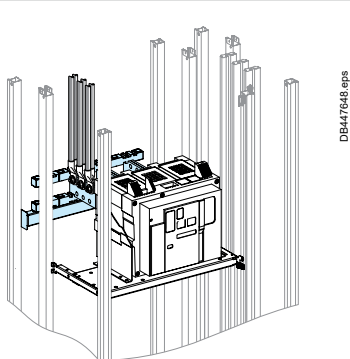
Cables connection

Fixed

Circuit breakers

Mounting		Front connection	
			
Devices		Fixed device	
		MVS 08/16	MVS 20/25
Number of devices per row		1	1
No. of vertical modules ⁽¹⁾		18	18
Mounting plates		LVS03500	LVS03500
Front plates [No. of vertical modules]	upstream	LVS03804 [4]	LVS03804 [4]
	with cut-out	LVS03711 [9]	LVS03711 [9]
	downstream	LVS03805 [5]	LVS03805 [5]

Mounting		Rear connection	
			
Devices		Fixed device	
		MVS 08/16	MVS 20/25
Number of devices per row		1	1
No. of vertical modules		18	18
Mounting plates		LVS03500	LVS03500
Front plates [No. of vertical modules]	upstream	LVS03804 [4]	LVS03804 [4]
	with cut-out	LVS03711 [9]	LVS03711 [9]
	downstream	LVS03805 [5]	LVS03805 [5]

Connection		Upstream on incomer	
			
Devices		Fixed device	
		MVS 08/25	
Type of terminals		Vertical rear connections supplied with the device	
Connection		Connection must be made ⁽²⁾	
Front connection	bar supports	LVS04694	
Rear connection	bar supports	2 x LVS04694	

(1) For downstream connection with copper.

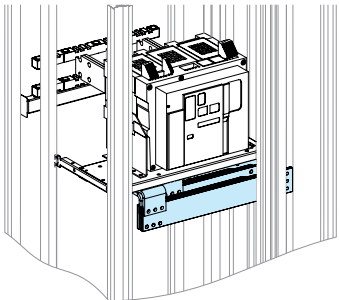
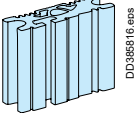
(2) Connection to be made according to the busbar drawings supplied by Schneider Electric.

EasyPact MVS 08 to 25

Cables connection

Fixed

Circuit breakers

Distribution		Downstream on Linergy LGYE busbars	
			
Devices		Fixed device	
		MVS 08/16	MVS 20/25
Type of terminals		Front connections ⁽¹⁾	
		LV848130	LV848125
For vertical busbar Linergy LGYE ⁽²⁾ 	Connection	Connection must be made ⁽³⁾	
	Free support	2 x LVS04662	
	Cover	LVS04925 + LVS04928	

⁽¹⁾ Bottom rear vertical connections are supplied with the device. These need to be replaced with front terminal connections.

⁽²⁾ For LGYE 08/25, use a duct W = 150 mm.

⁽³⁾ Connection to be made according to the busbar drawings supplied by Schneider Electric.

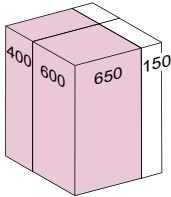
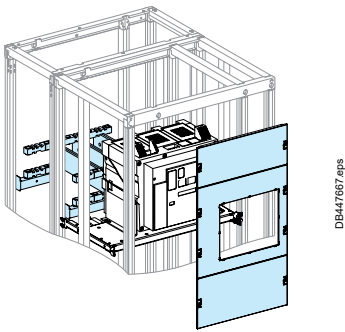
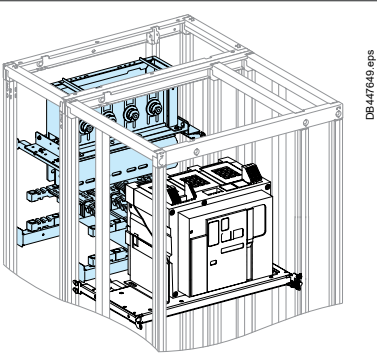
Note: To make measurements, install the CTs preferably upstream, on the supply terminal extension bars or install the CTs on the horizontal busbars (busbar connection). In this case, add one module and a plain front plate (**LVS03801**) or install a Micrologic control unit capable of displaying the values.
 Selection of busbars: Linergy LGYE > page D-60.

EasyPact MVS 08 to 25

Canalis connection

Fixed

Circuit breakers

Mounting		Rear connection	
			
Devices		Fixed device	
		MVS 08/16	MVS 20/25
Number of devices per row		1	1
No. of vertical modules		21	21
Mounting plates		LVS03500	LVS03500
Front plates [No. of vertical modules]	upstream	LVS03804 [4] + LVS03803 [3]	LVS03804 [4] + LVS03803 [3]
	with cut-out	LVS03711 [9]	LVS03711 [9]
	downstream	LVS03805 [5]	LVS03805 [5]
Connection		Upstream on incomer	
			
Devices		Fixed device	
		MVS 08/16	MVS 20/25
Type of terminals		Vertical rear connections supplied with the device	
Canalis support		LVS03561	
Canalis interface ⁽²⁾		LVS04715	LVS04725
Rear bar supports		2 x LVS04694	
connection extension bars		Connection must be made ⁽³⁾	

(1) For downstream connection with copper.

(2) To tighten the screws of the Canalis interface, use the special tool 87808.

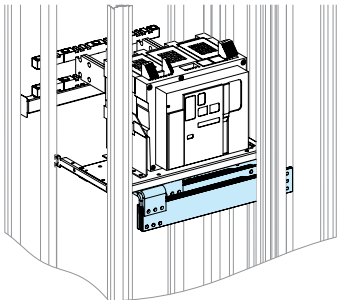
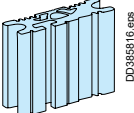
(3) Connection to be made according to the busbar drawings supplied by Schneider Electric.

EasyPact MVS 08 to 25

Canalis connection

Fixed

Circuit breakers

Distribution		Downstream on Linergy LGYE busbars	
			
Devices		Fixed device	
		MVS 08/16	MVS 20/25
Type of terminals		Front connections ⁽¹⁾	
		LV848130	LV848125
For vertical busbar Linergy LGYE ⁽²⁾ 	Connection	Connection must be made ⁽³⁾	
	Free support	2 x LVS04662	
	Cover	LVS04925 + LVS04928	

⁽¹⁾ Bottom rear vertical connections are supplied with the device. These need to be replaced with front terminal connections.

⁽²⁾ For LGYE 08/25, use a duct W = 150 mm.

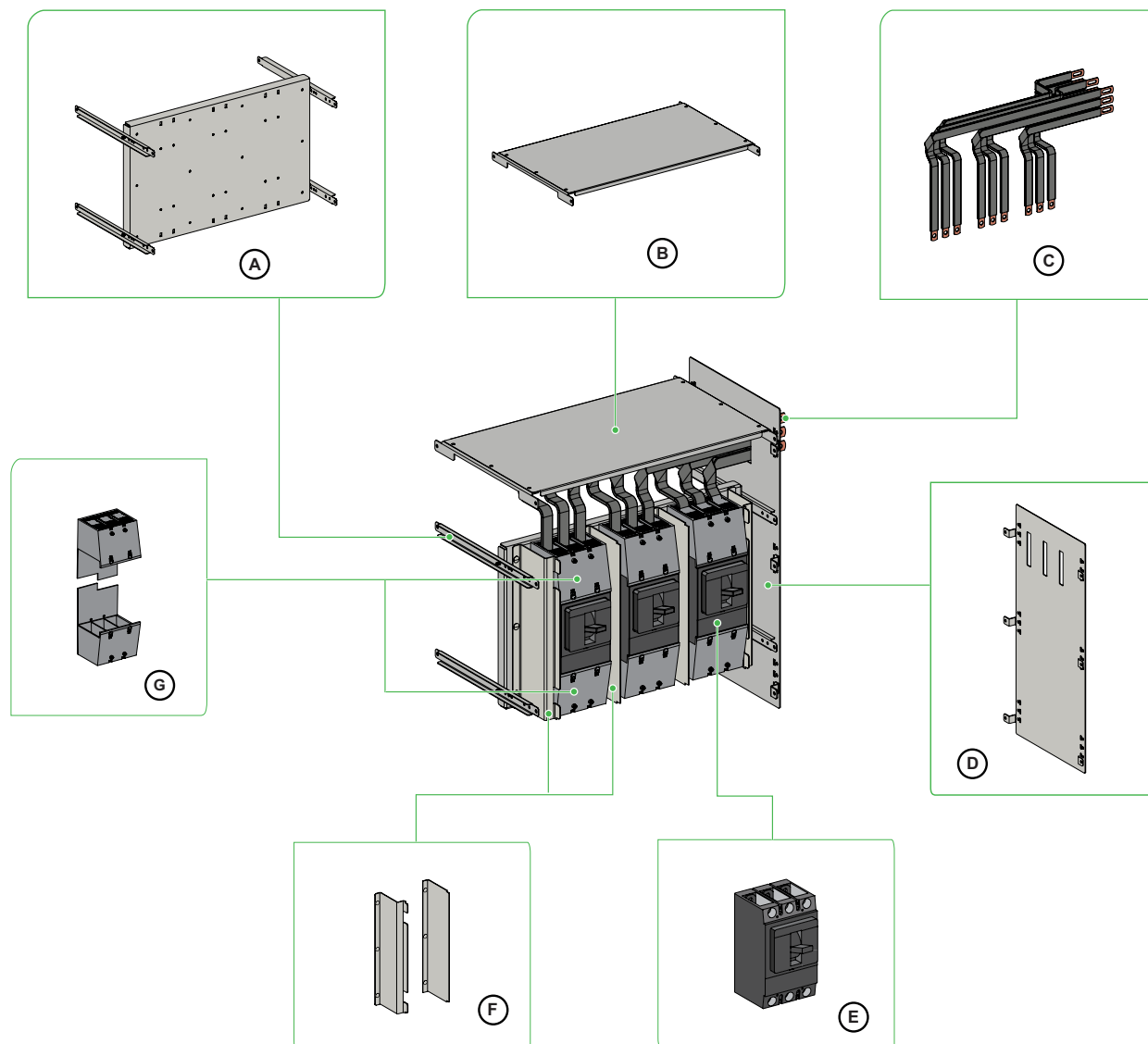
⁽³⁾ Connection to be made according to the busbar drawings supplied by Schneider Electric.

Note: To make measurements, install the CTs preferably upstream, on the supply terminal extension bars or install the CTs on the horizontal busbars (busbar connection). In this case, add one module and a plain front plate (**LVS03801**) or install a Micrologic control unit capable of displaying the values.
 Selection of busbars: Linergy LGYE > [page D-60](#).

EasyPact Solar MCCB 400 - up to 160 A

Vertical mounting

Toggle - Fixed



Item	Description
(A)	Mounting plate
(B)	Horizontal partition plate
(C)	Flexible busbar
(D)	MCCB and VBB side form partition
(E)	Circuit breaker 800 V MCCB
(F)	MCCB partition plate
(G)	Terminal shields

EasyPact Solar MCCB 400 - up to 160 A

Vertical mounting

Toggle - Fixed

Circuit breakers

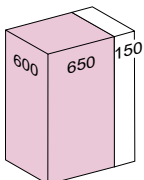
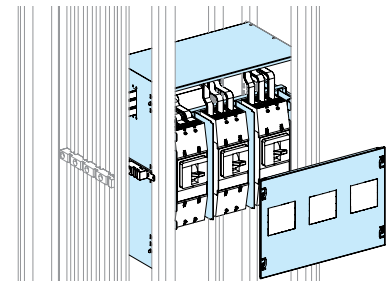
Mounting

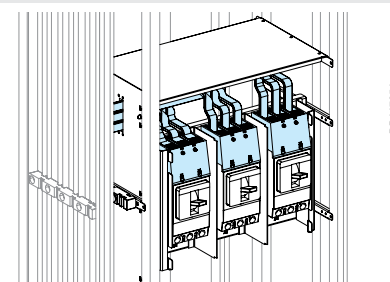
Vertical fixed

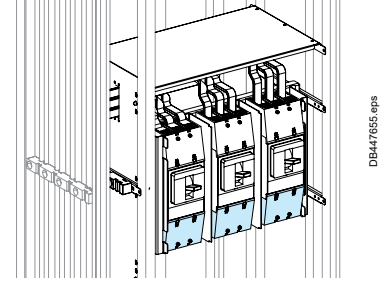
Diagram illustrating the vertical fixed mounting configuration. The rack is labeled DB447666.ai. The diagram shows a vertical rack with 6 numbered callouts (1-6) pointing to different front plate configurations:

- 1: Front plate without cut-out
- 2: Front plate with cut-out
- 3: Front plate without cut-out
- 4: Front plate with cut-out
- 5: Front plate without cut-out
- 6: Front plate with cut-out

Item	Description	No. of vertical modules	Catalog number
1	Front plate without cut-out	3	LVS03803
2	Front plate with cut-out	7	LVS03650
3	Front plate without cut-out	6	LVS03806
4	Front plate with cut-out	7	LVS03650
5	Front plate without cut-out	6	LVS03806
6	Front plate with cut-out	7	LVS03650

Mounting	Vertical fixed
	
Devices	Toggle
	EasyPact Solar MCCB 400 - up to 160 A
Number of devices per row	3
No. of vertical modules	7
Mounting plate	LVS03447
MCCB and VBB side form partition	LVS04994
Connection	Upstream from lateral busbars
Fixed devices	EasyPact Solar MCCB 400 - up to 160 A
Linergy LGYE	

	
Connection	Connection must be made ⁽¹⁾
Long terminal shields	SOL40LTSHD ⁽²⁾

Connection	Downstream distribution
	
Fixed devices	EasyPact Solar MCCB 400 - up to 160 A
Front connection	Direct connection with cables

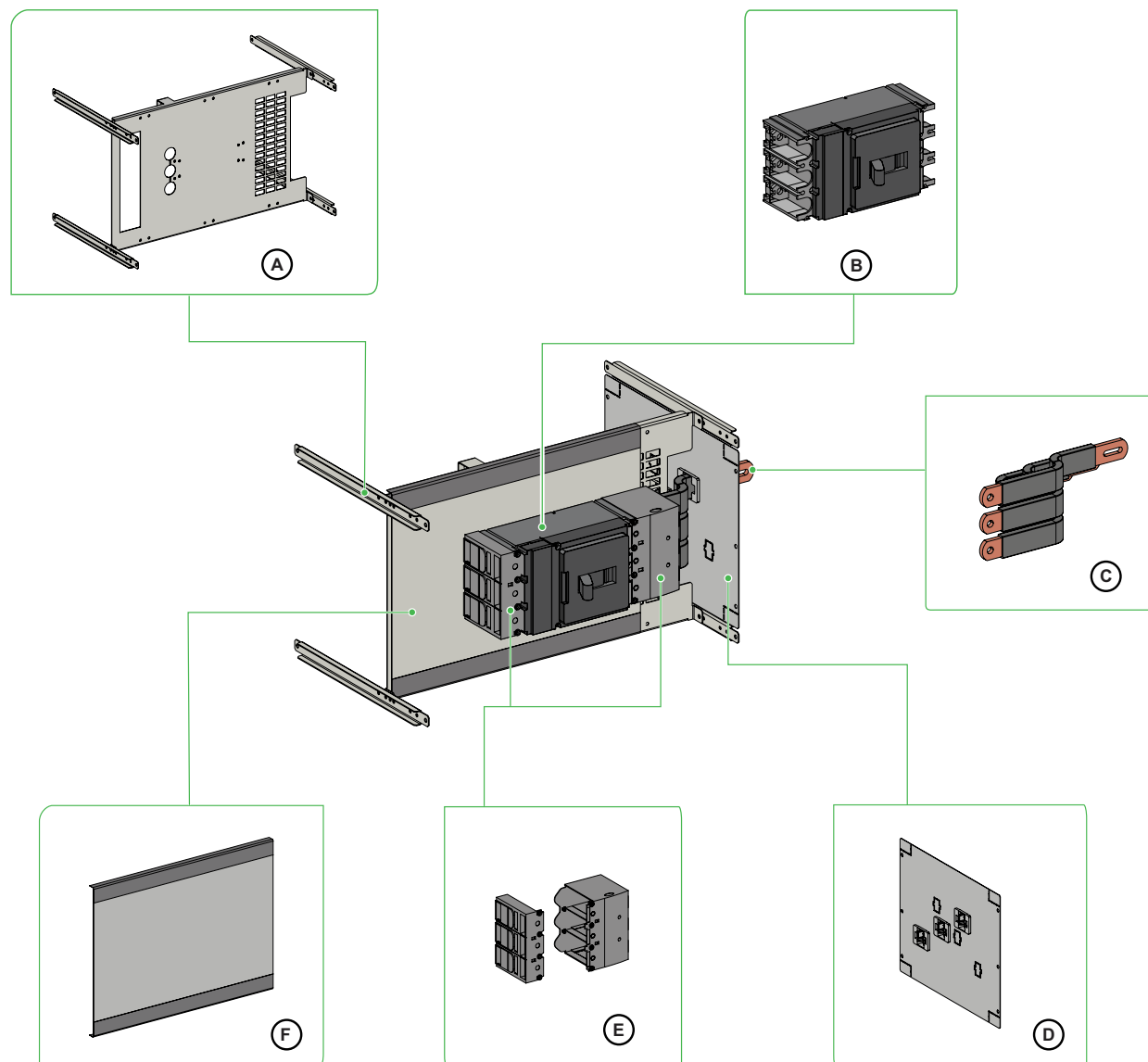
⁽¹⁾ Left and right VBB connections to be made according to the busbar drawings supplied by Schneider Electric.

⁽²⁾ SOL40LTSHD is supplied as a set of two terminal shields, one for the upstream connection and one for the downstream connection.

NSX400K - 250/400 A

Horizontal mounting

Toggle - Fixed



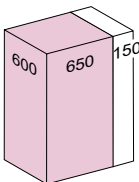
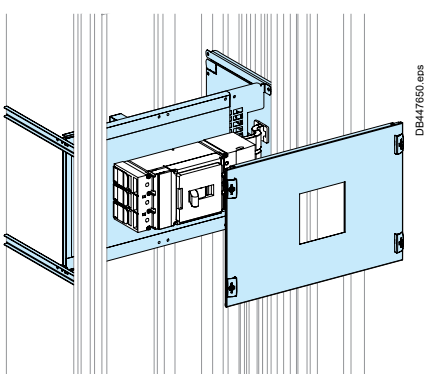
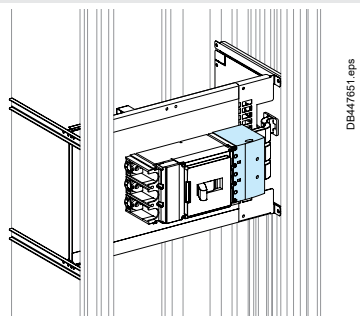
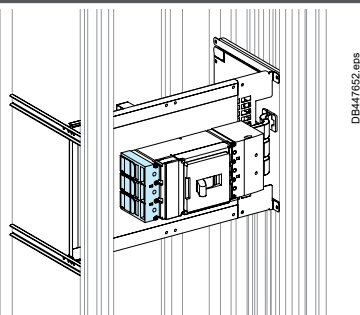
Item	Description
(A)	Mounting plate
(B)	Circuit breaker 800 V MCCB
(C)	Flexible busbar
(D)	VBB side form partition
(E)	Terminal shields
(F)	Mylar

NSX400K - 250/400 A

Horizontal mounting

Toggle - Fixed

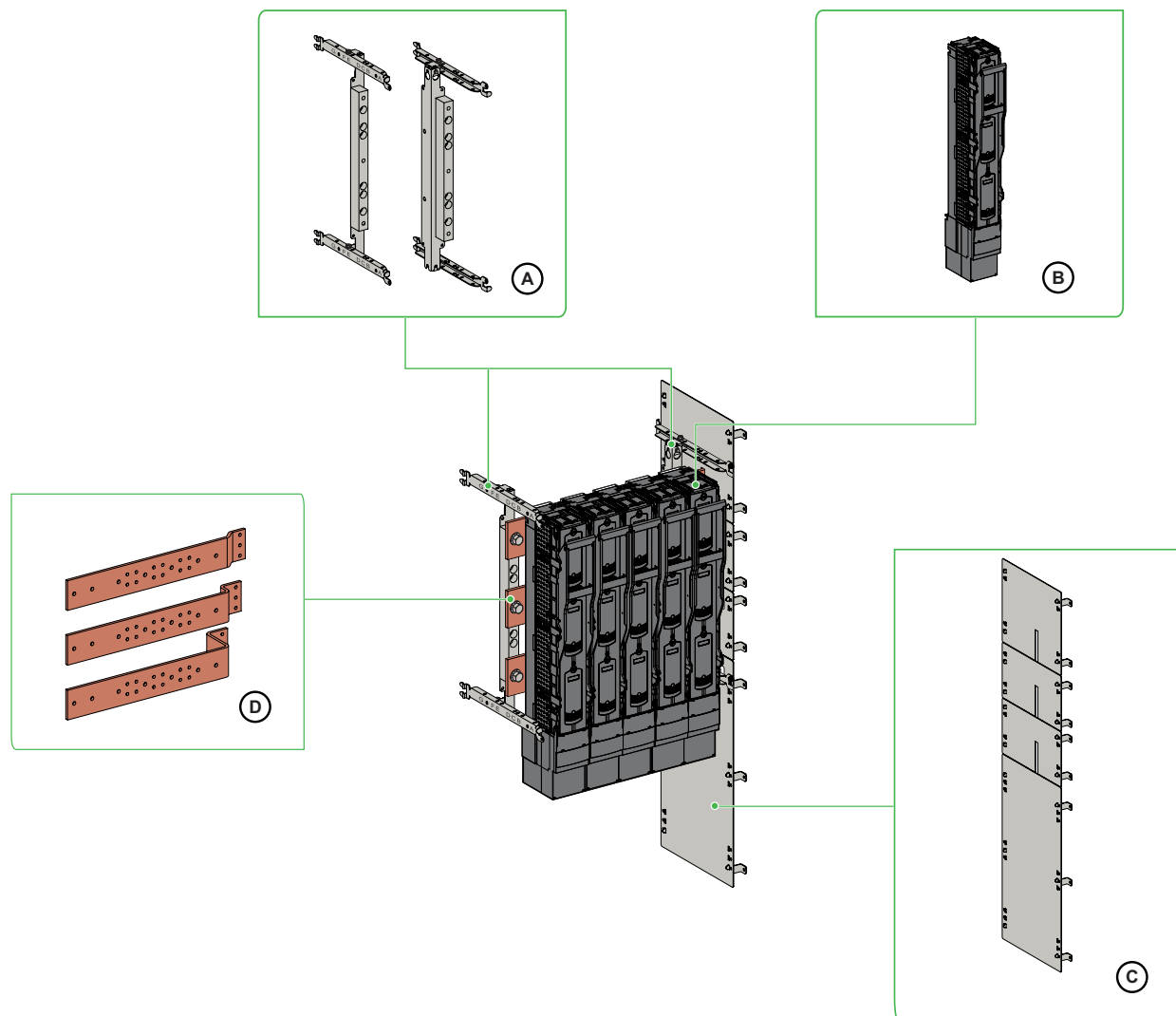
Circuit breakers

Mounting		Horizontal fixed	
			
Devices		Toggle	
		NSX400K - 250/400 A	
Number of devices per row		1	
No. of vertical modules		7	
Mounting plate		LVS03448	
Front plate with cut-out [No. of vertical modules]		LVS03827 [7]	
VBB side form partition		LVS04991	
Mylar		LVS04995	
Connection		Upstream from lateral busbars	
Fixed devices		NSX400K - 250/400 A	
Linery LGE			
			
Connection		Connection must be made ⁽¹⁾	
Long terminal shields		LV432593	
Connection		Downstream distribution	
			
Fixed devices		NSX400K - 250/400 A	
Front connection	long terminal shields	LV432593	
	connection	Direct connection with cables	
Rear connection	short terminal shields	LV432591	
	short rear connectors	LV432475	
	long rear connectors	LV432476	

(1) Connections must be made with insulated flexible bars > page D-63.

Fupact ISFL250/400 - up to 250 A

Single tier fuse - Vertical mounting

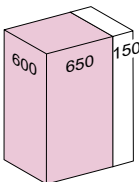
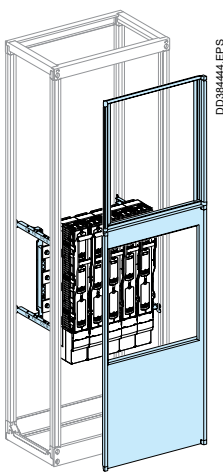


Item	Description
(A)	Mounting plate
(B)	Fupact ISFL fuse
(C)	VBB side form partition
(D)	Busbars

Fupact ISFL250/400 - up to 250 A

Single tier fuse - Vertical mounting

Circuit breakers

Mounting	Vertical Fixed	
		
Devices		
	Fuse 160 A	Fuse 250 A
Number of devices per row	5	5
No. of vertical modules	36	36
Mounting plate	LVS03546 ⁽¹⁾	LVS03546 ⁽¹⁾
Front plate with cut-out [No. of vertical modules]	LVS03735 [24 + 12]	LVS03735 [24 + 12]
VBB side form partition	LVS03351	LVS03351
Blanking plate	LVS03741 ⁽²⁾	LVS03741 ⁽²⁾
FuPact ISFL	LV480856	LV480857
Characteristics	■ The fuses are installed on the horizontal bars which are in turn supported by a mounting plate. ■ The front of the cubicle is made up of two parts: □ 2/3 cut-out front plate allowing introduction of the fuses. □ 1/3 front plate support frame (12 modules) cat. number LVS08562 on which the functional units are mounted. ■ The front may be covered either by a cover frame or a plain or transparent door. ■ Current transformers can be installed behind ISFL fuse-switch-disconnectors.	

Connection	Direct	
		
Devices		
	Fuse 160 A	Fuse 250 A
Connection	Directly on the busbars with clamp fixing.	

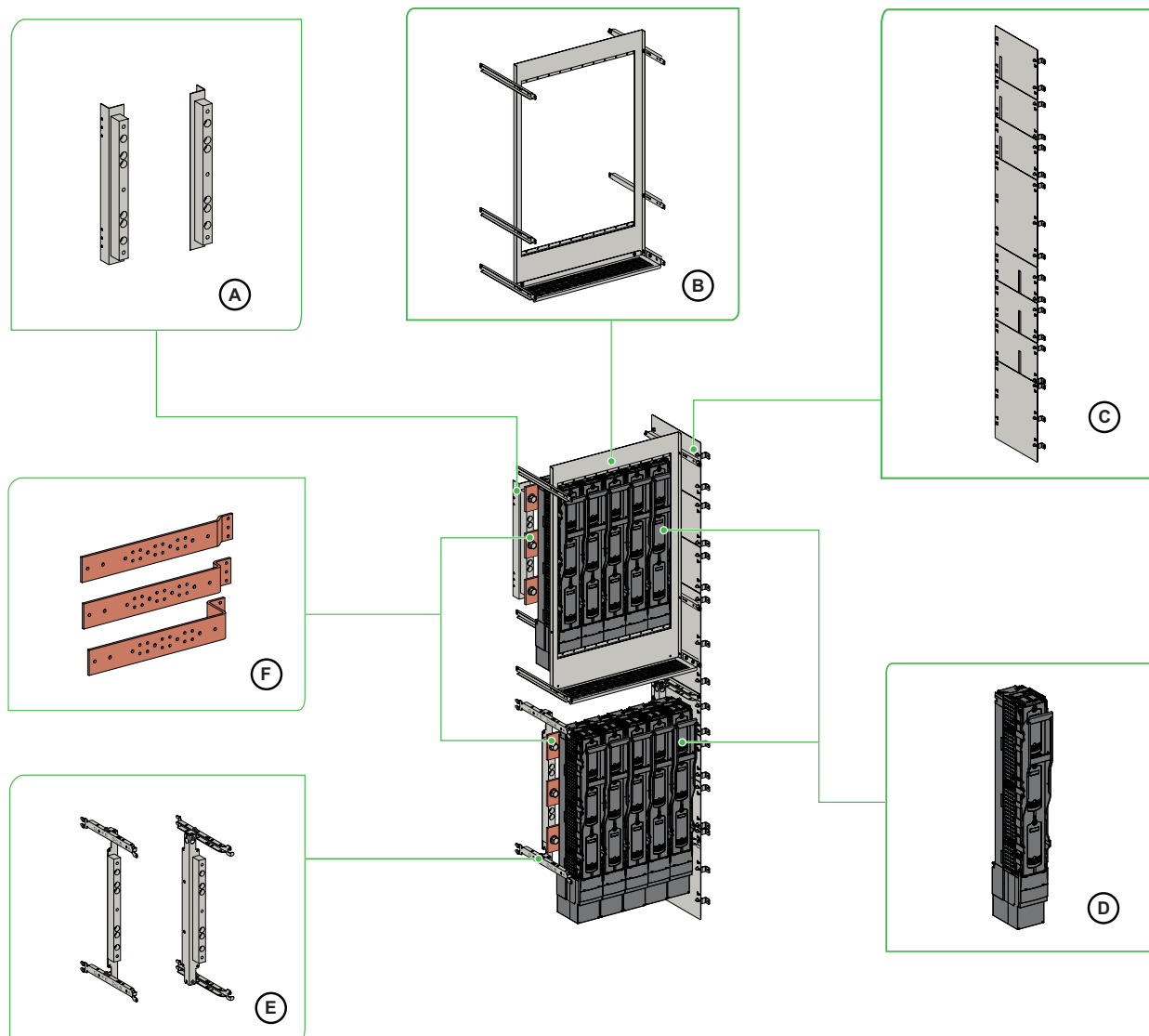
Distribution		
		
Devices		
	Fuse 160 A	Fuse 250 A
Downstream connection	With cables	

(1) The bars are made by the customer: for choice of bars > pages D-60 to D-62.

(2) Use two blanking plates per device.

Fupact ISFL250/400 - up to 250 A

Two tier fuse - Vertical mounting

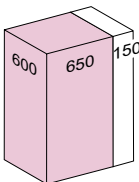
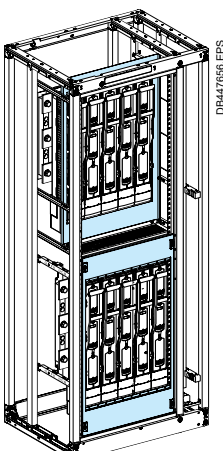


Item	Description
(A)	Top mounting plate
(B)	Top front plate
(C)	VBB side form partition
(D)	Fupact ISFL fuse
(E)	Bottom mounting plate
(F)	Busbars

Fupact ISFL250/400 - up to 250 A

Two tier fuse - Vertical mounting

Circuit breakers

Mounting		Vertical Fixed	
			
Devices		Fuse 160 A	Fuse 250 A
Number of devices per row		2 x 5	2 x 5
No. of vertical modules		36	36
Top front plate and mounting plate [No. of vertical modules]		LVS03737 [17] ⁽¹⁾	LVS03737 [17] ⁽¹⁾
Bottom mounting plate		LVS03546 ⁽¹⁾	LVS03546 ⁽¹⁾
Front plate with bottom cut-out [No. of vertical modules]		LVS03738 [19]	LVS03738 [19]
VBB side form partition		LVS03350	LVS03350
Fixed front plate frame support		LVS03733	LVS03733
Blanking plate		LVS03741 ⁽²⁾	LVS03741 ⁽²⁾
FuPact ISFL		LV480856	LV480857
Characteristics		- The fuses are installed on the horizontal bars which are in turn supported by a mounting plate. - The front of the cubicle is made up of two parts: 2/3 cut-out front plate allowing introduction of the fuses. 1/3 front plate support frame (12 modules) cat. number LVS08562 on which the functional units are mounted. - The front may be covered either by a cover frame or a plain or transparent door. - Current transformers can be installed behind ISFL fuse-switch-disconnectors.	

Connection		Direct	
			
Devices		Fuse 160 A	Fuse 250 A
Connection		Directly on the busbars with clamp fixing.	

Distribution			
			
Devices		Fuse 160 A	Fuse 250 A
Downstream connection		With cables	

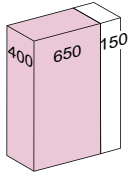
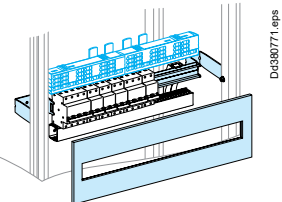
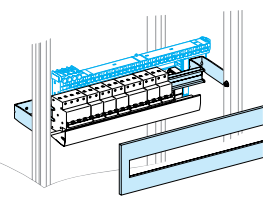
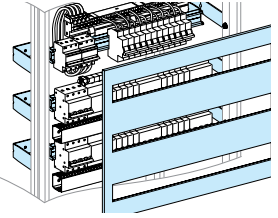
(1) The bars are made by the customer: for choice of bars > pages D-60 to D-62.

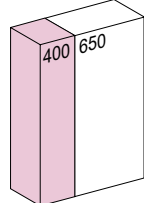
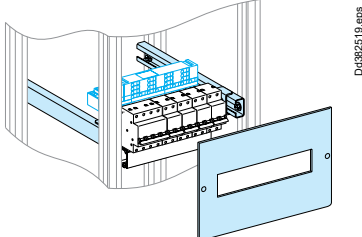
(2) Use two blanking plates per device.

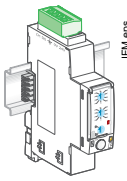
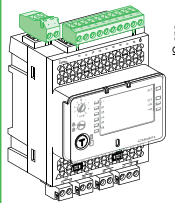
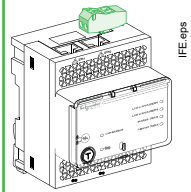
Modular devices (415 V) ⁽¹⁾

Acti 9 ≤ 63 A

Auxiliary devices

Mounting	Horizontal distances between centres: 200 mm	Horizontal distances between centres: 150 mm	
			
Devices	All modular devices	Modular devices ≤ 40 A	
Rail length (modules of 9 mm)	48	48	48
No. of vertical modules	4 ⁽²⁾	3	8
Rail (48 modules of 9 mm)	LVS03401	LVS03401	3 x LVS03401
Modular front plates	LVS03204	LVS03203	LVS03223
Blanking strip	LVS03220	LVS03220	LVS03220
plate divisible	LVS03221	LVS03221	LVS03221

Mounting	Horizontal distances between centres: 200 mm	Horizontal distances between centres: 150 mm
		
Devices	All modular devices	Modular devices ≤ 40 A
Rail length (modules of 9 mm)	20	20
No. of vertical modules	4	3
Rail (20 modules of 9 mm)	LVS03404 (adjustable)	LVS03404 (adjustable)
Modular front plates	LVS03214 [4]	LVS03213 [3]
Blanking strip	LVS03220	LVS03220
plate divisible	LVS03221	LVS03221

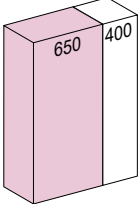
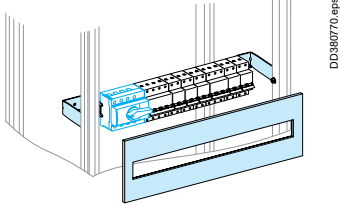
	EnerlinX devices	I/O module	IFE
			
No. of vertical modules	4		
Rail	LVS03401 / LVS03404		
Modular front plates	LVS03204 / LVS03214		
Characteristics	Installation by clip on a modular rail.		

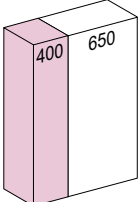
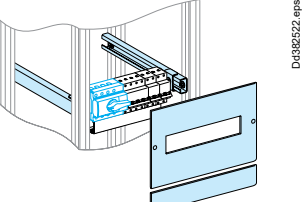
⁽¹⁾ Control devices should be connected to control circuit up to 415 V.⁽²⁾ For a modular row with a 160 A (half row) and 200 A Linergy FM distribution block positioned directly below a non-modular mounting-plate (ComPacT, etc.), or at the top of a switchboard, add one additional module (that is, 4+1) and a plain upstream front plate (LVS03801).

Modular devices (415 V) ⁽¹⁾

80/160 A switchboard incomer

Auxiliary devices

Mounting		Switch-disconnectors	
			
Devices		ComPacT INS40/160	ComPacT INS-INV100/160 with long terminal shields
No. of vertical modules		4	5
Rail (48 modules of 9 mm)		LVS03401	LVS03401
Modular front plates		LVS03204	LVS03205
Blanking plate	strip	LVS03220	LVS03205
	divisible	LVS03221	LVS03205

Mounting		Switch-disconnectors	
			
Devices		INS-INV40/160	INS-INV100/160 with long terminal shields
No. of vertical modules		4	5
Rail (20 modules of 9 mm)		LVS03404 (adjustable)	LVS03404 (adjustable)
Front plates [No. of vertical modules]	modular	LVS03214 [4]	LVS03214 [4]
	downstream	—	LVS03811 [1]
Blanking plate	strip	LVS03220	LVS03220
	divisible	LVS03221	LVS03221

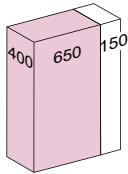
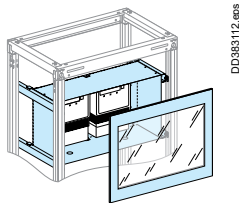
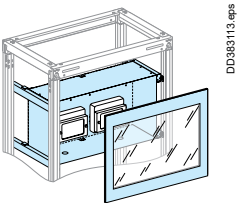
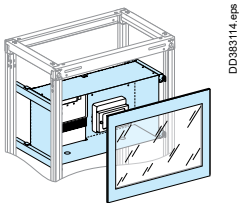
⁽¹⁾ Control devices should be connected to control circuit up to 415 V.

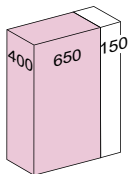
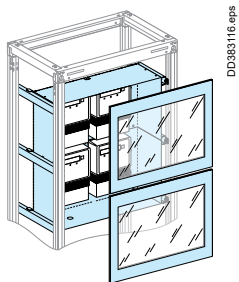
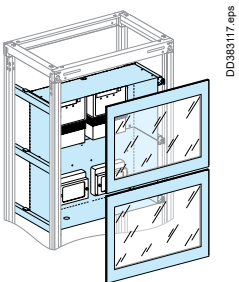
Metering (415 V) ⁽¹⁾

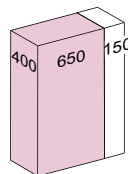
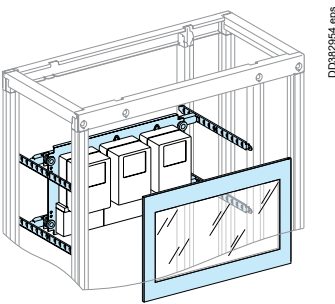
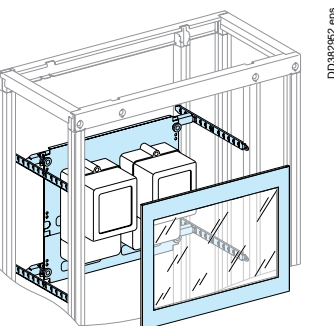
Single-phase and 3-phase kilowatt-hour meters

Class 1 and 2

Auxiliary devices

Mounting		With 1 mounting plate		
				
Devices		Meter and connection block		
		Meter 3 Ph + N	Connection block	Meter + connection block
Number of devices per row		2	2	1 + 1
Number of vertical modules		6	6	6
Mounting plates		LVS03508	LVS03508	LVS03508
Front plates [No. of vertical mod.]	transparent	LVS03343 [6]	LVS03343 [6]	LVS03343 [6]
	or plain	LVS03806 [6]	LVS03806 [6]	LVS03806 [6]

Mounting		With 2 mounting plates	
			
Devices		Meter and connection block	
		Meter 3 Ph + N	Meter + connection block
Number of devices per row		4	2 + 2
Number of vertical modules		12	12
Mounting plates		2 x LVS03508	2 x LVS03508
Front plates [No. of vertical mod.]	transparent	2 x LVS03343 [6]	2 x LVS03343 [6]
	or plain	2 x LVS03806 [6]	2 x LVS03806 [6]

Mounting		Behind front plate	
			
Devices		Meter and connection block	
		Single-phase (Ph + N)	3-phase (3 Ph + N)
Number of devices per row		3	2
Number of vertical modules		6	9
Mounting plates		—	LVS03152
Front plates [No. of vertical mod.]	transparent	LVS03343 [6]	LVS03344 [9]
	or plain	LVS03806 [6]	—
Insulating plate		—	—
Adapter		LVS03595	LVS03595
Accessories		M5 spacers for mounting plate > page D-51.	

⁽¹⁾ Control devices should be connected to control circuit up to 415 V.**Note:** Meters can be installed at different levels on the functional uprights of frameworks.

Metering and human-switchboard interface (415 V) ⁽¹⁾

PowerLogic™ Meters

Auxiliary devices



Presentation

PowerLogic™ Meters

Schneider Electric provides these tools via the world's most advanced energy intelligence technology: PowerLogic. The PowerLogic range of meters help manage all energy assets, every second of the day.

PowerLogic PM5000 series



The ideal fit for cost management applications, the PowerLogic™ PM5000 power meter provides :

- > Sub-billing/tenant metering
- > Equipment sub-billing
- > Energy cost allocation
- > Track real-time power conditions
- > Monitor control functions
- > Provide basic power quality values
- > Monitor equipment and network status

Acti9 iEM2000 and iEM3000 series



The Acti9 iEM2000 and iEM3000 energy meter series offers a cost-attractive, competitive range of DIN rail-mounted energy meters ideal for:

- > Bill checking to verify that you are only charged for the energy you use.
 - > Sub-billing individual tenants for their energy consumption, including WAGES.
 - > Aggregation of energy consumption, including WAGES, and allocating costs per area, per usage, per shift, or per time within the same facility.
 - > Basic metering of electrical parameters to better understand the behavior of your electrical distribution system.
- Combined with communication systems, like Smart Link, the Acti9 iEM2000 and iEM3000 series makes it easy to integrate electrical distribution measurements into facility management systems. It's the right energy meter at the right price for the right job.

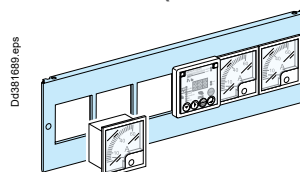
Possible installation

Cat. number	LVS03904	LVS03928	LVS03910	LVS03911	LVS03913	LVS03914
Front plate frame support (LVS08566)	■	■	■	■	■	■
L300/L400 with cut-out (LVS08593, LVS08594)	■	■	■	■	■	—

Note: Device mounting on door: earthing braid (cat. no. LVS08910) or earthing wire (cat. no. LVS08911) mandatory.

Installation in a switchboard

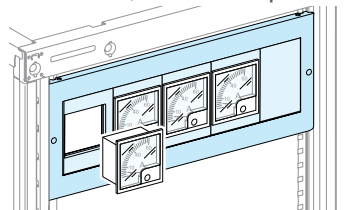
On a metal front plate with cut-outs, H = 150 mm (3 modules)



- > Devices are attached directly to the metal front plate.
- > Blanking plates are available to blank off any unused locations.
- > Economical solution.

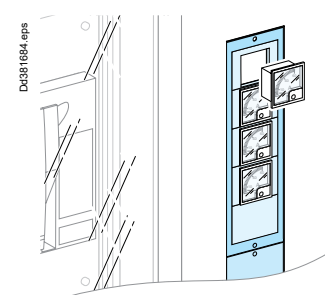
①

- > In the device zone of enclosures and cubicles, like a front plate



②

- > On a door with cut-outs in a 300 or 400 mm wide cubicle
- > On a inclined visor



The degree of protection for installed devices is IP30.

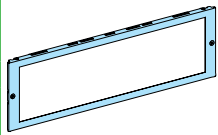
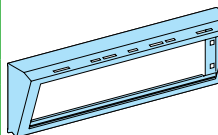
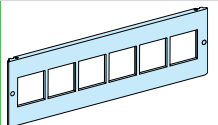
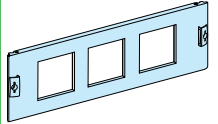
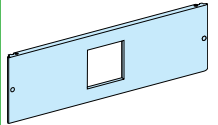
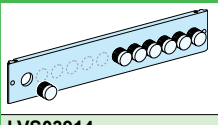
⁽¹⁾ Control devices should be connected to control circuit up to 415 V.

Notes:

- With a power voltage > SELV (12 V), devices on front plates must be mounted with a front plate hinge kit (cat no. LVS08585). The earthing braid must be connected to the front plate frame support (cat no. LVS08566, LVS08564, LVS08560, LVS08562 or else).
- With a power voltage > SELV (12 V) and a supply protection > 16 A, in addition to the preceding rule, the front plate frame support (cat no. LVS08566, LVS08564, LVS08560, LVS08562 or else) must be connected to the cubicle frame, using an earthing braid (cat no. LVS08910 or LVS08911). (standard NF / EN 61439-1 2011 edition).

Metering and human-switchboard interface (415 V) ⁽¹⁾

Auxiliary devices

Number and type of devices per row	Metal front plate with cut-out	No. of vertical mod.	Plastic mounting plates with cut-out	Blanking plate or devices support
W650 Mounting on an interface with plastic mounting plates				
5 x 72 x 72 Vigirex and others devices 72 x 72	 DD385458 eps	3	 DD385465 eps	 DD385466 eps To blank-off or install: - 1 to 4 Ø 16 or 22 mm buttons - 1 device, 45 x 45
4 x 96 x 96 Power Meter and others devices 96 x 96			LVS03902	
2 x 96 x 96 For PM200, 200P, PM5 and PM8 series meters			LVS03904	LVS03903
W650 Mounting on an inclined visor by 30° with plastic mounting plates				
5 x 72 x 72 Vigirex and others devices 72 x 72	 DD385459 eps	3	 DD385465 eps	 DD385466 eps To blank-off or install: - 1 to 4 Ø 16 or 22 mm buttons - 1 device, 45 x 45
4 x 96 x 96 Power Meter and others devices 96 x 96			LVS03902	
2 x 96 x 96 For PM200, 200P, PM5 and PM8 series meters			LVS03928 ⁽²⁾	LVS03903
W650 Direct mounting on a metal front plate with cut-outs				
72 x 72 device				
6 x 72 x 72 Vigirex and others devices 72 x 72	 DD385460 eps	3	Direct mounting	 DD385469 eps To blank-off or install: - 1 or 2 Ø 22 mm buttons - 1 device, 45 x 45
	LVS03910	—		LVS03907
96 x 96 device				
3 x 96 x 96 Power Meter and others devices 96 x 96	 DD119465 eps	3	Direct mounting	 DD385470 eps To blank-off or install: - 1 or 2 Ø 22 mm buttons - 1 device, 45 x 45 - one 72 x 72 device
	LVS03911	—		LVS03908
1 x 96 x 96 Power Meter and others devices 96 x 96	 DD385462 eps	3	Direct mounting	 DD385470 eps To blank-off or install: - 1 or 2 Ø 22 mm buttons - 1 device, 45 x 45 - one 72 x 72 device
	LVS03913	—		LVS03908
144 x 144 device + 72 x 72 devices				
1 x 144 x 144 144 x 144 device + devices 72 x 72		4	Direct mounting	 DD385469 eps To blank-off or install: - 1 or 2 Ø 22 mm buttons - 1 device, 45 x 45
4 x 72 x 72			—	LVS03907
W650 Pushbuttons and lamps Ø 22 mm				
12 x Ø 22 mm	 DD385464 eps	2	Direct mounting	
	LVS03914	—		—
W400 Front plate				
1 x 96 x 96 Power Meter and others devices 96 x 96	 DD385660 eps	3	Direct mounting	 DD385470 eps To blank-off or install: - 1 or 2 Ø 22 mm buttons - 1 device, 45 x 45 - one 72 x 72 device
	LVS03923	—		LVS03908

(1) Control devices should be connected to control circuit up to 415 V.

(2) The visor (cat. no. **LVS03928**) can be installed on a plain door with cut-out.

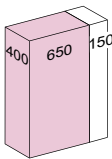
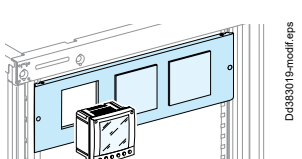
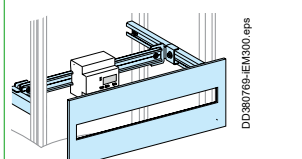
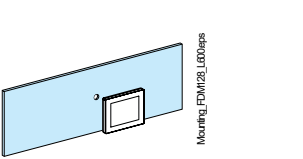
(3) For PM200, 200P, PM5 and PM8 series meters, use 2 no. blank off sheets between each meter.

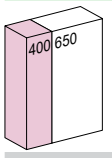
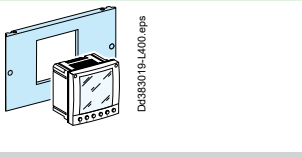
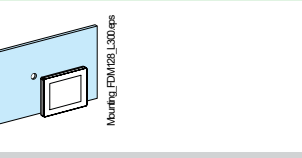
Metering and human-switchboard interface (415 V) ⁽¹⁾

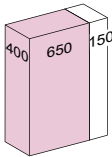
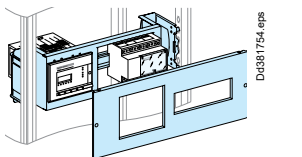
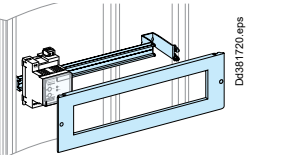
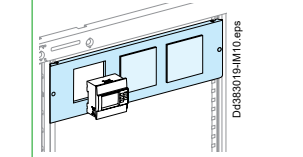
PowerLogic™ Meters

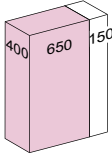
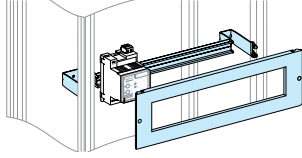
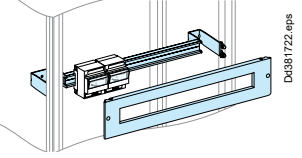
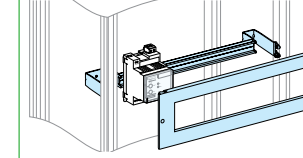
Vigilohm, Vigirex

Auxiliary devices

Mounting	Powerlogic system			
				
Devices	FDM121, PM5000 and PM8000 series ⁽³⁾		PM3000 series, IEM2000 and iEM3000 series	FDM128 ⁽²⁾ PM5RD, PM89RD96, PM5563RD ⁽⁴⁾
Number of vertical mod.	1 device	3 devices	3 or 4	4
DIN rail	—	—	LVS03402	—
Front plates	transparent	—	LVS03342 ^[4]	—
[No. of vert. modules]	plain	—	—	LVS03804 ^[4]
with cut-out	—	LVS03911 ^[3]	LVS03203 ^[3]	—
Front plate	With cut-out for devices 96 x 96		Hole ø 22 mm to be stamped	Hole ø 30 mm to be stamped

Mounting	Powerlogic system		
			
Devices	FDM121, PM5000 series, PM8000 series ⁽³⁾	FDM128 ⁽²⁾	PM5RD, PM89RD96, PM5563RD ⁽⁴⁾
Number of vertical mod.	3	4	4
DIN rail	—	—	LVS03404
Front plates	with cut-out	—	—
[No. of vert. modules]	plain	LVS03814 ^[4]	LVS03814 ^[4]
Front plate	With cut-out for devices 96 x 96	Hole ø 22 mm to be stamped	Hole ø 30 mm to be stamped

Mounting	Vigilohm		
			
Devices	IM400 with 3 XD301 or with 1 or 2 IFL12	IM10, IM10H, IM20, IM20H HV-IM20, HV-IM400, IM9, IM9-OL	IM10 / IM10H IM20 / IM20H
Number of vertical mod.	6	3	3
Modular rail	—	LVS03401	—
Mounting plates	LVS03930	—	—
Front plates with cut-outs	LVS03932	LVS03203	LVS03911
Characteristics	Installation in the device compartment		

Mounting	Vigirex	Acti 9	
			
Devices	RH10/RH21/RH99/RH197M relays	Lamps, pushbuttons	Ammeter, voltmeter
Number of vertical mod.	3	2	3
Modular rail	LVS03401	LVS03401	LVS03401
Front plates with cut-outs	LVS03203	LVS03202	LVS03203
Blanking strip	LVS03220	LVS03220	LVS03220
plate divisible	LVS03221	LVS03221	LVS03221
Characteristics	Installation in the device compartment		

⁽¹⁾ Control devices should be connected to control circuit up to 415 V.⁽²⁾ For 72 x 72 mm cases > page D-27.⁽³⁾ Only for flush-mounted versions of PM5000 series and PM8000 series.⁽⁴⁾ Only for remote-display versions of PM5000 series and PM8000 series.

Cubicles

Contents

Enclosures

Cover panels	D-32
Cubicles	
Frameworks	D-34

Dimensions

Cubicles	D-36
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Enclosures

Cubicles	
IP31	D-42
Plinth	D-45
Cubicle handling and lifting reinforcement kit	D-46
Installation accessories	D-47
Front plate accessories	D-49

Others

Reserve space	D-50
Fixing accessories	D-51
Universal adapter	
Mounting on a plain backplate	D-52
Others devices	
Mounting on a slotted plate - Mounting on a modular rail	D-53
Cable running	D-54
Connection accessories	
Cable-tie supports, lateral and longitudinal cross-members	D-55
Door handles and locks	D-56
Ventilation accessories	
Heat	D-57

D

Cover panels

Enclosures

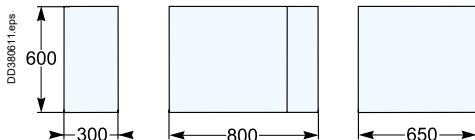
600 mm deep switchboard

For switchboards with front connections.

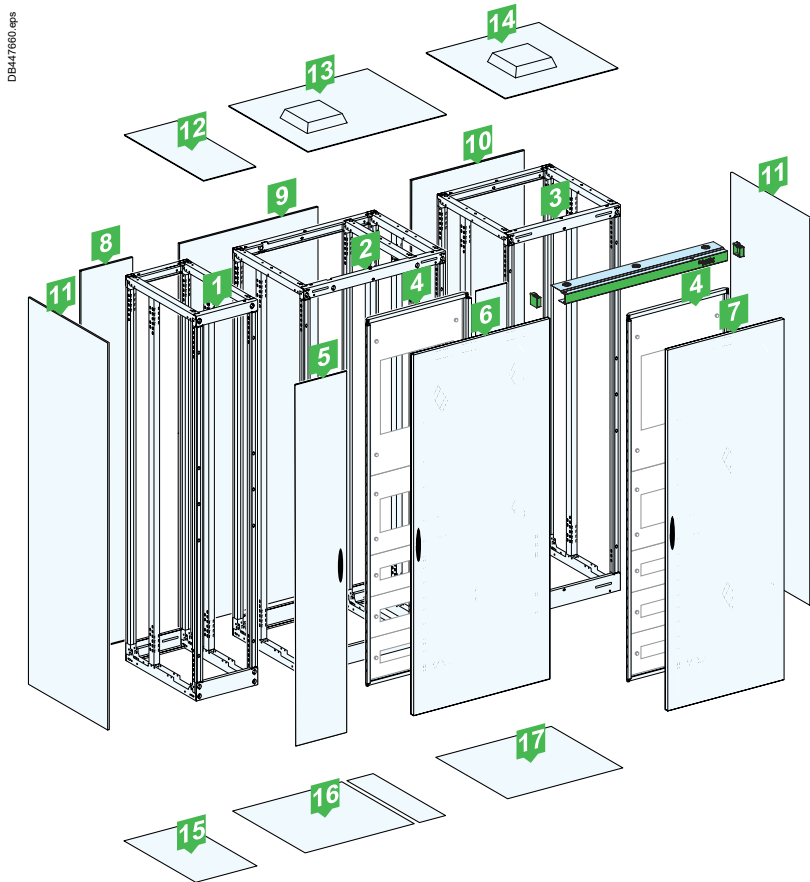
- Front panels
 - One of the following must be installed in front of the hinged front plate frame support:
 - A plain door
 - A transparent door
- Rear panels = screw-on panels
- Side panels = screw-on panels
- Plain roof
- Gland plates (plain or in two parts)

Parts list:

- 1 LVS08603: Framework, W = 300, D = 600, H = 2000
- 2 LVS08607: Framework, W = 800 ⁽¹⁾, D = 600, H = 2000
- 3 LVS08606: Framework, W = 650, D = 600, H = 2000
- 4 LVS08566: Front plate frame support, W = 650
- 5 LVS08523: Plain door, W = 300
- 6 LVS08528: Plain door, W = 800 (supplied with barrier for busbar compartment, W = 150)
- 7 LVS08526: Plain door, W = 650
- 8 LVS08743: Rear panel, W = 300 (screw-on panel)
- 9 LVS08748: Rear panel, W = 800 (screw-on panel)
- 10 LVS08746: Rear panel, W = 650 (screw-on panel)
- 11 LVS08765: Set of two side panels, D = 600 (screw-on panels)
- 12 LVS08653: Plain roof, W = 300, D = 600 (screw-on panel)
- 13 LVS08658: Plain roof, W = 800, D = 600 (screw-on panel)
- 14 LVS08656: Plain roof, W = 650, D = 600 (screw-on panel)
- 15 LVS08683: Plain gland plate, W = 300, D = 600
- 16 LVS08687: Plain gland plate, W = 800, D = 600
- 17 LVS08686: Plain gland plate, W = 650, D = 600.



(1) (650+150) or (150+650).



Cover panels

Enclosures

1000 mm deep switchboard

Made up of two cubicles back-to-back.

Rear connections are possible.

■ Front panels

- One of the following must be installed in front of the hinged front plate frame support:

- A plain door
- A transparent door

■ Rear panels = screw-on panels

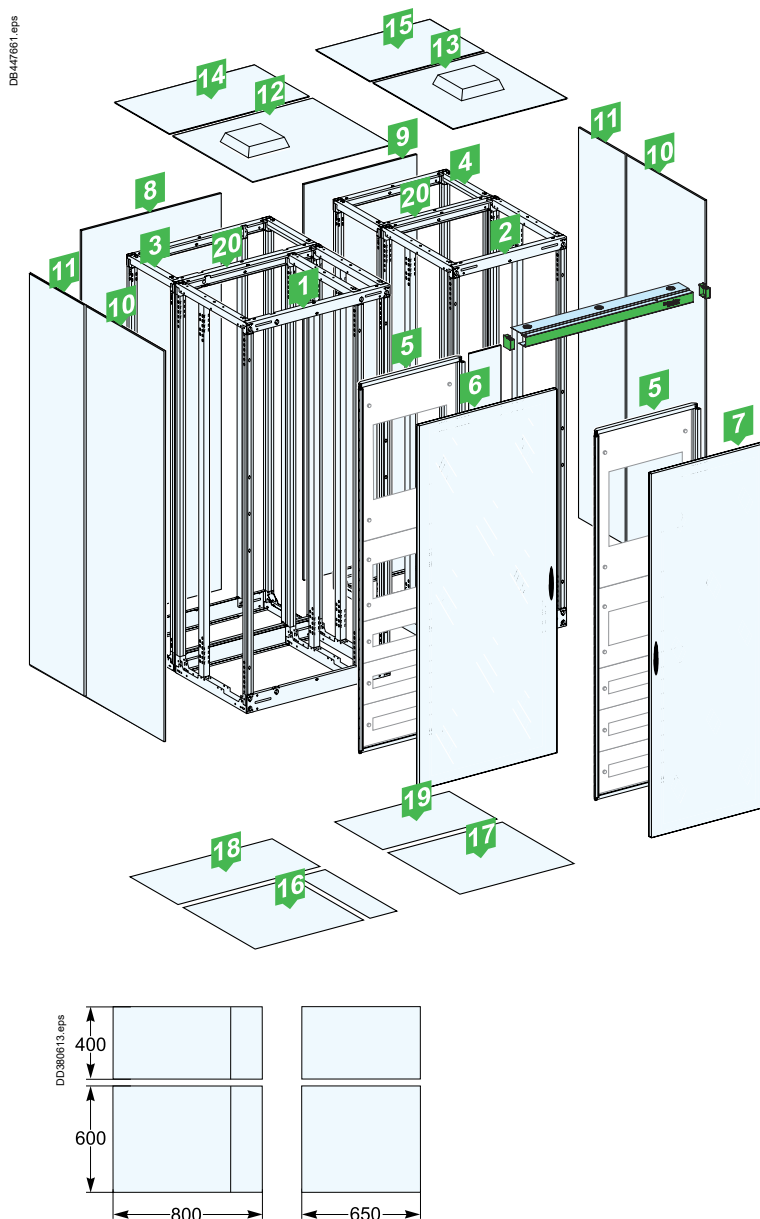
■ Side panels = screw-on panels

■ Plain roof

■ Gland plates (plain or in two parts)

Parts list:

- | | | |
|-----------|---------------|---|
| 1 | LVS08607: | Framework, W = 800, D = 600, H = 2000 |
| 2 | LVS08606: | Framework, W = 650, D = 600, H = 2000 |
| 3 | LVS08407: | Framework, W = 800, D = 400, H = 2000 |
| 4 | LVS08406: | Framework, W = 650, D = 400, H = 2000 |
| 5 | LVS08566: | Front plate frame support, W = 650 |
| 6 | LVS08528: | Plain door, W = 800
(supplied with barrier
for busbar compartment, W = 150) |
| 7 | LVS08526: | Plain door, W = 650 |
| 8 | LVS08748: | Rear panel, W = 800 (screw-on panel) |
| 9 | LVS08746: | Rear panel, W = 650 (screw-on panel) |
| 10 | LVS08765: | Set of two side panels, D = 600
(screw-on panels) |
| 11 | LVS08755: | Set of two side panels, D = 400
(screw-on panels) |
| 12 | LVS08658: | Plain roof, W = 800, D = 600
(screw-on panel) |
| 13 | LVS08656: | Plain roof, W = 650, D = 600
(screw-on panel) |
| 14 | LVS08458: | Plain roof, W = 800, D = 400
(screw-on panel) |
| 15 | LVS08456: | Plain roof, W = 650, D = 400
(screw-on panel) |
| 16 | LVS08687: | Plain gland plate, W = 800, D = 600 |
| 17 | LVS08686: | Plain gland plate, W = 650, D = 600 |
| 18 | LVS08487: | Plain gland plate, W = 800, D = 400 |
| 19 | LVS08486: | Plain gland plate, W = 650, D = 400 |
| 20 | LVS08719 x 2: | Double depth combination kit |

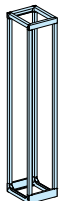
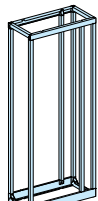
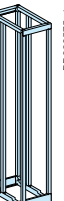
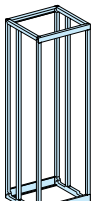
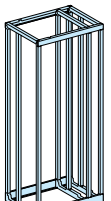


D

Cubicles

Frameworks

Enclosures

Mounting		Frameworks												
														
	DD380572.ai		DD380573.ai	DD380574.ai	DD380575.ai		DD380576.ai	DD380577.ai						
Width (mm)	300	400	650	800 (650 + 150)	300	400	650	800 (650 + 150)						
	Depth 400 mm				Depth 600 mm									
Cat. no.	LVS08403	LVS08404	LVS08406	LVS08407	LVS08603	LVS08604	LVS08606	LVS08607						
Composition	2 frames		–		+ 2 additional uprights		Equipped with intermediate uprights for the mounting plates.							
	4 cross-pieces Mounting hardware Framework combinations													
Characteristics	Cubicles can be combined side-by-side and back-to-back. Can be equipped with screw cover panels. Note: For the 800 mm width, the busbar compartment can be on the left or right.													

Mounting	Hinged front plate frame support	
		
	DD383835.eps	Dd381324.ai
Width (mm)	400	650
Cat. no.	LVS08564	LVS08566
Characteristics	■ Reversible for left or right-hand opening. ■ Secured at two points. Note: Can be mounted on 650 mm and 800 mm (650 + 150) wide cubicles.	

Cubicles

Frameworks

Enclosures

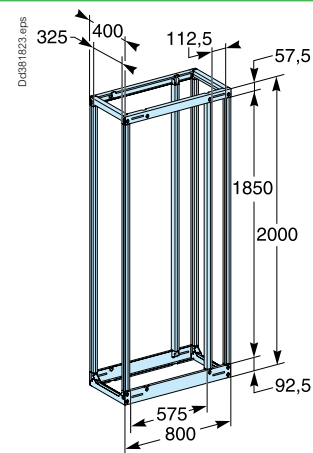
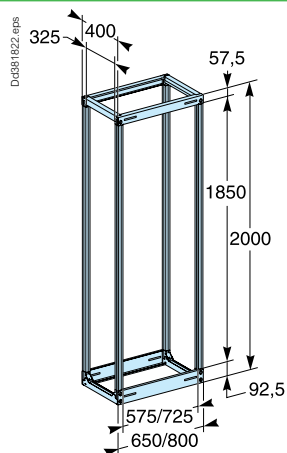
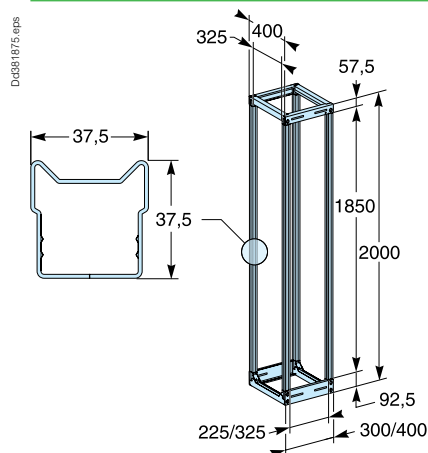
Type	Back-to-back
	Double depth combination kit
Cat. no.	LVS08719
Characteristics	The kit is made up of: ■ A set of hardware for the mechanical connections between the cross-pieces. ■ Six assembly plates to connect the uprights.
Accessories	
Type	Commodities
	Fixing screws and nuts
Cat. no.	LVS08921
Characteristics	Set of 20 screws + wing nuts for framework
	LVS08718
	Set of 10 screws + combination accessories

D

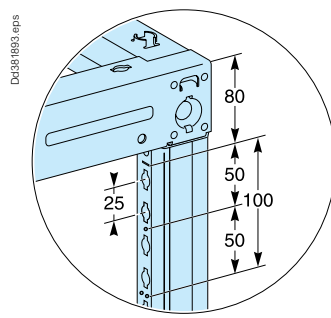
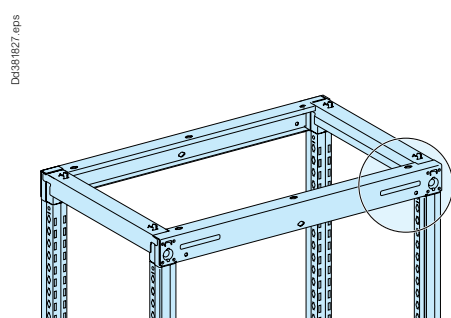
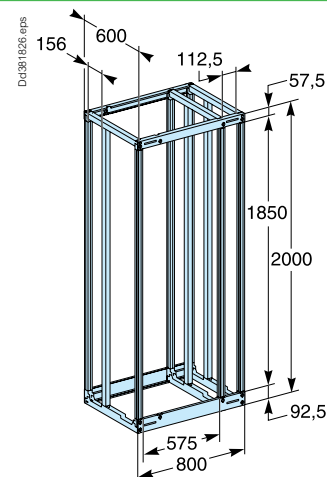
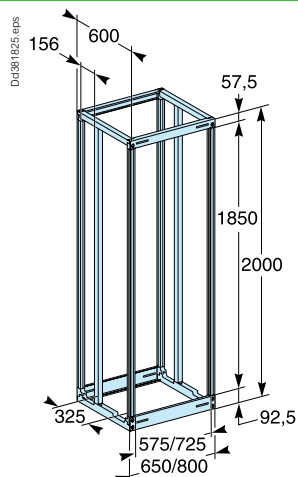
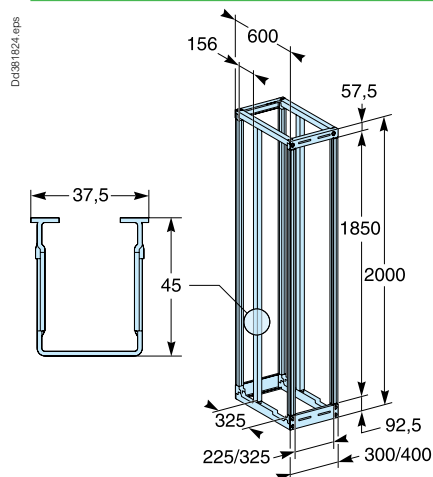
Cubicles

Dimensions (mm)

Frameworks, D = 400 mm

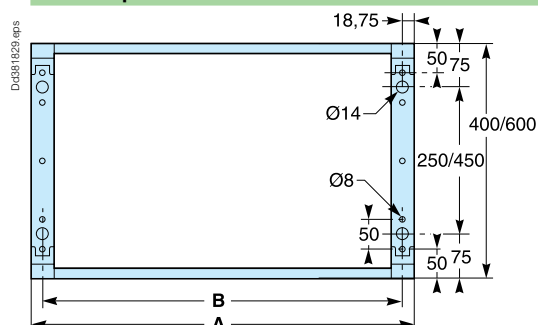


Frameworks, D = 600 mm

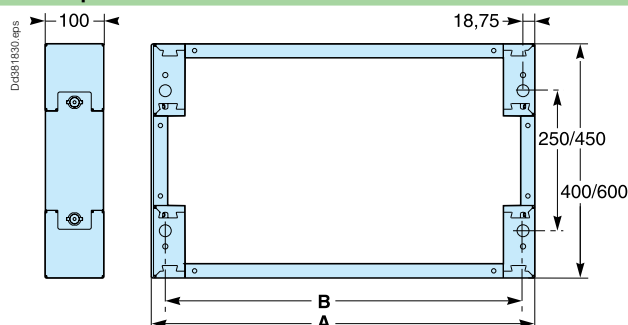


Fixing to floor

Without plinth



With plinth



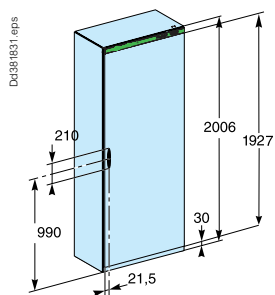
A	B
300	262.5
400	362.5
650	612.5
800	762.5

Cubicles

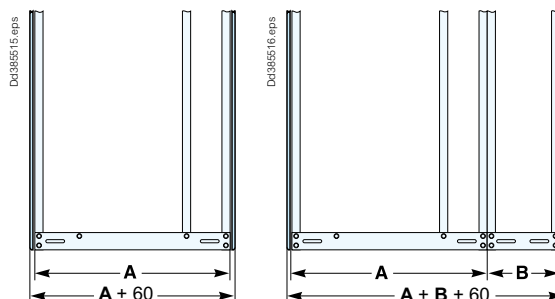
Dimensions (mm)

Cubicle with cover panels

Height

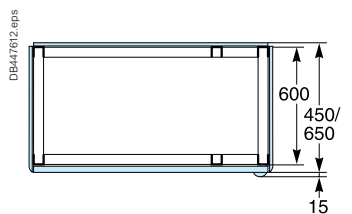


Width

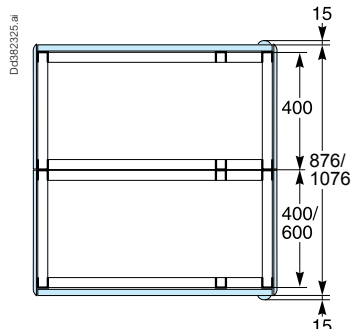
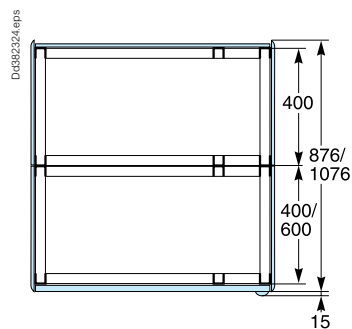
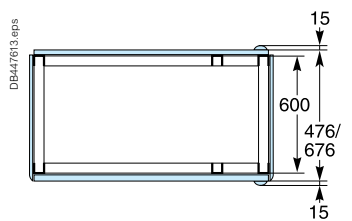


Depth

Door in front and panel in rear

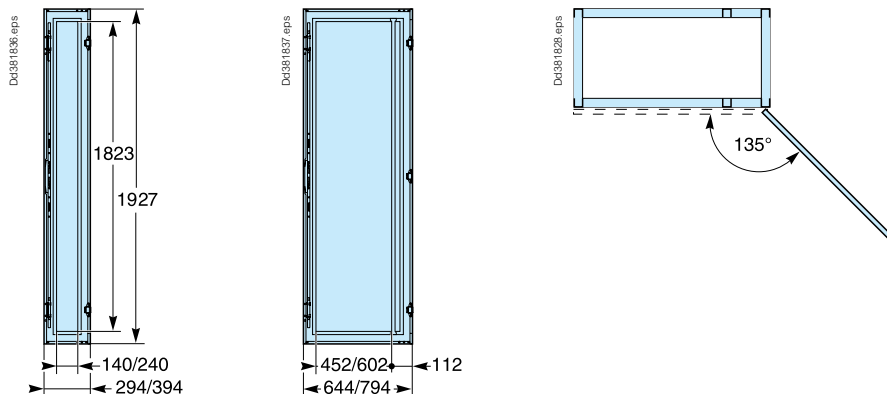


Doors front and rear

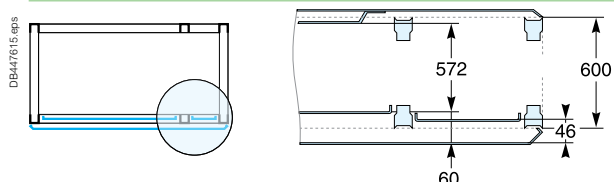


Door

IP31 door



Available space behind door

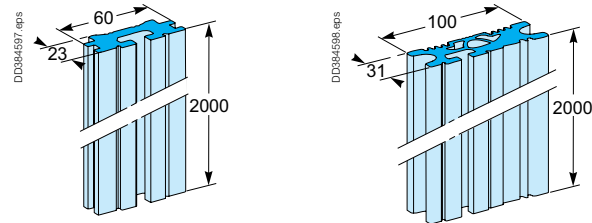


Dimensions (mm)

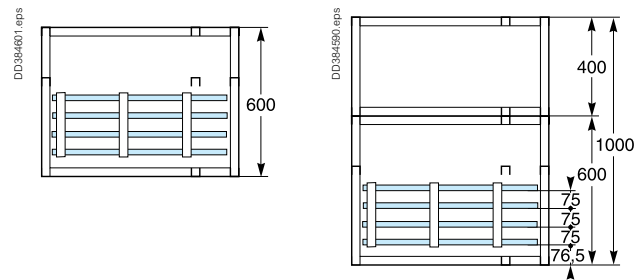
Linery LGYE busbars

630 A - 1600 A

2000 A - 2500 A



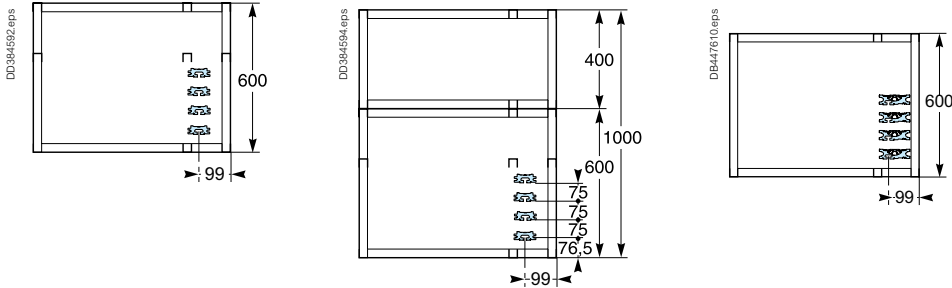
Layout of horizontal Linery LGYE busbars



Layout of vertical Linery LGYE busbars

630 A - 1600 A

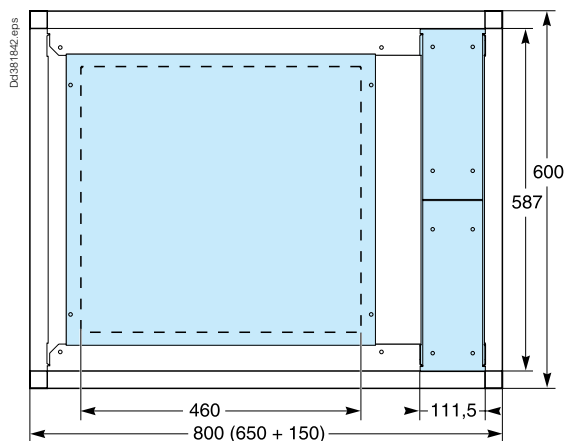
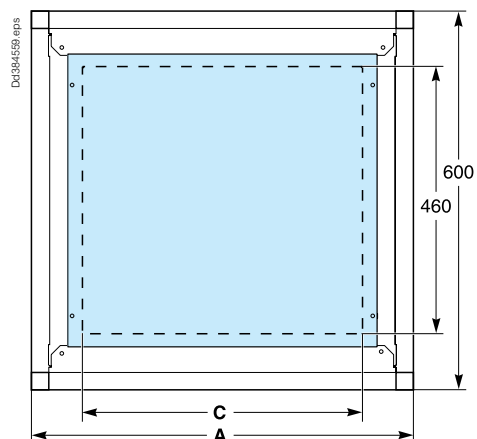
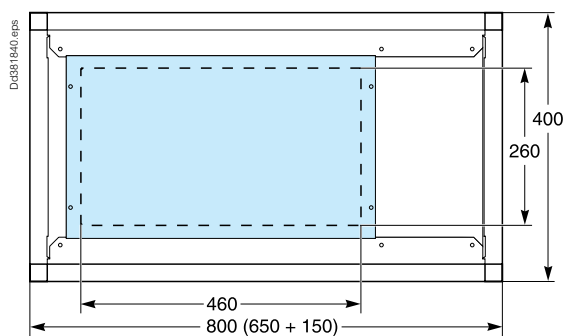
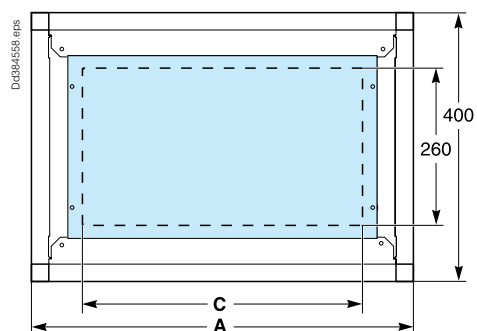
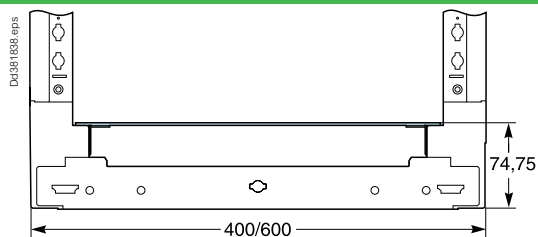
2000 A - 2500 A



Dimensions (mm)

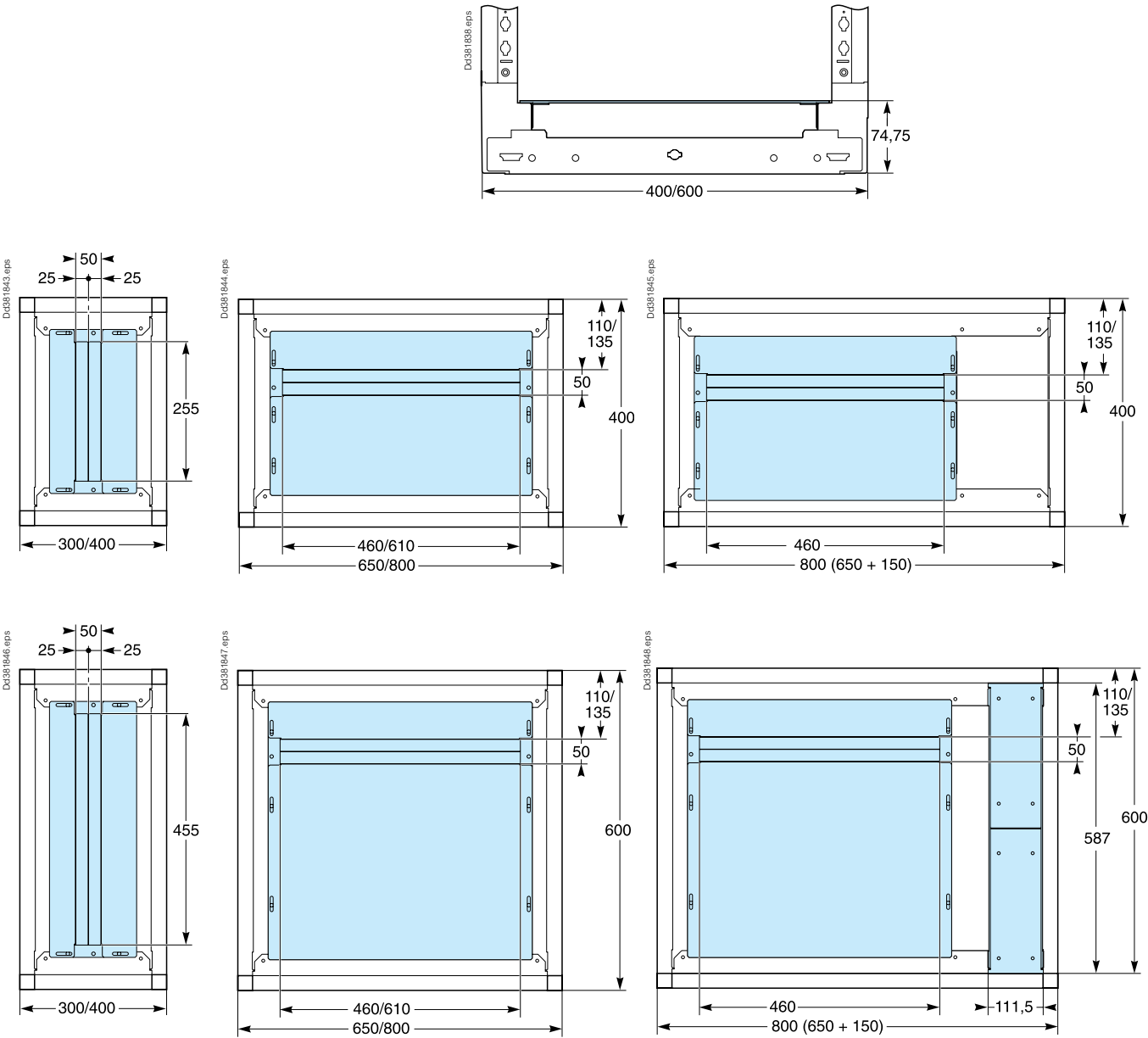
Plain gland plates

A	C
300	110
400	210
650	460
800	610



Dimensions (mm)

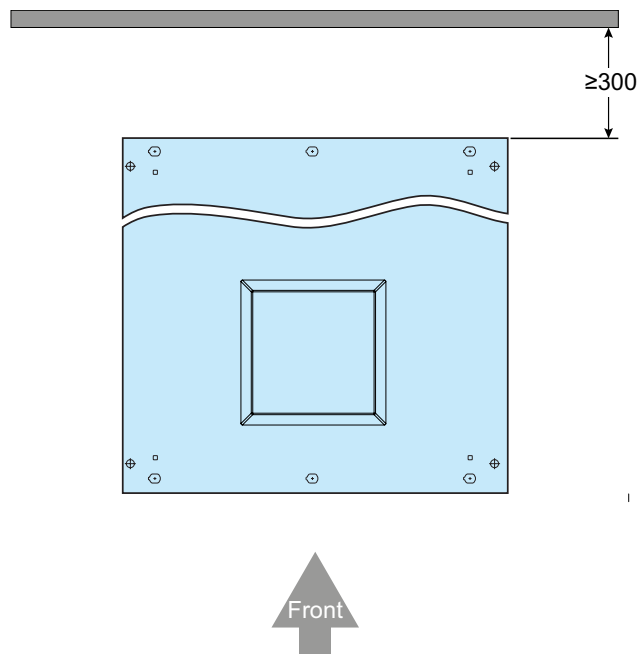
Two-part gland plates



Dimensions (mm)

Minimum distance around the switchboard

Top view

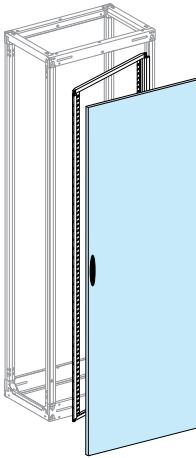
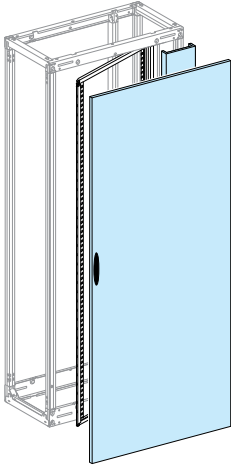


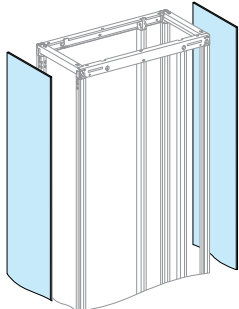
D

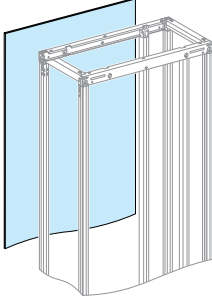
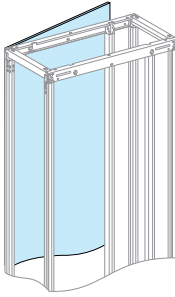
Cubicles

IP31

Enclosures

Mounting	Front doors			
				
Dimensions (mm)	W = 300	W = 400	W = 650	W = 800
Plain door	LVS08523	LVS08524	LVS01224	LVS01225
Reinforced door striker	LVS01114 ⁽¹⁾			
Characteristics	■ Reversible for left or right-hand opening. ■ Equipped with a handle and keylock (key 405). For other possibilities > page D-56. Note: The 800 mm door is supplied with a 150 mm barrier for the side compartment, plus a finishing accessory to improve the appearance of the upright. ⁽¹⁾ Refer to instruction sheet JPT89930 for assembly.			

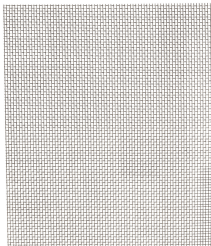
Mounting	Side panels	
		
Dimensions (mm)	D = 400	D = 600
Side panels	LVS08755	LVS08765
Characteristics	■ Equipped with a factory-mounted polyurethane (PUR) gasket. ■ Supplied with mounting hardware.	

Mounting	Rear panels			
				
Dimensions (mm)	W = 300	W = 400	W = 650	W = 800
Rear panel	LVS08743	LVS08744	LVS08746	LVS08748
Characteristics	■ Equipped with a factory-mounted polyurethane (PUR) gasket. ■ Supplied with mounting hardware. ■ One-piece, reinforced panel designed to ensure the degree of protection.			

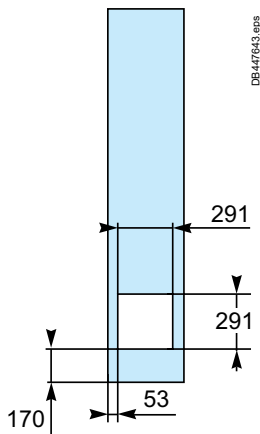
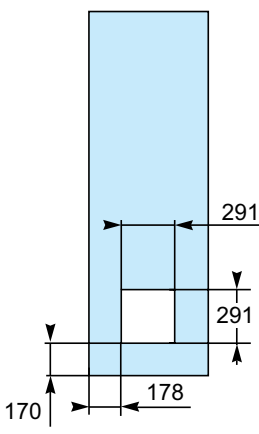
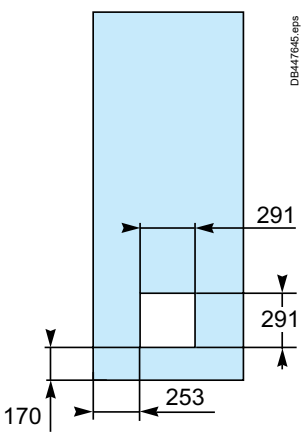
Cubicles

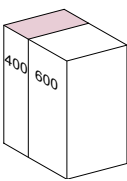
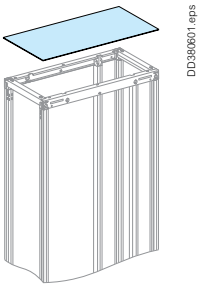
IP31

Enclosures

Ventilation accessories	Outlet grill	Filter for outlet grill
		
Catalog numbers	NSYCAG291LPF	NSYCAF291M

Note: Ventilation grid to be used only for IP31 enclosures.

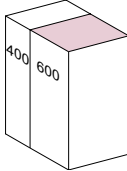
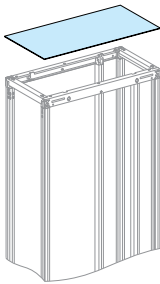
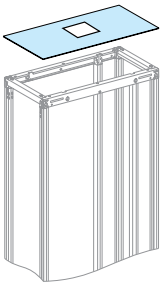
Cut-outs in rear panels			
			
Dimensions (mm)	W = 400	W = 650	W = 800

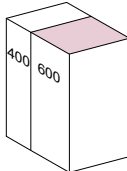
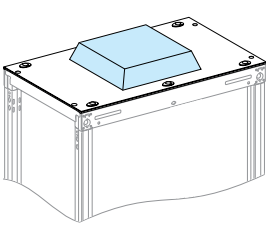
Mounting	Plain roof			
				
Dimensions (mm)	W = 300	W = 400	W = 650	W = 800
Plain roof D = 400 mm	LVS08453	LVS08454	LVS08456	LVS08458

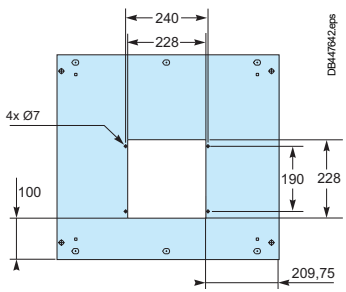
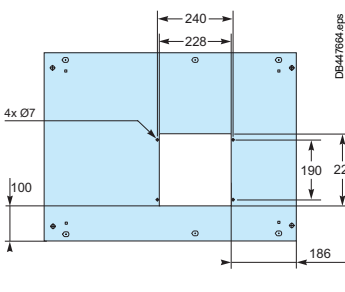
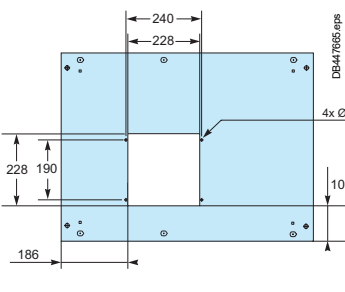
Cubicles

IP31

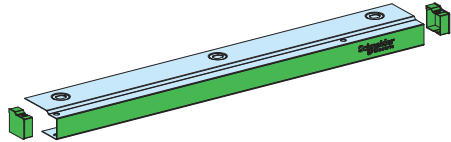
Enclosures

Mounting	Plain roof		Ventilated roof	
				
	Dimensions (mm) W = 300 W = 400 Roof D = 600 mm LVS08653 LVS08654		Dimensions (mm) W = 650 W = 800 Roof D = 600 mm LVS08656 LVS08658	

Mounting	Natural ventilation top hood without fan	
		
	Dimensions (mm) W = 650 W = 800 Catalog number NSYCAC228RMB	

	Cut-out in roof ⁽¹⁾		
			
	Dimensions (mm) W = 650 W = 800 (VBB on left) Roof D = 600 mm LVS08656 LVS08658		Dimensions (mm) W = 800 (VBB on right) Roof D = 600 mm LVS08658

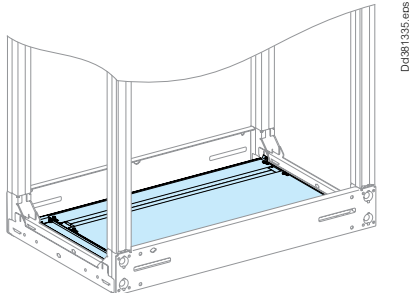
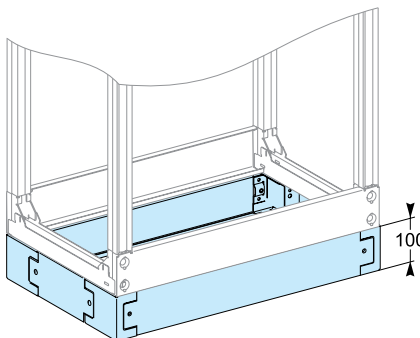
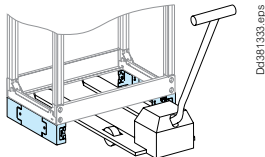
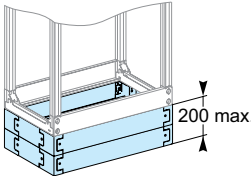
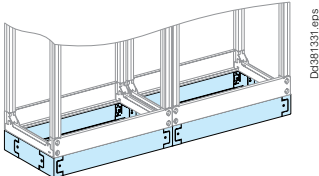
(1) Cut-out to be made by the customer according to the dimensions shown.

	Green cover to fix on top of each frame			
				
	Dimensions (mm) W = 300 LVS08640	W = 400 LVS08641	W = 650 LVS08642	W = 800 LVS08643
Characteristics	To cover the top of each section which does not have Voltage Presence Indicator.			

Cubicles

Plinth

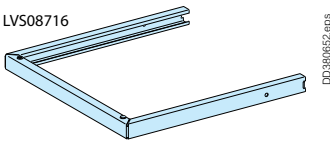
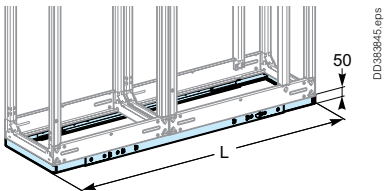
Enclosures

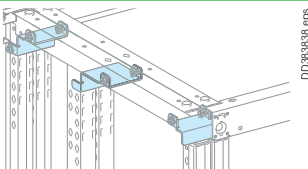
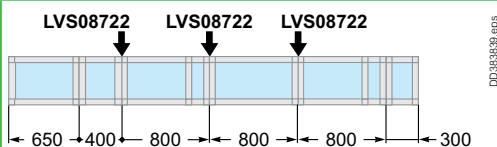
Mounting		Two-part gland plates					
							
Degree of protection		IP30/IP31					
Dimensions (mm)		D400			D600		
W = 300		LVS08493			LVS08693		
W = 400		LVS08494			LVS08694		
W = 650		LVS08496			LVS08696		
W = 800 (650 + 150)		LVS08497			LVS08697		
W = 800		LVS08498			LVS08698		
Mounting		Plinth H = 100 mm					
							
Dimensions (mm)		W = 300	W = 400	W = 650	W = 800	D = 400	D = 600
Four corner posts + two cross-pieces (front and rear)		LVS08723	LVS08724	LVS08726	LVS08728	–	–
Two side plates		–	–	–	–	LVS08720	LVS08721
Characteristics		The plinth is made up of two catalog numbers: ■ One catalog number comprising four corner posts + two cross-pieces (front and rear), that can be used in side-by-side combinations or stacked to form a plinth 200 mm high (maximum). ■ One catalog number comprising two side plates (400 or 600 mm). Each catalog number is supplied with the necessary hardware.					
Examples		 Side-by-side combination of two cubicles with a plinth. Two stacked plinths. The front and rear cross-pieces can be easily removed for a pallet-mover.					
		WARNING  TIP OVER HAZARD • Read and apply user instructions before work: • Secure the product in place. • Secure the product if removing the securing bolts or moving the product. • Use appropriate lifting equipment. • Use trained personnel only, who know and understand the user instructions. Failure to follow these instructions can result in death, serious injury, or product damage.					

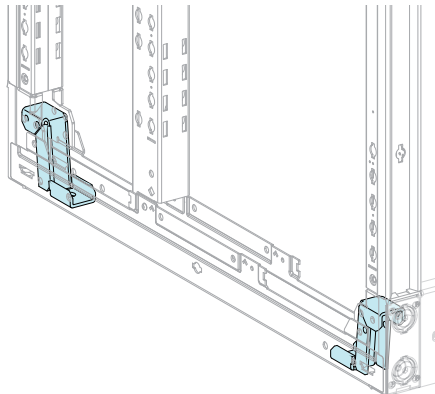
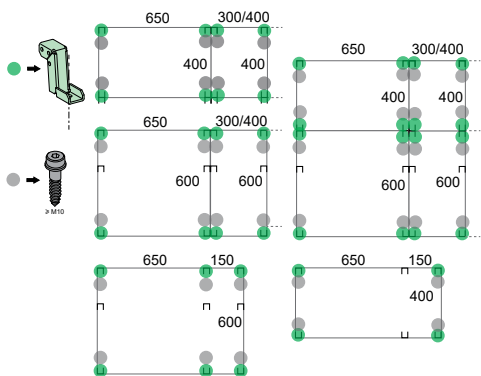
Cubicles

Cubicle handling and lifting reinforcement kit

Enclosures

Mounting	Cubicle handling and rolling base				
					
Dimensions (mm)	D = 400	D = 600	L1200 to L1900	L2000 to L2550	L2650 to L3050
2 cubicle handling base end-pieces	LVS08714	LVS08716	—	—	—
Cubicle handling	—	—	LVS08705	LVS08706	LVS08707
Characteristics	This type of base is designed to avoid any risk of cubicle deformation during transport and handling. Five different catalog numbers offer 27 width possibilities (1200 to 3050 mm) for 400 and 600 mm deep cubicles. - Two catalog numbers each include 2 end-pieces for handling bases for 400 and 600 mm deep cubicles respectively and the corresponding mounting hardware. - Three catalog numbers each include 2 lengths for the sides of handling bases for 1200 to 3050 mm wide cubicles respectively and the corresponding mounting hardware. Handling bases can be used for both side-by-side and back-to-back cubicle combinations. In this case, the mounting hardware for one of the sets is used.				

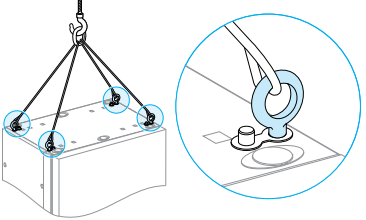
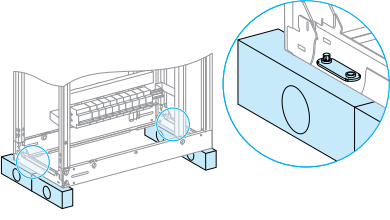
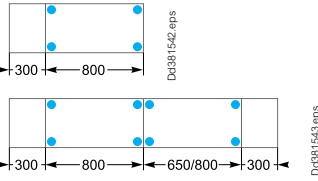
Mounting	Lifting reinforcement kit	
	 	
Dimensions (mm)	D = 400, D = 600	
Lifting reinforcement kit	LVS08722	
Characteristics	Kit LVS08722 is recommended for lifting combined cubicles and can be used together with handling base end-pieces LVS08714 or LVS08716 for severe transport or handling conditions. Catalog number LVS08722 includes 3 reinforcement brackets for 400 or 600 mm deep cubicles and the corresponding mounting hardware.	

Mounting	Seismic Kit
	 
Reinforcement bracket	LVS08710
Characteristics	Catalog number ref LVS08710 includes 1 reinforcement bracket and 4 M6 screws. Plinths are not allowed with seismic kits.

Type of cubicle	W300		W400		W650		W650 + W150	
	D = 400	D = 600	D = 400	D = 600	D = 400	D = 600	D = 400	D = 600
Framework	LVS08403	LVS08603	LVS08404	LVS08604	LVS08406	LVS08606	LVS08407	LVS08607
Reinforcement bracket	LVS08710 x 4		LVS08710 x 4		LVS08710 x 4		LVS08710 x 4	LVS08710 x 6
Longitudinal cross men	LVS08773		LVS08774		LVS03587 x 2		LVS03587 x 2	
Lateral cross member	LVS03584 x 2	LVS03584 x 2 + LVS03586 x 2	LVS03584 x 2	LVS03584 x 2 + LVS03586 x 2	LVS03584 x 2	LVS03584 x 2 + LVS03586 x 2	LVS03584 x 2	LVS03584 x 2 + LVS03586 x 2
M10 screw (not supplied)	4	4	4	4	4	4	4	6

Installation accessories

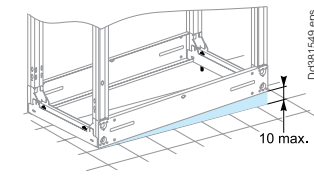
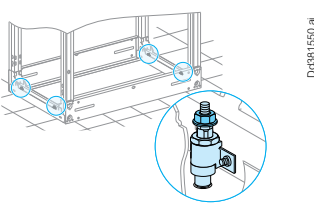
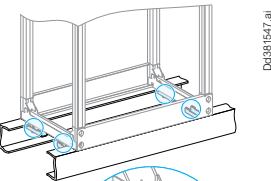
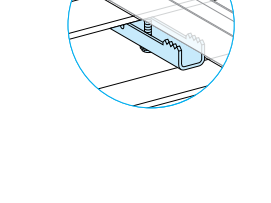
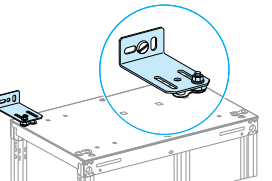
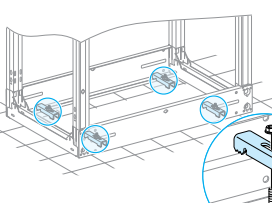
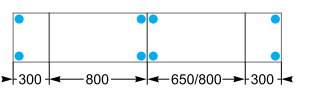
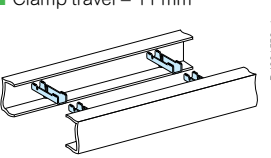
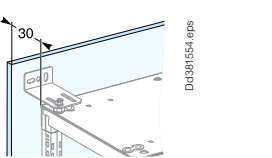
Enclosures

Mounting	Lifting rings	Framework stabiliser kit
	 Dc881541.ai WARNING HAZARD OF DROPPING • Use strong slings with a valid use-by date when lifting with cranes. • Attach the slings to the 4 lifting rings of the cubicles. • For combined units, use lifting beam and slings for lifting. • Secure the plinth of floor standing enclosure using the fasteners. Failure to follow these instructions can result in death, serious injury, or equipment damage.	 Dc883846.ai
Cat. no.	LVS08700	LVS08701
Characteristics	■ Set of four lifting rings screwed to the framework. ■ Use a set of lifting rings for each framework (W = 650 and 800 mm) containing devices. ■ When two cubicles with devices have been combined, use a lifting beam. ■ Can be installed and removed without removing the roof. ■ Even if they are left attached, the switchboard conserves its original degree of protection.  Dc881542.eps Dc881543.eps Positions of the lifting rings for two combined cubicles containing devices. In this case, a lifting beam must be used.	■ Made up of four blocks under the framework. ■ Suitable for all types of cubicles, whatever the width and depth. ■ Increases the stability of the cubicle during mounting of devices. ■ Makes possible cubicle handling using a pallet mover or a forklift. ■ Protects the front, side and rear cover panels during handling. ■ Can be reused.

D

Installation accessories

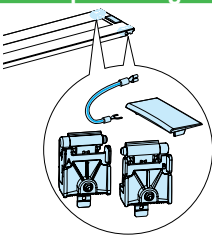
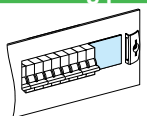
Enclosures

Mounting	Levelling kit	False floor fixing kit	Floor/wall fixing kit
	 	 	  WARNING HAZARD OF DROPPING • Use strong slings with a valid use-by date when lifting with cranes. • Attach the slings to the 4 lifting rings of the cubicles. • For combined units, use lifting beam and slings for lifting. • Secure the plinth of floor standing enclosure using the fasteners. Failure to follow these instructions can result in death, serious injury, or equipment damage.
Cat. no.	LVS08702	LVS08703	LVS08704
Characteristics	■ Set of 4 fixtures. ■ Can be installed at any time, even when the cubicle is already in position. ■ Maximum adjustment range = 10 mm. ■ Secures the cubicle to the floor.  Recommended positions of the fixtures for combined cubicles.	■ Made up of four independent clamps. ■ Clamp on: □ "U" sections: H = 175 mm, W = 70 mm □ "I" sections: H = 120 mm, W = 64 mm ■ Clamp travel = 11 mm 	■ Made up of two brackets and four clamps. ■ Can be used to offset the switchboard fixing points for easier access. ■ The wall brackets ensure sufficient wall clearance (at least 30 mm) for natural convection. 

Front plate accessories

Front plate accessories, blanking plates

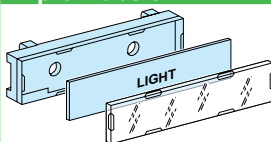
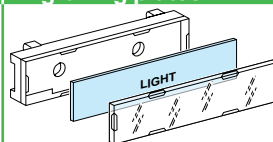
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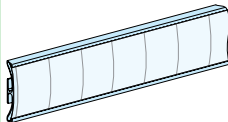
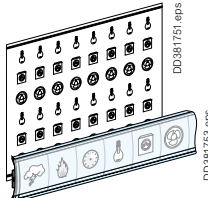
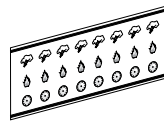
Used for	Front plate hinge kit	Blanking plates	
	 DD383950.eps	 DD384029.eps	
Cat. no.	LVS08585 ⁽¹⁾	For modular devices LVS03220	
Characteristics	■ Set of 2 hinges ■ 1 earthing braid	■ Strip ■ H = 46 mm, L = 1 m	■ Divisible ■ Set of 4 ■ H = 46 mm, L = 90 mm ■ White RAL 9003

(1) With a power voltage > SELV (12 V), devices on front plates must be mounted with a front plate hinge kit (cat no. **LVS08585**). The earthing braid must be connected to the front plate frame support (cat no. **LVS08566**, **LVS08564**, **LVS08560**, **LVS08562** or else).

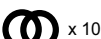
With a power voltage > SELV (12 V) and a supply protection > 16 A, in addition to the preceding rule, the front plate frame support (cat no. **LVS08566**, **LVS08564**, **LVS08560**, **LVS08562** or else) must be connected to the cubicle frame, using an earthing braid (cat no. **LVS08910** or **LVS08911**). (standard NF / EN 61439-1 2011 edition).

Identification labels

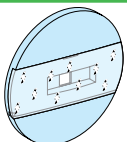
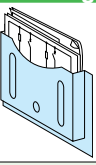
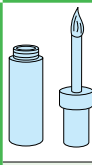
Used for	Clip-on labels			Engraving plates		
	 DD383974.eps			 Dd383975.eps		
Cat. no.	LVS08913	LVS08915	LVS08917	LVS08914	LVS08916	LVS08918
Dimensions (mm)	18 x 35	18 x 72	25 x 85	18 x 35	18 x 72	25 x 85
Characteristics	■ Set of 12. ■ The clip-on support is supplied with a paper label and a transparent cover. ■ It clips onto the front plate horizontally or vertically and can be screwed to any support (plain door, plain front plate, etc.).			■ Set of 12. ■ Simply replace the paper labels.		

Used for	Adhesive labels				Symbol sheets		
	 DD381715.eps				 DD381751.eps DD381753.eps	 DD381752.eps	
Cat. no.	LVS08905	LVS08906	LVS08903	LVS08904	13735	13736	
Dimensions (mm)	24 x 180	36 x 180	24 x 432	36 x 432			
Characteristics	■ Set of 12. ■ The adhesive label holders are supplied with a paper label and a transparent cover.				■ Set of 10 symbol sheets. ■ Standard symbols: □ Loads: sockets, lights, heating units, etc. □ Rooms: bedroom, bathroom, etc.		■ Set of 10 symbol sheets. ■ Special symbols: □ Loads: lightning arrestor, gate, swimming pool, etc. □ Rooms: technical room, computer room, etc.

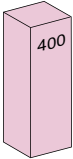
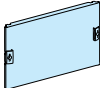
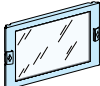
Adhesive labels for mimic diagrams

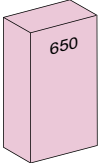
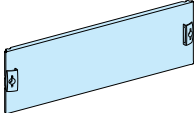
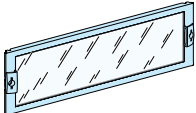
Used for	Lines	Outgoing arrows	Incoming arrows	Transformers
	 x 10	 x 10	 x 10	 x 10
Cat. no.	LVS01005	LVS01006	LVS01007	LVS01008
Characteristics	900 mm long and 7 mm thick Set of 10			

Accessories

Used for	Switchboard identification plate	Drawing holder	Touch-up accessories
	 DD381721.eps	 DD381208.eps	 DD385306.eps
Cat. no.	LVS08900	LVS08963	LVS08961
Characteristics	Color: RAL 9003	Color: RAL 9003	Color: RAL 9003

Reserve space

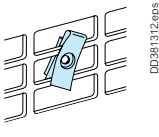
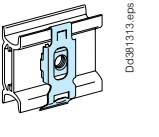
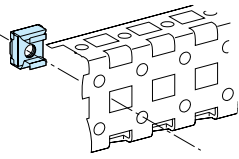
	Reserve space							
	 DB417928 eps							
	Plain front plate W = 250 mm							
	H = 50 mm	H = 100 mm	H = 150 mm	H = 200 mm	H = 250 mm	H = 300 mm	H = 450 mm	H = 600 mm
[No. of vertical mod.]	[1]	[2]	[3]	[4]	[5]	[6]	[9]	[13]
Catalog number	LVS03811	LVS03812	LVS03813	LVS03814	LVS03815	LVS03816	LVS03817	LVS03722
	 DB417929 eps							
	Transparent front plate W = 250 mm							
[No. of vertical mod.]	–	–	–	[4]	–	[6]	[9]	–
Catalog number	–	–	–	LVS03352	–	LVS03353	LVS03354	–

	Reserve space							
	 DB417926 eps							
	Plain front plate W = 500 mm							
	H = 50 mm	H = 100 mm	H = 150 mm	H = 200 mm	H = 250 mm	H = 300 mm	H = 450 mm	H = 600 mm
[No. of vertical mod.]	[1]	[2]	[3]	[4]	[5]	[6]	[9]	[12]
Catalog number	LVS03801	LVS03802	LVS03803	LVS03804	LVS03805	LVS03806	–	LVS03808
	 DB417927 eps							
	Transparent front plate W = 500 mm							
[No. of vertical mod.]	–	–	–	[4]	–	[6]	[9]	[12]
Catalog number	–	–	–	LVS03342	–	LVS03343	LVS03344	LVS03345

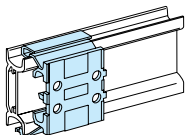
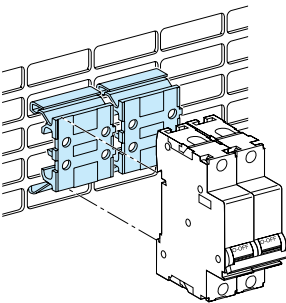
Fixing accessories

Others

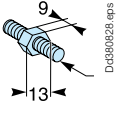
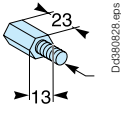
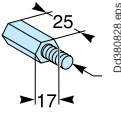
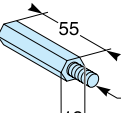
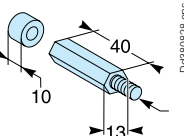
Clip-nuts

Mounting	For slotted mounting plates	For modular rails	For lateral and longitudinal cross-members
	 DD381312.eps	 Dd381313.eps	 Dd381612.eps
M4	LVS03180	LVS03164	—
M5	LVS03181	LVS03165	—
M6	LVS03182	LVS03166	LVS03194
Characteristics	■ Set of 20 ■ Mounting of various devices	■ Set of 20 ■ Mounting of various devices	■ Set of 20 ■ Mounting in cubicles

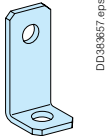
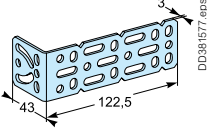
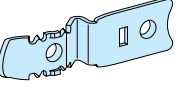
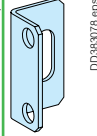
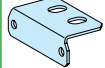
Pratic raiser

Raiser	
	 DD381314.eps  DD381576.eps
Catalog number	LVS04224
Characteristics	■ Set of 5 ■ Height 10 mm, wide 27 mm ■ Color: RAL 9003, insulating material

Hexagonal spacers

Hexagonal spacers					
	 Dd380028.eps	 Dd380028.eps	 Dd380028.eps	 Dd380028.eps	 Dd380028.eps
M5	LVS03185	LVS03186	—	LVS03187	—
M6	LVS03195	LVS03196	LVS03198	LVS03197	—
M8	—	—	—	—	LVS03199
Characteristics	■ Height: 9 mm ■ Set of 4	■ Height: 23 mm ■ Set of 4	■ Height: 25 mm ■ Set of 4	■ Height: 55 mm ■ Set of 4	■ Height: 40 + 10 mm ■ Set of 4

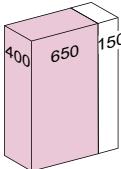
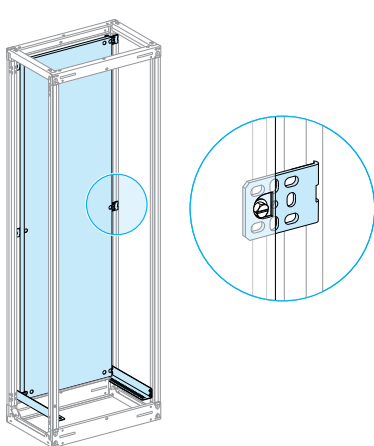
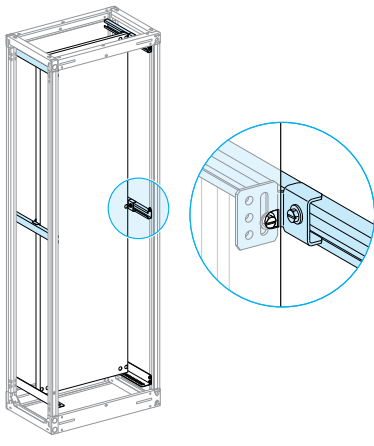
Universal angle brackets

Universal angle brackets					
	 DD383657.eps	 DD381577.eps	 DD383220.eps	 DD383378.eps	 DD385531.eps
Catalog number	LVS03580	LVS03581	LVS03582	LVS03583	LVS04667
Characteristics	Set of 4 + vis	Set of 2	6 universal inserts	Set of 6	Set of 2

Universal adapter
Mounting on a plain backplate

Others

Mounting on a plain backplate

Mounting	Plain backplate	Slide rails + angle brackets	
	 D4081174.ai	 D4081309.ai	
Catalog number	LVS03570	LVS03569	LVS03593
Characteristics	36 modules 510 mm wide for installation in a device compartment W = 650 mm or W = 800 mm (650 + 150)	36 modules 660 mm wide for installation for a cubicle W = 800 mm	Set of 2 for the installation and depth adjustment

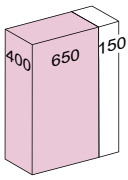
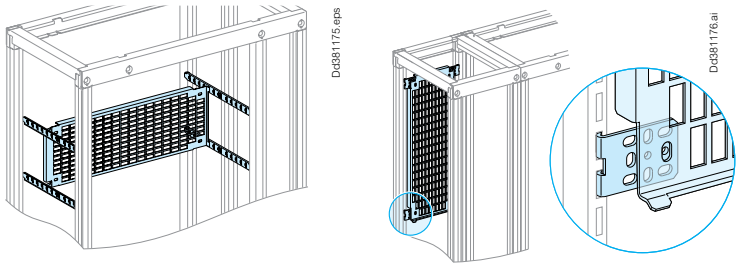
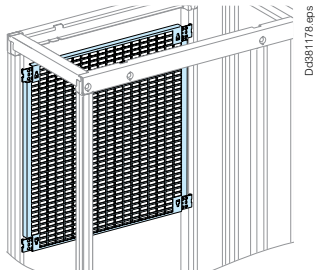
Others devices

Mounting on a slotted plate

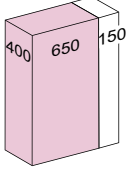
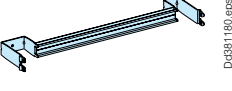
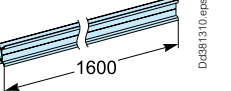
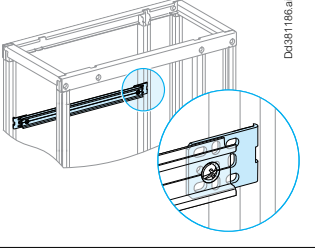
Mounting on a modular rail

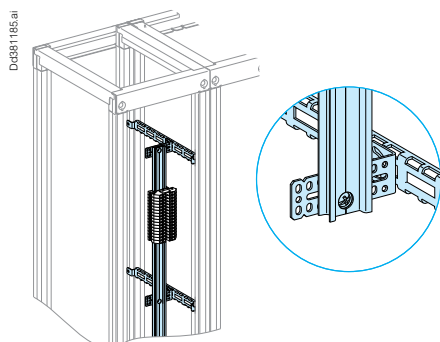
Others

Mounting on a slotted plate

Mounting	Slotted mounting plates + lateral cross-members		Slotted mounting plate without lateral cross-members
			
Catalog number	LVS03571	LVS03572	LVS03574
Number of vertical modules	4	6	12
Height (mm)	200	300	600
2 universal angle brackets	—	2 x LVS03581	—
Characteristics	Installation ■ Either in the device zone on the four lateral cross-members (depth adjustment is possible). ■ Or vertically at the rear of a cable compartment, W = 300 mm (LVS03571) or W = 400 mm (LVS03572).		■ Galvanised, slotted metal mounting plate. ■ Supplied with four angle brackets, they connect directly to the rear of a framework, W = 650 mm or 800 mm (650 + 150 mm). ■ The mounting plate can also be installed using two sets of two slide rails (LVS03593 x 2) for depth adjustment.

Mounting on a modular rail

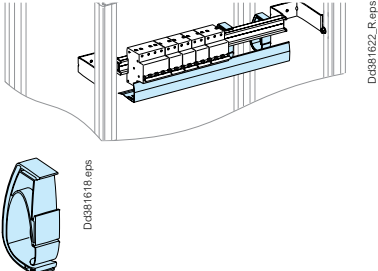
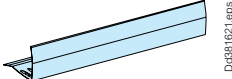
Mounting	Modular rails			Modular rail W = 650 mm
				
Catalog number	LVS03401	LVS03402	LVS04226	LVS03590
Characteristics	Useful length: 432 mm	Useful length: 432 mm Modular rail (adjustable)	Set of 2 rails, useful length: 1600 mm with 4 holes, Ø 6.4 mm, 450 mm between centres	W = 650 mm Supplied with two angle brackets for mounting on the framework.



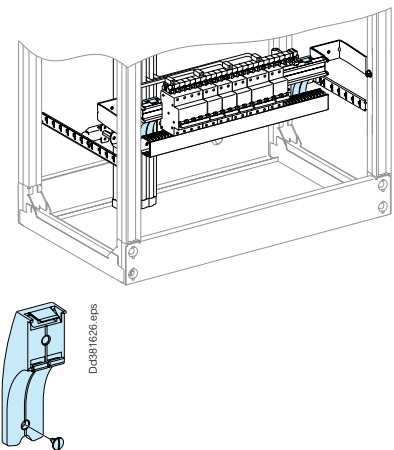
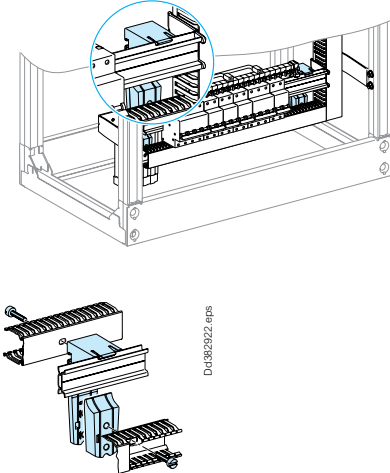
Cable running

Others

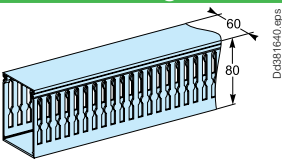
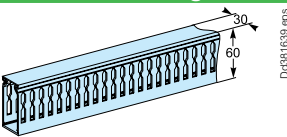
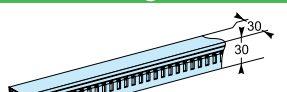
Straps and covers

Type	Horizontal cable straps	Covers for horizontal cable straps
	 DD81622_R eps DD81618 eps	 DD81621 eps
Catalog number	LVS04239	LVS04243
Characteristics	Set of 12 Horizontal cable straps have the same capacity as 60 x 30 mm trunking.	Set of 4 covers of 430 mm

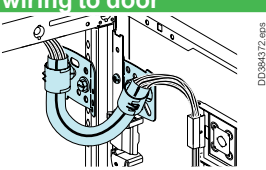
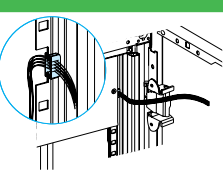
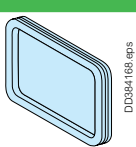
Trunking supports

Type	Horizontal trunking supports	Adaptable support for horizontal trunking
	 DD38220 eps DD381626 eps	 DD382924 eps DD382922 eps
Catalog number	LVS04255	LVS04256
Characteristics	Set of 12	Set of 10 Aligns the cover of a horizontal trunking section (H = 60 or 80 mm) with that of a vertical trunking section (H = 80 mm). Note: Not designed for use with Pack enclosures.

Trunkings

Type	Vertical trunkings 80 x 60 mm	Horizontal trunkings 60 x 30 mm	Cable trunkings for doors 30 x 30 mm
	 DD81640 eps	 DD81639 eps	 DD81641 eps
Catalog number	LVS04267	LVS04257	LVS04233
Characteristics	Set of 18 L = 2000 mm	Set of 4 L = 450 mm Supplied with supports	Set of 30 adhesive trunkings 30 x 30 mm L = 2000

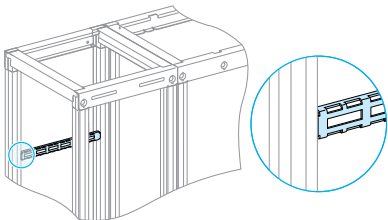
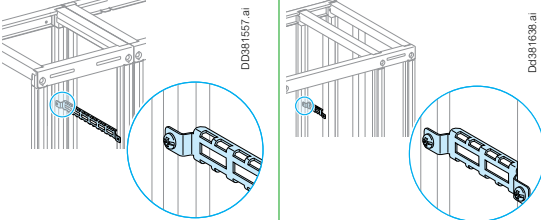
Cable trunkings for doors, grommets

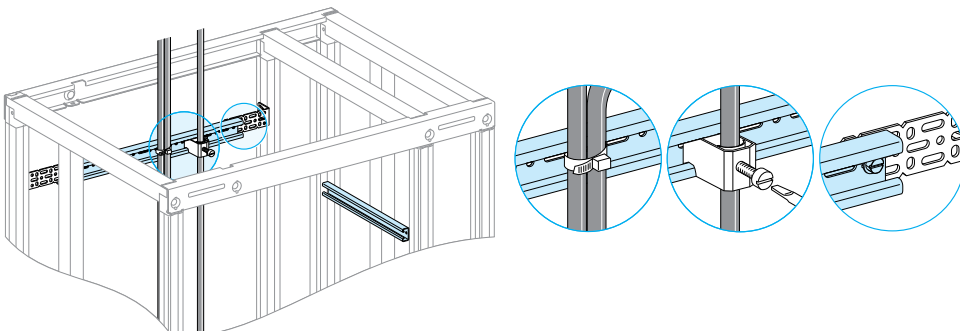
Type	Flexible trunkings for wiring to door	Grommets		
	 DD384372 eps	 DD383653 eps	 DD384168 eps	 DD382719 eps
Catalog number	LVS04235	LVS04234	LVS01215	87648
Characteristics	W = 500 mm, inner Ø = 19 mm	Set of 10 For wiring through front	5 square grommets 70 x 40	50 grommets Ø22 mm

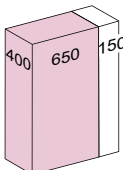
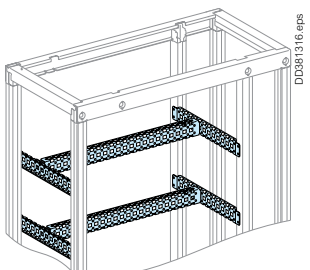
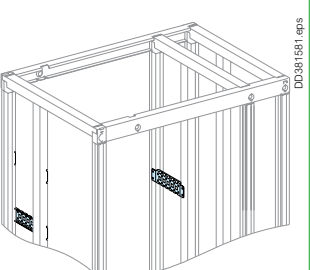
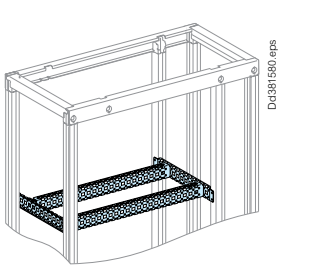
Connection accessories

Cable-tie supports, lateral and longitudinal cross-members

Others

Mounting	Longitudinal cable-tie supports				Lateral cable-tie supports	
						
Catalog number	LVS08773	LVS08774	LVS08776	LVS08778	LVS08794	LVS08796
Characteristics	W = 300 mm	W = 400 mm	W = 650 mm	W = 800 mm	D = 400 mm	D = 200 mm
	Set of 4, supplied with the necessary hardware for connection to the framework. Cable-tie supports are used to correctly position the cables in the connection compartment.				For frameworks that are 400 mm deep, assign a 400 mm deep support to a 200 mm deep support.	

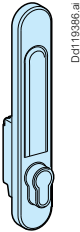
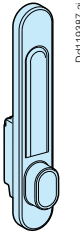
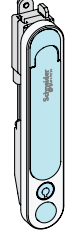
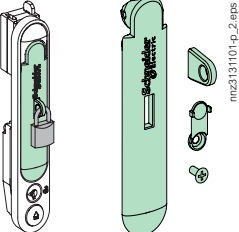
Mounting	C-shaped cable-tie supports
	
Catalog number	LVS08783
Characteristics	C-shaped 1600 mm long support, supplied with hardware for mounting on universal angle brackets and modular rails, that can be cut to length as needed. Can be secured to: ■ Universal angle bracket LVS03581 (for the longitudinal support). ■ Universal angle bracket LVS03582 (for the lateral support). ■ Modular rail LVS03593 (for depth adjustment).

Mounting	Lateral cross-members		Longitudinal cross-members
			
Catalog number	LVS03584	LVS03586	LVS03587
Characteristics	Set of 2 W = 400 mm: for frameworks that are 400 mm deep	Set of 2 W = 200 mm: can be added to the 400 mm crossmembers for frameworks that are 600 mm deep. They can also be installed separately.	Set of 2 W = 650 mm They are connected directly to the framework (W = 650 mm). They can also be mounted on the lateral cross-members.
	Metallics, they offer numerous positioning holes for easier installation.		

Door handles and locks

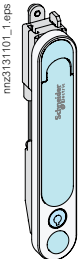
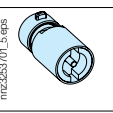
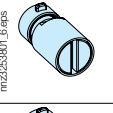
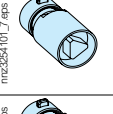
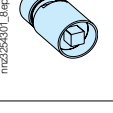
Handles and padlocking

Others

	EURO handle	ASSA/ABLOY handle	RAL 7016 rotary handle	Padlocking
	 Dcd119386.ai	 Dcd119387.ai	 nmz3131101_1.eps	 nmz3131101-p_2.eps
Cat. no.	LVS07932	LVS07933	LVS07931	LVS07938
Characteristics	Supplied without barrel	Supplied without barrel	Supplied with barrel lock (key no. 405) RAL 7016	For new rotary handle

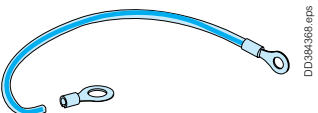
Barrel locks, inserts

The barrel locks and inserts below can mount on all the door handles of PrismaSeT P range after removing the standard barrel lock (key n°405).

Barrels and inserts for rotary handle		
	Characteristics	Catalog numbers
 nmz3131101_1.eps	1 key no. 405	LVS07940
 nmz3138101_3.eps	2 keys no. 455	LVS07941
	2 keys no. 1242E	LVS07942
	2 keys no. 3113A	LVS07943
	2 keys no. 2433A	LVS07944
	2 keys no. 2432E	LVS07956
 nmz3253301_4.eps	DIN double bar insert	LVS07945
 nmz3253701_5.eps	Screwdriver slot insert	LVS07946
 nmz2534801_6.eps	Male triangle insert 8 mm	LVS07949
 nmz3254101_7.eps	Male square insert 6 mm	LVS07951
	8 mm	LVS07953
 nmz254301_8.eps		

Earthing braid

Earthing braid is used to earth a door or wicket door with devices.

	Earthing braid, 6 mm ²	Earthing wire, 6 mm ²
	 DD384368.eps	 DD384368.eps
Catalog numbers	LVS08910	LVS08911
Characteristics	Equipped with a 4 mm diameter lug at one end and a 6 mm diameter lug on the other. W = 200 mm.	Equipped with a 5 mm diameter lug at one end and a 6 mm diameter lug on the other. W = 200 mm.

Ventilation accessories

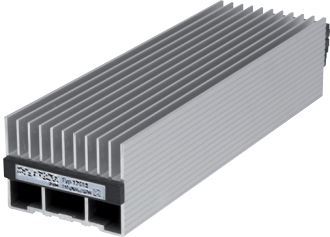
Heat

Others

Resistors

Resistors prevent condensation, corrosion and superficial leakage currents. They maintain a positive temperature in the enclosures and cubicles when external temperatures drop very low.

- Install heaters according to the desired power level at the bottom of the enclosure.
- Respect a safety area of a least 10 cm around the device.
- The heaters must be installed with a thermal controller to control the temperature or the humidity inside the enclosure.
- The enclosure must be sealed to prevent the entry of air from the outside.
- An electrical protection device must be installed on the supply side of the unit.
- Surface temperature limited to 75 °C when the ambient temperature is -5 °C.
- Heaters equipped with a power cable with a length of 500 mm with silicon insulation, or with a connection terminal block.

	Aluminium PTC resistors					Resistive heaters with fan	
							
	Power cord		Terminal block			Terminal block	
Cat. no.	NSYCR10WU2	NSYCR20WU2	NSYCR55WU2	NSYCR100WU2	NSYCR150WU2	NSYCR250W230VV	NSYCR400W230VV
Power rating (W)	10	25	55	90	150	250	400
Voltage (V)	110-250 AC	110-250 AC	110-250 AC	110-250 AC	110-250 AC	230 AC	230 AC
Characteristics	■ Vertical mounting ■ Aluminium case with fins ■ Temperature: □ Turns off at 60 °C □ Turns on at 25-30 °C (temperature of the resistor itself) ■ Equipped with a symmetrical					■ Vertical mounting ■ Aluminium case with fins ■ Temperature: □ Turns off at 60 °C □ Turns on at 25-30 °C (temperature of the resistor itself) ■ Equipped with a symmetrical	

Thermofan

	Thermofan
	
	Terminal block
Cat. no.	NSYCRP1W230VTVC
Power rating (W)	400/550
Voltage (V)	230 AC
Characteristics	■ Combination of a resistance heater and an axial motor to ensure uniform heating of the enclosure. ■ Fixing by clip on a DIN rail. ■ Thermostat adjustable from 0...+60 °C. ■ Visual operation indicator.

Lineryg Distribution Systems

Contents

Power busbars

Linergy LGYE	
Horizontal profiles up to 2500 A	D-60
Lateral profiles up to 2500 A	D-61
Linergy Busbars	
Accessories	D-62

Secondary distribution

Insulated flexible bars	D-63
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Terminal blocks and lines

Linergy TB	
PE conductors	D-64

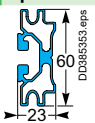
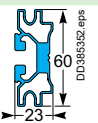
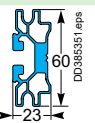
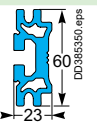
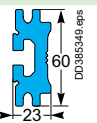
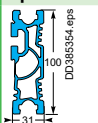
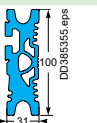


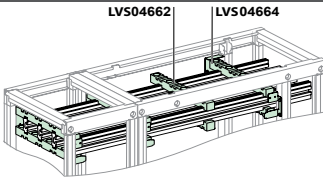
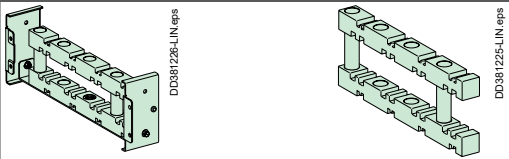
LinerGYE

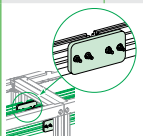
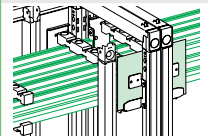
Horizontal profiles up to 2500 A

400 mm deep installation

Power busbars

LinerGYE profiles								
Installation		Up to 1600 A					Up to 2500 A	
LinerGYE profiles, 2000 mm length								
		630 A	800 A	1000 A	1250 A	1600 A	2000 A	2500 A
Permissible current for an ambient temperature of 35 °C around the switchboard	IP ≤ 31	630 A	800 A	1000 A	1250 A	1650 A	2000 A	2440 A
Number of profiles per phase		1						
Total number of vertical modules (50 mm)		3					3	
Catalog numbers		LVS04560	LVS04561	LVS04562	LVS04563	LVS04564	LVS04565	LVS04566

Busbar supports							
							
Characteristics		Fixed support LVS04664 Free support LVS04662					
		Two fixed supports for 650 mm or 650 + 150 mm wide PrismaSeT P frameworks and one fixed support for 300/400 mm wide PrismaSeT P frameworks are mandatory. If more supports are required, use free supports.					
In cubicle	Number of supports	≤ 15	2				
W = 650 or	depending on	≤ 25	2				
W = 650+150	lcw (kA rms/1 s)	≤ 30	2				
busbar		≤ 40	2				
supports		≤ 50	2				
75 mm between		≤ 60	2+1			2	
centres		≤ 65	2+1				
		≤ 75	2+1				
		≤ 85	2+1				
		≤ 100	2+3				
	Catalog numbers	Fixed support	LVS04664			LVS04664 + LVS04671 ⁽¹⁾ (hardware)	
		Free support	LVS04662			LVS04662 + LVS04671 ⁽¹⁾ (hardware)	
In cubicle	Number of supports	≤ 100	2 + 4 ⁽³⁾				
W = 800	depending on lcw						
busbar	(kA rms/1 s)						
supports							
75 mm between							
centres							
	Catalog numbers	Fixed support	LVS04664			LVS04664 + LVS04671 ⁽¹⁾ (hardware)	
		Free support	LVS04662			LVS04662 + LVS04671 ⁽¹⁾ (hardware)	
In duct	Number of supports	≤ 60	1				
W = 300	depending on lcw	≤ 85	1 + 1				
busbar	(kA rms/1 s)	≤ 100	1 + 1				
supports							
75 mm between							
centres							
	Catalog numbers	Fixed support	LVS04664			LVS04664 + LVS04671 ⁽¹⁾ (hardware)	
		Free support	LVS04662			LVS04662 + LVS04671 ⁽¹⁾ (hardware)	
In duct	Number of supports	≤ 50	1				
W = 400	depending on lcw	≤ 85	1 + 1				
busbar	(kA rms/1 s)	≤ 100	1 + 1				
supports							
75 mm between							
centres							
	Catalog numbers	Fixed support	LVS04664			LVS04664 + LVS04671 ⁽¹⁾ (hardware)	
		Free support	LVS04662			LVS04662 + LVS04671 ⁽¹⁾ (hardware)	

Joints							
	Up to 1600 A					Up to 2500 A	
	630 A	800 A	1000 A	1250 A	1600 A	2000 A	2500 A
							
	LVS04620					LVS04624	
Catalog numbers	3 x LVS04620 (3P) 4 x LVS04620 + LVS04624 (4P)					3 x LVS04621 (3P) 4 x LVS04621 + LVS04624 (4P)	
Note	LVS04624 is mandatory in case of jointed 4P Linergy LGYE busbars installations and must be installed only at the junction on side-by-side frameworks combination. When installed at the bottom of cubicles, the busbars must be partitioned.						

(1) LVS04671: mounting hardware for bars or profile H = 100 or 120 mm. Contains 2 threaded rods and 4 insulators.

(2) LVS04646: mounting hardware for bars or profile H = 150 mm. Contains 2 threaded rods and 2 insulators. **Note:** For accessories > page D-62.

(3) It is applicable for W = 800 mm control panel configuration only.

Note: Busbar supports are specified as "fixed + free." The first number indicates fixed supports, and the second number indicates free supports.

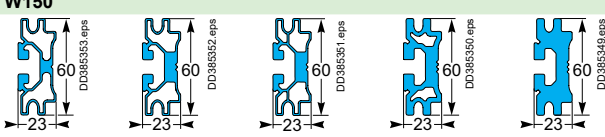
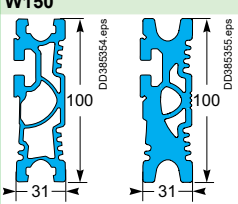
Linerogy LGYE

Lateral profiles up to 2500 A

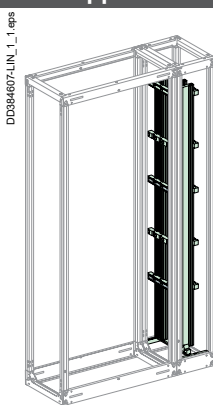
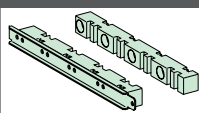
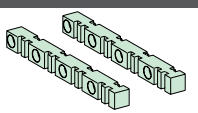
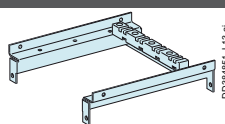
400 mm deep installation

Power busbars

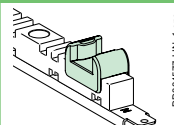
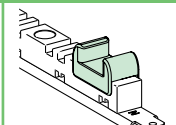
Linerogy LGYE profiles

	Linerogy profile, 2000 mm length ⁽¹⁾					Linerogy profile, 1625 mm length	
In duct	W150					W150	
Linerogy profile							
	630 A	800 A	1000 A	1250 A	1600 A	2000 A	2500 A
Permissible current for an ambient temperature of 35 °C around the switchboard	630 A	800 A	1000 A	1250 A	1650 A	2000 A	2440 A
Length to cut for side mounting	1675 mm					—	
Number of profiles per phase	1					—	
Catalog numbers	LVS04560	LVS04561	LVS04562	LVS04563	LVS04564	LVS04507	LVS04508

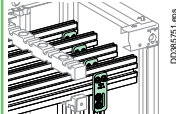
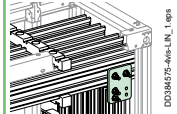
Busbar supports

							
		Fixed support LVS04661		Free support LVS04662		Bottom support LVS04666	
Characteristics		Attach directly to the framework. Three fixed supports are required to maintain the busbars. If more than three supports are required, use additional free supports. The bottom support maintains the bars in position. It is not considered a busbar support.					
Number		3					
depending on l _{cw} (kA rms/1 s)		≤ 30		3+2		3	
		≤ 40					
		≤ 50		3+2		3	
		≤ 60		3+2			
		≤ 65				3+2	
		≤ 75				3+4	
		≤ 85				3+4	
		≤ 100					
						3+6	
In duct W150, W = 300 busbar supports 75 mm between centres		Fixed support		LVS04661		LVS04661 + LVS04671 ⁽²⁾	
Catalog numbers		Free support		LVS04662		LVS04662 + LVS04671 ⁽²⁾	

Busbars chocks

					
Chocks installed on a bottom support LVS04658			Chocks installed on a bottom support LVS04659		
Characteristics			The bottom support maintains the sections in position. It is not considered a busbar support.		
In duct W150, W = 300	Catalog numbers	Bottom support	LVS04663		
		Chocks	LVS04658		LVS04659

Connections to the horizontal Linergy LGYE busbars

			
		630 to 1600 A	
		2000 to 2500 A	
Characteristics		Supplied with mounting hardware. Catalog numbers include 1 connection only: 1 connection per phase.	
Cat. no. according to horizontal busbar size		LVS04602 (straight connection) LVS04603 (shifted connection)	
		LVS04604 (short connection) LVS04605 (long connection)	

(1) Linergy LGYE profiles up to 1600 A must be cut at the dimension of the cubicle: 1625 mm.

(2) LVS04671: mounting hardware for bars or profile H = 100 or 120 mm. Contain 2 threaded rods and 4 insulators.

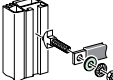
(3) LVS04646: mounting hardware for bars or profile H = 150 mm. Contain 2 threaded rods and 3 insulators.

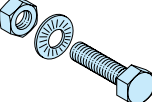
Note: Busbar supports are specified as "fixed + free." The first number indicates fixed supports, and the second number indicates free supports.

Linerogy Busbars

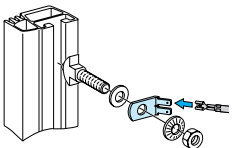
Accessories

Power busbars

Accessories										
	 DD3865360.eps		 DD381219-LIN-15.eps			 DD381222-LIN-10.eps	 DD385409-10.eps	 DD385409-10.eps	 DD385302-eps	
	Linerogy connection hardware		Steel flat washers			Brass flat washers	Markers	Screwplate		
Cat. no.	LVS04766	LVS04767	LVS04772	LVS04773	LVS04774	LVS04775	LVS04794	LVS01130	LVS04768	LVS04769
Characteristics	L 25 mm	L 39 mm	20 mm ext. Ø	24 mm ext. Ø	28 mm ext. Ø	20 mm ext. Ø		2 studs	2 studs	3 studs
	Set of 20: 20 bolts + 20 nuts + 20 contact washers, class 8.8. The screws slide into the profile and are then locked in the desired position.		M8 set of 20			M8 sold in lots of 20 for connection of ≤ 25 mm² lugs to Linergy	12 clip-on supports + N, L1, L2, L3, PE, PEN labels	Linerogy LGYE busbars connection kit spare part	Set of 12 flat plates with 2 studs + 24 torque nuts + 24 contact washers. The plates slide along the profile.	Set of 8 flat plates with 3 studs + 24 torque nuts + 24 contact washers. The plates slide along the profile.

M8 bolts		
		
Linerogy BS, 20 bolts class 8.8	Characteristics	Set of 20 bolts + 20 nuts + 40 contact washers
	Catalog numbers	LVS04782
	M8 x 20	LVS04783
	M8 x 25	LVS04784
	M8 x 30	LVS04785
	M8 x 35	LVS04786
	M8 x 40	LVS04787
	M8 x 45	LVS04788
	M8 x 50	LVS04788

Torque nuts		
		
20 M8 torque nuts	Characteristics	Can be used to obtain the correct tightening torque (28 Nm) recommended by the manufacturer, without using a torque wrench. Torque nuts may be used for all electrical connections.
	Catalog numbers	LVS04759

Voltage tap-offs		
		
20 Voltage tap-offs M10 pour 2 clips 6.35	Characteristics	For small lugs (on low-current cables or measurement tap-offs), insert a conducting washer (cat. no. LVS04775) between the busbar and the lug.
	Catalog numbers	LVS04229



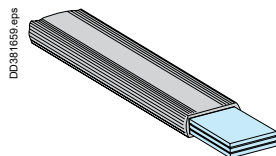
Connections on Linergy LGYE

InA (A)		Connecting to Linergy LGYE
0 to 630	Cable - Insulated flexible bars	25 mm Linergy connection hardware used
800 to 1250	5 mm bars	25 mm Linergy connection hardware used
1600 to 2500	5 mm or 10 mm bars	Use of the 2 studs flat plate

Note: Joining between 2 busbars (horizontal/vertical or horizontal/horizontal) must be mandatory done with studs plates.

Insulated flexible bars

Secondary distribution



The insulated flexible bars are tested in a type-tested switchboard environment. Their design takes into account the switchboard architecture where they are often in close proximity to a protection device (circuit breaker or fuse) with significant heat losses.

The sizes for the flexible bars indicated below take into account the heat losses of Schneider Electric devices in a Prisma**SeT** switchboard.

Characteristics

Length	1800 mm
Rated insulation voltage (Ui)	1000 V
Maximum withstand temperature for the insulating material	125 °C

Connection between device and busbars

The flexible bars are determined taking into account the connected device, whatever the internal temperature of the switchboard.

The bar sizes indicated below take into account the derating curves of devices.

	Size (mm)	Catalog number
100 A	20 x 2	LVS04742
160/250 A	20 x 3	LVS04743
400 A	32 x 5	LVS04751

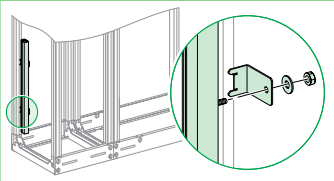
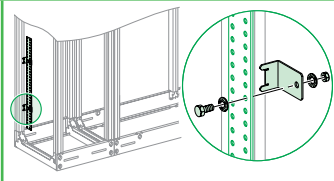
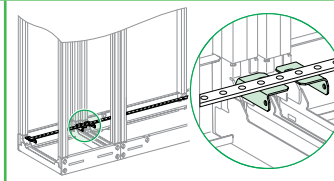
D

Linergy TB

PE conductors

Terminal blocks and lines

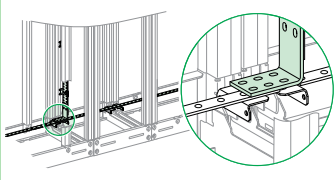
PE conductors

									
	Vertical PE conductor with Linergy LGY profile (W = 1670 mm)			Vertical PE conductor with Linergy BS busbar (W = 1675 mm)			Horizontal PE conductor with Linergy BS busbar		
Rated short-time current (Isc)	≤ 65	> 65... ≤ 80	= 100	≤ 40	< 85	≤ 100	≤ 40	< 85	≤ 100
Permissible current (A)	630	800	1250	400	600	800	400	600	800
Bar size (mm)	—	—	—	25 x 5	50 x 5	60 x 5	25 x 5	50 x 5	60 x 5
Characteristics	—	—	—	Drilled flat bar Ø10.6 mm (one 10.6 mm hole every 25 mm along the entire length)	Drilled flat bar Ø10.6 mm (two 10.6 mm hole every 25 mm along the entire length)	Drilled flat bar Ø10.6 mm (two 10.6 mm hole every 25 mm along the entire length)	Drilled flat bar Ø10.6 mm (two 10.6 mm hole every 25 mm along the entire length)	Drilled flat bar Ø10.6 mm (two 10.6 mm hole every 25 mm along the entire length)	Drilled flat bar Ø10.6 mm (two 10.6 mm hole every 25 mm along the entire length)
Catalog numbers	LVS04502	LVS04503	LVS04505	LVS04512	LVS04515	LVS04516	LVS04512	LVS04515	LVS04516

Support selection

Composition	Three supports for one vertical PE (supplied with PE marking) to secure to the framework.	Three supports for one vertical PE (supplied with PE marking) to secure to the framework.	Two supports for one horizontal PE.
Catalog numbers	LVS04657	LVS04657	LVS04667

Connection between PE conductors

		
	Connection plates for horizontal / vertical PE bars	
Composition	2 copper angle brackets	Linergy connection hardware 20 M8 bolts (W = 25 mm) + 20 nuts + 20 contact washers for connection to cable lugs or flexible bars
Catalog numbers	LVS04672	LVS04766

Functional Partitioning

Main distribution

Forms partitioning	
Presentation	D-68
Partitioning	D-69



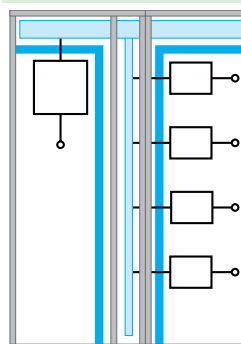
Forms partitioning

Presentation

What are the forms?

- The forms are metal partitions or molded material, removable by using tools or keys, which ensure the protection of operators against direct contact with power conductors when working on low voltage switchboards.
- They also protect internal elements of the switchboard against external aggressions (dust, pests, water ...).
- These forms are graduated from 1 to 4, with indices "a" or "b". Their use contributes to the level of service continuity required by the user.
- Forms have a cumulative effect (a higher form integrates the characteristics of the forms that precede it).
- The choice of a form is the subject to an agreement between the manufacturer and the user.
- The electrical panel must comply with the degree of protection IP 2X, according to standard IEC 61439-1 and 2.

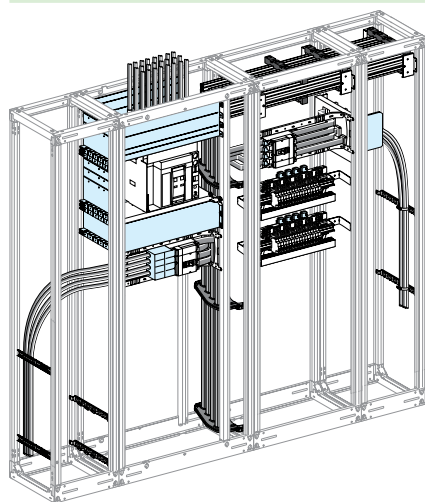
Form 2b



PrismaSeT P 800 V AC requires Form 2b.

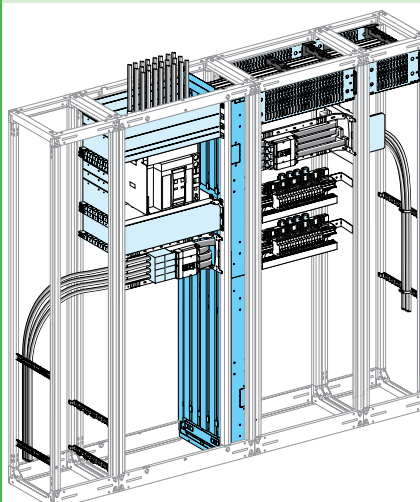
Form 1

No internal separation



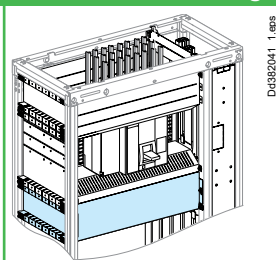
Form 2

Separation between horizontal busbars, vertical busbars and functional units



Main distribution

Covering of the connection between an incoming device and lateral busbars



	MasterPact MTZ2 / EasyPact MVS
Cover with copper connection	LVS04926
Additional cover	LVS04927
Cover with Linergy LGYE connection	LVS04925
Additional cover	LVS04928
Form partition depth	600

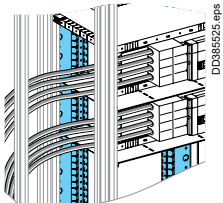
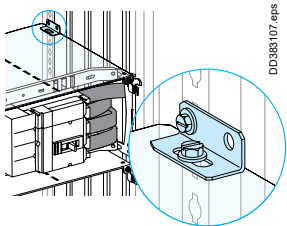
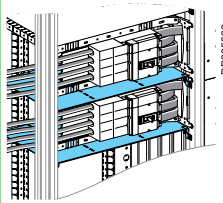
Note: Cubicle depth is based on the depth of the incoming device.

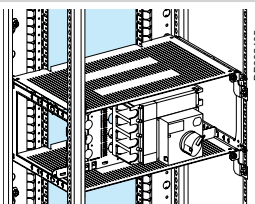
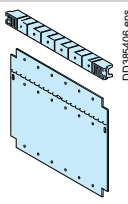
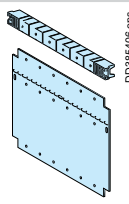
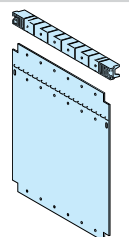
Lateral partitioning

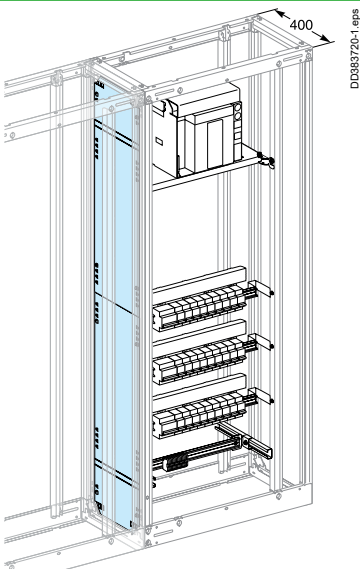
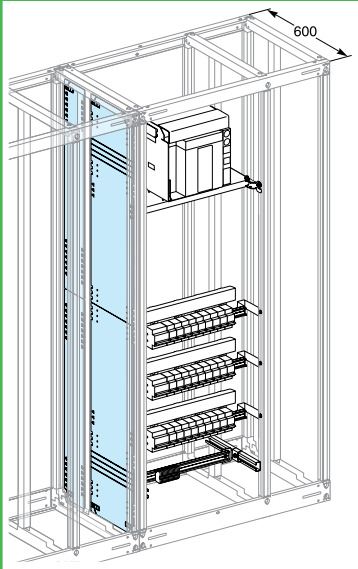
- Lateral partitioning is made up of:
 - Four supports that clip to the framework.
 - Five extruded slats that clip to the supports.
 - Two metal plates at the top and bottom that can be cut out to pass a PE or PEN conductor, or one or two 30 x 60 mm trunking sections.
- Compliance with the standard IEC 695.2.1 concerning withstand to fire.

	Restoration kit / Side barrier	Front or rear barrier
		W = 150 mm W = 300 mm
Characteristics	■ This kit enables passage of the connection between a device > 1600 A (MTZ2, MVS) and lateral vertical busbars. ■ It is made up of an insulated plate (six modules high = 300 mm) that can be cut as required, supplied with supports and the necessary hardware. ■ Must be used with MTZ2 and MVS interlocking mounting plate.	Can be installed in the front and rear of the busbar compartment. Protects against direct contact with the busbars. ■ For 800 mm cubicles: □ The door is systematically supplied with a barrier. □ The cover frame is supplied with a wicket door, W = 150 mm, on which devices can be mounted. A front barrier is indispensable. ■ A barrier is required at the rear of the busbar compartment in cubicles that are 600, 800, and 1000 mm deep.
Catalog numbers	LVS04924	LVS04921
		LVS04920

Main distribution

	Front connection		
			
	Rear support for partitions W = 650 mm	6 universal angle brackets	Horizontal metal partition W = 650 mm
Characteristics	■ Two uprights secured to the framework (400 mm deep) or to the intermediate uprights (600 mm deep frameworks).	■ A set of brackets can be used to install partial Form 3 partitioning in the cubicle. It does not take up any useful space in the switchboard.	■ A horizontal metal partition can be used to physically separate functional units from one another. It does not take up any useful space in the switchboard.
Catalog numbers	LVS04943	LVS03583	LVS04901

	Front connection		Rear connection	
				
	Backplate	Gland plate / Side barrier		
Characteristics	■ A backplate (one cat. no. per cubicle) made up to two metal half panels mounted on the rear supports for Form 3 partitions. This backplate is not indispensable for 400 mm deep frameworks.	■ A plastic gland plate that can be easily cut out (one for each functional unit) and is mounted on the framework.		■ A gland plate at the rear of each functional unit. It is connected directly to the rear supports for Form 3 partitions
		3 to 4 modules	5 to 6 modules	
Catalog numbers	LVS04946	LVS04951	LVS04952	LVS04951
				LVS04952

Inter-cubicle partition		
		
	D400	D600
Characteristics	■ Metal partition, used to separate two adjacent cubicles. ■ It is made up of two panels, each 850 mm high. ■ The top and bottom ends have knock-outs for busbars, PE/PEN conductors or auxiliary wiring. ■ Supplied with the necessary supports and hardware, the partition is mounted on the framework and does not hinder installation of the functional mounting plates.	
Catalog numbers	LVS04911	LVS04911 + LVS04931

D

Additional Information

Spare parts

	After-sales accessories	D-74
Electrical characteristics		
	Designing horizontal busbars	
	Linery LGYE	D-76
	Designing vertical busbars	
	Linery LGYE	D-77
	Designing connections between a device and busbars	
	Fixed MasterPact 08-25	D-78
	Fixed Easy Pact MVS 08-25	D-79
	Designing connections ≤ 400 A	
	Device connections	D-80
	ComPacT circuit breakers NSX400K 250/400 A	D-81
	Designing connections ≤ 160 A	
	Easy Pact Solar MCCB 400 up to 160 A	D-82
	Designing busbars	
	FuPact ISFL Linery BS busbars	D-83

D

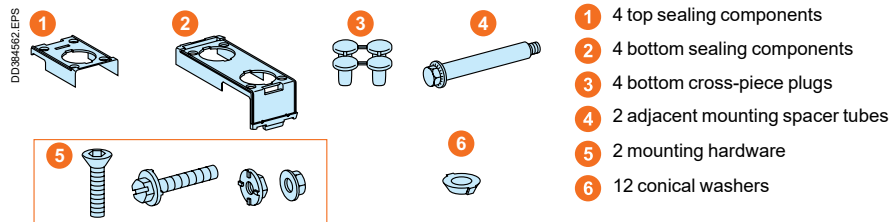
After-sales accessories

Spare parts

Framework accessories

Framework accessories

LVS01104



Front-plate accessories

10 sets of 2 grips quarter turn

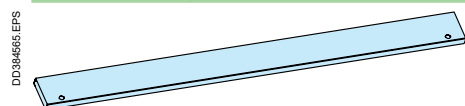
LVS01094



Accessory

Plain wicket door, W = 150 mm

LVS01110



Linergy LGE busbar accessories

Linergy LGE connection screwplate kit

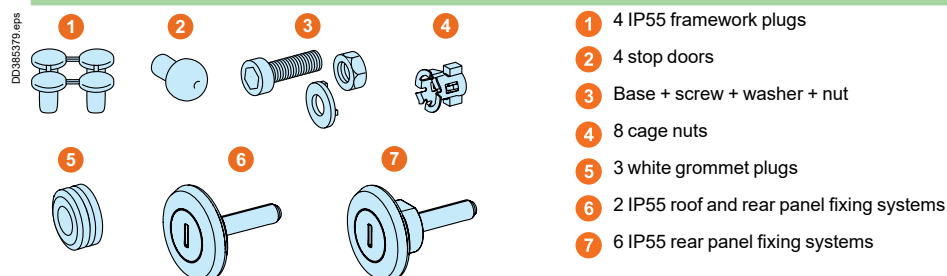
LVS01130



Rear accessories

Accessories IP55

LVS01101



After-sales accessories

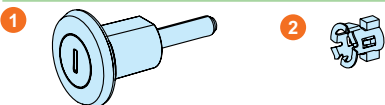
Spare parts

Side panel accessories

Accessories for IP55 side panel

LVS01102

DD38468 EPS



- 1 16 fixing system IP55
- 2 16 cage nuts

Roof accessories

Accessories for IP55 roof

LVS01103

DD38530 EPS



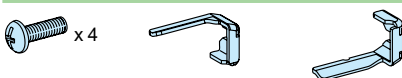
- 1 4 lifting ring plugs
- 2 6 cage nuts
- 3 6 mounting sets of screw fixing IP55 for roof

Front plate support frames

Front plate support striker kit for LVS08564 - LVS08566

LVS01123

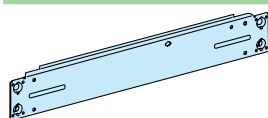
DD384571 EPS



Framework accessories

Framework accessories

DD384572 EPS



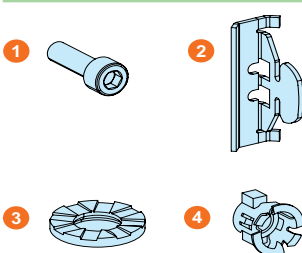
- Frame bottom cross-member W400 to use with LVS08564 **LVS01119 ⁽¹⁾**
 - Frame bottom cross-member W650 to use with LVS08566 **LVS01120 ⁽¹⁾**
 - Frame bottom cross-member W150+650 to use with LVS08566 **LVS01121 ⁽¹⁾**
 - Frame bottom cross-member W650+150 to use with LVS08566 **LVS01122 ⁽¹⁾**
- ⁽¹⁾ Spare parts on stock in RAL 9003 only.

Door accessories

Reinforced door striker

LVS01114

DD435801 EPS

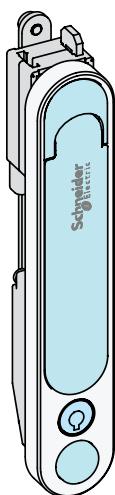


- 1 4 screws MSC HXG SK M6 x 20
- 2 4 door strike stoppers
- 3 4 washers
- 4 4 captive nuts for frame

PrismaSeT P Rotary Handle Spare Parts

LVS01219

mz2131101_1 EPS



- 1 Handle housing block
- 2 P adapter link part
- 3 Screw, pan head, M5x8
- 4 The key of 405
- 5 1 crosshead screw
- 6 Omega fix part
- 7 Driver block
- 8 Hex locking screw, M6x10
- 9 Self tapping screw, pan head, ST3.5x15

Designing horizontal busbars

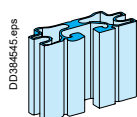
Linery LGYE

Electrical characteristics

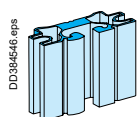
Permissible current and selection of Linery LGYE busbars
Up to 2500 A

Linery LGYE section

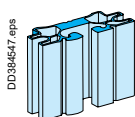
Type of bars	Permissible current (A)					
	Ambient temperature around the switchboard					
Size per phase	25 °C IP ≤ 31	30 °C IP ≤ 31	35 °C IP ≤ 31	40 °C IP ≤ 31	45 °C IP ≤ 31	50 °C IP ≤ 31
Linery LGYE 630	680	650	630	590	550	520
Linery LGYE 800	860	830	800	750	700	660
Linery LGYE 1000	1080	1040	1000	940	880	830
Linery LGYE 1250	1350	1300	1250	1170	1100	1020
Linery LGYE 1600	1730	1690	1650	1550	1450	1350
Linery LGYE 2000	2200	2100	2000	1900	1810	1720
Linery LGYE 2500	2640	2540	2440	2310	2240	2120



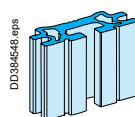
Section 630 A.
Cat. No. LVS04560.



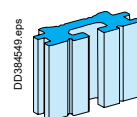
Section 800 A.
Cat. No. LVS04561.



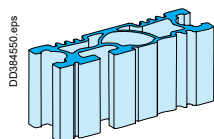
Section 1000 A.
Cat. No. LVS04562.



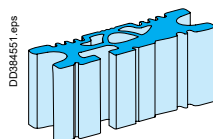
Section 1250 A.
Cat. No. LVS04563.



Section 1600 A.
Cat. No. LVS04564.



Section 2000 A.
Cat. No. LVS04565.



Section 2500 A.
Cat. No. LVS04566.

Designing vertical busbars

Linery LGE

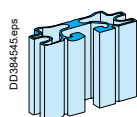
Electrical characteristics

Permissible current and selection of Linery LGE busbars

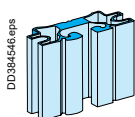
Up to 2500 A

Linery LGE section

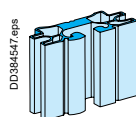
Type of bars	Permissible current (A)					
	Ambient temperature around the switchboard					
Size per phase	25 °C IP ≤ 31	30 °C IP ≤ 31	35 °C IP ≤ 31	40 °C IP ≤ 31	45 °C IP ≤ 31	50 °C IP ≤ 31
Linery LGE 630	680	650	630	590	550	520
Linery LGE 800	860	830	800	750	700	660
Linery LGE 1000	1080	1040	1000	940	880	830
Linery LGE 1250	1350	1300	1250	1170	1100	1020
Linery LGE 1600	1730	1690	1650	1550	1450	1350
Linery LGE 2000	2200	2100	2000	1900	1810	1720
Linery LGE 2500	2640	2540	2440	2310	2240	2120



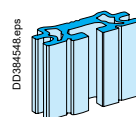
Section
630 A.
Cat. No. LVS04560.



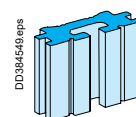
Section 800 A.
Cat. No. LVS04561.



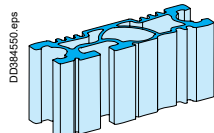
Section 1000 A.
Cat. No. LVS04562.



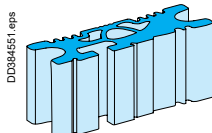
Section 1250 A.
Cat. No. LVS04563.



Section 1600 A.
Cat. No. LVS04564.



Section 2000 A.
Cat. No. LVS04565.



Section 2500 A.
Cat. No. LVS04566.

D

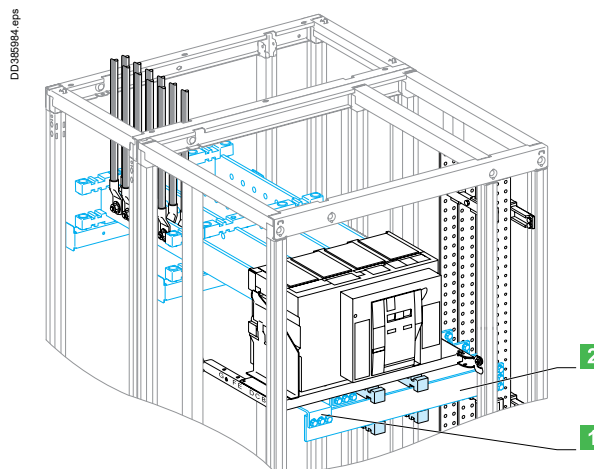
Designing connections between a device and busbars

Fixed MasterPact 08-25

Electrical characteristics

MasterPact MTZ2 08 to 25
Fixed

Vertical busbars on the left or right
Linergy LGYE busbar
Connections drawings supplied by
Schneider Electric



- 1 Liaison
2 Horizontal link.

Using the data below, it is possible to determine the size of the copper bars and the maximum permissible currents when making the connections to busbars for a vertical, fixed MasterPact MTZ2 08/25, front or rear connection, taking into account the ambient temperature around the switchboard and the IP value.

Connection

Flat bars, 10 mm thick

Device		Permissible current (A)					
		Ambient temperature around the switchboard ⁽¹⁾					
		25 °C	30 °C	35 °C	40 °C	45 °C	50 °C
		IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31
MTZ2 08	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10
	I (A)	800	800	800	800	800	800
MTZ2 10	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10
	I (A)	1000	1000	1000	1000	1000	1000
MTZ2 12	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10
	I (A)	1250	1250	1250	1250	1250	1250
MTZ2 16	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10
	I (A)	1600	1600	1600	1600	1600	1600
MTZ2 20	Size per phase	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10
	I (A)	2000	2000	2000	2000	1950	1860
MTZ2 25	Size per phase	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10
	I (A)	2400	2330	2250	2180	2110	2030

Horizontal link

Flat bars, 10 mm thick

Device		Permissible current (A)					
		Ambient temperature around the switchboard					
		25 °C	30 °C	35 °C	40 °C	45 °C	50 °C
		IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31
MTZ2 08	Size per phase	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10
	I (A)	800	800	800	800	800	800
MTZ2 10	Size per phase	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10
	I (A)	1000	1000	1000	1000	1000	1000
MTZ2 12	Size per phase	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10
	I (A)	1250	1250	1250	1250	1250	1250
MTZ2 16	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10
	I (A)	1600	1600	1600	1600	1600	1600
MTZ2 20	Size per phase	2b 60 x 10	2b 60 x 10	2b 60 x 10	2b 60 x 10	2b 60 x 10	2b 60 x 10
	I (A)	2000	2000	2000	2000	1950	1860
MTZ2 25	Size per phase	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10
	I (A)	2400	2330	2250	2180	2110	2030

(1) In the case of a door mounted at the rear of cubicle, add 10 °C.

Note: The values indicated above have been validated for PrismaSeT P switchboards.

Designing connections between a device and busbars

Fixed **EasyPact** MVS 08-25

Electrical characteristics

EasyPact MVS 08 to 25

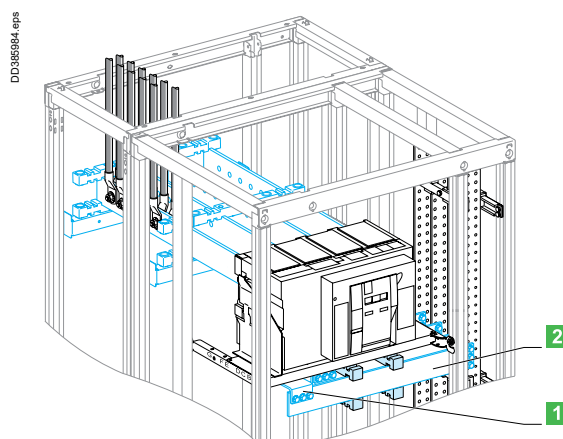
Fixed

Vertical busbars on the left or right

Linergy LGYE busbar

Connections drawings supplied by

Schneider Electric



1 Connection.

2 Horizontal link.

Using the data below, it is possible to determine the size of the copper bars and the maximum permissible currents when making the connections to busbars for a vertical, fixed **EasyPact** MVS 08/25, front or rear connection, taking into account the ambient temperature around the switchboard and the IP value.

Connection

Flat bars, 10 mm thick

Device		Permissible current (A)					
		Ambient temperature around the switchboard					
		25 °C	30 °C	35 °C	40 °C	45 °C	50 °C
		IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31
MVS 08	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10
	I (A)	800	800	800	800	800	800
MVS 10	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10
	I (A)	1000	1000	1000	1000	1000	1000
MVS 12	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10
	I (A)	1250	1250	1250	1250	1250	1250
MVS 16	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10
	I (A)	1600	1600	1600	1600	1600	1600
MVS 20	Size per phase	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10
	I (A)	2000	2000	2000	2000	1950	1860
MVS 25	Size per phase	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10
	I (A)	2400	2330	2250	2180	2110	2030

Horizontal link

Flat bars, 10 mm thick

Device		Permissible current (A)					
		Ambient temperature around the switchboard					
		25 °C	30 °C	35 °C	40 °C	45 °C	50 °C
		IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31
MVS 08	Size per phase	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10
	I (A)	800	800	800	800	800	800
MVS 10	Size per phase	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10
	I (A)	1000	1000	1000	1000	1000	1000
MVS 12	Size per phase	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10
	I (A)	1250	1250	1250	1250	1250	1250
MVS 16	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10
	I (A)	1600	1600	1600	1600	1600	1600
MVS 20	Size per phase	2b 60 x 10	2b 60 x 10	2b 60 x 10	2b 60 x 10	2b 60 x 10	2b 60 x 10
	I (A)	2000	2000	2000	2000	1950	1860
MVS 25	Size per phase	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10
	I (A)	2400	2330	2250	2180	2110	2030

Note: The values indicated above have been validated for PrismaSeT P switchboards.

Designing connections ≤ 400 A

Device connections

Electrical characteristics

Flexible copper bars with an insulating sheath

Switchboards that comply with standard IEC 61439-1/2

It is imperative to use the values indicated below that have been validated for the installation of devices in PrismaSeT switchboards.

The parameters determining the size of flexible bars are:

- The environment in which the devices are installed:
 - Position in the enclosure
 - Dimensions of other conductors in the circuit
 - Ambient temperature around the switchboard
- The characteristics of the connected devices:
 - Device heat losses
 - The type of installation (horizontal or vertical)

Only the equipment manufacturer with in-depth knowledge on:

- The characteristics of the installed devices.
- The configuration of the installation in the enclosure can provide the correct sizes of flexible bars for a given permissible current.

Insulated, flexible bars make for easy, fast and flexible implementation up to 630 A, but higher ratings require sizes that cancel these advantages.

For high I_{sc} values, it is advised to use rigid bars which require fewer supports.

Insulated flexible bars are better than cables, they offer:

- Better insulation temperature withstand (125 °C for bars, 105 °C for cables) and a larger exchange surface for an equivalent size, that is, a smaller size for a given current.
- Greater rigidity offering better electrodynamic characteristics for short-circuit currents.
- No intermediate parts (lugs) for a direct connection between the device and the busbars therefore less temperature rise and less risk of error.
- Fast implementation of prefabricated connections already cut to length, formed and drilled.
- Length limited to 500 mm.

Technical characteristics

- Thickness of the insulation: variable depending on the bar size, 2 mm on average
- Rated insulation level U_i = 1000 V
- Impulse withstand voltage U_{imp} = 12 kV
- Maximum withstand temperature of insulating material = 125 °C

Note: The values indicated above have been validated for PrismaSeT P switchboards.

Designing connections ≤ 400 A

ComPacT circuit breakers NSX400K - 250/400 A

Insulated flexible copper bars

Electrical characteristics

ComPacT NSX400K 250/400 A

Insulated flexible copper bars (withstand temperature = 125 °C)

We recommend insulated flexible copper bars for ComPacT NSX400K connections for 250 and 400 A.

Devices		Permissible current (A)					
		Ambient temperature around the switchboard					
		25 °C	30 °C	35 °C	40 °C	45 °C	50 °C
IP ≤ 31							
NSX400K - 250 A	Size per phase	20 x 3	20 x 3	20 x 3	20 x 3	20 x 3	20 x 3
	I _{nc} (A)	250	244	238	231	225	219
NSX400K - 400 A	Size per phase	32 x 5	32 x 5	32 x 5	32 x 5	32 x 5	32 x 5
	I _{nc} (A)	380	360	350	330	320	300

Note: The values indicated above have been validated for PrismaSeT P switchboards.

D

Designing connections ≤ 160 A
EasyPact Solar MCCB 400 - up to 160 A

Electrical characteristics

EasyPact Solar MCCB 400 - up to 160 A

Insulated flexible copper bars (withstand temperature = 125 °C)

We recommend insulated flexible copper bars for **Easy**Pact Solar MCCB 400 connections up to 160 A.

Devices		Permissible current (A)					
		Ambient temperature around the switchboard					
		25 °C	30 °C	35 °C	40 °C	45 °C	50 °C
IP ≤ 31							
Easy Pact Solar MCCB 400 - up to 160 A	Size per phase	20 x 3	20 x 3	20 x 3	20 x 3	20 x 3	20 x 3
	I _{nc} (A)	160	160	160	160	160	150

Note: The values indicated above have been validated for Prisma**SeT** P switchboards.

Designing busbars

FuPact ISFL Linergy BS busbars

Electrical characteristics

Permissible current and selection of horizontal Linergy BS busbars

The goal is to optimise busbar size according to the installation and operating criteria.

Rear horizontal Linergy BS busbars

FuPact ISFL 250/400 - up to 250 A

Linerigy BS bars, 10 mm thick

Device		Permissible current (A)					
		Ambient temperature around the switchboard					
		25 °C	30 °C	35 °C	40 °C	45 °C	50 °C
		IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31
Fuse 160 A per device	1 bar Linergy BS 100 x 10	160	160	160	155	150	145
Fuse 250 A per device	1 bar Linergy BS 100 x 10	240	230	220	220	210	200

D

PrismaSeT P

Internal Arc

Prisma**SeT** P Internal Arc

	Overview	E-2
	Cubicles	E-7
Internal Arc Linergy LGYE 66 kA		
	Functional Units	E-35
	Linerly Distribution Systems	E-81
	Functional Partitioning	E-117
	Additional Information	E-125





Supporting continuity in **mission-critical power systems** through arc flash risk mitigation

In critical infrastructures, electrical safety is non-negotiable. Arc flash incidents can lead to severe injuries, fatalities, and costly operational disruptions. As electrical systems become more complex and demand continues to rise, mitigating arc flash risk is **more essential than ever**.



600+
accidents

Reported annually across industrial facilities, of which, 25% involve arc flash incidents.



1-2
fatalities per day

Related to arc flash occur regularly worldwide during electrical maintenance.



66%
of fatalities

in low-voltage switchgear incidents are caused by arc flash.

Why PrismaSeT P Internal Arc?

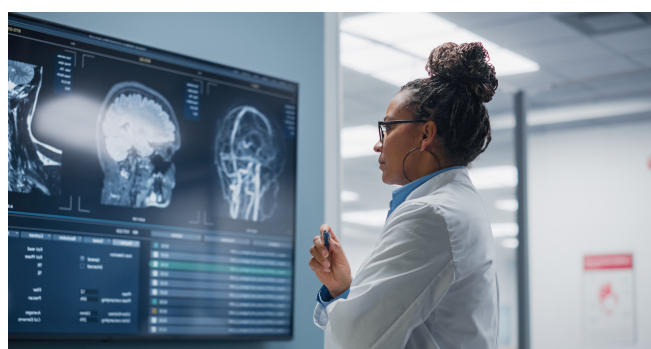
To reduce arc flash risks, organizations must combine robust fault mitigation systems with operational practices designed to reduce risk that limit exposure to live equipment.

PrismaSeT P Internal Arc is purpose-built to deliver maximum protection in demanding environments. Designed with reinforced arc resistance and certified to **IEC/TR 61641** (up to 66 kA / 415 V), it protects people, contains fault energy, and minimizes operational disruption.

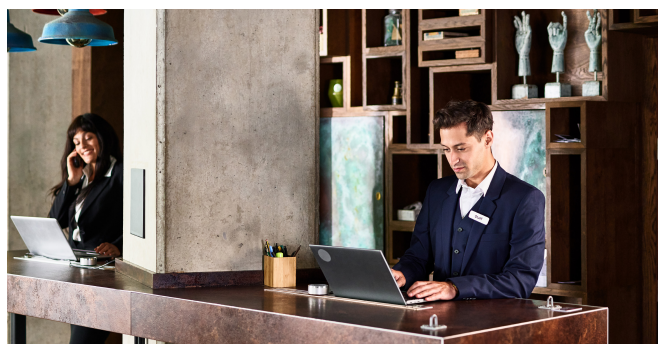
Target segments for arc fault mitigation



Data centers



Healthcare infrastructure



Hotels



Large commercial buildings



Industrial manufacturing plants

Protect people, preserve assets, maintain uptime

Internal arcs are among the most serious risks in electrical installations. This specific application is engineered to prioritize user safety and equipment longevity, providing a robust solution that contains energy and ensures total continuity of service.



Proven internal arc protection

- Designed to withstand internal faults and safely contain arc energy
- Helps protect operators while limiting equipment damage



Reliable

- Fully certified by an independent third party in compliance with the **IEC/TR 61641** standard.
- Verified through rigorous design validation and routine testing



Robust mechanical design

- High rigidity structure with **IK07–IK10** impact protection
- Maintains integrity during faults



Modular and upgradeable

- Easily adapts to changing configurations without compromising safety
- Future-ready for evolving electrical needs



Faster assembly, lower risk

- Functional system design simplifies panel assembly
- Reduces human error during installation



See PrismaSeT P in action

Discover how it enhances installation safety.



[Click to find out more](#)

Prisma**SeT** P Internal Arc Cubicles up to 3200 A - IP31



E



Electrical characteristics

- Rated insulation level of main busbars: 1000 V
- InA: 3200 A
- Rated peak withstand current I_{pk}: 220 kA
- Rated short-time withstand current I_{cw}: 100 kA rms / 1 second
- Frequency: 50/60 Hz
- Voltage U_e = 415 V



For Switchboard Assembly and Earthing Continuity instructions, refer *How to Assemble the Electrical Switchboard* Guide (PHA2165500).



Electrical switchboards built using the Prisma**SeT** P functional system and Schneider Electric recommendations fully comply with international standards IEC 61439-1 and 2.



Mechanical characteristics

- Steel sheet metal
- Cataphoresis treatment + hot-polymerised polyester epoxy powder, white color RAL 9003
- Can be dismantled
- Can be combined side-by-side and back-to-back
- Degree of protection:
 - IP31
- Degree of protection against mechanical impacts:
 - IK10
- Framework dimensions:
 - Four widths:
 - W = 300: cable compartment
 - W = 400: cable compartment or device compartment
 - W = 650: device compartment or cable compartment
 - W = 800: device compartment with busbar compartment or cable compartment
 - Two depths: 400 and 600 mm
 - Height: 2000 mm
- Indoor cubicles

Cubicles

Contents

Enclosures

Cover panels	E-8
Cubicles	
Frameworks	E-9

Dimensions

Cubicles	E-11
-----------------	-------------

Enclosures

Cubicles	
IP31	E-16
Plinth	E-19
Cubicle handling and Lifting reinforcement kit	E-20
Installation accessories	E-21
Front plate accessories	E-23

Others

Reserve space	E-24
Fixing accessories	E-25
Universal adapter	
Mounting on a plain backplate	E-26
Others devices	
Mounting on a slotted plate - Mounting on a modular rail	E-27
Cable running	E-28
Connection accessories	
Cable-tie supports, lateral and longitudinal cross-members	E-29
Door handles and locks	E-30
Ventilation accessories	
Heat	E-31
Regulating	E-32
Switchboard lighting	E-33

Cover panels

Enclosures

1000 mm deep switchboard

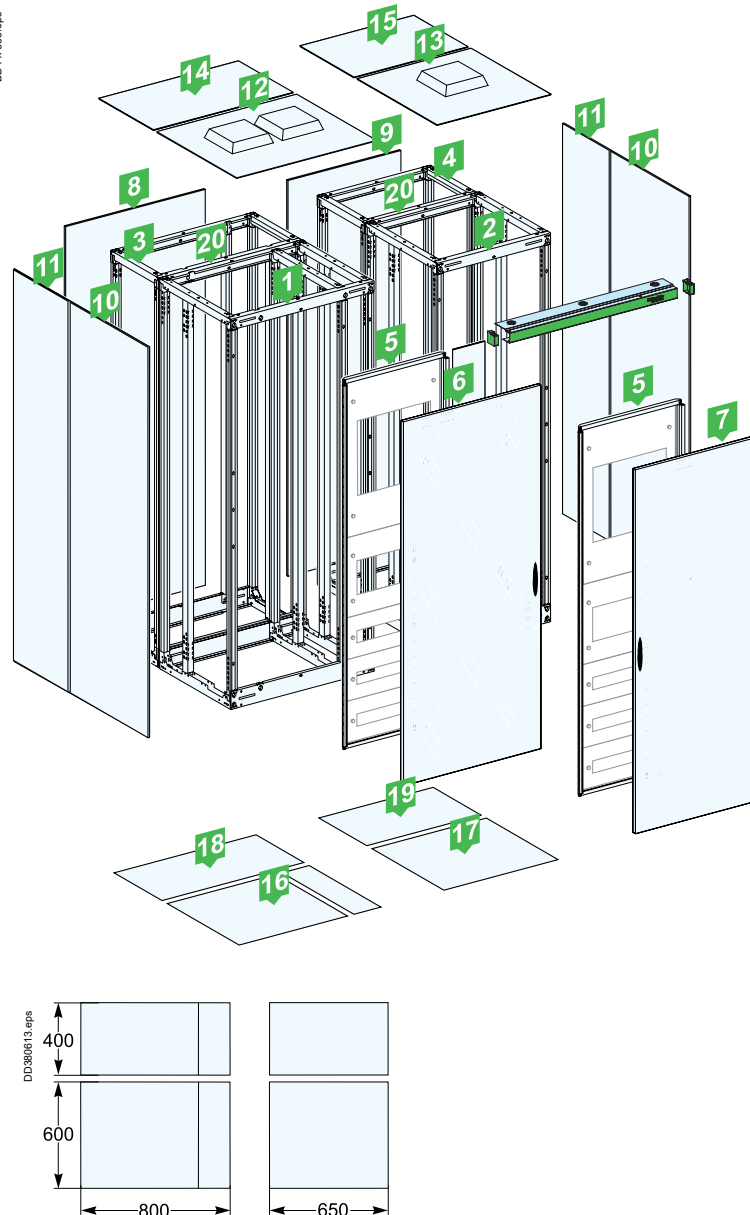
Made up of two cubicles back-to-back.

Rear connections are possible.

- Front panels
 - One of the following must be installed in front of the hinged front plate frame support:
 - A plain door
 - A transparent door
- Rear panels = screw-on panels
- Side panels = screw-on panels
- Plain roof
- Gland plates (plain or in two parts)

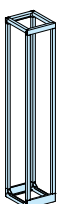
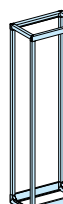
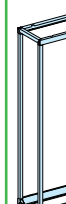
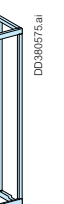
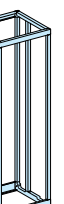
Parts list:

- | | | |
|-----------|---------------|--|
| 1 | LVS08607: | Framework, W = 800, D = 600, H = 2000 |
| 2 | LVS08606: | Framework, W = 650, D = 600, H = 2000 |
| 3 | LVS08407: | Framework, W = 800, D = 400, H = 2000 |
| 4 | LVS08406: | Framework, W = 650, D = 400, H = 2000 |
| 5 | LVS08566: | Front plate frame support, W = 650 |
| 6 | LVS08528: | Plain door, W = 800
(supplied with barrier for busbar compartment, W = 150) |
| 7 | LVS08526: | Plain door, W = 650 |
| 8 | LVS08748: | Rear panel, W = 800 (screw-on panel) |
| 9 | LVS08746: | Rear panel, W = 650 (screw-on panel) |
| 10 | LVS08765: | Set of two side panels, D = 600 (screw-on panels) |
| 11 | LVS08755: | Set of two side panels, D = 400 (screw-on panels) |
| 12 | LVS08678: | Plain roof, W = 800, D = 600 (screw-on panel) |
| 13 | LVS08656: | Plain roof, W = 650, D = 600 (screw-on panel) |
| 14 | LVS08458: | Plain roof, W = 800, D = 400 (screw-on panel) |
| 15 | LVS08456: | Plain roof, W = 650, D = 400 (screw-on panel) |
| 16 | LVS08687: | Plain gland plate, W = 800, D = 600 |
| 17 | LVS08686: | Plain gland plate, W = 650, D = 600 |
| 18 | LVS08487: | Plain gland plate, W = 800, D = 400 |
| 19 | LVS08486: | Plain gland plate, W = 650, D = 400 |
| 20 | LVS08719 x 2: | Double depth combination kit |



Cubicles Frameworks

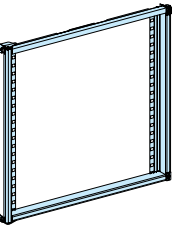
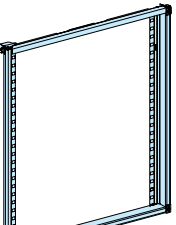
Enclosures

Mounting	Frameworks											
	 DD380572 al		 DD380573 al		 DD380574 al		 DD380575 al		 DD380576 al		 DD380577 al	
Width (mm)	300	400	650	800	800 (650 + 150)	300	400	650	800	800 (650 + 150)		
	Depth 400 mm					Depth 600 mm						
Cat. no.	LVS08403	LVS08404	LVS08406	LVS08408	LVS08407	LVS08603	LVS08604	LVS08606	LVS08608	LVS08607		
Composition	2 frames										3 frames	
	—				+ 2 additional uprights	Equipped with intermediate uprights for the mounting plates.						
	4 cross-pieces Mounting hardware Framework combinations											
Characteristics	Cubicles can be combined side-by-side and back-to-back. Can be equipped with IP30 cover panels. Note: For the 800 mm width, the busbar compartment can be on the left or right.											

Mounting	Hinged front plate frame support	
		
Width (mm)	400	650
Cat. no.	LVS08564	LVS08566 ⁽¹⁾
Characteristics	■ Reversible for left or right-hand opening. ■ Secured at two points. Note: Can be mounted on 650 mm and 800 mm (650 + 150) wide cubicles. (1) For drawout MasterPacT MTZ2, hinged front plate frame support must open towards left-hand side.	

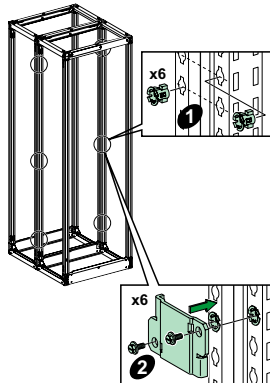
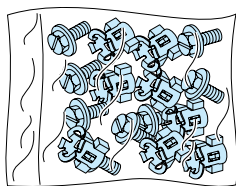
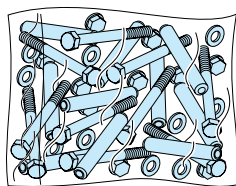
Partial hinged cover-frame supports

> page E-40

Mounting	Partial hinged cover-frame supports	
		
Width (mm)	650	
	10 modules	12 modules
Cat. no.	LVS08560	LVS08562
Characteristics	■ For drawout MasterPacT MTZ2, hinged front plate frame support must open towards left-hand side. ■ Use for Fupact ISFL configurations. ■ For drawout MasterPacT MTZ2, when hinged front plate frame support is left-hand opening.	

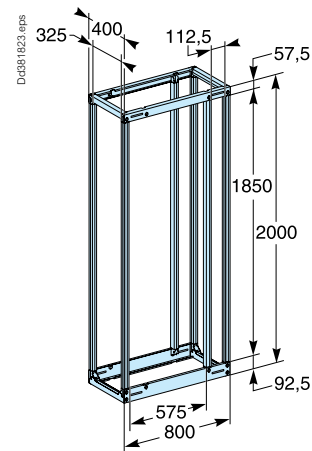
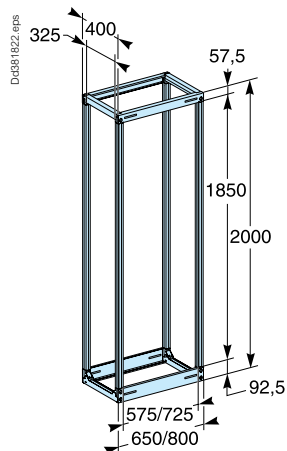
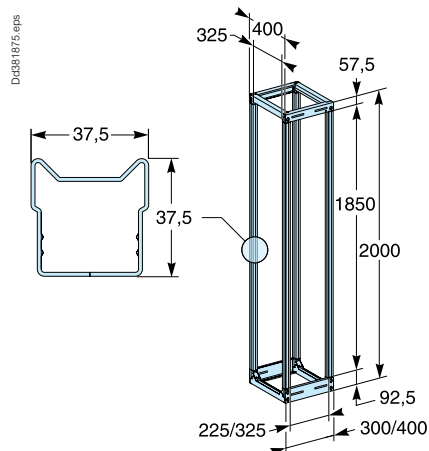
Cubicles
Frameworks

Enclosures

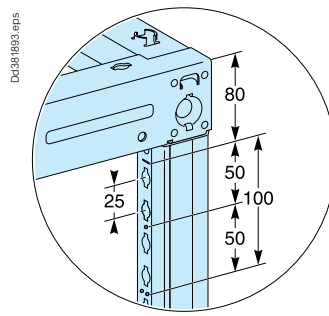
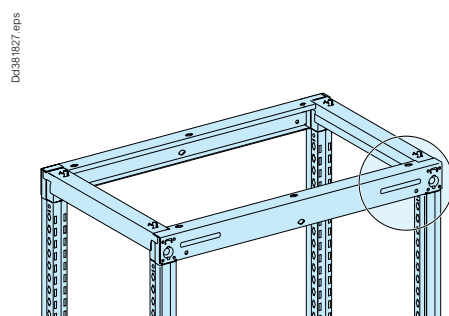
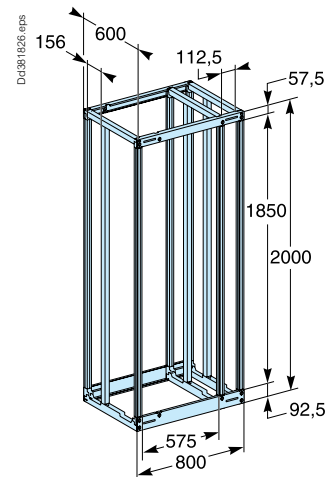
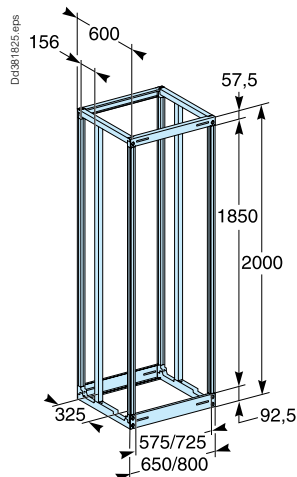
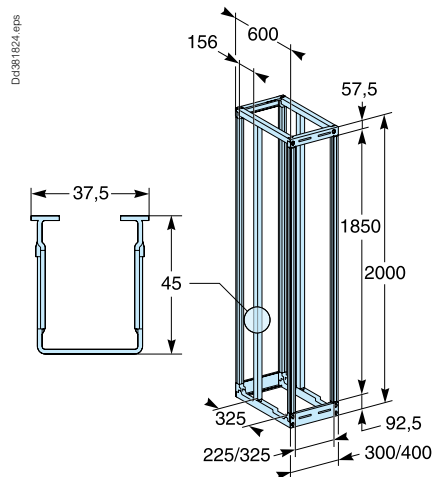
	 DD380752.eps	
Type	Back-to-back Double depth combination kit	
Cat. no.	LVS08719	
Characteristics	The kit is made up of: ■ A set of hardware for the mechanical connections between the cross-pieces. ■ Six assembly plates to connect the uprights.	
Accessories		
	 DD891327.eps	 DD893048.eps
Type	Commodities Fixing screws and nuts	
Cat. no.	LVS08921	LVS08718
Characteristics	Set of 20 screws + wing nuts for framework	Set of 10 screws + combination accessories

Dimensions (mm)

Frameworks, D = 400 mm

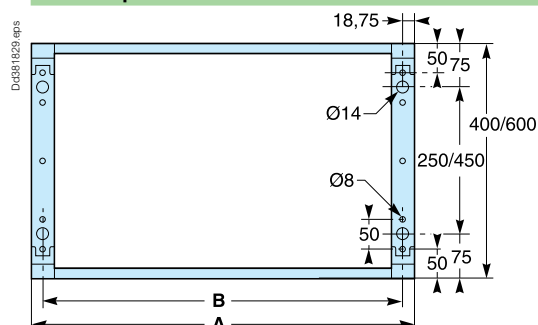


Frameworks, D = 600 mm

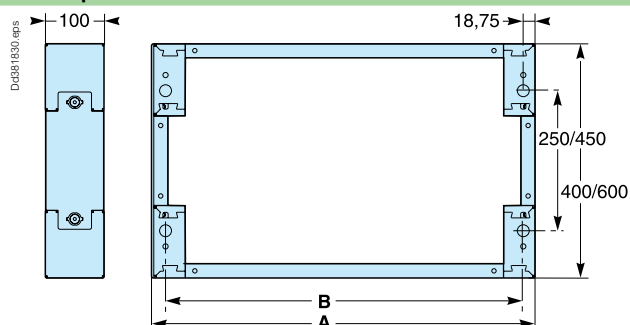


Fixing to floor

Without plinth



With plinth

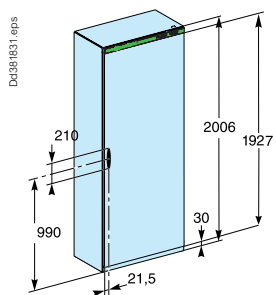


A	B
300	262.5
400	362.5
650	612.5
800	762.5

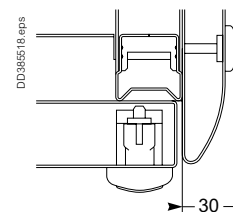
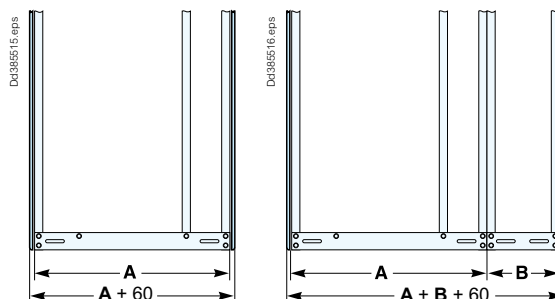
Dimensions (mm)

Cubicle with cover panels

Height

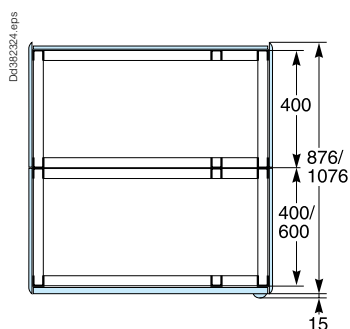


Width

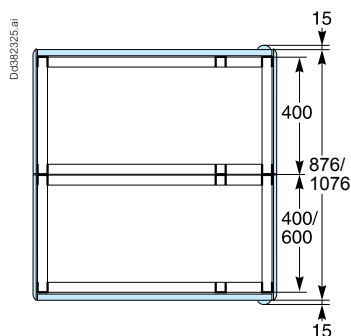


Depth

Door in front and panel in rear

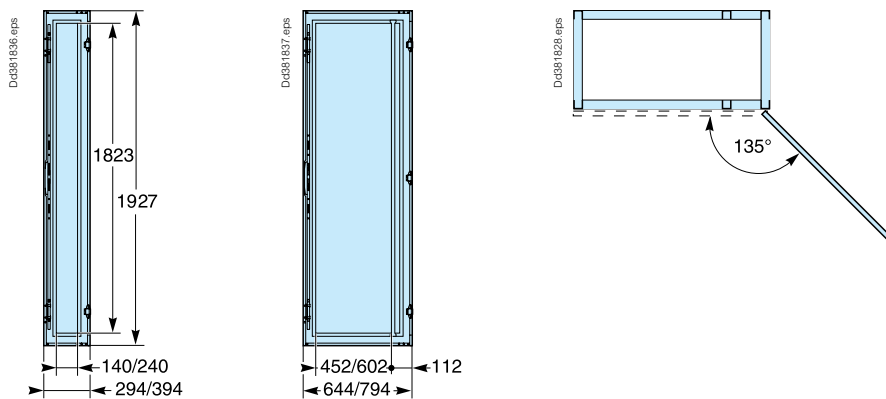


Doors front and rear

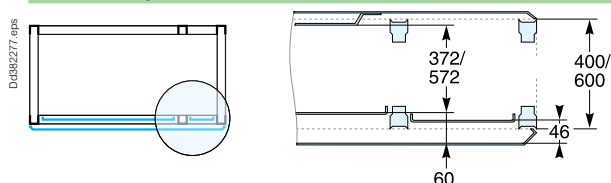


Door

IP31 door



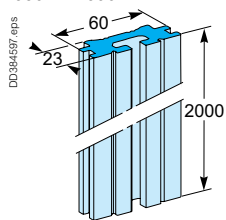
Available space behind door



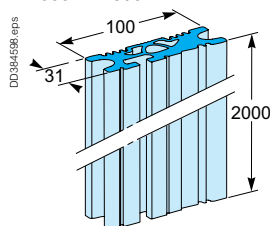
Dimensions (mm)

Linery LGYE busbars

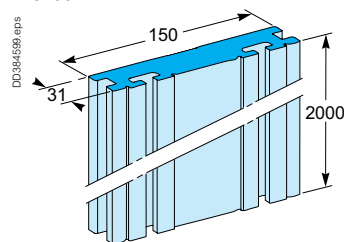
630 A - 1600 A



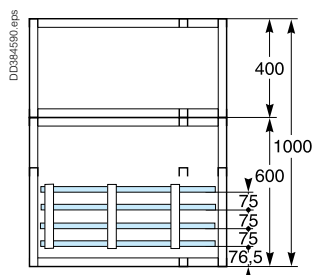
2000 A - 2500 A



3200 A

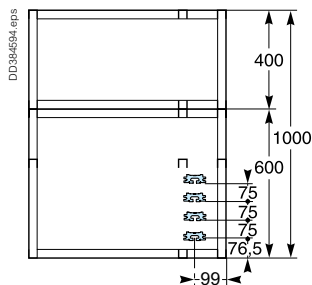


Layout of horizontal Linery LGYE busbars

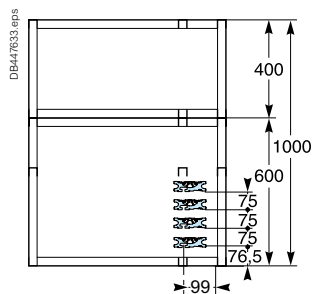


Layout of vertical Linery LGYE busbars

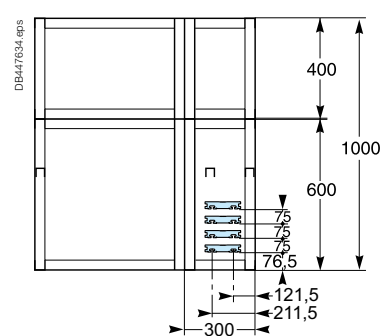
630 A - 1600 A



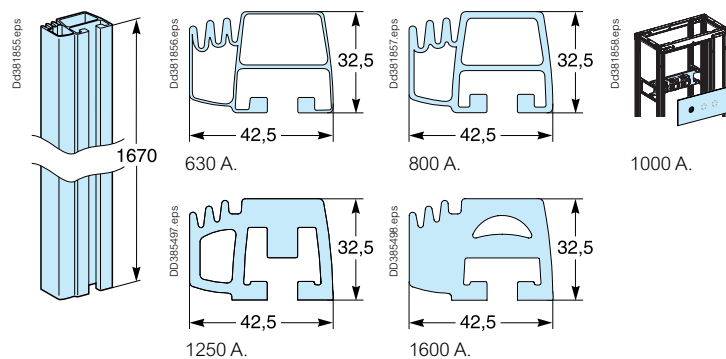
2000 A - 2500 A



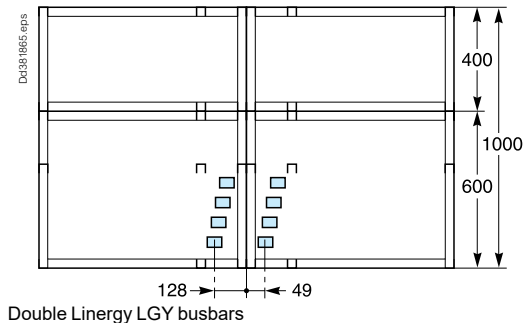
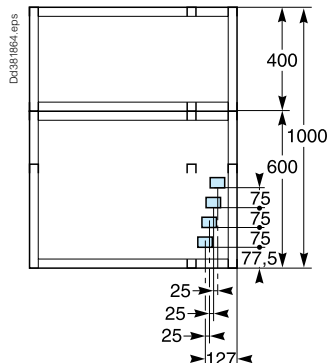
3200 A



Vertical Linery LGY busbars



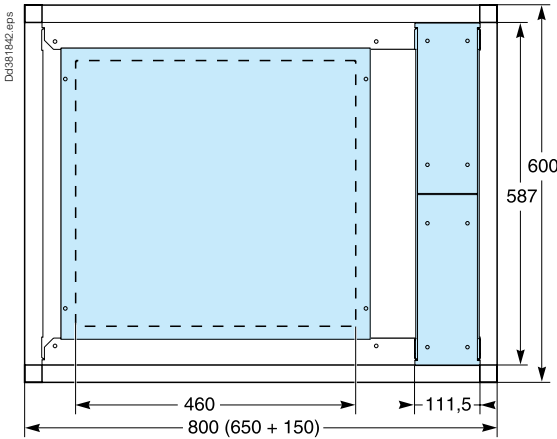
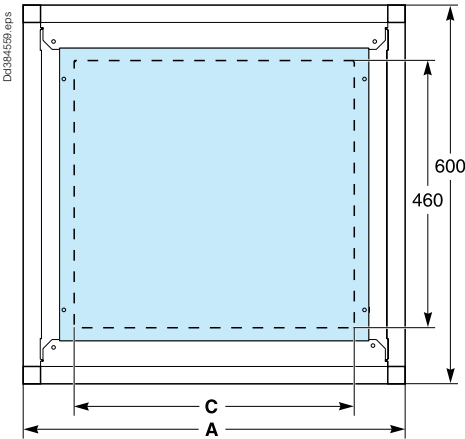
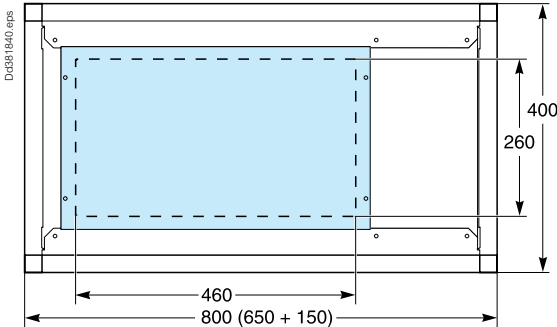
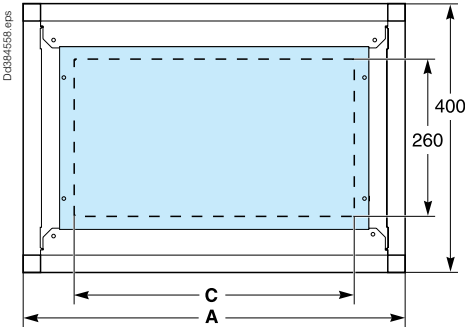
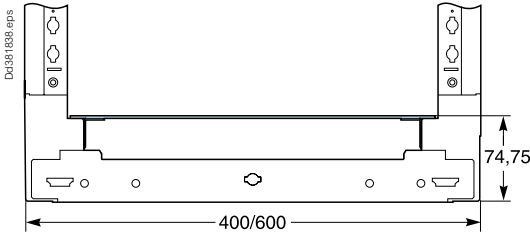
Layout of Linery LGY busbars



Dimensions (mm)

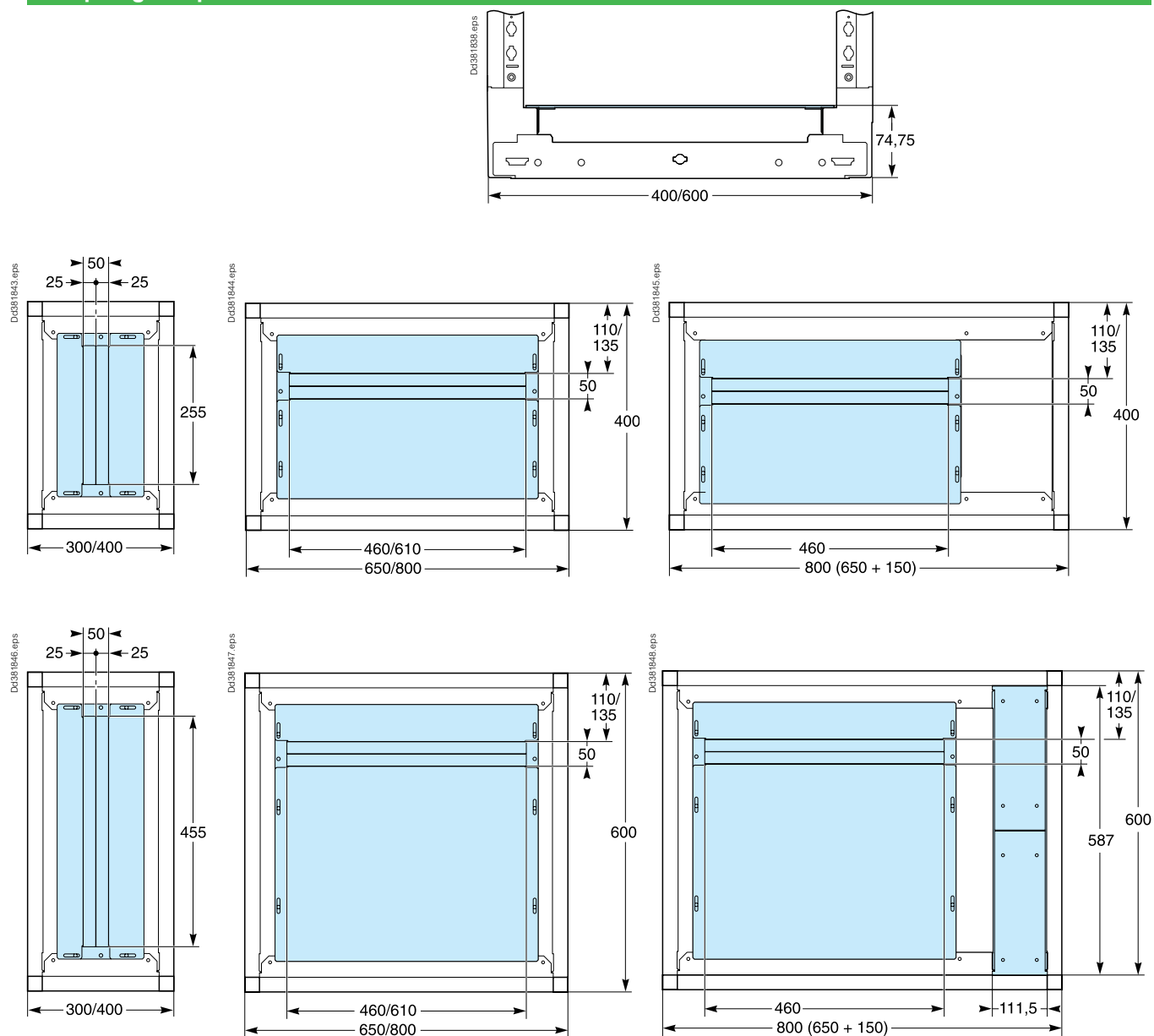
Plain gland plates

A	C
300	110
400	210
650	460
800	610



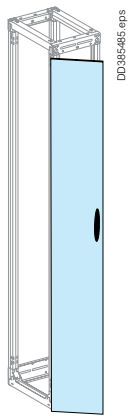
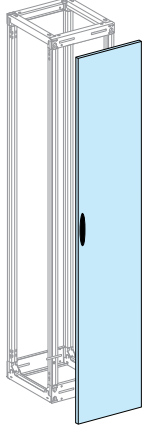
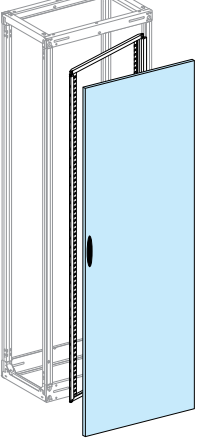
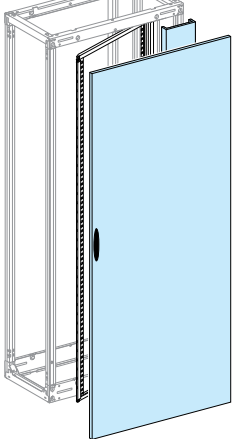
Dimensions (mm)

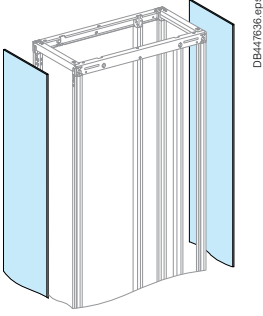
Two-part gland plates



Cubicles
IP31

Enclosures

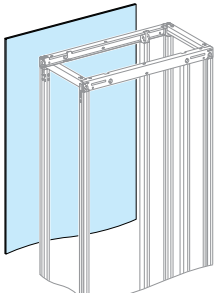
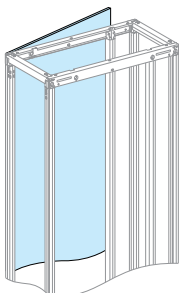
Mounting	Front doors			
				
Dimensions (mm)	W = 300	W = 400	W = 650	W = 800
Plain door	LVS08523	LVS08524	LVS01224	LVS01225
Reinforced door striker	LVS01114 ⁽¹⁾			
Characteristics	■ Reversible for left or right-hand opening. ■ Equipped with a handle and keylock (key 405). For other possibilities > page E-30. Note: The 800 mm door is supplied with a 150 mm barrier for the side compartment, plus a finishing accessory to improve the appearance of the upright. ⁽¹⁾ Refer to instruction sheet JPT89930 for assembly.			

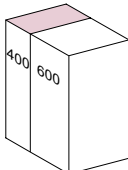
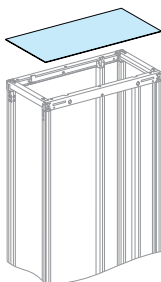
Mounting	Side panels	
		
Dimensions (mm)	D = 400	D = 600
Side panels	LVS08755	LVS08765
Characteristics	■ Equipped with a factory-mounted polyurethane (PUR) gasket. ■ Supplied with mounting hardware.	

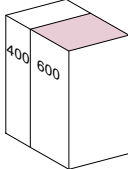
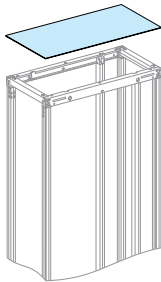
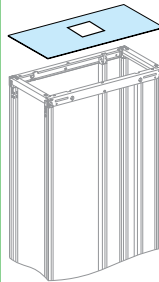
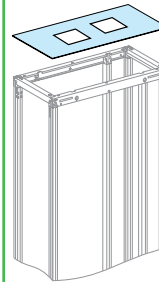
Cubicles

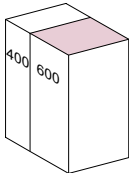
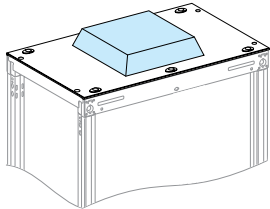
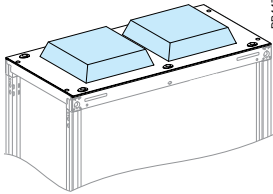
IP31

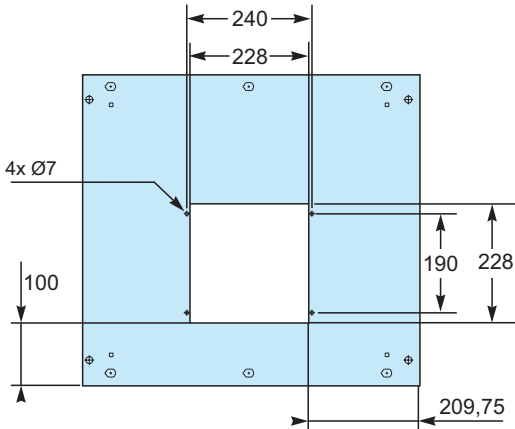
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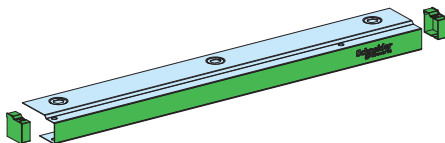
Mounting	Rear panels			
	 			
Dimensions (mm)	W = 300	W = 400	W = 650	W = 800
Rear panel	LVS08743	LVS08744	LVS08746	LVS08748
Characteristics	■ Equipped with a factory-mounted polyurethane (PUR) gasket. ■ Supplied with mounting hardware. ■ One-piece, reinforced panel designed to ensure the degree of protection.			

Mounting	Plain roof			
 				
Dimensions (mm)	W = 300	W = 400	W = 650	W = 800
Plain roof D = 400 mm	LVS08453	LVS08454	LVS08456	LVS08458

Mounting	Plain roof		Ventilated roof	
   				
Dimensions (mm)	W = 300	W = 400	W = 650	W = 800
Roof D = 600 mm	LVS08653	LVS08654	LVS08656	LVS08678

Mounting			Natural ventilation top hood without fan	
				
	DB447607.eps		DB447609.eps	
	Dimensions (mm)	W = 650	W = 800	
Catalog number	NSYCAC228RMB			

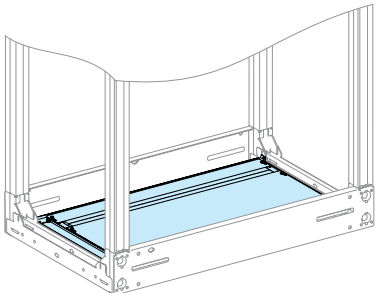
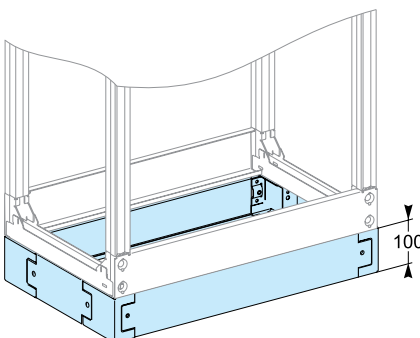
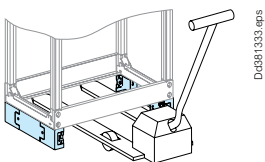
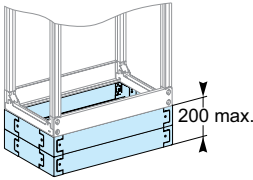
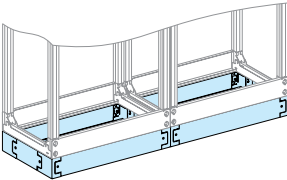
Cut-out in roof	
	DB447642.eps
Dimensions (mm)	W = 650
Roof D = 600 mm	LVS08656

Green cover to fix on top of each frame					
					
	Dimensions (mm)	W = 300	W = 400	W = 650	W = 800
		LVS08640	LVS08641	LVS08642	LVS08643
Characteristics	To cover the top of each section which does not have Voltage Presence Indicator.				

Cubicles

Plinth

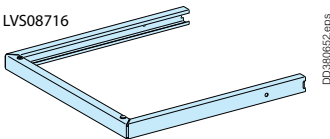
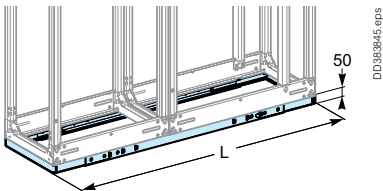
Enclosures

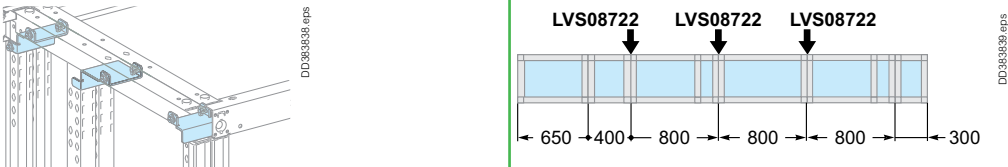
Mounting		Two-part gland plates					
							
Degree of protection		IP30/IP31					
Dimensions (mm)		D400			D600		
W = 300		LVS08493			LVS08693		
W = 400		LVS08494			LVS08694		
W = 650		LVS08496			LVS08696		
W = 800 (650 + 150)		LVS08497			LVS08697		
W = 800		LVS08498			LVS08698		
Mounting		Plinth H = 100 mm					
							
Dimensions (mm)		W = 300	W = 400	W = 650	W = 800	D = 400	D = 600
Four corner posts + two cross-pieces (front and rear)		LVS08723	LVS08724	LVS08726	LVS08728	–	–
Two side plates		–	–	–	–	LVS08720	LVS08721
Characteristics		The plinth is made up of two catalog numbers: ■ One catalog number comprising four corner posts + two cross-pieces (front and rear), that can be used in side-by-side combinations or stacked to form a plinth 200 mm high (maximum). ■ One catalog number comprising two side plates (400 or 600 mm). Each catalog number is supplied with the necessary hardware.					
Examples		 Side-by-side combination of two cubicles with a plinth. Two stacked plinths. The front and rear cross-pieces can be easily removed for a pallet-mover.					
		 TIP OVER HAZARD • Read and apply user instructions before work: • Secure the product in place. • Secure the product if removing the securing bolts or moving the product. • Use appropriate lifting equipment. • Use trained personnel only, who know and understand the user instructions. Failure to follow these instructions can result in death, serious injury, or product damage.					

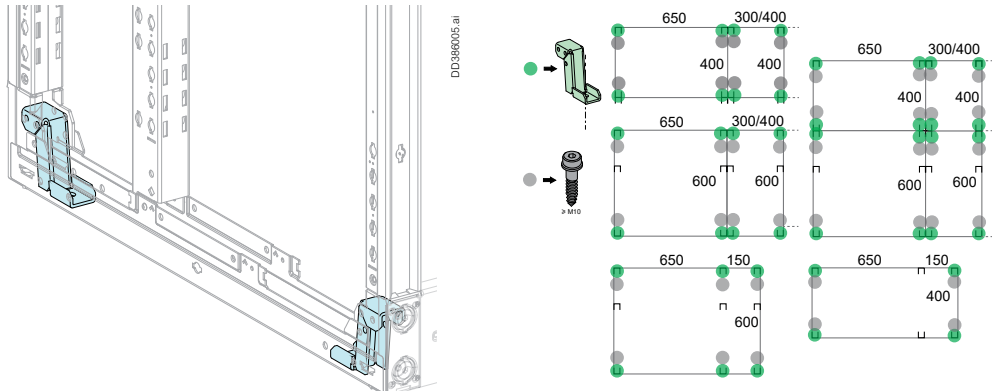
Cubicles

Cubicle handling and lifting reinforcement kit

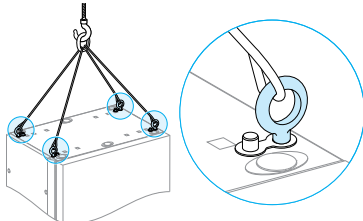
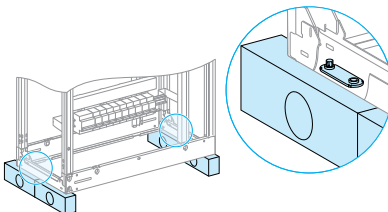
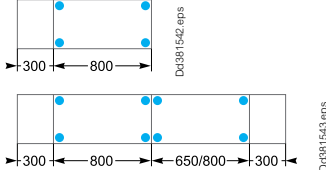
Enclosures

Mounting	Cubicle handling and rolling base				
					
Dimensions (mm)	D = 400	D = 600	L1200 to L1900	L2000 to L2550	L2650 to L3050
2 cubicle handling base end-pieces	LVS08714	LVS08716	—	—	—
Cubicle handling	—	—	LVS08705	LVS08706	LVS08707
Characteristics	This type of base is designed to avoid any risk of cubicle deformation during transport and handling. Five different catalog numbers offer 27 width possibilities (1200 to 3050 mm) for 400 and 600 mm deep cubicles. - Two catalog numbers each include 2 end-pieces for handling bases for 400 and 600 mm deep cubicles respectively and the corresponding mounting hardware. - Three catalog numbers each include 2 lengths for the sides of handling bases for 1200 to 3050 mm wide cubicles respectively and the corresponding mounting hardware. Handling bases can be used for both side-by-side and back-to-back cubicle combinations. In this case, the mounting hardware for one of the sets is used.				

Mounting	Lifting reinforcement kit	
		
Dimensions (mm)	D = 400, D = 600	
Lifting reinforcement kit	LVS08722	
Characteristics	Kit LVS08722 is recommended for lifting combined cubicles and can be used together with handling base end-pieces LVS08714 or LVS08716 for severe transport or handling conditions. Catalog number LVS08722 includes 3 reinforcement brackets for 400 or 600 mm deep cubicles and the corresponding mounting hardware.	

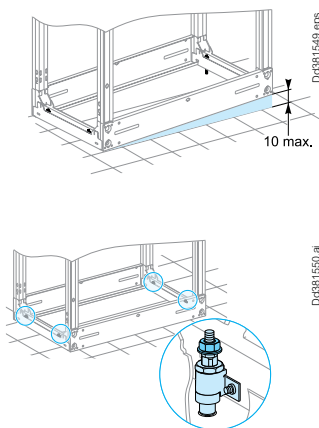
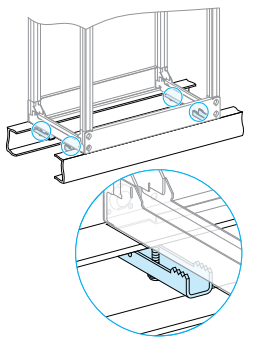
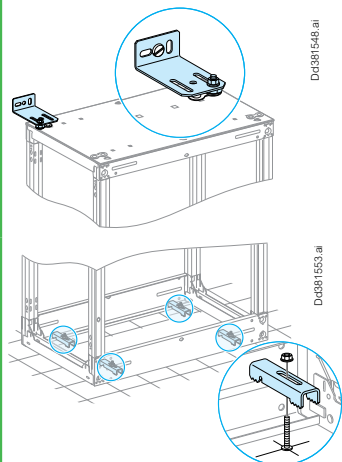
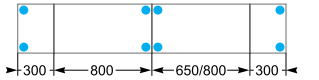
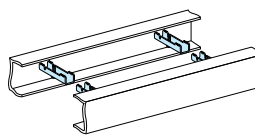
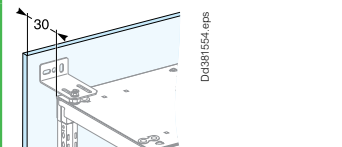
Mounting	Seismic Kit
	
	Foot part to be added in each bottom angle to reinforce the structure.
Reinforcement bracket	LVS08710
Characteristics	Catalog number ref LVS08710 includes 1 reinforcement bracket and 4 M6 screws. Plinths are not allowed with seismic kits.

Type of cubicle	W300		W400		W650		W650 + W150	
	D = 400	D = 600	D = 400	D = 600	D = 400	D = 600	D = 400	D = 600
Framework	LVS08403	LVS08603	LVS08404	LVS08604	LVS08406	LVS08606	LVS08407	LVS08607
Reinforcement bracket	LVS08710 x 4		LVS08710 x 4		LVS08710 x 4		LVS08710 x 4	LVS08710 x 6
Longitudinal cross men	LVS08773		LVS08774		LVS03587 x 2		LVS03587 x 2	
Lateral cross member	LVS03584 x 2	LVS03584 x 2 + LVS03586 x 2	LVS03584 x 2	LVS03584 x 2 + LVS03586 x 2	LVS03584 x 2	LVS03584 x 2 + LVS03586 x 2	LVS03584 x 2	LVS03584 x 2 + LVS03586 x 2
M10 screw (not supplied)	4	4	4	4	4	4	4	6

Mounting	Lifting rings	Framework stabiliser kit
	  WARNING HAZARD OF DROPPING • Use strong slings with a valid use-by date when lifting with cranes. • Attach the slings to the 4 lifting rings of the cubicles. • For combined units, use lifting beam and slings for lifting. • Secure the plinth of floor standing enclosure using the fasteners. Failure to follow these instructions can result in death, serious injury, or equipment damage.	
Cat. no.	LVS08700	LVS08701
Characteristics	■ Set of four lifting rings screwed to the framework. ■ Use a set of lifting rings for each framework (W = 650 and 800 mm) containing devices. ■ When two cubicles with devices have been combined, use a lifting beam. ■ Can be installed and removed without removing the roof. ■ Even if they are left attached, the switchboard conserves its original degree of protection.  Doc81542.eps Doc81543.eps Positions of the lifting rings for two combined cubicles containing devices. In this case, a lifting beam must be used.	■ Made up of four blocks under the framework. ■ Suitable for all types of cubicles, whatever the width and depth. ■ Increases the stability of the cubicle during mounting of devices. ■ Makes possible cubicle handling using a pallet mover or a forklift. ■ Protects the front, side and rear cover panels during handling. ■ Can be reused.

Installation accessories

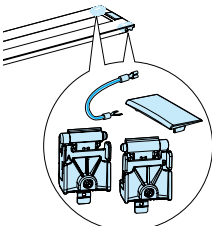
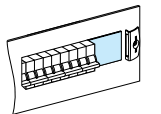
Enclosures

Mounting	Levelling kit	False floor fixing kit	Floor/wall fixing kit
			 WARNING HAZARD OF DROPPING • Use strong slings with a valid use-by date when lifting with cranes. • Attach the slings to the 4 lifting rings of the cubicles. • For combined units, use lifting beam and slings for lifting. • Secure the plinth of floor standing enclosure using the fasteners. Failure to follow these instructions can result in death, serious injury, or equipment damage.
Cat. no.	LVS08702	LVS08703	LVS08704
Characteristics	■ Set of 4 fixtures. ■ Can be installed at any time, even when the cubicle is already in position. ■ Maximum adjustment range = 10 mm. ■ Secures the cubicle to the floor.  Recommended positions of the fixtures for combined cubicles.	■ Made up of four independent clamps. ■ Clamp on: □ "U" sections: H = 175 mm, W = 70 mm □ "I" sections: H = 120 mm, W = 64 mm ■ Clamp travel = 11 mm 	■ Made up of two brackets and four clamps. ■ Can be used to offset the switchboard fixing points for easier access. ■ The wall brackets ensure sufficient wall clearance (at least 30 mm) for natural convection. 

Front plate accessories

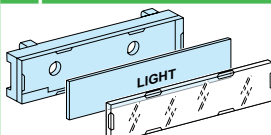
Front plate accessories, blanking plates

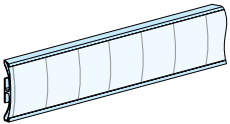
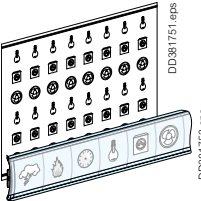
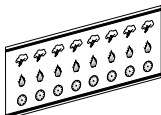
Enclosures

Used for	Front plate hinge kit	Blanking plates	
	 DD383950 eps	 DD384029 eps	
Cat. no.	For LVS08585 ⁽¹⁾	For modular devices LVS03220	LVS03221
Characteristics	■ Set of 2 hinges ■ 1 earthing braid	■ Strip ■ H = 46 mm, L = 1 m	■ Divisible ■ Set of 4 ■ H = 46 mm, L = 90 mm ■ White RAL 9003

(1) With a power voltage > SELV (12 V), devices on front plates must be mounted with a front plate hinge kit (cat no. **LVS08585**). The earthing braid must be connected to the front plate frame support (cat no. **LVS08566**, **LVS08564**, **LVS08560**, **LVS08562** or else). With a power voltage > SELV (12 V) and a supply protection > 16 A, in addition to the preceding rule, the front plate frame support (cat no. **LVS08566**, **LVS08564**, **LVS08560**, **LVS08562** or else) must be connected to the cubicle frame, using an earthing braid (cat no. **LVS08910** or **LVS08911**). (standard NF / EN 61439-1 2011 edition).

Identification labels

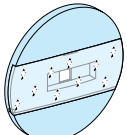
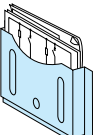
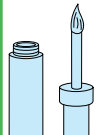
Used for	Clip-on labels			Engraving plates		
	 DD383974 eps			 DD383975 eps		
Cat. no.	LVS08913	LVS08915	LVS08917	LVS08914	LVS08916	LVS08918
Dimensions (mm)	18 x 35	18 x 72	25 x 85	18 x 35	18 x 72	25 x 85
Characteristics	■ Set of 12 ■ The clip-on support is supplied with a paper label and a transparent cover. ■ It clips onto the front plate horizontally or vertically and can be screwed to any support (plain door, plain front plate, etc.).			■ Set of 12 ■ Simply replace the paper labels.		

Used for	Adhesive labels				Symbol sheets		
	 DD381715 eps				 DD381751 eps DD381753 eps		 DD381752 eps
Cat. no.	LVS08905	LVS08906	LVS08903	LVS08904	13735	13736	
Dimensions (mm)	24 x 180	36 x 180	24 x 432	36 x 432			
Characteristics	■ Set of 12 ■ The adhesive label holders are supplied with a paper label and a transparent cover.				■ Set of 10 symbol sheets ■ Standard symbols: □ Loads: sockets, lights, heating units, etc. □ Rooms: bedroom, bathroom, etc.		■ Set of 10 symbol sheets ■ Special symbols: □ Loads: lightning arrestor, gate, swimming pool, etc. □ Rooms: technical room, computer room, etc.

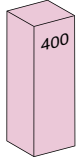
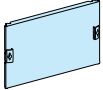
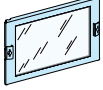
Adhesive labels for mimic diagrams

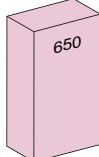
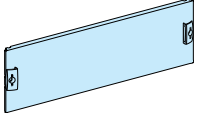
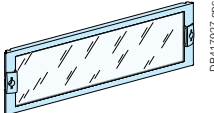
Used for	Lines	Outgoing arrows	Incoming arrows	Transformers
	 x 10	 x 10	 x 10	 x 10
Cat. no.	LVS01005	LVS01006	LVS01007	LVS01008
Characteristics	900 mm long and 7 mm thick			
	Set of 10			

Accessories

Used for	Switchboard identification plate	Drawing holder	Touch-up accessories
	 DD381721 eps	 DD381728 eps	 DD385306 eps
Cat. no.	LVS08900	LVS08963	LVS08961
Characteristics	Color: RAL 9003	Color: RAL 9003	Color: RAL 9003

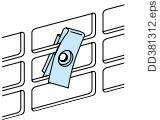
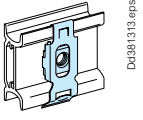
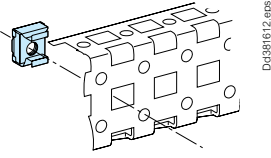
Reserve space

Reserve space								
								
	Plain front plate W = 250 mm							
	H = 50 mm	H = 100 mm	H = 150 mm	H = 200 mm	H = 250 mm	H = 300 mm	H = 450 mm	H = 600 mm
[No. of vertical mod.]	[1]	[2]	[3]	[4]	[5]	[6]	[9]	[13]
Catalog number	LVS03811	LVS03812	LVS03813	LVS03814	LVS03815	LVS03816	LVS03817	LVS03722
								
	Transparent front plate W = 250 mm							
[No. of vertical mod.]	–	–	–	[4]	–	[6]	[9]	–
Catalog number	–	–	–	LVS03352	–	LVS03353	LVS03354	–

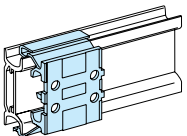
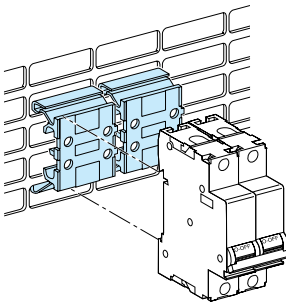
Reserve space								
								
	Plain front plate W = 500 mm							
	H = 50 mm	H = 100 mm	H = 150 mm	H = 200 mm	H = 250 mm	H = 300 mm	H = 450 mm	H = 600 mm
[No. of vertical mod.]	[1]	[2]	[3]	[4]	[5]	[6]	[9]	[12]
Catalog number	LVS03801	LVS03802	LVS03803	LVS03804	LVS03805	LVS03806	–	LVS03808
								
	Transparent front plate W = 500 mm							
[No. of vertical mod.]	–	–	–	[4]	–	[6]	[9]	[12]
Catalog number	–	–	–	LVS03342	–	LVS03343	LVS03344	LVS03345

Others

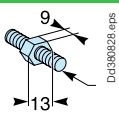
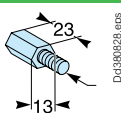
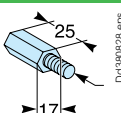
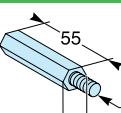
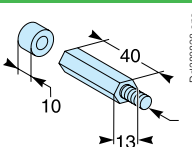
Clip-nuts

Mounting	For slotted mounting plates	For modular rails	For lateral and longitudinal cross-members
			
M4	LVS03180	LVS03164	—
M5	LVS03181	LVS03165	—
M6	LVS03182	LVS03166	LVS03194
Characteristics	■ Set of 20 ■ Mounting of various devices	■ Set of 20 ■ Mounting of various devices	■ Set of 20 ■ Mounting in cubicles

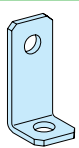
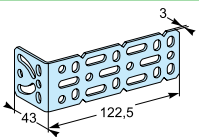
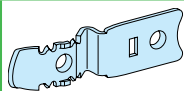
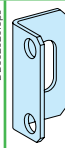
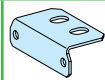
Pratic raiser

Raiser	
	 
Catalog number	LVS04224
Characteristics	■ Set of 5 ■ Height 10 mm, wide 27 mm ■ Color: RAL 9003, insulating material

Hexagonal spacers

Hexagonal spacers					
					
M5	LVS03185	LVS03186	—	LVS03187	—
M6	LVS03195	LVS03196	LVS03198	LVS03197	—
M8	—	—	—	—	LVS03199
Characteristics	Height: 9 mm Set of 4	Height: 23 mm Set of 4	Height: 25 mm Set of 4	Height: 55 mm Set of 4	Height: 40 + 10 mm Set of 4

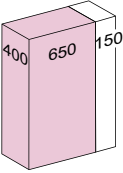
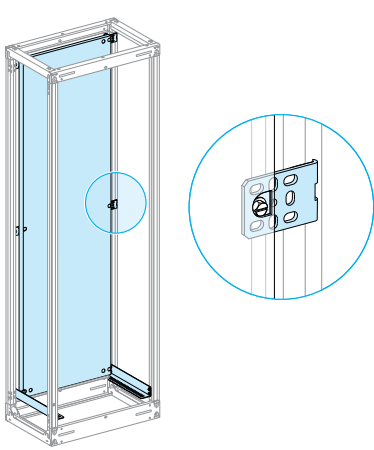
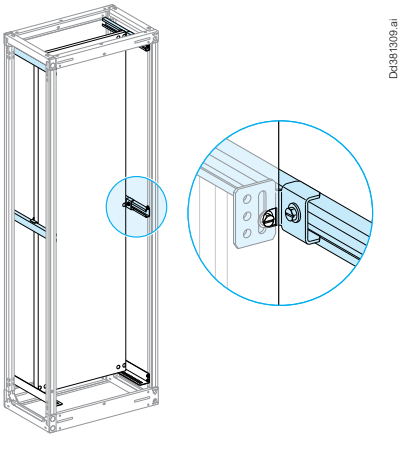
Universal angle brackets

Universal angle brackets					
					
Catalog number	LVS03580	LVS03581	LVS03582	LVS03583	LVS04667
Characteristics	Set of 4 + vis	Set of 2	6 universal inserts	Set of 6	Set of 2

Universal adapter
Mounting on a plain backplate

Others

Mounting on a plain backplate

Mounting	Plain backplate		Slide rails + angle brackets
			
Catalog number	LVS03570	LVS03569	LVS03593
Characteristics	36 modules 510 mm wide for installation in a device compartment W = 650 mm or W = 800 mm (650 + 150)	36 modules 660 mm wide for installation for a cubicle W = 800 mm	Set of 2 for the installation and depth adjustment

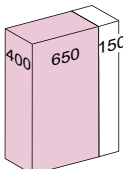
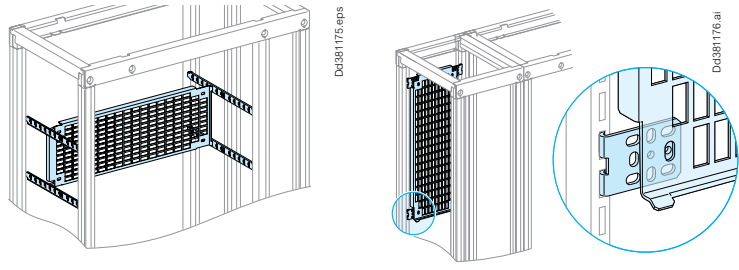
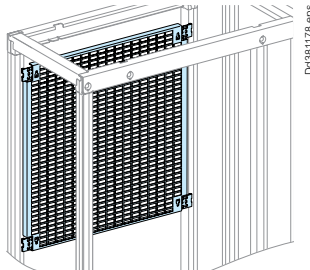
Others devices

Mounting on a slotted plate

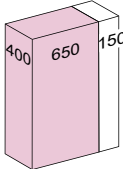
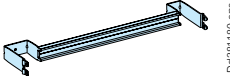
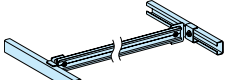
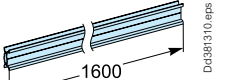
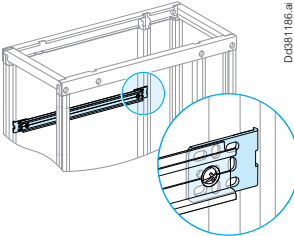
Mounting on a modular rail

Others

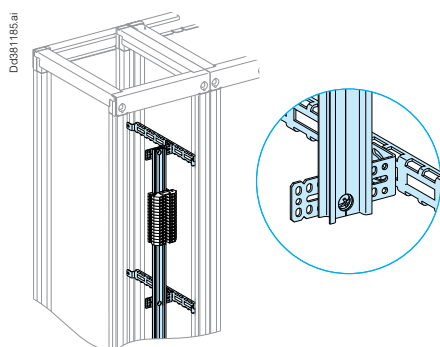
Mounting on a slotted plate

Mounting	Slotted mounting plates + lateral cross-members		Slotted mounting plate without lateral cross-members
			
Catalog number	LVS03571	LVS03572	LVS03574
Number of vertical modules	4	6	12
Height (mm)	200	300	600
2 universal angle brackets	–	2 x LVS03581	–
Characteristics	Installation ■ Either in the device zone on the four lateral cross-members (depth adjustment is possible). ■ Or vertically at the rear of a cable compartment, W = 300 mm (LVS03571) or W = 400 mm (LVS03572).		■ Galvanised, slotted metal mounting plate. ■ Supplied with four angle brackets, they connect directly to the rear of a framework, W = 650 mm or 800 mm (650 + 150 mm). ■ The mounting plate can also be installed using two sets of two slide rails (LVS03593 x 2) for depth adjustment.

Mounting on a modular rail

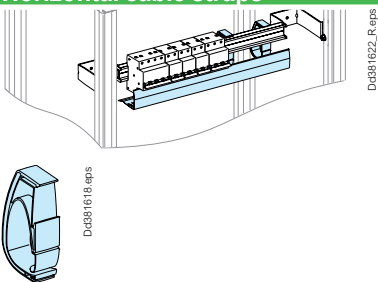
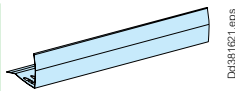
Mounting	Modular rails			Modular rail W = 650 mm
				
Catalog number	LVS03401	LVS03402	LVS04226 ⁽¹⁾	LVS03590
Characteristics	Useful length: 432 mm	Useful length: 432 mm Modular rail (adjustable)	Set of 2 rails, useful length: 1600 mm with 4 holes, Ø 6.4 mm, 450 mm between centres	W = 650 mm Supplied with two angle brackets for mounting on the framework.

(1) Example of a Linergy busbars installed in a busbar compartment, on a modular rail cat. no. **LVS04226 + LVS03581 + LVS08794**: > page E-110.

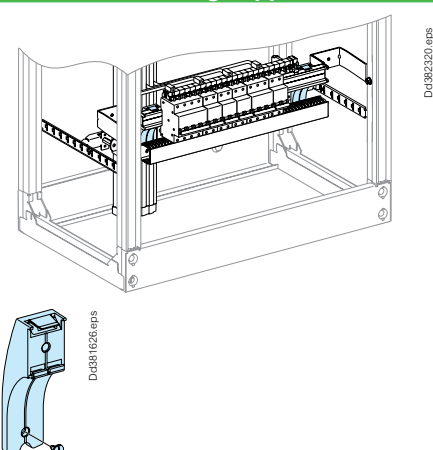
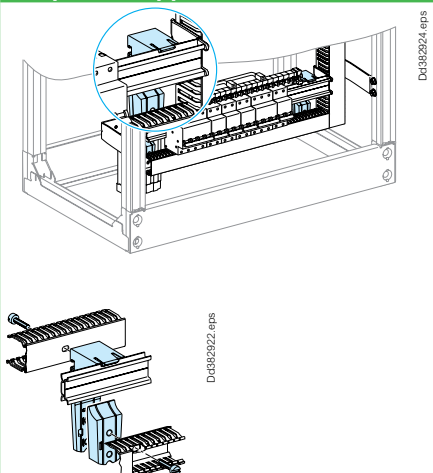


Others

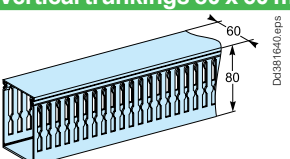
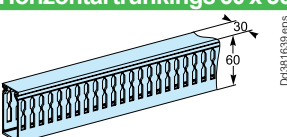
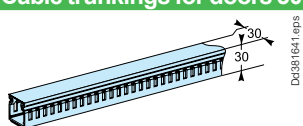
Straps and covers

Type	Horizontal cable straps	Covers for horizontal cable straps
		
Catalog number	LVS04239	LVS04243
Characteristics	Set of 12 Horizontal cable straps have the same capacity as 60 x 30 mm trunking.	Set of 4 covers of 430 mm

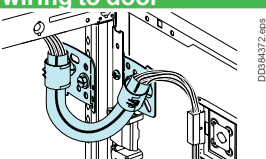
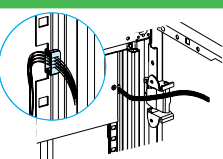
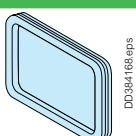
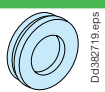
Trunking supports

Type	Horizontal trunking supports	Adaptable support for horizontal trunking
		
Catalog number	LVS04255	LVS04256
Characteristics	Set of 12	Set of 10 Aligns the cover of a horizontal trunking section (H = 60 or 80 mm) with that of a vertical trunking section (H = 80 mm). Note: Not designed for use with Pack enclosures.

Trunkings

Type	Vertical trunkings 80 x 60 mm	Horizontal trunkings 60 x 30 mm	Cable trunkings for doors 30 x 30 mm
			
Catalog number	LVS04267	LVS04257	LVS04233
Characteristics	Set of 18 L = 2000 mm	Set of 4 L = 450 mm Supplied with supports	Set of 30 adhesive trunkings 30 x 30 mm L = 2000

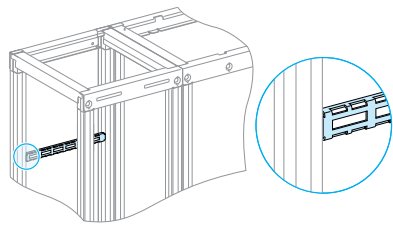
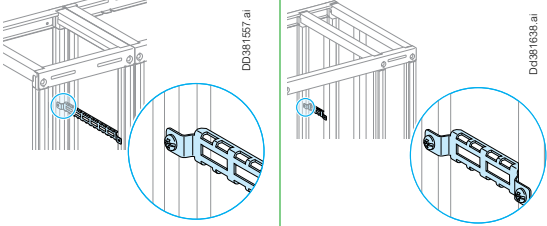
Cable trunkings for doors, grommets

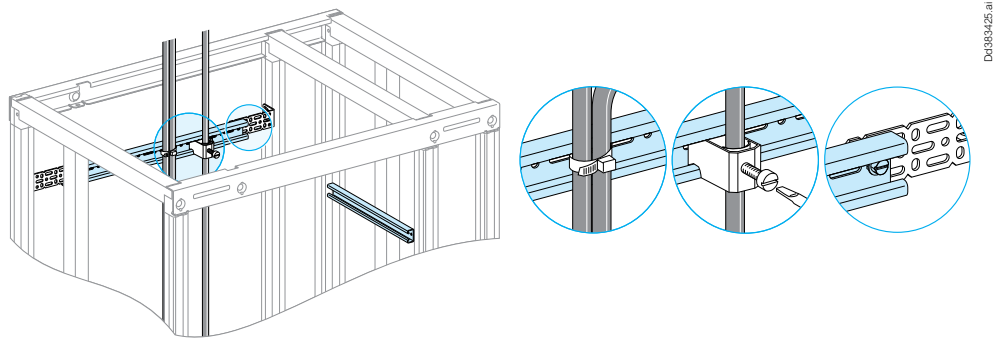
Type	Flexible trunkings for wiring to door	Grommets		
				
Catalog number	LVS04235	LVS04234	LVS01215	87648
Characteristics	W = 500 mm, inner Ø = 19 mm	Set of 10 For wiring through front	5 square grommets 70 x 40	50 grommets Ø22 mm

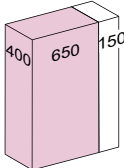
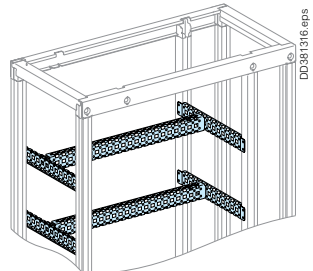
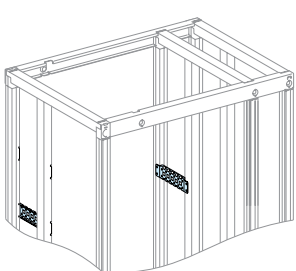
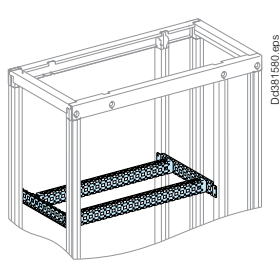
Connection accessories

Cable-tie supports, lateral and longitudinal cross-members

Others

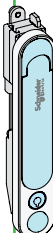
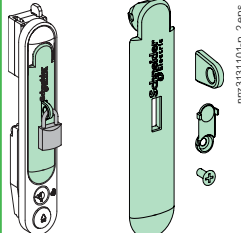
Mounting	Longitudinal cable-tie supports				Lateral cable-tie supports	
						
Catalog number	LVS08773	LVS08774	LVS08776	LVS08778	LVS08794	LVS08796
Characteristics	W = 300 mm	W = 400 mm	W = 650 mm	W = 800 mm	D = 400 mm	D = 200 mm
Set of 4, supplied with the necessary hardware for connection to the framework. Cable-tie supports are used to correctly position the cables in the connection compartment.					For frameworks that are 400 mm deep, assign a 400 mm deep support to a 200 mm deep support.	

Mounting	C-shaped cable-tie supports
	
Catalog number	LVS08783
Characteristics	C-shaped 1600 mm long support, supplied with hardware for mounting on universal angle brackets and modular rails, that can be cut to length as needed. Can be secured to: ■ Universal angle bracket LVS03581 (for the longitudinal support). ■ Universal angle bracket LVS03582 (for the lateral support). ■ Modular rail LVS03593 (for depth adjustment).

Mounting	Lateral cross-members		Longitudinal cross-members
			
Catalog number	LVS03584	LVS03586	LVS03587
Characteristics	Set of 2 W = 400 mm: for frameworks that are 400 mm deep	Set of 2 W = 200 mm: can be added to the 400 mm crossmembers for frameworks that are 600 mm deep. They can also be installed separately.	Set of 2 W = 650 mm They are connected directly to the framework (W = 650 mm). They can also be mounted on the lateral cross-members.
Metallics, they offer numerous positioning holes for easier installation.			

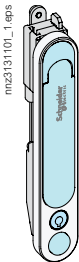
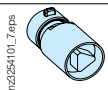
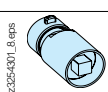
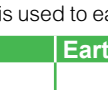
Handles and padlocking

Others

	EURO handle	ASSA/ABLOY handle	RAL 7016 rotary handle	Padlocking
	 Dd110386 ai	 Dd110387 ai	 rm23131101_1 eps	 rm23131101-p_2 eps
Cat. no.	LVS07932	LVS07933	LVS07931	LVS07938
Characteristics	Supplied without barrel	Supplied without barrel	Supplied with barrel lock (key no. 405) RAL 7016	For new rotary handle

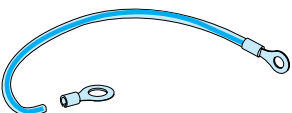
Barrel locks, inserts

The barrel locks and inserts below can mount on all the door handles of PrismaSeT P range after removing the standard barrel lock (key n°405).

Barrels and inserts for rotary handle		
	Characteristics	Catalog numbers
 rm23131101_1 eps	1 key no. 405	LVS07940
 rm23131101_3 eps	2 keys no. 455	LVS07941
 rm23233301_4 eps	2 keys no. 1242E	LVS07942
 rm23233301_4 eps	2 keys no. 3113A	LVS07943
 rm23233301_4 eps	2 keys no. 2433A	LVS07944
 rm23233301_4 eps	2 keys no. 2432E	LVS07956
 rm23233701_5 eps	DIN double bar insert	LVS07945
 rm23233801_6 eps	Screwdriver slot insert	LVS07946
 rm23254101_7 eps	Male triangle insert 8 mm	LVS07949
 rm23254301_8 eps	Male square insert 6 mm	LVS07951
	8 mm	LVS07953

Earthing braid

Earthing braid is used to earth a door or wicket door with devices.

	Earthing braid, 6 mm ²	Earthing wire, 6 mm ²
	 DD384368 eps	 DD384368 eps
Catalog numbers	LVS08910	LVS08911
Characteristics	Equipped with a 4 mm diameter lug at one end and a 6 mm diameter lug on the other. W = 200 mm.	Equipped with a 5 mm diameter lug at one end and a 6 mm diameter lug on the other. W = 200 mm.

Ventilation accessories

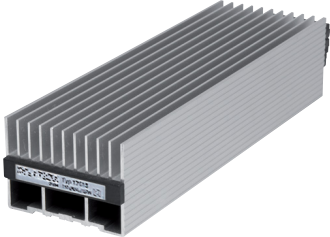
Heat

Others

Resistors

Resistors prevent condensation, corrosion and superficial leakage currents. They maintain a positive temperature in the enclosures and cubicles when external temperatures drop very low.

- Install heaters according to the desired power level at the bottom of the enclosure.
- Respect a safety area of a least 10 cm around the device.
- The heaters must be installed with a thermal controller to control the temperature or the humidity inside the enclosure.
- The enclosure must be sealed to prevent the entry of air from the outside.
- An electrical protection device must be installed on the supply side of the unit.
- Surface temperature limited to 75 °C when the ambient temperature is -5 °C.
- Heaters equipped with a power cable with a length of 500 mm with silicon insulation, or with a connection terminal block.

	Aluminium PTC resistors					Resistive heaters with fan	
							
	Power cord		Terminal block			Terminal block	
Cat. no.	NSYCR10WU2	NSYCR20WU2	NSYCR55WU2	NSYCR100WU2	NSYCR150WU2	NSYCR250W230VV	NSYCR400W230VV
Power rating (W)	10	25	55	90	150	250	400
Voltage (V)	110-250 AC	110-250 AC	110-250 AC	110-250 AC	110-250 AC	230 AC	230 AC
Characteristics	■ Vertical mounting ■ Aluminium case with fins ■ Temperature: □ Turns off at 60 °C □ Turns on at 25-30 °C (temperature of the resistor itself) ■ Equipped with a symmetrical					■ Vertical mounting ■ Aluminium case with fins ■ Temperature: □ Turns off at 60 °C □ Turns on at 25-30 °C (temperature of the resistor itself) ■ Equipped with a symmetrical	

Thermofan

	Thermofan
	
	Terminal block
Cat. no.	NSYCRP1W230VTVC
Power rating (W)	400/550
Voltage (V)	230 AC
Characteristics	■ Combination of a resistance heater and an axial motor to ensure uniform heating of the enclosure. ■ Fixing by clip on a DIN rail. ■ Thermostat adjustable from 0...+60 °C. ■ Visual operation indicator.

Ventilation accessories

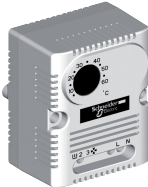
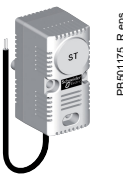
Regulating

Others

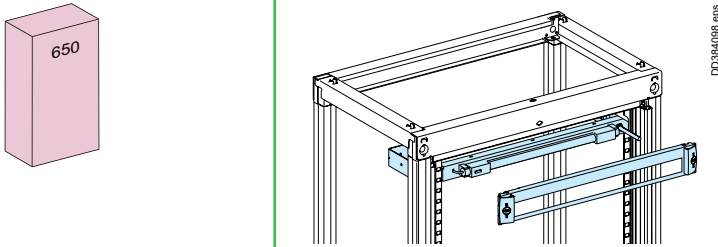
Regulating

The thermostat can control the temperature inside electrical switchboards in conjunction with heating resistors and fans.

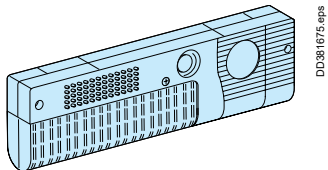
This thermostat can control the activation of a fan and a heater and regulate their temperature independently.

	Mechanical thermostats		Electronical thermostats		
					
	Thermostat with OF contact NSYCCOTHI	Double thermostat NSYCCOTHD	Electronical thermostat NSYCCOTH230VID	Electronic hygrotherm NSYCCOHYT230VID	Electronic hygrosat NSYCCOHY230VID
Cat. no.					
Colour of the button	Black	■ Red: with normally closed contact (NC) for controlling the resistance heaters. ■ Blue: with normally open contact (NO) for controlling the fans, signalling systems or alarms.	–	–	–
Contact	Inverse, forced rupture	1 with normally closed contact (NC), 1 with normally open contact (NO), forced rupture.	Free with zero potential		
Internal sensor element	Bimetal		Internal temperature sensor	–	Internal humidity sensor
Switching capacity	250 V AC ; 10 A (resistive load)	250 V AC ; 10 A 120 V AC ; 15 A 250 V AC/120 V AC : 2 A (inductive load cos Ø= 0,6) 30 W DC	–	–	–
Max interrupting capacity with direct current	250 V AC 4 A (charge inductive Ø = 0,6) 30 W DC	–	–	–	–
Connection	Four 2.5 mm² terminals	Six 2.5 mm² terminals	2 x 2.5 mm² (input voltage) + 2 relays (2 x 2.5 mm² + 2 x 2.5 mm²)	2 x 2.5 mm² (input voltage) + 2 relays (2 x 2.5 mm² + 2 x 2.5 mm²)	2 x 2.5 mm² (input voltage) + 1 relay (2 x 2.5 mm²)
Dimensions (mm)	67 x 50 x 44	60 x 33 x 43	–	–	–
Weight (g)	100	40	–	–	–
Hysteresis	7° K	7° K	Programmed 2 °K	3 %	3 %
Temperature setting range	+5...+60 °C	0...+60 °C	-40 °C...+80 °C	-40 °C...+80 °C	-40 °C...+80 °C, humidity setting range:20 %...80 %
Characteristics	■ Ingress protection rating: IP20. ■ Contact resistance: < 10 mΩ. ■ Service life: > 100 000 cycles. ■ Fixing:by clip on a 35-mm DIN rail. ■ Case : plastic UL 94 V-0, light grey. ■ Operating temperature : -20...+80 °C (-4...+176 °F). ■ Display : °C/°F. ■ Max. command intensity: (NC) 5 A (NO) 10 A.		■ Ingress protection rating: IP20. ■ Certification : UL/UR. ■ Fixing: 4 different methods: on DIN rail, Spacial SF profile, on VDI cross-rail or on mounting plate. ■ Boîtier : plastique UL 94 V-0, gris clair. ■ Operating temperature : -40 °C...+80 °C. ■ Display : °C/°F. ■ Max. command intensity: 8 (5) A 230 V AC / 5 A 30 V DC.		
	PTC external temperature sensor (double insulation)				
					
Cat. no.	NSYCCASTE				
Characteristics	■ Sensor operation or reading range: -30 °C...+80 °C. ■ IP67. ■ Thermostat installation tips: the thermostat should be installed at the top of the enclosure (the hottest place). See the various operating modes of each thermostat to choose the one that best meets your needs. ■ Hyvrosat installation tips: the hvayrosat should be installed at the bottom of the enclosure. 60 % RH is the optimum value in the enclosure.				

Lighting system

Fixed lighting	
	
Catalog number	LVS08964
Presentation	This system is generally used to illuminate the front of a switchboard. ■ The kit is made up of: □ A base □ A neon tube □ A front plate with cut-out (1 module) □ A door contact
Characteristics	■ Supply voltage: 220/240 V ■ Power rating: 8 W ■ Height: 1 vertical module (50 mm)

Switchboard portable lamp

Switchboard portable lamp	
	
Catalog number	LVS08965
Presentation	■ Lamp with a magnetic base for installation behind a door or directly on the cubicle framework. ■ Supplied without a power cord. ■ H x W x D: 90 x 345 x 42
Characteristics	■ Supply voltage: 220/240 V ■ Power rating: 11 W ■ Lamp: picoline OSRAM 8W (supplied) ■ Class 2 ■ IP20

Functional Units

Contents

Circuit breakers

MasterPact MTZ2	
Cables connection	E-36
Canalis connection	E-38
Partial front plate support frames	E-40
MasterPact MTZ1	
Cables connection	E-42
Canalis connection	E-43
Dedicated cubicle 3P - W = 400 mm	E-44
ComPacT NS1600b to 3200 (only for feeder cubicles)	
Cables connection	E-46
ComPacT NS630b to NS1600	
Cables connection	E-47
Canalis connection	E-48
ComPacT NS630b to 1000	
Horizontal mounting	E-49
ComPacT NS630b to 1600	E-50
ComPacT NSX 100 to 630	E-52
ComPacT NSXm up to 160	E-55

Switch-disconnectors

ComPacT INS-INV630b to 2500 (only for feeder cubicles)	E-56
ComPacT INS-INV250 to 630 (only for feeder cubicles)	E-57

Source-changeover

MasterPact MTZ1 06/16, MTZ2 08/32	E-58
MasterPact MTZ2 08/32	E-59
MasterPact MTZ1 06/16	E-63
Manual source-changeover	
ComPacT NSX100/630	E-66
Remote-operated source-changeover	
ComPacT NSX100/630	E-67

Fusegear

Fupact ISFL	E-68
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Fusegear/Switch-disconnector

Fupact ISFT	E-69
Fupact GS	E-70

Others

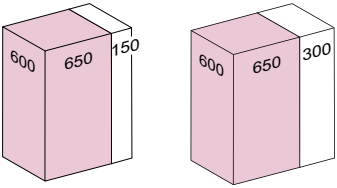
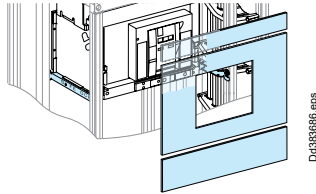
Power factor correction equipment	E-71
Industrial control devices	E-72
Modular devices	
Acti 9 ≤ 63 A	E-73
80/160 A switchboard incomer	E-74
Metering	
Single-phase and 3-phase kilowatt-hour meters	E-75
Metering and human-switchboard interface	
PowerLogic™ Meters	E-76

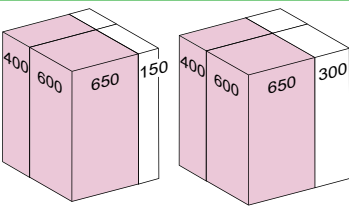
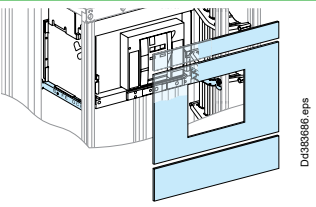
MasterPact MTZ2 08 to 32

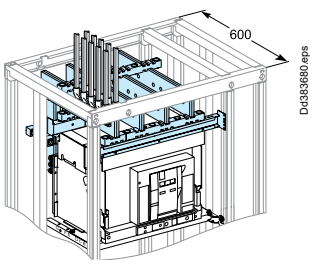
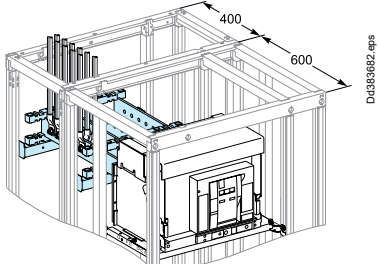
Cables connection

Fixed, withdrawable

Circuit breakers

Mounting		Front connection			
					
Devices		Fixed device		Withdrawable device	
		MTZ2 08/16	MTZ2 20/32	MTZ2 08/16	MTZ2 20/32
Number of devices per row		1	1	1	1
No. of vertical modules ⁽¹⁾		18	19	19	20
Mounting plates		LVS03500	LVS03500	LVS03500	LVS03500
Front plates [No. of vertical modules]	upstream	LVS03804 [4]	LVS03805 [5]	LVS03804 [4]	LVS03805 [5]
	with cut-out	LVS03711 [9]	LVS03711 [9]	LVS03710 [10]	LVS03710 [10]
	downstream	LVS03805 [5]	LVS03805 [5]	LVS03805 [5]	LVS03805 [5]

Mounting		Rear connection			
					
Devices		Fixed device		Withdrawable device	
		MTZ2 08/16	MTZ2 20/32	MTZ2 08/16	MTZ2 20/32
Number of devices per row		1	1	1	1
No. of vertical modules		14	14	15	15
Mounting plates		LVS03500	LVS03500	LVS03500	LVS03500
Front plates [No. of vertical modules]	with cut-out	LVS03711 [9]	LVS03711 [9]	LVS03710 [10]	LVS03710 [10]
	downstream	LVS03805 [5]	LVS03805 [5]	LVS03805 [5]	LVS03805 [5]

Connection		Upstream on incomer	
			
Devices		Fixed device MTZ2 08/32	Withdrawable device MTZ2 08/32
Type of terminals		Vertical rear connections supplied with the device	
Connection		Connection must be made ⁽²⁾	
Front connection	bar supports	2 x LVS04694 + LVS04678	
	cables cover	LVS04861	
Rear connection	bar supports	2 x LVS04694	
	cables cover	LVS04863	

⁽¹⁾ For downstream connection with copper.

For downstream prefabricated connection with Linergy LGYE, 1 additional module is required only for MTZ2 3200 A. Select downstream plain front plate (LVS03806).

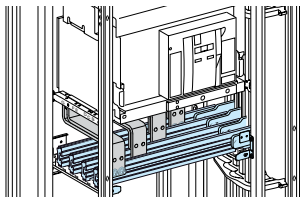
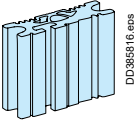
⁽²⁾ Connection to be made according to the busbar drawings supplied by Schneider Electric.

MasterPact MTZ2 08 to 32

Cables connection

Fixed, withdrawable

Circuit breakers

Distribution		Downstream on Linergy LGY, LGYE busbars					
							
Devices		Fixed and withdrawable MTZ2 08/16		Fixed and withdrawable MTZ2 20/25		Fixed and withdrawable MTZ2 32	
		3P	4P	3P	4P	3P	4P
Type of terminals		Front connections supplied with the device.					
	For vertical busbar Lineray LGY	Connection	LVS04493	LVS04494	must be made according to the busbar drawings supplied by Schneider Electric.		
		Joint	LVS04683	LVS04684	–		
		Free support	–	–	2 x LVS04662 For $I_{cw} \geq 75$ kA rms, add an additional free support LVS04662.		
		Cover	LVS04925 + LVS04928		LVS04926 + LVS04927		
	For vertical busbar Lineray LGYE ⁽¹⁾	Connection	–	–	LVS04495	LVS04496	LVS04497 ⁽²⁾
		Joint	–	–	3 x LVS04685	4 x LVS04685	3 x LVS04687
		Free support	2 x LVS04662 For $I_{cw} \geq 75$ kA rms, add an additional free support LVS04662.				
		Cover	LVS04925 + LVS04928				

⁽¹⁾ For LGYE 08/25, use a duct W = 150 mm. For LGYE 32, use a duct W = 300 mm.⁽²⁾ One additional module is required, select LVS03806 plain front plate for downstream.**Note:** To make measurements, install the CTs preferably upstream, on the supply terminal extension bars or install the CTs on the horizontal busbars (busbar connection). In this case, add one module and a plain front plate (LVS03801) or install a Micrologic control unit capable of displaying the values.

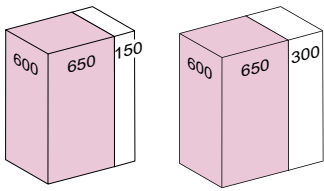
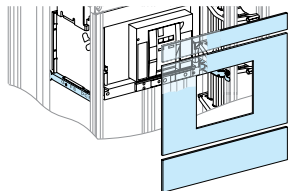
Selection of busbars: Linergy LGY > page E-83, Linergy LGYE > page E-84.

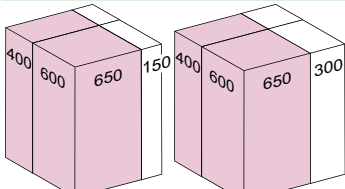
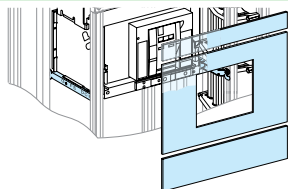
MasterPact MTZ2 08 to 32

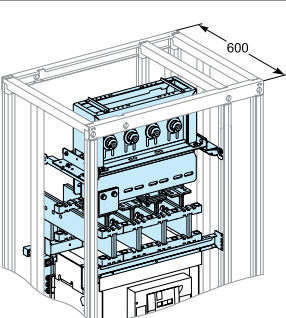
Canalis connection

Fixed, withdrawable

Circuit breakers

Mounting		Front connection			
					
Devices		Fixed device		Withdrawable device	
		MTZ2 08/16	MTZ2 20/32	MTZ2 08/16	MTZ2 20/32
Number of devices per row		1	1	1	1
No. of vertical modules ⁽¹⁾		27	28	27	28
Mounting plates		LVS03500	LVS03500	LVS03500	LVS03500
Front plates [No. of vertical modules]	upstream	LVS03805 [5] 2 x LVS03804 [8]	2 x LVS03805 [10] LVS03804 [4]	3 x LVS03804 [12]	LVS03805 [5] 2 x LVS03804 [8]
	with cut-out	LVS03711 [9]	LVS03711 [9]	LVS03710 [10]	LVS03710 [10]
	downstream	LVS03805 [5]	LVS03805 [5]	LVS03805 [5]	LVS03805 [5]

Mounting		Rear connection			
					
Devices		Fixed device		Withdrawable device	
		MTZ2 08/16	MTZ2 20/32	MTZ2 08/16	MTZ2 20/32
Number of devices per row		1	1	1	1
No. of vertical modules		16	16	17	17
Mounting plates		LVS03500	LVS03500	LVS03500	LVS03500
Front plates [No. of vertical modules]	upstream	LVS03804 [4] + LVS03803 [3]	LVS03804 [4] + LVS03803 [3]	LVS03804 [4] + LVS03803 [3]	LVS03804 [4] + LVS03803 [3]
	with cut-out	LVS03711 [9]	LVS03711 [9]	LVS03710 [10]	LVS03710 [10]

Connection		Upstream on incomer									
											
Devices		Fixed device				Withdrawable device					
		MTZ2 08/16	MTZ2 20/25	MTZ2 32		MTZ2 08/16	MTZ2 20/25	MTZ2 32			
Type of terminals		Vertical rear connections supplied with the device									
Canalis support		LVS03561									
Canalis interface ⁽²⁾		3P	4P	3P	4P	3P	4P	3P	4P	3P	4P
		LVS04715	LVS04716	LVS04725	LVS04726	LVS04735	LVS04736	LVS04715	LVS04716	LVS04725	LVS04726
Front connection	Bar supports	2 x LVS04694 + LVS04678									
	Extension bars	Connection must be made ⁽³⁾									
	Canalis Cover	LVS04871 + LVS04861									
Rear connection	Bar supports	2 x LVS04694									
	Extension bars	Connection must be made ⁽³⁾									
	Canalis Cover	LVS04871 + LVS04863									

(1) For downstream connection with copper.

For downstream prefabricated connection with Linergy LGYE, 1 additional module is required only for MTZ2 3200 A. Select downstream plain front plate (LVS03806).

(2) To tighten the screws of the Canalis interface, use the special tool 87808.

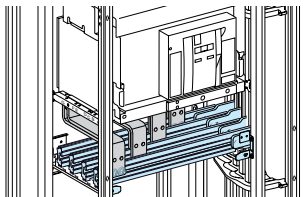
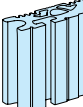
(3) Connection to be made according to the busbar drawings supplied by Schneider Electric.

MasterPact MTZ2 08 to 32

Canalis connection

Fixed, withdrawable

Circuit breakers

Distribution		Downstream on Linergy LGY, LGYE busbars					
							
Fixed / Withdrawable devices		MTZ2 08/16		MTZ2 20/25		MTZ2 32	
		3P	4P	3P	4P	3P	4P
Type of terminals		Front connections supplied with the device.					
	Connection	LVS04493	LVS04494	must be made according to the busbar drawings supplied by Schneider Electric.			
	Joint	LVS04683	LVS04684	—			
	Free support	—	—	2 x LVS04662 For $I_{cw} \geq 75$ kA rms, add an additional free support LVS04662.			
	Cover	LVS04925 + LVS04928		LVS04926 + LVS04927			
	Connection	—	—	LVS04495	LVS04496	LVS04497 ⁽²⁾	LVS04498 ⁽²⁾
	Joint	—	—	3 x LVS04685	4 x LVS04685	3 x LVS04687	4 x LVS04687
	Free support	2 x LVS04662 For $I_{cw} \geq 75$ kA rms, add an additional free support LVS04662.					
	Cover	LVS04925 + LVS04928					

(1) For LGYE 08/25, use a duct $W = 150$ mm. For LGYE 32, use a duct $W = 300$ mm.

(2) One additional module is required, select LVS03806 plain front plate for downstream.

Note: To make measurements, install the CTs preferably upstream, on the supply terminal extension bars or install the CTs on the horizontal busbars (busbar connection). In this case, add one module and a plain front plate (LVS03801) or install a Micrologic control unit capable of displaying the values.

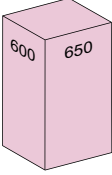
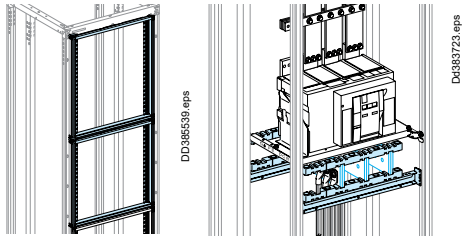
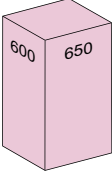
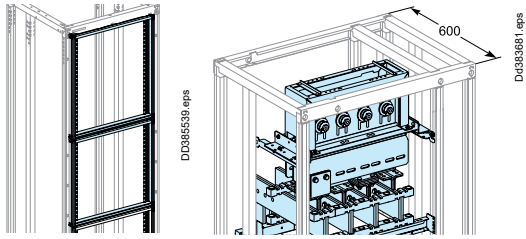
Selection of busbars: Linergy LGY > page E-83, Linergy LGYE > page E-84.

MasterPact MTZ2 08 to 32

Partial front plate support frames

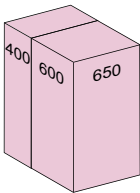
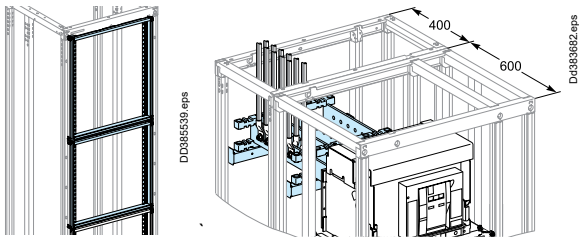
Withdrawable

Circuit breakers

Mounting		Front connection with cables in dedicated cubicle	
			
Devices		Withdrawable device	
		MTZ2 08/32	
No. of vertical modules		36 ⁽³⁾	
Mounting plates		LVS03500	
Front plates [No. of vertical modules]	upstream	2 x LVS03806 [12]	
	with cut-out	LVS03709 [10]	
	downstream	2 x LVS03806 [12]	
1/3 front plate support frame		LVS08560 ⁽¹⁾ + 2 x LVS08562 ⁽²⁾	
Cover		LVS04861	
Mounting		Canalis front connection	
			
Devices		Withdrawable device	
		MTZ2 08/16	MTZ2 20/32
No. of vertical modules		27 ⁽³⁾	28 ⁽³⁾
Mounting plates		LVS03500	LVS03500
Front plates [No. of vertical modules]	upstream	3 x LVS03804 [12]	2 x LVS03805 [10] + LVS03802 [2]
	with cut-out	LVS03709 [10]	LVS03710 [10]
	downstream	LVS03804 [4]	LVS03804 [4]
1/3 front plate support frame		LVS08560 ⁽¹⁾ + 2 x LVS08562 ⁽²⁾	LVS08560 ⁽¹⁾ + 2 x LVS08562 ⁽²⁾
Cover		LVS04861	LVS04861

MasterPact MTZ2 08 to 32
Partial front plate support frames
Withdrawable

Circuit breakers

Mounting		Rear connection with cables	
			
Devices		Withdrawable device	
		MTZ2 08/32	
No. of vertical modules		15 ⁽³⁾	
Mounting plates		LVS03500	
Front plates		-	
[No. of vertical modules]		LVS03709 [10]	
		LVS03804 [4]	
1/3 front plate support frame		LVS08560 ⁽¹⁾ + 2 x LVS08562 ⁽²⁾	

(1) 1/3 front plate support frame 10 modules.
(2) 1/3 front plate support frame 12 modules.
(3) Modularity includes the space of one module between each front plate support frame.

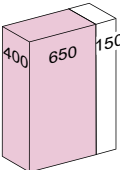
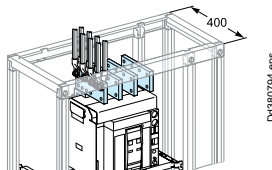
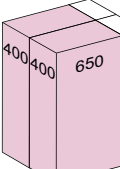
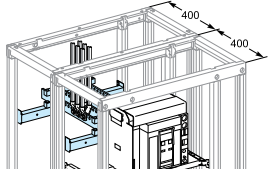


MasterPact MTZ1 06 to 16

Cables connection

Toggle, motor mechanism - Fixed, withdrawable

Circuit breakers

Mounting		Front connection with cables			
					
Devices		Fixed device		Withdrawable device	
		MTZ1 06/10	MTZ1 12/16	MTZ1 06/10	MTZ1 12/16
Number of devices per row		1	1	1	1
No. of vertical modules		12	14	13	15
Mounting plates		LVS03484	LVS03484	LVS03483	LVS03483
Front plates [No. of vertical modules]	upstream	LVS03802 [2]	LVS03804 [4]	LVS03802 [2]	LVS03804 [4]
	with cut-out	LVS03692 [7]	LVS03692 [7]	LVS03691 [8]	LVS03691 [8]
	downstream	LVS03803 [3]	LVS03803 [3]	LVS03803 [3]	LVS03803 [3]
Mounting		Rear connection with cables			
					
Devices		Fixed device		Withdrawable device	
		MTZ1 06/16		MTZ1 06/16	
Number of devices per row		1		1	
No. of vertical modules		11		11	
Mounting plates		LVS03484		LVS03483	
Front plates [No. of vertical modules]	upstream	LVS03801 [1]		—	
	with cut-out	LVS03692 [7]		LVS03691 [8]	
	downstream	LVS03803 [3]		LVS03803 [3]	
Connection		Upstream on incomer			
					
Devices		Fixed device		Withdrawable device	
		MTZ1 06/10	MTZ1 12/16	MTZ1 06/10	MTZ1 12/16
		3P	4P	3P	4P
Front connection	type of terminals	Front connections supplied with the device			
	vert. connection adapters	33642 (1)	33643 (1)	33642 (1)	33643 (1)
	cable-lug adapters	Direct	33644 (1) 33645 (1)	Direct	33644 (1) 33645 (1)
	spacing rods	—	LVS04691	—	LVS04691
	arc-chute cover	47335	47336	—	—
Rear connection	cables cover	LVS04852			
	type of terminals	Vertical rear connections supplied with the device			
	terminal extension bar	2 x LVS04693			
	support				
	cables cover	LVS04854			
extension bars		Connection must be made (2)			
Distribution		Downstream on Linergy LGY or LGYE busbars			
					
Devices		Fixed device		Withdrawable device	
		MTZ1 06/12	MTZ1 16	MTZ1 06/12	MTZ1 16
		3P	4P	3P	4P
Type of terminals		Front connections supplied with the device			
Prefabricated connection to busbars	Linerity LGY	LVS04475	LVS04476	LVS04477	LVS04478
	Linerity LGYE	Connection must be made (2)			
Cover for busbars connection		add free supports: 2 x LVS04662			

(1) Vertical connection adapters and cable-lug adapters and CT, are not compatible with input voltage ≥ 440 V due to mandatory barriers installation (LVS33648 or LVS33768)

(2) Connection to be made according to the busbar drawings supplied by Schneider Electric.

Note: To make measurements, install the CTs on the horizontal busbars (busbar connection); in this case, an additional module is required; add a plain front plate (LVS03801) or install a Micrologic control unit capable of displaying the values.

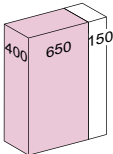
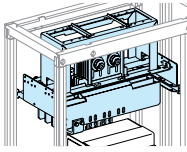
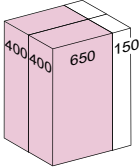
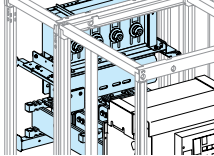
Selection of busbars: Linergy LGY > page E-83, Linergy LGYE > page E-84.

MasterPact MTZ1 06 to 16

Canalis connection

Toggle, motor mechanism - Fixed, withdrawable

Circuit breakers

Mounting		Canalis front connection							
									
Devices		Fixed device				Withdrawable device			
		MTZ1 06/12		MTZ1 16		MTZ1 06/12		MTZ1 16	
Number of devices per row		1		-		1		-	
No. of vertical modules		17		-		18		-	
Mounting plates		LVS03484		-		LVS03483		-	
Front plates [No. of vertical modules]	upstream	LVS03804 [4] + LVS03803 [3]		-		LVS03804 [4] + LVS03803 [3]		-	
	with cut-out	LVS03692 [7]		-		LVS03691 [8]		-	
	downstream	LVS03803 [3]		-		LVS03803 [3]		-	
Mounting		Canalis rear connection							
									
Devices		Fixed device				Withdrawable device			
		MTZ1 06/16				MTZ1 06/16			
Number of devices per row		1				1			
No. of vertical modules		16				16			
Mounting plates		LVS03484				LVS03483			
Front plates [No. of vertical modules]	upstream	LVS03806 [6]				LVS03805 [5]			
	with cut-out	LVS03692 [7]				LVS03691 [8]			
	downstream	LVS03803 [3]				LVS03803 [3]			
Connection		Upstream on incomer							
									
Devices		Fixed device				Withdrawable device			
		MTZ1 06/12		MTZ1 16		MTZ1 06/12		MTZ1 16	
		3P	4P	3P	4P	3P	4P	3P	4P
Canalis support		LVS03561				-			
Canalis interface ⁽¹⁾		LVS04703	LVS04704	LVS04703	LVS04704	LVS04703	LVS04704	LVS04703	LVS04704
Front connection	Type of terminals	Front connections supplied with the device							
	Canalis/device connection	LVS04711	LVS04712	-		LVS04711	LVS04712	-	
	Arc-chute cover	47335	47336	-		-	-	-	
	Canalis cover	LVS04871 + LVS04852		-		LVS04871 + LVS04852		-	
Rear connection	Type of terminals	Vertical rear connections supplied with the device							
	Terminal extension bar support	2 x LVS04693				-			
	Canalis/device connection	LVS04713	LVS04714	LVS04713	LVS04714	LVS04713	LVS04714	LVS04713	LVS04714
	Cable cover	LVS04871 + LVS04854							
Extension bars		Connection must be made ⁽²⁾							
Distribution		Downstream on Linergy LGY or LGYE busbars							
									
Devices		Fixed device				Withdrawable device			
		MTZ1 06/12		MTZ1 16		MTZ1 06/12		MTZ1 16	
		3P	4P	3P	4P	3P	4P	3P	4P
Type of terminals		Front connections supplied with the device							
Prefabricated connection to busbars	Linergy LGY	LVS04475	LVS04476	LVS04489	LVS04490	LVS04477	LVS04478	LVS04491	LVS04492
	Linergy LGYE	Connection must be made ⁽²⁾ add free supports: 2 x LVS04662							
Cover for busbars connection		LVS04926							

⁽¹⁾ To tighten the screws of the Canalis interface, use the special tool 87808.⁽²⁾ Connection to be made according to the busbar drawings supplied by Schneider Electric.**Note:** To make measurements, install the CTs on the horizontal busbars (busbar connection); in this case, an additional module is required; add a plain front plate (LVS03801) or install a Micrologic control unit capable of displaying the values.

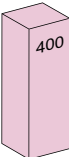
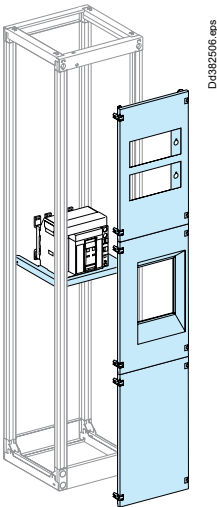
Selection of busbars: Linergy LGY > page E-83, Linergy LGYE > page E-84.

MasterPact MTZ1 06 to 16

Dedicated cubicle 3P - W = 400 mm

Fixed, withdrawable

Circuit breakers

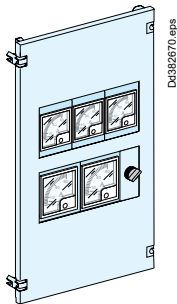
Mounting		
		
Devices	Fixed device	Withdrawable device
	MTZ1 06 to MTZ1 16	
Number of devices per cubicle	1	1
No. of vertical modules	37	37
Mounting plates	LVS03489	LVS03488
Front plates [No. of vertical modules]	with cut-out	LVS03698 [11]
	upstream ⁽¹⁾ cut-out for 72 x 72 or 96 x 96 mm	LVS03723 [13]
	or plain	LVS03722 [13]
	downstream ⁽¹⁾ plain	LVS03722 [13]

Measurement-device installation

Measurement devices are installed on a front plate (**LVS03723**) using plastic mounting plates with cut-outs.

The front plate can hold:

- Six 72 x 72 mm cases
- or,
- Four 96 x 96 mm cases + 2 switches.

Number and type of devices per row	Metal front plate with cut-out	No. of vertical modules	Plastic mounting plates with cut-out	Blanking plate or device support
Mounting on interface with plastic mounting plates				
3 x 72 x 72 Vigirex and other devices 72 x 72 without switch	 D4382670 eps	13	 D0385465 eps	 D0385466 eps To blank-off or install: - from 1 to 4 buttons Ø 16 or 22 mm - 1 device 45 x 45
2 x or 1 x 96 x 96 (2) Power Meter and others devices 96 x 96			LVS03902	LVS03900
For PM200, 200P, PM5 and PM8 series meters			 D0385467 eps	 D0385468 eps To blank-off or install: - 1 to 4 buttons Ø 16 or 22 mm - 1 device 45 x 45 - 1 device 72 x 72
	LVS03723		LVS03903	LVS03901
Characteristics	■ Installation of three devices (72 x 72 mm cases) using plastic mounting plates (LVS03902) and two devices (96 x 96 mm cases) + a switch using plastic mounting plates (LVS03903) on a hinged front plate (LVS03723). ■ The plain mounting plates have knock-outs for lamps, pushbuttons, switches or devices. Knock-outs for LVS03900: 4 Ø 16 mm, 5 Ø 22 mm or one for a 45 x 45 mm device. Knock-outs for LVS03901: 4 Ø 16 mm, 5 Ø 22 mm or one for a 45 x 45 or 72 x 72 mm device.			

(1) Hinged or reversible (left or right-hand opening) front plates connect directly to the framework, without a front-plate support frame.

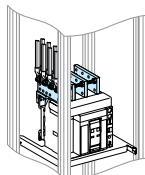
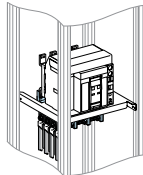
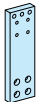
(2) For PM200, 200P, PM5 and PM8 series meters, use 1 no. blank-off sheet with each meter in a row.

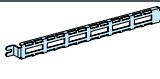
MasterPact MTZ1 06 to 16

Dedicated cubicle 3P - W = 400 mm

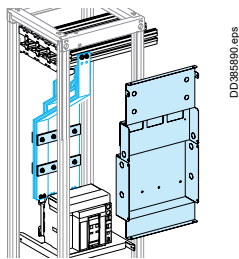
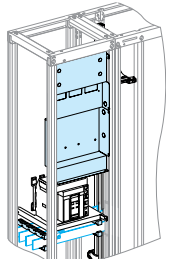
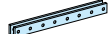
Fixed, withdrawable

Circuit breakers

Connection	Upstream on incomer	
	 Dd382672_1 eps	 Dd382689 eps
Devices	Fixed device	Withdrawable device
	MTZ1 06 to MTZ1 16	
Type of terminals 	Front connection	Front connection
Arc-chute cover 	47335	—
Vert. conn. adapters	33642 ⁽¹⁾	33642 ⁽¹⁾
Cable-lug adapters	33644 ⁽¹⁾	33644 ⁽¹⁾
Spacing rods 	LVS04691	LVS04691

Accessories		
	 Dd382513 eps	 Dd382514 eps
4 cable tie supports for framework	W = 400 LVS08774	D = 400 LVS08794
		D = 600 LVS08794 + LVS08796

⁽¹⁾ Vertical connection adapters and cable-lug adapters are not compatible with input voltage ≥ 500 V.

Distribution	Downstream on horizontal busbars Linery LGYE	Downstream on vertical busbars Linery LGY
	 DD3845890 eps	 DD3833814 eps
Fixed / Withdrawable devices	MTZ1 06 to MTZ1 16	MTZ1 06 to MTZ1 16
Type of terminals 	Front connection	Front connection
Support 	2 x LVS04692 For MTZ1 H1 and H2 3 x LVS04692 For MTZ1 H3	LVS04662
Barrier ⁽¹⁾ 	LVS04855	LVS04855
Horizontal-busbar connections 10 mm thickness bars	Connection must be made ⁽²⁾	—
Vertical-busbar connections	—	Connection must be made ⁽²⁾
Free support	—	LVS04662

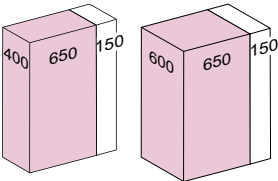
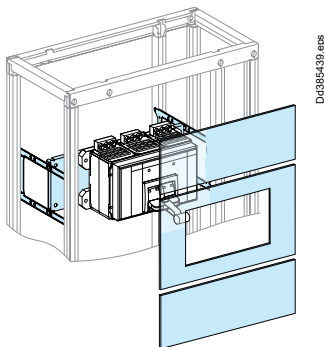
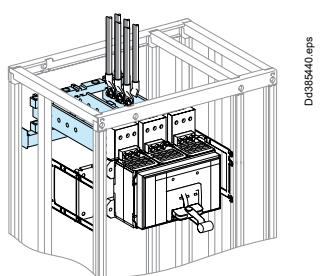
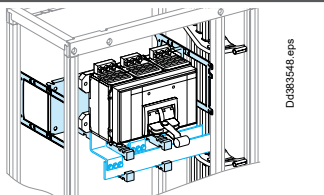
⁽¹⁾ A barrier must be installed behind front plate **LVS03723** when measurement devices are installed.⁽²⁾ Connection to be made according to the busbar drawings supplied by Schneider Electric.⁽³⁾ Catalog number **LVS04636** includes 1 connection only. Order 1 connection per phase.

ComPacT NS1600b to 3200 (only for feeder cubicles)

Cables connection

Fixed

Circuit breakers

Mounting		Front connection		
 NS1600bNS2000/3200				
Devices		Fixed device		
		NS1600b	NS2000/3200	
Number of devices per row		1	1	
No. of vertical modules		14	16	
Mounting plates		LVS03501	LVS03501	
Front plates [No. of vertical modules]	upstream	LVS03802 [2]	LVS03802 [2]	
	with cut-out	LVS03716 [8]	LVS03716 [8]	
	downstream	LVS03804 [4]	LVS03806 [6]	
Connection		Upstream on incomer		
				
Fixed devices		NS1600b/2500	NS3200	
Type of terminals		Front connections supplied with the device		
Vertical-connection adapters	3P	33975	33975	
	4P	33976	33976	
Terminal extension bar support		LVS04694		
Extension bars		Connection must be made ⁽¹⁾		
Distribution		Downstream on Linergy LGY or LGYE busbars		
				
Fixed devices		NS1600b	NS2000/2500	NS3200
Type of terminals		Front connections supplied with the device		
Busbars connection		Connection must be made ⁽¹⁾ ⁽²⁾		
Free support for busbars connection		2 x LVS04662		
Cover for busbars connection		LVS04926	LVS04926	LVS04926
Additional cover		—	LVS04927	LVS04927

(1) Connection to be made according to the busbar drawings supplied by Schneider Electric. LGYE: +17.5 mm than BS.

(2) For the connection to flat busbars > 1600 A, order one joint per phase:

■ 1 joint for busbars, W = 50/60 mm (LVS04640)

■ 1 joint for busbars, W = 80/100 mm (LVS04641)

Note: To make measurements:

■ Install the CTs on the horizontal busbars (busbar connection); in this case, an additional module is required; add a plain front plate (LVS03801)

■ Or install a Micrologic control unit capable of displaying the values.

Selection of busbars: Linergy LGY > page E-83, Linergy LGYE > page E-84.

ComPacT NS630b to NS1600

Cables connection

Toggle, rotary handle, motor mechanism - Fixed, withdrawable

Circuit breakers

Mounting		Front connection with cables			
Devices		Fixed device		Withdrawable device	
		NS630b/1000	NS1250/1600	NS630b/1000	NS1250/1600
Number of devices per row		1	1	1	1
No. of vertical modules		12	14	13	15
Mounting plates		LVS03482	LVS03482	LVS03483	LVS03483
Front plates [No. of vertical modules]	upstream	LVS03802 [2]	LVS03804 [4]	LVS03802 [2]	LVS03804 [4]
	with cut-out	LVS03690 or LVS03701 (1) [7]		LVS03691 [8]	LVS03691 [8]
	downstream	LVS03803 [3]	LVS03803 [3]	LVS03803 [3]	LVS03803 [3]
Mounting		Rear connection with cables			
Devices		Fixed device		Withdrawable device	
		NS630b/1600		NS630b/1600	
Number of devices per row		1		1	
No. of vertical modules		10		11	
Mounting plates		LVS03482		LVS03483	
Front plates [No. of vertical modules]	with cut-out	LVS03690 or LVS03701 (1) [7]		LVS03691 [8]	
	downstream	LVS03803 [3]		LVS03803 [3]	
Connection		Upstream on incomer			
Devices		Fixed device		Withdrawable device	
		NS630b/1000	NS1250/1600	NS630b/1000	NS1250/1600
		3P	4P	3P	4P
Front connection	Type of terminals	Front connections supplied with the device			
	Vertical connection adapters	33642 (3)	33643 (3)	33642 (3)	33643 (3)
	Cable-lug adapters	Direct	33644 (3)	Direct	33644 (3)
	Spacing rods	—	LVS04691 (3)	—	LVS04691 (3)
	Arc-chute cover	33596	33597	—	—
Rear connection	Cables cover	LVS04851		LVS04852	
	Type of terminals	Vertical rear connections supplied with the device			
	Terminal extension bar support	2 x LVS04693			
	Cables cover	LVS04853		LVS04854	
	Extension bars	Connection must be made (2)			
Connection		Downstream distribution via Linergy LGY or LGYE busbars			
Devices		Fixed device		Withdrawable device	
		NS630b/1250	NS1600	NS630b/1250	NS1600
		3P	4P	3P	4P
Type of terminals		Front connections supplied with the device			
Busbars connection		For Linergy LGY busbars: prefabricated connection			
		LVS04485	LVS04486	LVS04477	LVS04478
		LVS04487	LVS04488	LVS04491	LVS04492
		For Linergy LGYE busbars: Connection must be made (2).			
Free support for busbars connection		For Linergy LGYE busbars: 2 x LVS04662			
Cover for busbars connection		LVS04926			

(1) For devices with toggle or rotary handle Catalog number LVS03690, with a motor mechanism Catalog number LVS03701.

(2) Connection to be made according to the busbar drawings supplied by Schneider Electric.

(3) Vertical connection adaptaters and cable-lug adapters and CT, are not compatible with input voltage ≥ 500 V due to mandatory barriers installation (33648 or 33768).

Note: To make measurements:

■ Install a Micrologic control unit capable of displaying the values.

■ Or install the CTs on the horizontal busbars; in this case, an additional module is required; add a plain front plate downstream (LVS03801).

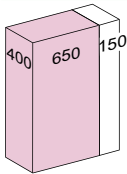
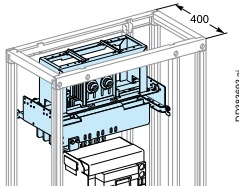
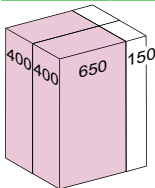
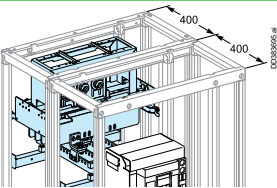
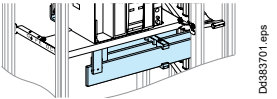
Selection of busbars: Linergy LGY > page E-83, Linergy LGYE > page E-84.

ComPacT NS630b to 1600

Canalis connection

Toggle, rotary handle, motor mechanism - Fixed, withdrawable

Circuit breakers

Mounting		Canalis front connection			
					
Devices		Fixed device		Withdrawable device	
		NS630b/1250	NS1600	NS630b/1250	NS1600
Number of devices per row		1	—	1	—
No. of vertical modules		17	—	18	—
Mounting plates		LVS03482	—	LVS03483	—
Front plates [No. of vertical modules]	upstream	LVS03804 [4] + LVS03803 [3]	—	LVS03804 [4] + LVS03803 [3]	—
	with cut-out	LVS03690 or LVS03701 ⁽¹⁾ [7]	—	LVS03691 [8]	—
	downstream	LVS03803 [3]	—	LVS03803 [3]	—
Mounting		Canalis rear connection			
					
Devices		Fixed device		Withdrawable device	
		NS630b/1600		NS630b/1600	
Number of devices per row		1		1	
No. of vertical modules		16		16	
Mounting plates		LVS03482		LVS03483	
Front plates [No. of vertical modules]	upstream	LVS03806 [6]		LVS03805 [5]	
	with cut-out	LVS03690 or LVS03701 ⁽¹⁾ [7]		LVS03691 [8]	
	downstream	LVS03803 [3]		LVS03803 [3]	
Connection		Upstream on incomer			
Devices		Fixed device		Withdrawable device	
		NS630b/1600		NS630b/1600	
Canalis support		3P	4P	3P	4P
Canalis interface ⁽²⁾		LVS03561	—	—	—
Canalis interface ⁽²⁾		LVS04703	LVS04704	LVS04703	LVS04704
Front connection		Front connections supplied with the device			
Type of terminals	Canalis/device	LVS04711	LVS04712	LVS04711	LVS04712
	Arc-chute cover	33596	33597	—	—
	Canalis cover	LVS04871 + LVS04851		LVS04871 + LVS04852	
Rear connection		Vertical rear connections supplied with the device			
Type of terminals	Terminal extension bar support	2 x LVS04693			
	Extension bars	Connection must be made ⁽³⁾			
	Canalis/device connection	—	—	LVS04713	LVS04714
Canalis cover		LVS04871 + LVS04854		LVS04871 + LVS04854	
Connection		Downstream distribution via Linergy LGY or LGYE busbars			
					
Devices		Fixed device		Withdrawable device	
		NS630b/1250	NS1600	NS630b/1250	NS1600
Type of terminals		3P	4P	3P	4P
Busbars connection		Front connections supplied with the device			
		For Linergy LGY busbars: prefabricated connection			
		LVS04485	LVS04486	LVS04487	LVS04488
		LVS04477	LVS04478	LVS04491	LVS04492
		Can be reversed for upstream supply			
		For Linergy LGYE busbars: Connection must be made ⁽³⁾			
Free support for busbars connection		For Linergy LGYE busbars: 2 x LVS04662			
Cover for busbars connection		LVS04926			

⁽¹⁾ For devices with toggle or rotary handle catalog number LVS03690, with a motor mechanism Catalog number LVS03701.⁽²⁾ To tighten the screws of the Canalis interface, use the special tool 87808.⁽³⁾ Connection to be made according to the busbar drawings supplied by Schneider Electric.**Note:** To make measurements:

■ Install a Micrologic control unit capable of displaying the values.

■ Or install the CTs on the horizontal busbars; in this case, an additional module is required; add a plain front plate downstream (LVS03801).

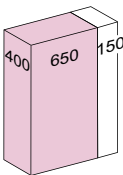
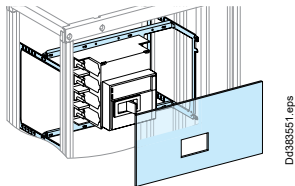
Selection of busbars: Linergy LGY > page E-83, Linergy LGYE > page E-84.

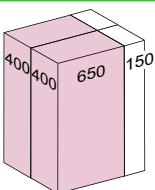
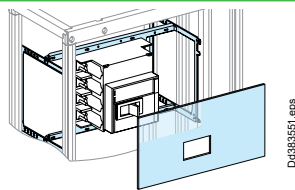
ComPacT NS630b to 1000

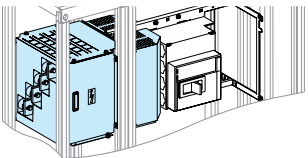
Horizontal mounting

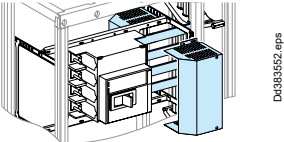
Toggle, rotary handle - Fixed

Circuit breakers

Mounting	Front connection
	
Devices	Fixed device NS630b/1000
Number of devices per row	1
No. of vertical modules	7 ⁽¹⁾
Mounting plates	LVS03480
Front plates with cut-outs	LVS03687

Mounting	Rear connection
	
Devices	Fixed device NS630b/1000
Number of devices per row	1
No. of vertical modules	7 ⁽¹⁾
Mounting plates	LVS03480
Front plates with cut-outs	LVS03687

Connection	Upstream on incomer
	
Fixed devices	NS630b/1000 3P 4P
Type of terminals front connection	Front connections supplied with the device
rear connection	Vertical rear connections supplied with the device
Connection transfert assembly for front connection	LVS04483 LVS04484 If cubicle w300 mm then 3x300 mm ² , if cubicle w400 mm then 4x300 mm ² , same concept for 185 mm ² . Three 300 mm ² or six 185 mm ² cables can be connected per phase with lugs that are not of the two-metal type.
Cover rear connection	—

Connection	Downstream via Linergy LGY or LGYE busbars
	
Fixed devices	NS630b/1000 3P 4P
Type of terminals	Front connections supplied with the device
Busbars connection	For Linergy LGY busbars: prefabricated connection LVS04473 LVS04474 Connection must be made. For Linergy LGYE busbars (> page E-85)
Cover for busbars connection	LVS04842
Arc-chute cover	33596 33597

(1) Mounting of LVS03480 + connection transfert assembly LVS04483 or LVS04484 needs 8 vertical modules (use of one complementary front plate 1 module LVS03801) at the bottom of the functional unit.

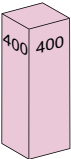
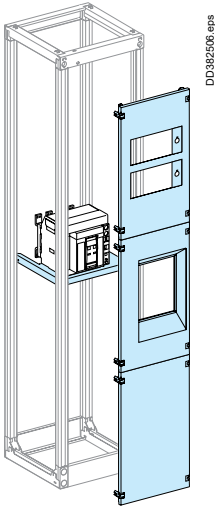
Selection of busbars: Linergy LGY > page E-83, Linergy LGYE > page E-84.

ComPacT NS630b to 1600

Dedicated cubicle - W = 400 mm

Fixed, withdrawable

Circuit breakers

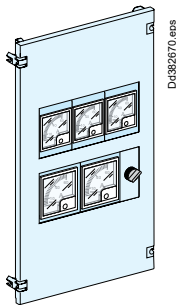
Mounting		Toggle, rotary handle and motor mechanism	
			
Devices		Fixed device	Withdrawable device
		NS630b/1600 3/4P	NS630b/1600 3P
Number of devices per cubicle		1	1
No. of vertical modules		37	37
Mounting plates		LVS03487	LVS03488
Front plates [No. of vertical modules]	with cut-out	LVS03697 [11]	LVS03699 [11]
	upstream ⁽¹⁾ with cut-out for 72 x 72 or 96 x 96 mm meters	LVS03723 [13]	LVS03723 [13]
	or plain	LVS03722 [13]	LVS03722 [13]
	downstream ⁽¹⁾ plain	LVS03722 [13]	LVS03722 [13]

Measurement-device installation

Measurement devices are installed on a front plate (**LVS03723**) using plastic mounting plates with cut-outs.

The front plate can hold:

- Six 72 x 72 mm cases
- or,
- Four 96 x 96 mm cases + 2 switches.

Number and type of devices per row	Metal front plate with cut-out	No. of vertical modules	Plastic mounting plates with cut-out	Blanking plate or device support
Mounting on an interface with plastic mounting plates				
3 x 72 x 72 Vigirex and other devices 72 x 72 without switch		13		
2 x 96 x 96 Power Meter and other devices 96 x 96 with switch				
			LVS03902	LVS03900
	LVS03723		LVS03903	LVS03901
Characteristics	■ Installation of three devices (72 x 72 mm cases) using plastic mounting plates (LVS03902) and two devices (96 x 96 mm cases) + a switch using plastic mounting plates (LVS03903) on a hinged front plate (LVS03723). ■ The plain mounting plates have knock-outs for lamps, pushbuttons, switches or devices. Knock-outs for LVS03900: 4 Ø 16 mm, 5 Ø 22 mm or one for a 45 x 45 mm device. Knock-outs for LVS03901: 4 Ø 16 mm, 5 Ø 22 mm or one for a 45 x 45 or 72 x 72 mm device.			

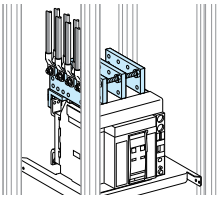
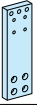
(1) Hinged or reversible (left or right-hand opening) front plates connect directly to the framework, without a front-plate support frame.

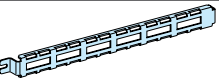
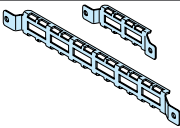
ComPacT NS630b to 1600

Dedicated cubicle - W = 400 mm

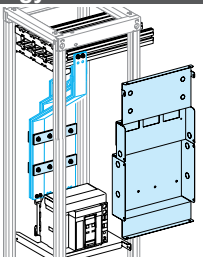
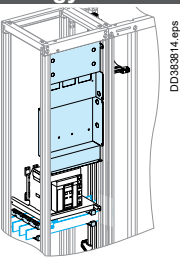
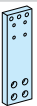
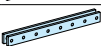
Fixed, withdrawable

Circuit breakers

Connection	Upstream on incomer		
	 Dd382872.ai		
Devices	Fixed device		Withdrawable device
	NS630b/1600		
	3P	4P	3P
Type of terminals 	Front connection		Front connection
Arc-chute cover 	33596	33597	—
Vert. conn. adapters	33642 ⁽¹⁾	33643 ⁽¹⁾	33642 ⁽¹⁾
Cable-lug adapters	33644 ⁽¹⁾	33645 ⁽¹⁾	33644 ⁽¹⁾
Spacing rods 	LVS04691		LVS04691

Accessories			
	 Dd382513.eps	 Dd382514.eps	
	W = 400	D = 400	D = 600
4 cable tie supports for framework	LVS08774	LVS08794	LVS08794 + LVS08796

⁽¹⁾ Vertical connection adapters and cable-lug adapters are not compatible with input voltage ≥ 500 V.

Distribution	Connection to horizontal busbars Linery LGYE		Connection to vertical busbars Linery LGY	
	 Dd383890.eps		 Dd383814.eps	
Devices	Fixed	Withdrawable	Fixed	Withdrawable
	NS630b/1600 3P/4P	NS630b/1600 3P	NS630b/1600 3P/4P	NS630b/1600 3P
Type of terminals 	Front connection	Front connection	Front connection	Front connection
Support 	2 x LVS04692	2 x LVS04692	—	—
Barrier ⁽¹⁾ 	LVS04855	LVS04855	LVS04855	LVS04855
Horizontal-busbar connections 50/60/80	Connection must be made ⁽²⁾	—	—	—
Vertical-busbar connections	—	—	Connection must be made ⁽²⁾	—
Free support	—	—	LVS04662	—

⁽¹⁾ A barrier must be installed behind front plate **LVS03723** when measurement devices are installed.⁽²⁾ Connection to be made according to the busbar drawings supplied by Schneider Electric.⁽³⁾ Catalog number **LVS04636** includes 1 connection only. Order 1 connection per phase.

Connection device/horizontal busbar to make by customer.

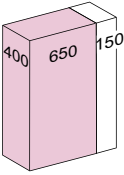
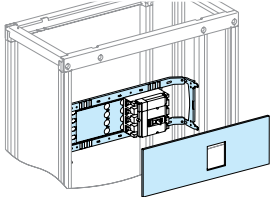
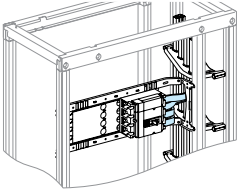
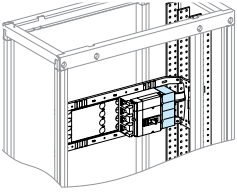
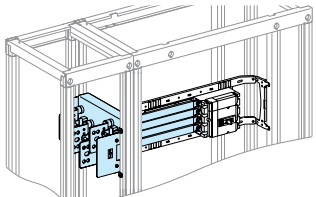
Busbar selection Linergy LGYE or LGY: > page E-82 and page E-83.

ComPacT NSX 100 to 630

Horizontal mounting

Toggle - Fixed

Circuit breakers

Mounting		Horizontal fixed			
					
Devices		Toggle			
		NSX ⁽¹⁾ 100/160/250		NSX ⁽¹⁾ 400/630	
		3P	4P	3P	4P
Number of devices per row		1	1	1	1
PowerTag NSX compatibility					
No. of vertical modules		3	4	4	5
Mounting plates		LVS03411	LVS03412	LVS03451	LVS03452
Front plates with cut-out		LVS03604 ⁽²⁾	LVS03606 ⁽²⁾	LVS03643	LVS03644
Connection		Upstream from lateral busbars			
Fixed devices		NSX 100/160/250		NSX 400/630	
		3P	4P	3P	4P
Linerity LGY					
					
Prefabricated connection		LVS04423 ⁽⁴⁾	LVS04424 ⁽⁴⁾	LVS04453	LVS04454
Linerity LGYE					
					
Connection		Connection must be made ⁽³⁾			
Long terminal shields		LV429517	LV429518	LV432593	LV432594
Connection		Downstream distribution			
					
Fixed devices		NSX 100/250		NSX 400/630	
		3P	4P	3P	4P
Front connection	long terminal shields	LV429517	LV429518	LV432593	LV432594
	connection	LVS04425	LVS04426	LVS04455	LVS04456
	connection with PowerTag NSX	LVS04425	LVS04426	LVS04459 ⁽⁵⁾	LVS04460 ⁽⁵⁾
	long terminal shields	—	—	—	—
Rear connection	short terminal shields	LV429515 ⁽⁴⁾	LV429516 ⁽⁴⁾	LV432591 ⁽⁴⁾	LV432592 ⁽⁴⁾
	short rear connectors	LV429235		LV432475	
	long rear connectors	LV429236		LV432476	

(1) Metering and signaling features (ammeter...) can be added. Mounted on a ComPacT NSX, it has the same size than a ComPacT Vigi NSX. Refer to the corresponding column.

(2) Compatible with FDM121.

(3) Connections must be made with insulated flexible bars > page E-92.

(4) Compatible with Linergy LGYE vertical busbar.

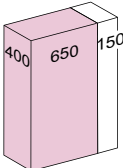
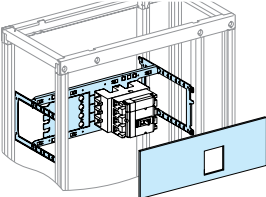
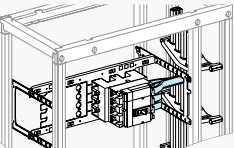
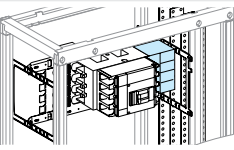
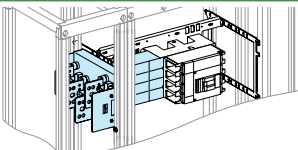
(5) Complete the connection with insulated flexible bars (not supplied).

ComPacT NSX 100 to 630

Horizontal mounting

Toggle - Plug-in

Circuit breakers

Mounting		Horizontal plug-in			
					
Devices		Toggle			
		NSX ⁽¹⁾ 100/160/250		NSX ⁽¹⁾ 400/630	
		3P	4P	3P	4P
Number of devices per row		1	1	1	1
No. of vertical modules		3	4	4	5
Mounting plates		LVS03413	LVS03414	LVS03453	LVS03454
Front plates		with cut-out LVS03604 ⁽²⁾	LVS03606 ⁽²⁾	LVS03643	LVS03644
Connection		Upstream from lateral busbars			
Plug-in devices		NSX 100/160/250		NSX 400/630	
		3P	4P	3P	4P
Linergy LGY					
					
Prefabricated connection		LVS04431 ⁽³⁾	LVS04432 ⁽³⁾	LVS04461	LVS04462
Short terminal shields on device		LV429515	LV429516	LV432591	LV432592
Linergy LGE					
					
Connection		Connection must be made with insulated flexible bars > page E-92.			
Connection adapter for plug-in base		LV429306	LV429307	LV432584	LV432585
Long terminal shields on plug-in base		LV429517	LV429518	LV432593	LV432594
Short terminal shields on device		LV429515	LV429516	LV432591	LV432592
Connection		Downstream distribution			
					
Plug-in devices		NSX 100/160/250		NSX 400/630	
		3P	4P	3P	4P
Front connection	connection adapter for plug-in base	LV429306	LV429307	LV432584	LV432585
	short terminal shields on device	LV429515	LV429516	LV432591	LV432592
	long terminal shields on plug-in base	LV429517	LV429518	LV432593	LV432594
Connection transfer assembly	connection	LVS04429 ⁽⁴⁾	LVS04430 ⁽⁴⁾	LVS04459 ⁽⁴⁾	LVS04460 ⁽⁴⁾
	connection adapter for plug-in base	LV429306	LV429307	LV432584	LV432585
	short terminal shields	LV429515	LV429516	LV432591	LV432592
Rear connection	long terminal shields	LV429517	LV429518	LV432593	LV432594
	short terminal shields	2 x LV429515	2 x LV429516	2 x LV432591	2 x LV432592
	short rear connectors	LV429235	LV429235	LV432475	LV432475
	long rear connectors	LV429236	LV429236	LV432476	LV432476
connection adapter for plug-in base		LV429306	LV429307	LV432584	LV432585

(1) Metering and signaling features (ammeter...) can be added. Mounted on a ComPacT NSX, it has the same size than a ComPacT Vigi NSX. Refer to the corresponding column.

(2) Compatible with FDM121.

(3) Compatible with Linergy LGE vertical busbar.

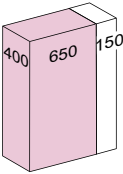
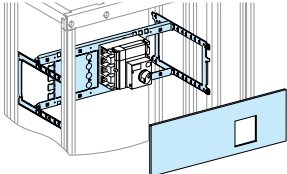
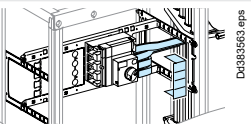
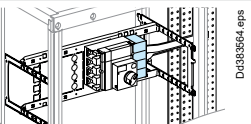
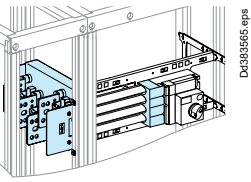
(4) Complete the connection with insulated flexible bars (not supplied).

ComPacT NSX 100 to 630

Horizontal mounting

Rotary handle - Fixed

Circuit breakers

Mounting		Horizontal Fixed			
					
Devices		Rotary handle			
		NSX ⁽¹⁾ 100/160/250		NSX ⁽¹⁾ 400/630 rotary handle	
		3P	4P	3P	4P
Number of devices per row		1	1	1	1
PowerTag NSX compatibility		↯	↯	↯	↯
No. of vertical modules		3	4	4	5
Mounting plates		LVS03413	LVS03414	LVS03453	LVS03454
Fixing kit for control support		—	—	—	—
Front plates with cut-out		LVS03604 ⁽²⁾	LVS03606 ⁽²⁾	LVS03643	LVS03644
Collar		—	—	—	—
Connection		Upstream from lateral busbars			
Fixed devices		NSX 100/160/250		NSX 400/630	
Lineray LGY		3P	4P	3P	4P
					
Connection		LVS04427 ⁽³⁾	LVS04428 ⁽³⁾	Connection must be made with insulated flexible bars > page E-92 ⁽⁴⁾ .	
Long terminal shields		—	—	LV432593	LV432594
Lineray LGYE					
					
Connection		Connection must be made with insulated flexible bars > page E-92			
Long terminal shields		LV429517	LV429518	LV432593	LV432594
Connection		Downstream distribution			
					
Fixed devices		NSX			
		100/160/250		400/630	
		3P	4P	3P	4P
Front connection long terminal shields		LV429517	LV429518	LV432593	LV432594
Connection transfer assembly connection with or without PowerTag NSX long terminal shields		LVS04429 ⁽⁵⁾	LVS04430 ⁽⁵⁾	LVS04459 ⁽⁵⁾	LVS04460 ⁽⁵⁾
Rear connection short terminal shields		LV429515	LV429516	LV432591	LV432592
short rear connectors		LV429235	—	LV432475	—
long rear connectors		LV429236	—	LV432476	—

(1) Metering and signaling features (ammeter...) can be added. Mounted on a ComPacT NSX, it has the same size than a ComPacT Vigi NSX. Refer to the corresponding column.

(2) Compatible with FDM121.

(3) Compatible with Linergy LGYE vertical busbar.

(4) To be made according to the busbar drawings supplied by Schneider Electric.

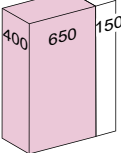
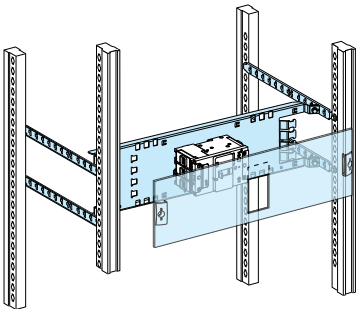
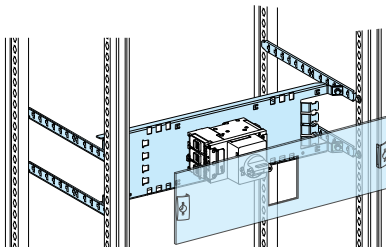
(5) Complete the connection with insulated flexible bars (not supplied).

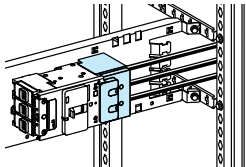
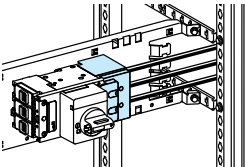
ComPacT NSXm up to 160

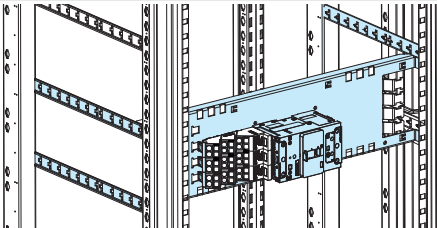
Horizontal mounting

Toggle, rotary handle - Fixed

Circuit breakers

Mounting		Horizontal fixed	
			
Devices		Toggle	Direct rotary handle
	NSXm	NSXm	NSXm
Number of devices per row	1 x 3P or 4P	1 x 3P or 4P	1 x 3P or 4P
No. of vertical modules	3	3	3
Mounting plates	LVS03409	LVS03409	LVS03409
Front plates with cut-out [No. of vertical modules]	LVS03330 [3]	LVS03330 [3]	LVS03331 [3]

Connection		Upstream from lateral Linergy LGY, LGYE busbars	
			
Devices		Toggle	Direct rotary handle
	NSXm, NSXm Vigi (ELCB)	NSXm	
	3P4P	3P	4P
Connection	Connections must be made	Connections must be made	
Long terminal shields	LV426912LV426913	LV426912	LV426913

Connection		Linergy DP distribution block	
			
Busbars / Distribution block		LVS04038, LVS04039 > page E-86.	
Prefabricated connection		-	

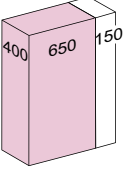
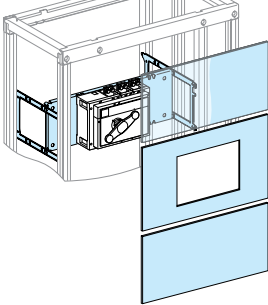
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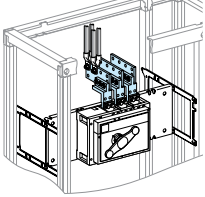
ComPacT INS-INV630b to 1600 (only for feeder cubicles)

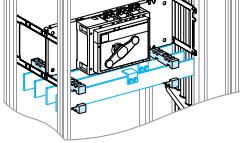
ComPacT INS-INV2000-2500 (only for feeder cubicles)

Vertical fixed mounting

Switch-disconnectors

Mounting		Vertical fixed	
			
Devices		Fixed device	
		INS-INV630b/1600	INS-INV2000/2500
		3P	3P
		4P	4P
Number of devices per row		1	1
No. of vertical modules		14	16
Mounting plates		LVS03501	LVS03501
Front plates [No. of vertical modules]	upstream	LVS03804 [4]	LVS03803 [3]
	with cut-out	LVS03713 [6]	LVS03715 [10]
	downstream	LVS03804 [4]	LVS03803 [3]
Characteristics		Depending on the type of front connection, an INS-INV2000-2500 can be mounted in a 400 mm or 600 mm deep enclosure. For rear connection, a 600 mm deep enclosure is required.	

Connection		Upstream on incomer	
			
Fixed device		INS-INV630b/1600	INS-INV2000/2500
		3P	3P
		4P	4P
Vertical connection adapters		31301 ⁽¹⁾	3 x 31310
Cable-lug adapters		33644 ⁽¹⁾	4 x 31310
Connection		—	Connection must be made
Terminal extension bar support		—	LVS04694

Connection		Downstream distribution via Linergy LGY or LGYE busbars	
			
Fixed device		INS-INV630b/1600	INS-INV2000/2500
		3P	3P
		4P	4P
Connection LGY		LVS04481	—
Connection BS, LGYE		Connection must be made ⁽³⁾	Connection must be made ⁽³⁾
Cover for busbars connection		LVS04926 ⁽²⁾	LVS04926 ⁽²⁾
Free support		—	2 x LVS04662

(1) Vertical connection adapters and cable-lug adapters are not compatible with input voltage ≥ 500 V.

(2) Partitioning of devices must be made.

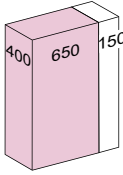
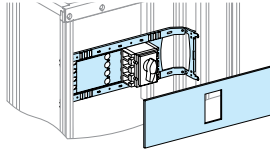
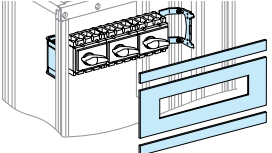
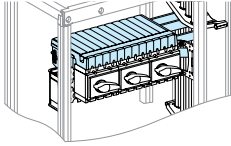
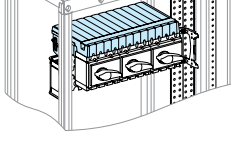
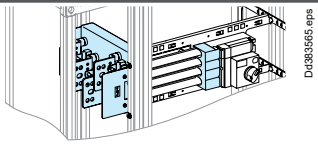
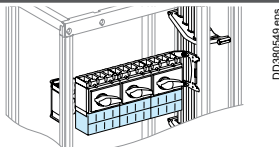
(3) Connection to be made according to the busbar drawings supplied by Schneider Electric.

Selection of busbars: Linergy LGY > page E-83, Linergy LGYE > page E-84.

ComPacT INS-INV250 to 630 (only for feeder cubicles)

Horizontal / Vertical fixed mounting

Switch-disconnectors

Mounting	Horizontal fixed		Vertical fixed	
				
Devices	Fixed device			
	INS-INV250	INS-INV320/630	INS-INV250	INS-INV320/400
Number of devices per row	1	1	1	1
PowerTag NSX compatibility	~	~	~	~
No. of vertical modules	4	5	7 or 8 ⁽¹⁾	10 or 12
Mounting plates	LVS03412	LVS03452	LVS03420	LVS03461
Front plates upstream	—	—	LVS03801 ^[1]	—
Front plates with cut-out	LVS03617 ^[4]	LVS03658 ^[5]	LVS03248 ^[5]	LVS03274 ^[10]
Front plates downstream	—	—	LVS03801 ^[1]	—
Front plates downstream with PowerTag NSX	—	—	LVS03802 ^[2]	LVS03802 ^[2]
Connection				
Upstream via lateral busbars				
Fixed device	INS-INV250	INS-INV320/630	INS-INV250	INS-INV320/630
	3P	4P		
Linergy LGY				
Prefabricated connection	LVS04427 ⁽²⁾	LVS04428 ⁽²⁾	Connection must be made ⁽³⁾	Connection must be made ⁽³⁾
Distribution block Linergy FC	—	—	LVS04404	—
Long terminal shields	—	LV432594	—	LV432594
Linergy LGYE				
Connection	Connection must be made ⁽³⁾		—	—
Linergy FC distribution blocks (without connection)	—	—	LVS04408	Connection must be made
Long terminal shields	LV429518	LV432594	—	LV432594
Accessories				
Linergy FC tooth-caps	—	—	LVS04809	—
Connection				
Downstream distribution				
				
Fixed device	INS-INV250	INS-INV320/630	INS-INV250	INS-INV320/630
Front connection long terminal shields	LV429518	LV432594	LV429518	LV432594
Connection transfer assembly	—	LVS04460 ⁽⁵⁾	—	—
Rear connection ⁽⁴⁾ short terminal shields	LV432516	LV432592	LV432516	LV432592
short rear connectors	LV429235	LV432475	LV429235	LV432475
long rear connectors	LV429236	LV432476	LV429236	LV432476

⁽¹⁾ For the ComPacT INS-INV250, the number of modules indicated is for supply via a Linergy FC distribution block.

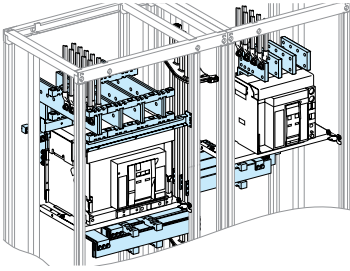
For supply via cables, two additional modules are required; add an upstream plain front plate (LVS03802).

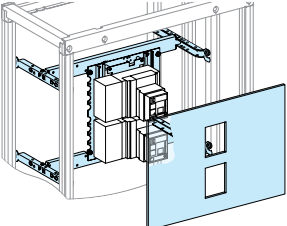
⁽²⁾ Compatible with Linergy LGYE vertical busbar.⁽³⁾ To be made according to the busbar drawings supplied by Schneider Electric.⁽⁴⁾ For rear connection, size reduced one module; a plain downstream front plate (LVS03801) is not needed.⁽⁵⁾ LVS04460 is used for INS-INV 320/630 A (3P and 4P). Complete the connection with insulated flexible bars (not supplied).

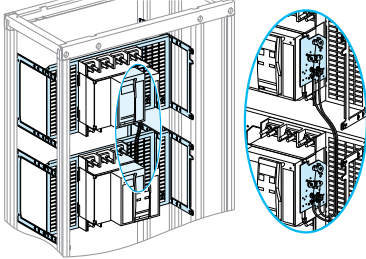
Source-changeover

Possible combinations ComPacT NSX100/630, NS630b/1600,
MasterPact MTZ1 06/16, MTZ2 08/32

Source-changeover

Manual source-changeover								
								
Type of device	Type of interlocking							
	Complete assembly	Toggle	Keylock	Rotary handle	On base plate	Cable-type with 2 devices side-by-side ⁽²⁾	Cable-type with 3 devices side-by-side ⁽²⁾	Cable-type with 2 devices one above another
INS250 (rating 100 to 250)								
INV100 to INV250 ⁽¹⁾								
INS320 to INS630								
INV320 to INV630 ⁽¹⁾								
NSX100 to NSX250								
NSX400 to NSX630								
NS630b to NS1600								
MTZ1 06 to 16								
MTZ2 08 to 32								

Remote-operated source-changeover systems - Mechanical interlocking system					
					
Devices	Combination of ComPacT NSX "S1" and "S2" devices				
"S1"	"S2"				
	NSX100	NSX160	NSX250	NSX400	NSX630
NSX100 Rating 12.5...100 A					
NSX160 Rating 12.5...160 A					
NSX250 Rating 12.5...250 A					
NSX400 Rating 160...400 A					
NSX630 Rating 250...630 A					

			
Devices	Combination of "S1" and "S2" devices, Interlocking via cables		
"S1"	"S2"		
	NS630b to NS1600	MTZ1 06 to 16	MTZ2 08 to 32
NS630b to NS1600			
MTZ1 06 to 16			
MTZ2 08 to 32			

(1) Visible break function.

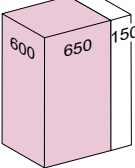
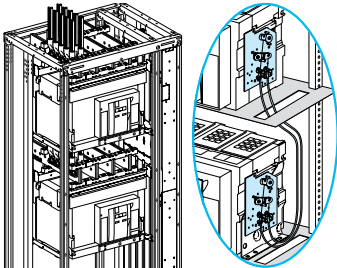
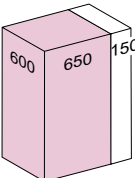
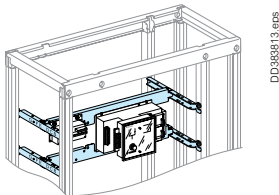
(2) In 2 or 3 cubicles.

Possible combinations.

Manual or remote-operated or automatic source-changeover

MasterPact MTZ2 08/32, front connection S1 device identical to S2 device

Source-changeover

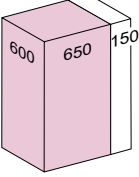
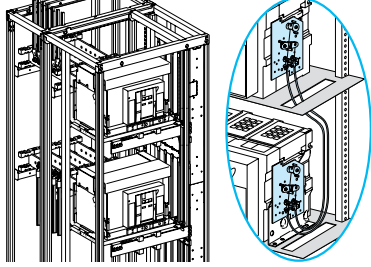
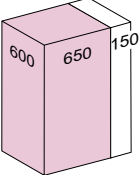
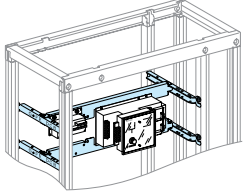
Mounting		Front connection with cables			
					
Devices		Fixed device		Withdrawable device	
Number of devices per row		2	2	2	2
Number of vertical modules		31	34	33	36
Mounting plates		LVS03500	LVS03500	LVS03500	LVS03500
		S1 device			
		MTZ2 08/16	MTZ2 20/32	MTZ2 08/16	MTZ2 20/32
Front plates [No. of vertical modules]	upstream	LVS03804 [4]	LVS03805 [5]	LVS03804 [4]	LVS03805 [5]
	with cut-out	LVS03711 [9]	LVS03711 [9]	LVS03710 [10]	LVS03710 [10]
	downstream	LVS03805 [5]	LVS03806 [6]	LVS03805 [5]	LVS03806 [6]
		S2 device			
		MTZ2 08/16	MTZ2 20/32	MTZ2 08/16	MTZ2 20/32
Front plates [No. of vertical modules]	upstream	–	–	–	–
	with cut-out	LVS03711 [9]	LVS03711 [9]	LVS03710 [10]	LVS03710 [10]
	downstream	LVS03804 [4]	LVS03805 [5]	LVS03804 [4]	LVS03805 [5]
Connection					
					
Devices		Fixed device		Withdrawable device	
		S1 device			
		MTZ2 08/16	MTZ2 20/32	MTZ2 08/16	MTZ2 20/32
Upstream connection		Vertical rear connections supplied with the device			
Connection		Connection must be made ⁽¹⁾			
		S2 device			
		MTZ2 08/16	MTZ2 20/32	MTZ2 06/10	MTZ2 20/32
Downstream connection		Vertical rear connections supplied with the device			
Connection		Connection must be made ⁽¹⁾			
Distribution		Linergy LGY, LGYE busbars			
		Selection of busbars: Linergy LGY > page E-83, Linergy LGYE > page E-84.			
		S1 device			
Upstream connection		Front connections supplied with the device			
Connection		Connection must be made ⁽¹⁾			
		S2 device			
Downstream connection		Front connections supplied with the device			
Connection		Connection must be made ⁽¹⁾			
Mounting		Controller outside the device zone			
					
Devices		UA or BA controller			
Number of devices per row		1			
Number of vertical modules		4			
Mounting plates		LVS03417			
Front plates	with cut-out	LVS03671 [4]			
[No. of vertical mod.]					
Characteristics		When a UA, BA or UA150 automatic controller is added together with an ACP mounting plate, the sources can be controlled automatically according to a number of programmed operating modes.			

⁽¹⁾ Connection to be made according to the busbar drawings supplied by Schneider Electric.

Manual or remote-operated or automatic source-changeover

MasterPact MTZ2 08/32, rear connection S1 device identical to S2 device

Source-changeover

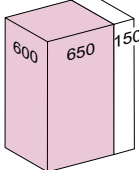
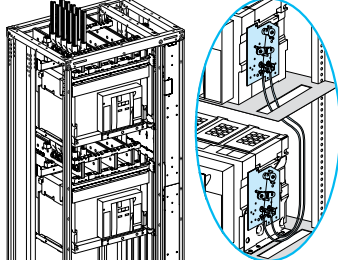
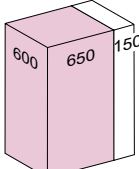
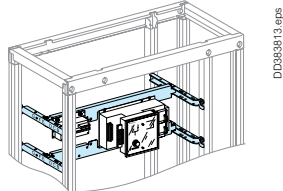
Mounting		Rear connection with cables			
					
Devices		Fixed device		Withdrawable device	
Number of devices per row		2	2	2	2
Number of vertical modules		23	24	25	26
Mounting plates		LVS03500	LVS03500	LVS03500	LVS03500
		S1 device			
		MTZ2 08/16	MTZ2 20/32	MTZ2 08/16	MTZ2 20/32
Front plates [No. of vertical modules]	upstream	–	–	–	–
	with cut-out	LVS03711 [9]	LVS03711 [9]	LVS03710 [10]	LVS03710 [10]
	downstream	LVS03805 [5]	LVS03806 [6]	LVS03805 [5]	LVS03806 [6]
		S2 device			
		MTZ2 08/16	MTZ2 20/32	MTZ2 08/16	MTZ2 20/32
Front plates [No. of vertical modules]	upstream	–	–	–	–
	with cut-out	LVS03711 [9]	LVS03711 [9]	LVS03710 [10]	LVS03710 [10]
	downstream	–	–	–	–
Connection					
					
Devices		Fixed device		Withdrawable device	
		S1 device			
		MTZ2 08/16	MTZ2 20/32	MTZ2 08/16	MTZ2 20/32
Upstream connection		Vertical rear connections supplied with the device			
Connection		Connection must be made ⁽¹⁾			
		S2 device			
		MTZ2 08/16	MTZ2 20/32	MTZ2 06/10	MTZ2 20/32
Downstream connection		Vertical rear connections supplied with the device			
Connection		Connection must be made ⁽¹⁾			
Distribution		Linergy LGY, LGYE busbars			
		Selection of busbars: Linergy LGY > page E-83, Linergy LGYE > page E-84.			
		S1 device			
Upstream connection		Front connections supplied with the device			
Connection		Connection must be made ⁽¹⁾			
		S2 device			
Downstream connection		Front connections supplied with the device			
Connection		Connection must be made ⁽¹⁾			
Mounting		Controller outside the device zone			
					
Devices		UA or BA controller			
Number of devices per row		1			
Number of vertical modules		4			
Mounting plates		LVS03417			
Front plates [No. of vertical mod.]	with cut-out	LVS03671 [4]			
Characteristics		When a UA, BA or UA150 automatic controller is added together with an ACP mounting plate, the sources can be controlled automatically according to a number of programmed operating modes.			

⁽¹⁾ Connection to be made according to the busbar drawings supplied by Schneider Electric.

Manual or remote-operated or automatic source-changeover

MasterPact MTZ2 08/32, front connection S1 device different to S2 device

Source-changeover

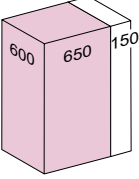
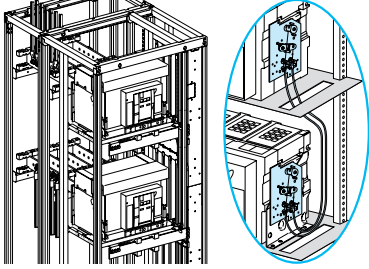
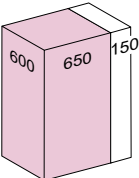
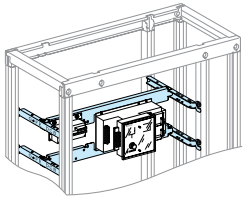
Mounting		Front connection with cables			
					
Devices		Fixed device		Withdrawable device	
Number of devices per row		2	2	2	2
Number of vertical modules		33	33	35	35
Mounting plates		LVS03500	LVS03500	LVS03500	LVS03500
		S1 device			
Front plates [No. of vertical modules]		MTZ2 08/16	MTZ2 20/32	MTZ2 08/16	MTZ2 20/32
	upstream	LVS03804 [4]	LVS03805 [5]	LVS03804 [4]	LVS03805 [5]
	with cut-out	LVS03711 [9]	LVS03711 [9]	LVS03710 [10]	LVS03710 [10]
	downstream	LVS03806 [6]	LVS03806 [6]	LVS03806 [6]	LVS03806 [6]
		S2 device			
Front plates [No. of vertical modules]		MTZ2 20/32	MTZ2 08/16	MTZ2 20/32	MTZ2 08/16
	upstream	—	—	—	—
	with cut-out	LVS03711 [9]	LVS03711 [9]	LVS03710 [10]	LVS03710 [10]
	downstream	LVS03805 [5]	LVS03804 [4]	LVS03805 [5]	LVS03804 [4]
Connection					
					
Devices		Fixed device		Withdrawable device	
		S1 device			
		MTZ2 08/16	MTZ2 20/32	MTZ2 08/16	MTZ2 20/32
Upstream connection		Vertical rear connections supplied with the device			
Connection		Connection must be made ⁽¹⁾			
		S2 device			
		MTZ2 08/16	MTZ2 20/32	MTZ2 T06/10	MTZ2 20/32
Downstream connection		Vertical rear connections supplied with the device			
Connection		Connection must be made ⁽¹⁾			
Distribution		Linergy LGY, LGYE busbars			
		Selection of busbars: Linergy LGY > page E-83, Linergy LGYE > page E-84.			
		S1 device			
Upstream connection		Front connections supplied with the device			
Connection		Connection must be made ⁽¹⁾			
		S2 device			
Downstream connection		Front connections supplied with the device			
Connection		Connection must be made ⁽¹⁾			
Mounting		Controller outside the device zone			
					
Devices		UA or BA controller			
Number of devices per row		1			
Number of vertical modules		4			
Mounting plates		LVS03417			
Front plates with cut-out		LVS03671 [4]			
Characteristics		When a UA, BA or UA150 automatic controller is added together with an ACP mounting plate, the sources can be controlled automatically according to a number of programmed operating modes.			

(1) Connection to be made according to the busbar drawings supplied by Schneider Electric.

Manual or remote-operated or automatic source-changeover

MasterPact MTZ2 08/32, rear connection S1 device different to S2 device

Source-changeover

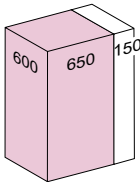
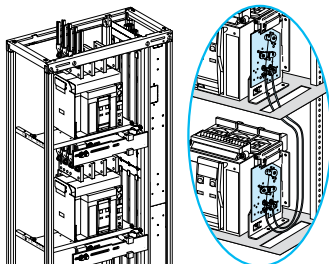
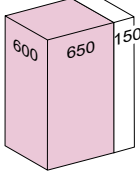
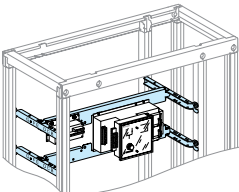
Mounting		Rear connection with cables			
					
Devices		Fixed device		Withdrawable device	
Number of devices per row		2	2	2	2
Number of vertical modules		24	24	26	26
Mounting plates		LVS03500	LVS03500	LVS03500	LVS03500
		S1 device			
		MTZ2 08/16	MTZ2 20/32	MTZ2 08/16	MTZ2 20/32
Front plates [No. of vertical modules]	upstream	–	–	–	–
	with cut-out	LVS03711 [9]	LVS03711 [9]	LVS03710 [10]	LVS03710 [10]
	downstream	LVS03806 [6]	LVS03806 [6]	LVS03806 [6]	LVS03806 [6]
		S2 device			
		MTZ2 08/16	MTZ2 20/32	MTZ2 08/16	MTZ2 20/32
Front plates [No. of vertical modules]	upstream	–	–	–	–
	with cut-out	LVS03711 [9]	LVS03711 [9]	LVS03710 [10]	LVS03710 [10]
	downstream	–	–	–	–
Connection					
					
Devices		Fixed device		Withdrawable device	
		S1 device			
		MTZ2 08/16	MTZ2 20/32	MTZ2 08/16	MTZ2 20/32
Upstream connection		Vertical rear connections supplied with the device			
Connection		Connection must be made ⁽¹⁾			
		S2 device			
		MTZ2 08/16	MTZ2 20/32	MTZ2 06/10	MTZ2 20/32
Downstream connection		Vertical rear connections supplied with the device			
Connection		Connection must be made ⁽¹⁾			
Distribution		Linergy LGY, LGYE busbars			
		Selection of busbars: Linergy LGY > page E-83, Linergy LGYE > page E-84.			
		S1 device			
Upstream connection		Front connections supplied with the device			
Connection		Connection must be made ⁽¹⁾			
		S2 device			
Downstream connection		Front connections supplied with the device			
Connection		Connection must be made ⁽¹⁾			
Mounting		Controller outside the device zone			
					
Devices		UA or BA controller			
Number of devices per row		1			
Number of vertical modules		4			
Mounting plates		LVS03417			
Front plates [No. of vertical mod.]		LVS03671 [4]			
Characteristics		When a UA, BA or UA150 automatic controller is added together with an ACP mounting plate, the sources can be controlled automatically according to a number of programmed operating modes.			

(1) Connection to be made according to the busbar drawings supplied by Schneider Electric.

Manual or remote-operated or automatic source-changeover

MasterPact MTZ1 06/16, front connection S1 device identical to S2 device

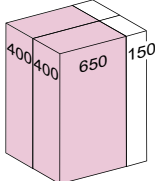
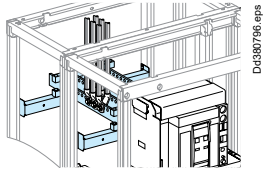
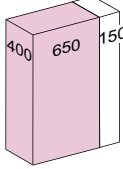
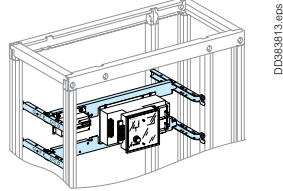
Source-changeover

Mounting		Front connection with cables			
		 DD38541 19ps			
Devices		Fixed device		Withdrawable device	
Number of devices per row		2	2	2	2
Number of vertical modules		24	28	26	30
Mounting plates		LVS03484	LVS03484	LVS03483	LVS03483
		S1 device			
		MTZ1 06/10	MTZ1 12/16	MTZ1 06/10	MTZ1 12/16
Front plates [No. of vertical modules]	upstream	LVS03802 [2]	LVS03804 [4]	LVS03802 [2]	LVS03804 [4]
	with cut-out	LVS03692 [7]	LVS03692 [7]	LVS03691 [8]	LVS03691 [8]
	downstream	LVS03803 [3]	LVS03803 [3]	LVS03803 [3]	LVS03803 [3]
		S2 device			
		MTZ1 06/10	MTZ1 12/16	MTZ1 06/10	MTZ1 12/16
Front plates [No. of vertical modules]	upstream	LVS03803 [3]	LVS03803 [3]	LVS03803 [3]	LVS03803 [3]
	with cut-out	LVS03692 [7]	LVS03692 [7]	LVS03691 [8]	LVS03691 [8]
	downstream	LVS03802 [2]	LVS03804 [4]	LVS03802 [2]	LVS03804 [4]
Connection					
					
Devices		Fixed device		Withdrawable device	
		MTZ1 06/10 3P	MTZ1 12/16 4P	MTZ1 06/10 3P	MTZ1 12/16 4P
S1 device		Front connections supplied with the device			
Upstream connection		33642	33643	33642	33643
Vertical connection adapters		33642	33643	33642	33643
S2 device		Front connections supplied with the device			
Downstream connection		33642	33643	33642	33643
Vertical connection adapters		33642	33643	33642	33643
Distribution		Linergy LGY, LGYE busbars			
		Selection of busbars: Linergy LGY > page E-83, Linergy LGYE > page E-84.			
S1 device		Front connections supplied with the device			
Upstream connection		Connection must be made			
Connection		Connection must be made			
S2 device		Front connections supplied with the device			
Downstream connection		Connection must be made			
Connection		Connection must be made			
Mounting		Outside the device zone			
		 DD383913 13eps			
Devices		UA or BA controller			
Number of devices per row		1			
Number of vertical modules		4			
Mounting plates		LVS03417			
Front plates [No. of vertical mod.]		LVS03671 [4]			
Characteristics		When a UA, BA or UA150 automatic controller is added together with an ACP mounting plate, the sources can be controlled automatically according to a number of programmed operating modes.			

Manual or remote-operated or automatic source-changeover

MasterPact MTZ1 06/16, rear connection S1 device identical to S2 device

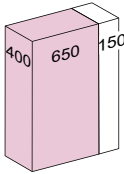
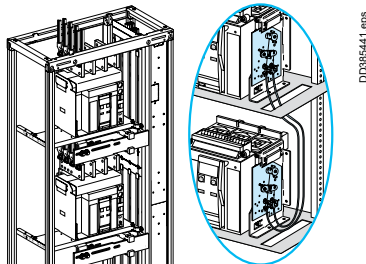
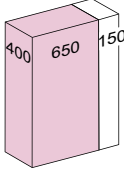
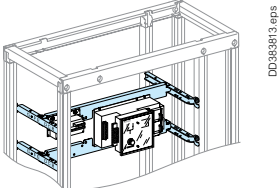
Source-changeover

Mounting		Rear connection with cables	
			
Devices		Fixed device	Withdrawable device
Number of devices per row		2	2
Number of vertical modules		22	22
Mounting plates		LVS03484	LVS03483
		S1 device	
		MTZ1 06/16	MTZ1 06/16
Front plates [No. of vertical modules]	upstream	LVS03801 [1]	–
	with cut-out	LVS03692 [7]	LVS03691 [8]
	downstream	LVS03803 [3]	LVS03803 [3]
		S2 device	
		MTZ1 06/16	MTZ1 06/16
Front plates [No. of vertical modules]	upstream	LVS03803 [3]	LVS03803 [3]
	with cut-out	LVS03692 [7]	LVS03691 [8]
	downstream	LVS03801 [1]	–
Connection			
		Fixed device	
Devices		MTZ1 06/16	MTZ1 06/16
		Withdrawable device	
		MTZ1 06/16	MTZ1 06/16
		S1 device	
Upstream connection		Vertical rear connections supplied with the device	
Connection		Connection must be made	
		S2 device	
Downstream connection		Vertical rear connections supplied with the device	
Connection		Connection must be made	
Distribution		Linergy LGY, LGYE busbars	
		Selection of busbars: Linergy LGY > page E-83, Linergy LGYE > page E-84.	
		S1 device	
Upstream connection		Front connections supplied with the device	
Connection		Connection must be made	
		S2 device	
Downstream connection		Front connections supplied with the device	
Connection		Connection must be made	
Mounting		Controller outside the device zone	
			
Devices		UA or BA controller	
Number of devices per row		1	
Number of vertical modules		4	
Mounting plates		LVS03417	
Front plates with cut-out [No. of vertical mod.]		LVS03671 [4]	
Characteristics		When a UA, BA or UA150 automatic controller is added together with an ACP mounting plate, the sources can be controlled automatically according to a number of programmed operating modes.	

Manual or remote-operated or automatic source-changeover

MasterPact MTZ1 06/16, front connection S1 device different to S2 device

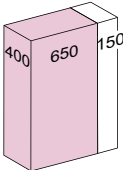
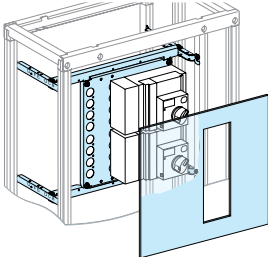
Source-changeover

Mounting		Front connection with cables			
					
Devices		Fixed device		Withdrawable device	
Number of devices per row		2	2	2	2
Number of vertical modules		26	26	28	28
Mounting plates		LVS03484	LVS03484	LVS03483	LVS03483
		S1 device			
Front plates [No. of vertical modules]		MTZ1 12/16	MTZ1 06/10	MTZ1 12/16	MTZ1 06/10
	upstream	LVS03804 [4]	LVS03802 [2]	LVS03804 [4]	LVS03802 [2]
	with cut-out	LVS03692 [7]	LVS03692 [7]	LVS03691 [8]	LVS03691 [8]
		S2 device			
Front plates [No. of vertical modules]		MTZ1 06/10	MTZ1 12/16	MTZ1 06/10	MTZ1 12/16
	upstream	LVS03803 [3]	LVS03803 [3]	LVS03803 [3]	LVS03803 [3]
	with cut-out	LVS03692 [7]	LVS03692 [7]	LVS03691 [8]	LVS03691 [8]
	downstream	LVS03802 [2]	LVS03804 [4]	LVS03802 [2]	LVS03804 [4]
Connection					
					
Devices		Fixed device		Withdrawable device	
		MTZ1 06/10	MTZ1 12/16	MTZ1 06/10	MTZ1 12/16
		3P 4P	3P 4P	3P 4P	3P 4P
S1 device					
Upstream connection		Front connections supplied with the device			
Vertical connection adapters		33642	33643	33642	33643
S2 device					
Downstream connection		Front connections supplied with the device			
Vertical connection adapters		33642	33643	33642	33643
Distribution		Linergy LGY, LGYE busbars			
		Selection of busbars: Linergy LGY > page E-83, Linergy LGYE > page E-84.			
S1 device					
Upstream connection		Front connections supplied with the device			
Connection		Connection must be made			
S2 device					
Downstream connection		Front connections supplied with the device			
Connection		Connection must be made			
Mounting		Controller outside the device zone			
					
Devices		UA or BA controller			
Number of devices per row		1			
Number of vertical modules		4			
Mounting plates		LVS03417			
Front plates [No. of vertical mod.]	with cut-out	LVS03671 [4]			
Characteristics		When a UA, BA or UA150 automatic controller is added together with an ACP mounting plate, the sources can be controlled automatically according to a number of programmed operating modes.			

Manual source-changeover

ComPacT NSX100/630

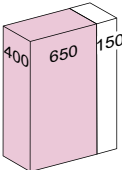
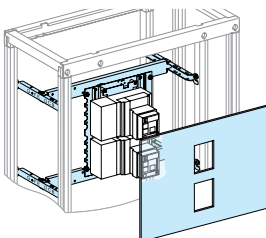
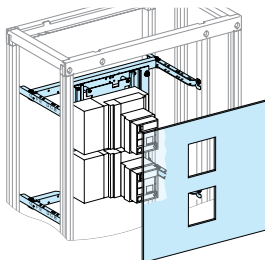
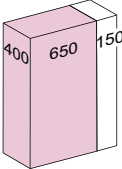
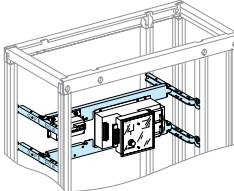
Source-changeover

Mounting		Horizontal			
					DD383810.eps
Devices					
		NSX400/630			
		3P		4P	
Number of devices per row		2			
Number of vertical modules		10			
Mounting plates		LVS03458			
Front plates		upstream			
[No. of vertical modules]		with cut-out			
		downstream			
Mechanical interlock		LV432621		LV432621	
Characteristics		Interlocking of rotary handles The devices are equipped with a rotary handle. They are mounted on a dedicated mounting plate.			
Connection		Downstream distribution			
					
Type of connected devices		ComPacT NSX100/250		ComPacT NSX400/630	
		3P		3P	
Front conn.		long terminal shields		long terminal shields	
for spreader		LV429517		LV429518	
Coupling accessory		LV429358		LV429359	
Rear conn.		short terminal shields		short terminal shields	
		LV429515		LV429516	
		LV429515		LV429516	
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		LV429515		LV429516	

Remote-operated source-changeover

ComPacT NSX100/630

Source-changeover

Mounting		Horizontal			
		 DD383811 4 eps		 DD383812 4 eps	
Devices		NSX100/250		NSX400/630	
Number of devices per row		2		2	
Number of vertical modules		8		10	
Mounting plates		LVS03417 ⁽¹⁾		LVS03457 ⁽²⁾	
Front plates [No. of vertical mod.]		LVS03616 [8]		LVS03656 [10]	
with cut-out					
Characteristics		The devices are equipped with motor mechanisms.			
Connection		Downstream distribution			
					
Type of connected devices		ComPacT NSX100/250		ComPacT NSX400/630	
		3P		3P	
Front connection		LV429517		LV432593	
long terminal shields for spreader		LV429518		LV432594	
		–		LV432595	
Coupling accessory		LV429358		LV432596	
Rear connection		LV429359		LV432619	
short terminal shields		LV429515		LV432620	
		LV429516		LV432591	
				LV432592	
Mounting		Controller			
		 DD383813 4 eps			
Devices		UA or BA controller			
Number of devices per row		1			
Number of vertical modules		4			
Mounting plates		LVS03417			
Front plates [No. of vertical mod.]		LVS03671 [4]			
with cut-out					
Characteristics		When a UA, BA or UA150 automatic controller is added together with an ACP mounting plate, the sources can be controlled automatically according to a number of programmed operating modes.			

(1) Order mounting plate + IVE electrical interlocking unit for NSX100/250 (cat. no. 29350 for AC or 29351 for DC version).

(2) Order mounting plate + IVE electrical interlocking unit for NSX400/630 (cat. no. 32610 for AC or 32611 for DC version).

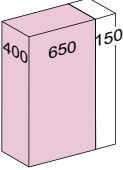
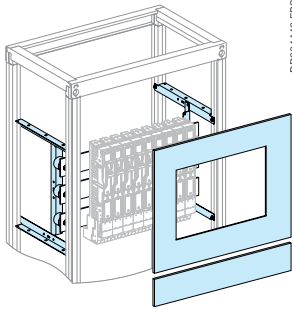
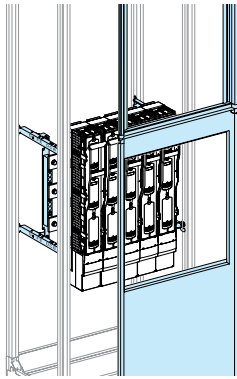
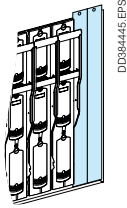
Incoming and busbar connections to be made.

Fupact ISFL

Vertical / 3P

Determining the busbars

Fusegear

Mounting	Through cut-out front plate	Through a 2/3 cut-out front plate			Accessories
					
Devices	ISFL160	ISFL160	ISFL250/400/630	ISFL 1250	
Number of devices per row	9	10	5	2	–
Number of vertical modules	11	24	24	24	–
Mounting plates	LVS03545 + (1)	LVS03546 + (1)	LVS03546 ⁽¹⁾ + (2)	LVS03546 + (2)	–
Length adapter	–	+ 5 x LV480870 ⁽²⁾	–	–	–
Conversion kit for direct conn.	–	+ 5 x LV480854 ⁽²⁾	–	–	–
Front plates with cut-out [No. of vertical mod.] FAV 2/3	LVS03736 [11]	–	–	–	–
	–	LVS03735 [24 + 12]	LVS03735 [24 + 12]	LVS03735 [24 + 12]	–
Side frame door cut-out	LV480868 LV480869	LV480868 LV480869	LV480868 LV480869	LV480868 LV480869	–
Blanking plate	LVS03740	LVS03740	LVS03741 ⁽³⁾	2 x LVS03741	–
Busbars cover	–	–	–	–	LVS04860
Characteristics	- The fuses are installed on the horizontal bars which are in turn supported by a mounting plate. - The front plates are secured to the hinged front plate support frame. - The front may be covered either by a cover frame or a plain or transparent door. - Current transformers can be installed behind ISFL fuse-switch-disconnectors.				
	- The fuses are installed on the horizontal bars which are in turn supported by a mounting plate. - The front of the cubicle is made up of two parts: 2/3 cut-out front plate allowing introduction of the fuses. 1/3 front plate support frame (12 modules) cat. number LVS08562 on which the functional units are mounted. - The front may be covered either by a cover frame or a plain or transparent door. - Current transformers can be installed behind ISFL fuse-switch-disconnectors.				

Connection	Direct
	
Devices	ISFL160/630
Connection	By cables or directly on the busbars with clamp fixing or pressure fixing.

Distribution	
	
Devices	ISFL160/630
Downstream connection	With cable

(1) The bars are made by the customer: for choice of bars > pages E-82 to E-85.

(2) Adaptation accessories LV480870 + LV480855 used to:

- Install two ISFL160 devices on a mounting plate LVS03546.
- Mix ISFL devices.

(3) Use 2 blanking plates per device.

Note:

- For ISFL 160, by fixing screws only.

For determining the busbar > page E-158.

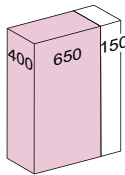
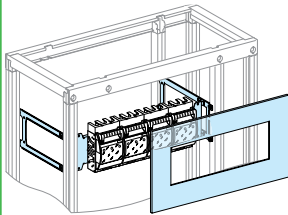
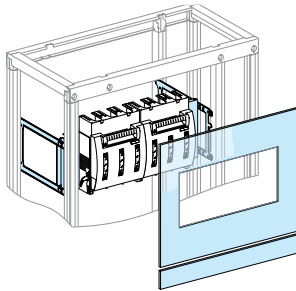
Fupact ISFT

Vertical / 3P

Installation on mounting plate or busbars

Determining the busbars

Fusegear/Switch-disconnector

Mounting	On base plate		On busbars
			

Devices	ISFT100	ISFT100N	ISFT160	ISFT250	ISFT400	ISFT630	ISFT100N	ISFT160
Number of devices per row	5	8	4	2	2	1	6	4
Number of vertical modules	6	8	6	9	9	10	8	6
Mounting plates	LVS03554	–	LVS03556	LVS03557	LVS03557	LVS03557	LVS03555	LVS03555
Front plates with cut-out downstream	LVS03320 [6]	LVS03325 [8]	LVS03321 [6]	LVS03322 [9]	LVS03323 [9]	LVS03324 [8]	LVS03325 [8]	LVS03321 [6]
[No. of vertical mod.]	–	–	–	–	–	LVS03802 [2]	–	–

Connection	Direct							
								
Devices	ISFT100	ISFT100N	ISFT160	ISFT250	ISFT400	ISFT630	ISFT100N	ISFT160
Connection	Connection must be made downstream, with cable or flexible bars							
Long terminal shields	–	LV480756	LV480819	LV480824	LV480827	LV480831	–	LV480819

Distribution				
				
Linerity FH for 2 devices	49861	LV480811		
for 3 devices	49862	LV480812		
for 4 devices	49863	LV480813		
Set of 3 connectors (25 to 95 mm²)	49865	LV480818		
Set of 3 distribution connectors 3 x 10 mm²	49860	LV480814		

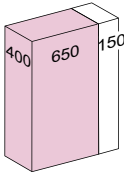
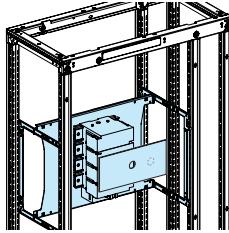
Note: For determining the busbar > page E-158.

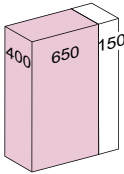
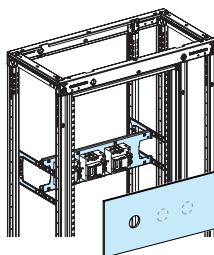
Fupact GS

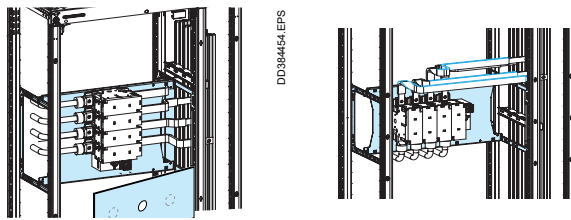
Horizontal / Vertical

Extended rotary handle

Fusegear/Switch-disconnector

Mounting		Horizontal					
							
Devices							
		GS32	GS63	GS100 ⁽¹⁾	GS160 ⁽¹⁾	GS250	GS400
		3P or 4P					
Number of devices per row		1					
Number of vertical modules		3	5	7		8	
Mounting plates		LVS03559	LVS03560	LVS03560		LVS03564	LVS03566
Front plates		LVS03308	LVS03309	LVS03309		LVS03346	LVS03347
Nb of vertical modules downstream		–	–	LVS03801 [1M]			
Upstream connection							
Terminal	3P	–	–	GS1AP33	GS1AP43		
Cover	4P	–	–	GS1AP34	GS1AP44		

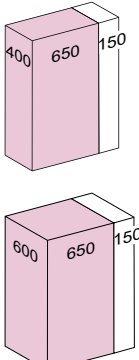
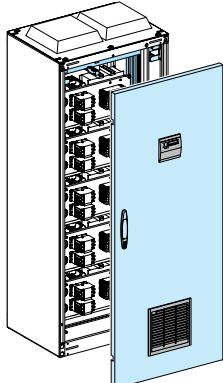
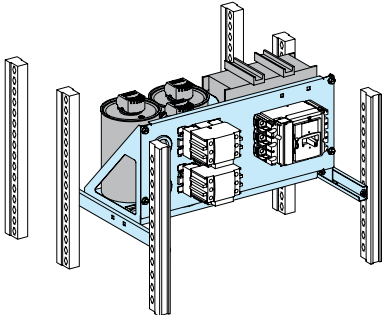
Mounting		Vertical					
							
Devices							
		GS32	GS63	GS100 ⁽¹⁾	GS160 ⁽¹⁾	GS250	GS400
		3P or 4P					
Number of devices per row		3	2	1			
Number of vertical modules		3	5	6			
Mounting plates		LVS03559	LVS03563	LVS03565		LVS03567	
Front plates		LVS03308	LVS03309	LVS03349		LVS03349	
Nb of vertical modules downstream		–	–	–		–	
Upstream connection							
Terminal	3P	–	–	GS1AP33	GS1AP43		
Cover	4P	–	–	GS1AP34	GS1AP44		

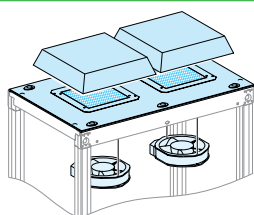
Distribution		Lateral busbars	
			
		Linergy LGYE or Linergy LGY busbars ⁽²⁾	
Busbars connection		Connection must be made	

⁽¹⁾ For DIN fuses only.⁽²⁾ Selection of flexible bars for the connection Fupact GS ≤ 400 A: > page E-158.

Power factor correction equipment

Others

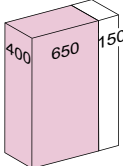
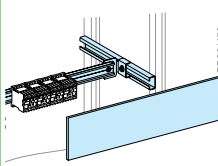
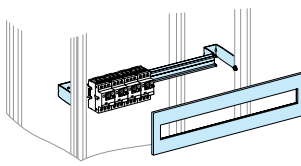
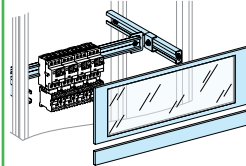
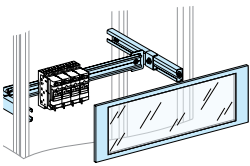
Mounting	Door with cut-outs	Mounting plate
		
Catalog number	LVS03970	LVS03979
Characteristics	- Special standard cover panels are used. - However, a special IP30 door is used (W650 mm with hinges on left only) that has cut-outs, one for the VarplusLogic power factor controller and another in the bottom for a filter.	- The mounting plates are designed for installation of capacitors, contactors and devices protecting against internal faults. The power factor correction modules are installed horizontally in the cubicle. - Gasket gland plate NSYTPV is necessary for mounting plate wiring.

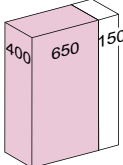
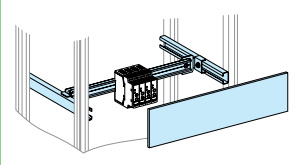
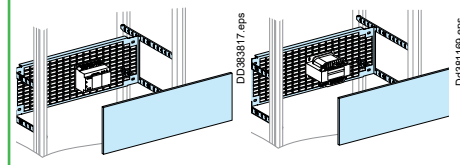
Mounting	Ventilation accessories					
						
Cover panels	Roof with cut-out D = 400 mm D = 600 mm	Fan + top hood	Top hood without fan	Outlet grill	Fan with filter	Spare filter
Catalog number	LVS08478 LVS08678	NSYCVF575M230MB	NSYCAC228RMB	NSYCAG291LPF	NSYCVF850M230PF	NSYCAF228R
Characteristics	A roof with a cut-out ensures natural ventilation of the equipment. It can also be equipped with two fans.	Fan characteristics - Power: 85 W - Input voltage: 230 V - Throughput via outlet grill: - With 1 outlet grill: 350 m³/hr - Free with filter: 575 m³/hr - Noise level: 64 dB Top hood characteristics - Material: steel - Finishing parts: painted with epoxy-polyester resin, textured RAL 9003, white - IP54 - Fixing to the top by means of caged nuts and special screws.	- Material: steel - Finishing parts: painted with epoxy-polyester resin, textured RAL 7035 grey - IP54 - Fixing to the top by means of caged nuts and special screws.	- Material: Injected thermoplastic (ASA PC). - self-extinguishing according to UL 94 V-0 - RAL 9003, white - IP54	- Power: 150/195 W - Input voltage: 207 V... 244 V (230 V) - Throughput via outlet grill: - With 1 outlet grill (m³/h): 718 (50 Hz) 568 (60 Hz) - Free with filter: 838 (50 Hz) 803 (60 Hz) - Noise level: 76/75 dB	For outlet grill or filter IP54, cut-out 228 x 228 mm

Configuration	200 kvar	500 kvar
Door		
Catalog number	LVS03970 + LVS01110	LVS03970 + LVS01110
Designation	W650 door IP30 with cut-out + W150 wicket door	W650 door IP30 with cut-out + W150 wicket door
For front		
Catalog number	NSYCVF850M230PF	NSYCAG291LPF
Designation	Fan with filter	Outlet grill
For rear		
Catalog number	LVS08748	LVS08749 + NSYCAG291LPF
Designation	W800 Rear panel IP55	W800 Rear panel IP55 cut-out + outlet grill
Roof		
Catalog number	LVS08478 or LVS08678	LVS08478 or LVS08678
Designation	Roof with cut-out	Roof with cut-out
On roof		
Catalog number	NSYCAC228RMB x 2	NSYCVF575M230MB x 2
Designation	2 top hood without fan IP54	2 fans + top hood IP54
Mounting plate		
Catalog number	LVS03979	LVS03979
Designation	Mounting plate	Mounting plate

Industrial control devices

Others

Mounting		On a modular rail							
									
Devices		Contactor		Circuit breaker		Circuit breaker + contactor		TeSys	
		Series D and K ≤ 40 A contactors		GV2RT- GV2ME- GV2LE	GV2L- GV2P	GV3	GV2 + Series D and K ≤ 40 A contactors		TeSys modèle U
Number of vertical modules		3		3	3	5	5		4 ⁽¹⁾
Useful length of rail (mm)		432		432			432		432
Modular rail (adjustable)		LVS03402		LVS03401 ⁽²⁾	LVS03402	LVS03402	LVS03402		LVS03402
Front plates		plain		LVS03803 [3]			-		LVS03804 [4]
[No. of vertical mod.]		transparent		-			LVS03342 [4]		LVS03342 [4]
		with cut-out		-			LVS03342 [4]		LVS03342 [4]
		downstream		-			LVS03342 [4]		LVS03342 [4]
Characteristics		-		Width of devices without lateral auxiliaries: 45 mm.					

Mounting		On a modular rail				On a base plate	
							
Devices		Soft starters ATS01				LV/LV transformer	
		ATS01N103/106FT	ATS01N109/112FT ATS01N206 to 212	ATS01N222 to 232	ATS01N230LY ATS01N244LY ATS01N244Q	ATS01N272LY ATS01N285LY ATS01N272Q ATS01N285Q	ABL6-TS/TD up to 2500 VA ABL6-RT up to 960 W ABL6-RF up to 480 W
Number of vertical modules		4	5	6	5	6	4
Useful length of rail (mm)		432	432	432	432	-	-
Modular rail (adjustable)		LVS03402	LVS03402	LVS03402	LVS03402	-	-
Slotted mounting plates		-	-	-	-	LVS03572	LVS03571
Front plate		LVS03804 [4]	LVS03805 [5]	LVS03806 [6]	LVS03805 [5]	LVS03806 [6]	LVS03804 [4]
[No. of vertical mod.]							
Characteristics		Width of devices (mm)				-	
		22.5	45	45	180	180	

(1) Version without communication module, auxiliary contact and reversing module.

(2) Non-adjustable.

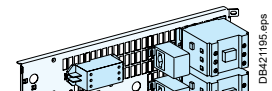
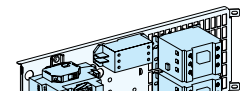
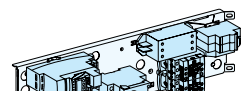
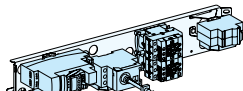
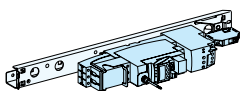


Dedicated mounting plate for Motor Control functional units.

5 commercial references from 1 to 6 modules mounting plates are installed in 650 mm wide cubicle.

- Easy installation
- Switchboard upgradeability
- Mounting plate optimal stacking density
- Functional units reliability.

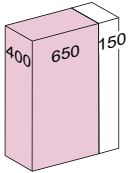
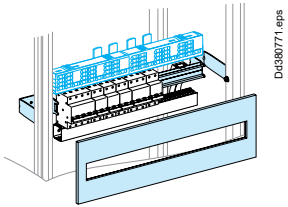
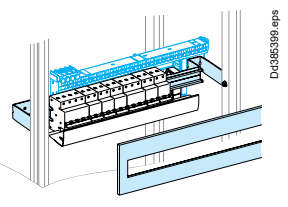
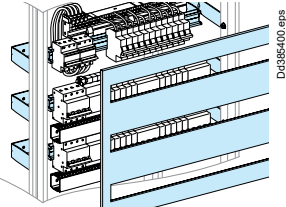
See PrismaSeT MCC Catalog DESW049EN.

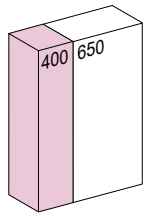
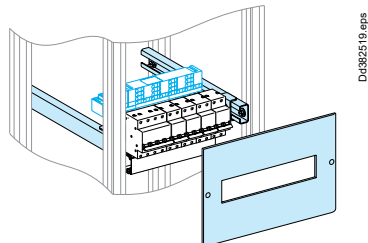


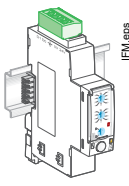
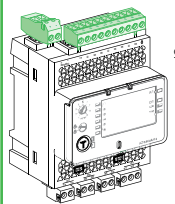
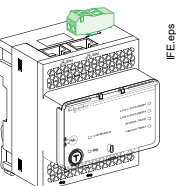
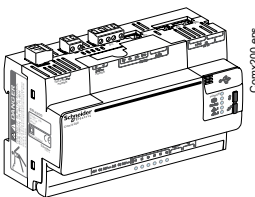
Modular devices

Acti 9 ≤ 63 A

Circuit breakers

Mounting	Horizontal distances between centres: 200 mm	Horizontal distances between centres: 150 mm	
			
Devices	All modular devices	Modular devices ≤ 40 A	
Rail length (modules of 9 mm)	48	48	48
No. of vertical modules	4 ⁽¹⁾	3	8
Rail (48 modules of 9 mm)	LVS03401	LVS03401	3 x LVS03401
Modular front plates	LVS03204	LVS03203	LVS03223
Blanking strip	LVS03220	LVS03220	LVS03220
plate divisible	LVS03221	LVS03221	LVS03221

Mounting	Horizontal distances between centres: 200 mm	Horizontal distances between centres: 150 mm	
			
Devices	All modular devices	Modular devices ≤ 40 A	
Rail length (modules of 9 mm)	20	20	
No. of vertical modules	4	3	
Rail (20 modules of 9 mm)	LVS03404 (adjustable)	LVS03404 (adjustable)	
Modular front plates	LVS03214 [4]	LVS03213 [3]	
Blanking plate strip	LVS03220	LVS03220	
divisible	LVS03221	LVS03221	

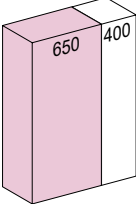
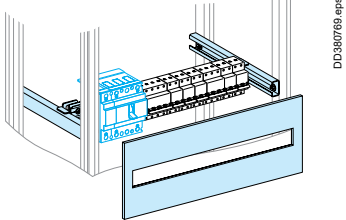
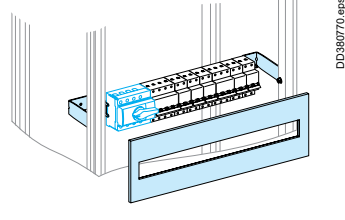
	EnerlinX devices				
	IFM	I/O module	IFE	ComX200	ComX510
					
No. of vertical modules	4				
Rail	LVS03401 / LVS03404				
Modular front plates	LVS03204 / LVS03214				
Characteristics	Installation by clip on a modular rail.				

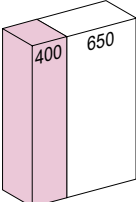
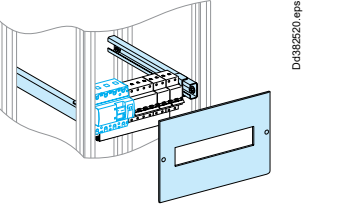
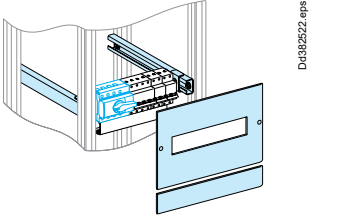
(1) For a modular row with a 160 A (half row) and 200 A Linergy FM distribution block positioned directly below a non-modular mounting-plate (ComPacT, etc.), or at the top of a switchboard, add one additional module (i.e. 4+1) and a plain upstream front plate (LVS03801).

Modular devices

80/160 A switchboard incomer

Circuit breakers

Mounting	Circuit breakers		Switch-disconnectors	
				
Devices	NG160, NG160NA Vigi NG160	NG125, NG125NA, Vigi NG125, C120, Vigi C120, iC120, Vigi iC120	ComPacT INS40/160	ComPacT INS-INV100/160 with long terminal shields
No. of vertical modules	5	5	4	5
Rail (48 modules of 9 mm)	LVS03402 (adjustable) ⁽¹⁾ + LVS04227	LVS03401	LVS03401	LVS03401
Modular front plates	LVS03205	LVS03205	LVS03204	LVS03205
Blanking plate strip	LVS03220		LVS03220	
divisible	LVS03221		LVS03221	

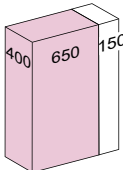
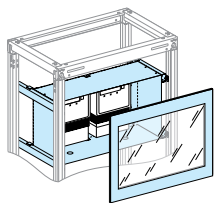
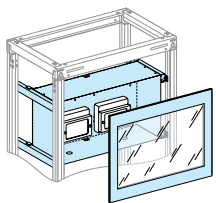
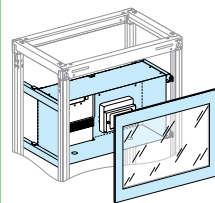
Mounting	Circuit breakers		Switch-disconnectors	
				
Devices	NG160, NG160NA, NG125, NSA125/160		INS-INV40/160	INS-INV100/160 with long terminal shields
No. of vertical modules	5		4	5
Rail (20 modules of 9 mm)	LVS03404 (adjustable) ⁽²⁾		LVS03404 (adjustable)	LVS03404 (adjustable)
Front plates modular	LVS03214 [4]		LVS03214 [4]	LVS03214 [4]
[No. of vertical modules] downstream	LVS03811 [1]		–	LVS03811 [1]
Blanking plate strip	LVS03220		LVS03220	LVS03220
divisible	LVS03221		LVS03221	LVS03221

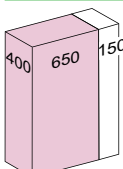
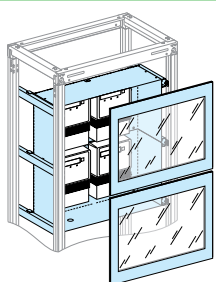
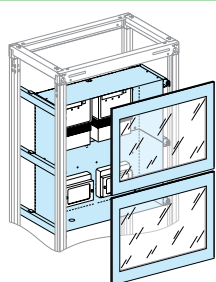
Metering

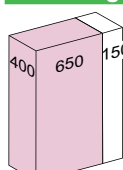
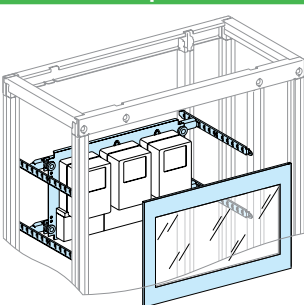
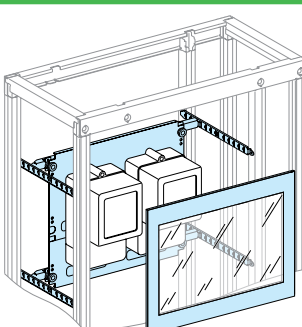
Single-phase and 3-phase kilowatt-hour meters

Class 1 and 2

Others

Mounting		With 1 mounting plate		
				
Devices		Meter and connection block		
		Meter 3 Ph + N	Connection block	Meter + connection block
Number of devices per row		2	2	1 + 1
Number of vertical modules		6	6	6
Mounting plates		LVS03508	LVS03508	LVS03508
Front plates	transparent	LVS03343 [6]	LVS03343 [6]	LVS03343 [6]
[No. of vertical mod.]	or plain	LVS03806 [6]	LVS03806 [6]	LVS03806 [6]

Mounting		With 2 mounting plates	
			
Devices		Meter and connection block	
		Meter 3 Ph + N	Meter + connection block
Number of devices per row		4	2 + 2
Number of vertical modules		12	12
Mounting plates		2 x LVS03508	2 x LVS03508
Front plates	transparent	2 x LVS03343 [6]	2 x LVS03343 [6]
[No. of vertical mod.]	or plain	2 x LVS03806 [6]	2 x LVS03806 [6]

Mounting		Behind front plate	
			
Devices		Meter and connection block	
		Single-phase (Ph + N)	3-phase (3 Ph + N)
Number of devices per row		3	2
Number of vertical modules		6	9
Mounting plates		—	LVS03152
Front plates	transparent	LVS03343 [6]	LVS03344 [9]
[No. of vertical mod.]	or plain	LVS03806 [6]	—
Insulating plate		—	—
Adapter		LVS03595	LVS03595
Accessories		M5 spacers for mounting plate > page E-25	

Note: Meters can be installed at different levels on the functional uprights of frameworks.

Metering and human-switchboard interface

PowerLogic™ Meters

Others



Presentation

PowerLogic™ Meters

Schneider Electric provides these tools via the world's most advanced energy intelligence technology: PowerLogic. The PowerLogic range of meters help manage all energy assets, every second of the day.

PowerLogic PM5000 series



The ideal fit for cost management applications, the PowerLogic™ PM5000 power meter provides:

- > Sub-billing/tenant metering
- > Equipment sub-billing
- > Energy cost allocation
- > Track real-time power conditions
- > Monitor control functions
- > Provide basic power quality values
- > Monitor equipment and network status

Acti9 iEM2000 and iEM3000 series



The Acti9 iEM2000 and iEM3000 energy meter series offers a cost-attractive, competitive range of DIN rail-mounted energy meters ideal for:

- > Bill checking to verify that you are only charged for the energy you use.
 - > Sub-billing individual tenants for their energy consumption, including WAGES.
 - > Aggregation of energy consumption, including WAGES, and allocating costs per area, per usage, per shift, or per time within the same facility.
 - > Basic metering of electrical parameters to better understand the behavior of your electrical distribution system.
- Combined with communication systems, like Smart Link, the Acti9 iEM2000 and iEM3000 series makes it easy to integrate electrical distribution measurements into facility management systems. It's the right energy meter at the right price for the right job.

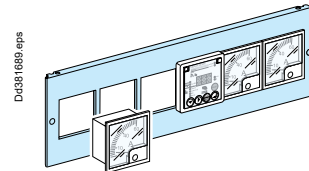
Possible installation

Cat. number	LVS03904	LVS03928	LVS03910	LVS03911	LVS03913	LVS03914
Front plate frame support (LVS08566)	■	■	■	■	■	■
L300/L400 with cut-out (LVS08593, LVS08594)	■	■	■	■	■	-

Note: Device mounting on door: earthing braid (cat. no. LVS08910) or earthing wire (cat. no. LVS08911) mandatory.

Installation in a switchboard

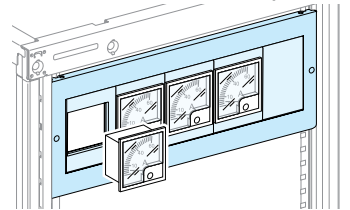
On a metal front plate with cut-outs, H = 150 mm (3 modules)



- > Devices are attached directly to the metal front plate.
- > Blanking plates are available to blank off any unused locations.
- > Economical solution.

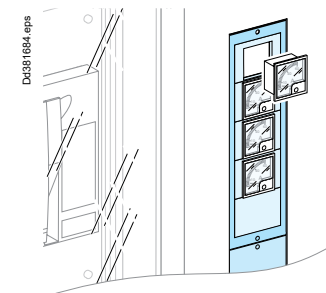
①

- > In the device zone of enclosures and cubicles, like a front plate



②

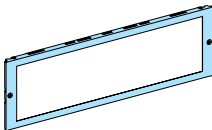
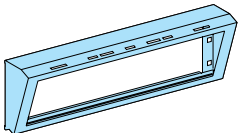
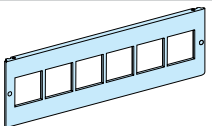
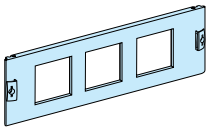
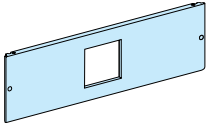
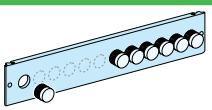
- > On a door with cut-outs in a 300 or 400 mm wide cubicle
- > On a inclined visor



The degree of protection for installed devices is IP30.

Notes:

- With a power voltage > SELV (12 V), devices on front plates must be mounted with a front plate hinge kit (cat no. LVS08585). The earthing braid must be connected to the front plate frame support (cat no. LVS08566, LVS08564, LVS08560, LVS08562 or else).
- With a power voltage > SELV (12 V) and a supply protection > 16 A, in addition to the preceding rule, the front plate frame support (cat no. LVS08566, LVS08564, LVS08560, LVS08562 or else) must be connected to the cubicle frame, using an earthing braid (cat no. LVS08910 or LVS08911). (standard NF / EN 61439-1 2011 edition).

Number and type of devices per row	Metal front plate with cut-out	No. of vertical mod.	Plastic mounting plates with cut-out	Blanking plate or devices support	
W650 mounting on an interface with plastic mounting plates					
5 x 72 x 72 Vigirex and others devices 72 x 72	 DD385459 eps	3	 DD385465 eps	 To blank-off or install: - 1 to 4 Ø 16 or 22 mm buttons - 1 device, 45 x 45	
4 x 96 x 96 Power Meter and others devices 96 x 96			 DD385467 eps	 DD385468 eps	To blank-off or install: - 1 to 4 Ø 16 or 22 mm buttons - 1 device, 45 x 45 - one 72 x 72 device
2 x 96 x 96 For PM200, 200P, PM5 and PM8 series meters			LVS03904	LVS03903	LVS03901
W650 mounting on an inclined visor by 30° with plastic mounting plates					
5 x 72 x 72 Vigirex and others devices 72 x 72	 DD385459 eps	3	 DD385465 eps	 DD385466 eps	To blank-off or install: - 1 to 4 Ø 16 or 22 mm buttons - 1 device, 45 x 45
4 x 96 x 96 Power Meter and others devices 96 x 96			 DD385467 eps	 DD385468 eps	To blank-off or install: - 1 to 4 Ø 16 or 22 mm buttons - 1 device, 45 x 45 - one 72 x 72 device
2 x 96 x 96 For PM200, 200P, PM5 and PM8 series meters			LVS03928 ⁽¹⁾	LVS03903	LVS03901
W650 direct mounting on a metal front plate with cut-outs					
72 x 72 device					
6 x 72 x 72 Vigirex and others devices 72 x 72	 DD385460 eps	3	Direct mounting	 DD385469 eps	To blank-off or install: - 1 or 2 Ø 22 mm buttons - 1 device, 45 x 45
LVS03910		—	LVS03907		
96 x 96 device					
3x 96 x 96 Power Meter and others devices 96 x 96	 DD119465 eps	3	Direct mounting	 DD385470 eps	To blank-off or install: - 1 or 2 Ø 22 mm buttons - 1 device, 45 x 45 - one 72 x 72 device
LVS03911		—	LVS03908		
1 x 96 x 96 Power Meter and others devices 96 x 96	 DD385462 eps	3	Direct mounting	 DD385470 eps	To blank-off or install: - 1 or 2 Ø 22 mm buttons - 1 device, 45 x 45 - one 72 x 72 device
LVS03913		—	LVS03908		
144 x 144 device + 72 x 72 devices					
1 x 144 x 144 144 x 144 device + devices 72 x 72		4	Direct mounting	 DD385469 eps	To blank-off or install: - 1 or 2 Ø 22 mm buttons - 1 device, 45 x 45
4 x 72 x 72			—	LVS03907	
W650 pushbuttons and lamps Ø 22 mm					
12 x Ø 22 mm	 DD385464 eps	2	Direct mounting		
LVS03914		—	—		
W400 front plate					
1 x 96 x 96 Power Meter and others devices 96 x 96	 DD385660 eps	3	Direct mounting	 DD385470 eps	To blank-off or install: - 1 or 2 Ø 22 mm buttons - 1 device, 45 x 45 - one 72 x 72 device
LVS03923		—	LVS03908		

(1) The visor (cat. no. LVS03928) can be installed on a plain door with cut-out.

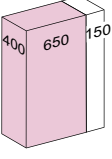
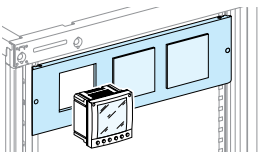
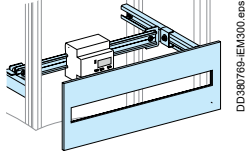
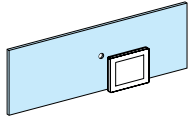
(2) For PM200, 200P, PM5 and PM8 series meters, use 2 no. blank off sheets between each meter.

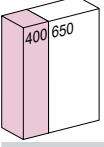
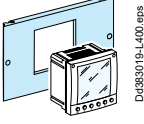
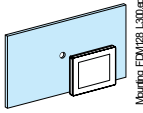
Metering and human-switchboard interface

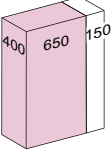
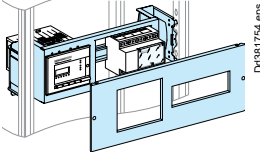
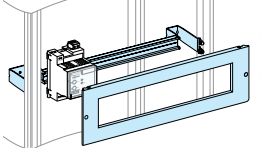
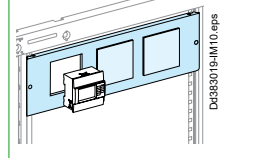
PowerLogic™ Meters

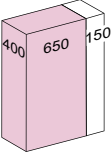
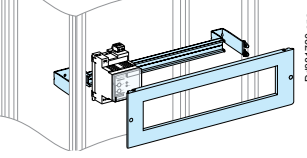
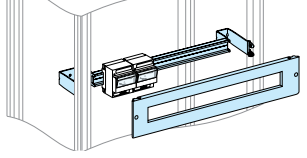
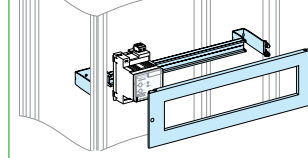
Vigilohm, Vigirex

Others

Mounting	Powerlogic system				
					
Devices	FDM121, PM5000 and PM8000 series ⁽²⁾		PM3000 series, IEM2000 and iEM3000 series	FDM128 ⁽¹⁾	PM5RD, PM89RD96, PM5563RD ⁽³⁾
Number of vertical mod.	3	3 devices	3 or 4	4	4
DIN rail	—	—	LVS03402	—	LVS03402
Front plates [No. of vert. modules]	transparent plain	—	LVS03342 ^[4]	—	—
	with cut-out	—	—	LVS03804 ^[4]	LVS03804 ^[4]
Front plate	With cut-out for devices 96 x 96			Hole ø 22 mm to be stamped	Hole ø 30 mm to be stamped

Mounting	Powerlogic system		
			
Devices	FDM121, PM5000 series, PM8000 series ⁽²⁾	FDM128 ⁽¹⁾	PM5RD, PM89RD96, PM5563RD ⁽³⁾
Number of vertical mod.	3	4	4
DIN rail	—	—	LVS03404
Front plates [No. of vert. modules]	with cut-out plain	—	—
	—	LVS03814 ^[4]	LVS03814 ^[4]
Front plate	With cut-out for devices 96 x 96	Hole ø 22 mm to be stamped	Hole ø 30 mm to be stamped

Mounting	Vigilohm		
			
Devices	IM400 with 3 XD301 or with 1 or 2 IFL12	IM10, IM10H, IM20, IM20H HV-IM20, HV-IM400, IM9, IM9-OL	IM10 / IM10H IM20 / IM20H
Number of vertical mod.	6	3	3
Modular rail	—	LVS03401	—
Mounting plates	LVS03930	—	—
Front plates with cut-outs	LVS03932	LVS03203	LVS03911
Characteristics	Installation in the device compartment		

Mounting	Vigirex	Acti 9	
			
Devices	RH10/RH21/RH99/RH197M relays	Lamps, pushbuttons	Ammeter, voltmeter
Number of vertical mod.	3	2	3
Modular rail	LVS03401	LVS03401	LVS03401
Front plates with cut-outs	LVS03203	LVS03202	LVS03203
Blanking strip	LVS03220	LVS03220	LVS03220
plate divisible	LVS03221	LVS03221	LVS03221
Characteristics	Installation in the device compartment		

(1) For 72 x 72 mm cases > page E-76.

(2) Only for flush-mounted versions of PM5000 series and PM8000 series.

(3) Only for remote-display versions of PM5000 series and PM8000 series.

Linergy Distribution Systems

Contents

Power busbars

Linerger LGYE	
Horizontal profiles up to 3200 A	E-82
Linerger LGY	
Lateral profiles up to 3200 A	E-83
Linerger LGYE	
Lateral profiles up to 3200 A	E-84
Linerger busbars	
Accessories	E-85

Distribution blocks

Linerger DP	
Quick distribution blocks - ComPacT NSX and INS-INV up to 250 A	E-86
Quick distribution blocks - ComPacT NSXm up to 160 A	E-87

Device feeders

Linerger FC	
Feeders for ComPacT NSX and INS-INV up to 250 A	E-88
Feeders for ComPacT NSXm up to 160 A	E-90

Secondary distribution

Insulated flexible bars	E-92
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Distribution blocks

Linerger DX	
Quick distribution blocks	E-94

Device feeders

Linerger FM	
Quick device feeders	E-96

Distribution blocks

Linerger DS	
Screw distribution blocks	E-98

Device feeders

Linerger FH	
Comb busbar for 27 mm pitch for C120, NG125	E-100
Comb busbar for 18 mm pitch for Acti 9	E-101
Horizontal comb busbar for 9 mm pitch for Acti 9, C60	E-102
Horizontal comb busbar for 9 mm pitch for Acti 9	E-103
Horizontal comb busbar for 18 mm pitch for Domae	E-104
Horizontal biconnect comb busbar for 18 mm pitch	E-105

Terminal blocks and lines

Linerger TA	
Auxiliary connections	E-106
Linerger TB	
Earth bars	E-108
PE conductors	E-109

Secondary distribution

Linerger TB terminal block support	E-110
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Electrical characteristics

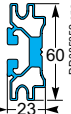
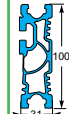
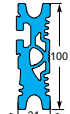
Designing connection ≤ 630 A	
Auxiliary connections	E-111
Linerger TR	
Terminal blocks	E-112
Linerger cable ends	
Mounting and cabling accessories	E-114

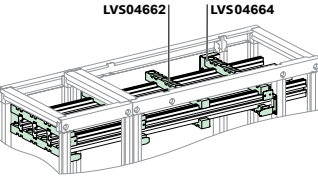
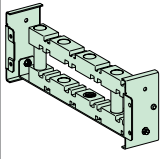
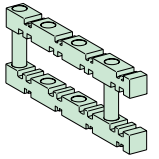
Linerage LGYE

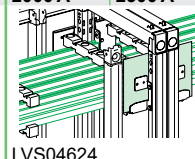
Horizontal profiles up to 3200 A

400 mm deep installation

Power busbars

Linerity LGYE profiles									
Installation		Up to 1600 A					Up to 2500 A		Up to 3200 A
Linerity profiles, 2000 mm length									
		630 A	800 A	1000 A	1250 A	1600 A	2000 A	2500 A	3200 A
Permissible current for an ambient temperature of 35 °C around the switchboard	IP ≤ 31	630 A	800 A	1000 A	1250 A	1650 A	2000 A	2440 A	3200 A
Number of profiles per phase		1							
Total number of vertical modules (50 mm)		3					3		4
Catalog numbers		LVS04560	LVS04561	LVS04562	LVS04563	LVS04564	LVS04565	LVS04566	LVS04567

Busbar supports			
		 	
Characteristics		Fixed support LVS04664 Free support LVS04662 Two fixed supports for 650 mm or 650 + 150 mm wide PrismaSeT P frameworks and one fixed support for 300/400 mm wide PrismaSeT P frameworks are mandatory. If more supports are required, use free supports. Note: In case of 600 mm depth with 115 mm between centers, replace LVS04664 fixed support by LVS04665 and LVS04662 free support by LVS04678.	
In cubicle	Number of supports	≤ 15	2
W = 650 or	depending on	≤ 25	2
W = 650+150	lcw (kA rms/1 s)	≤ 30	2
busbar		≤ 40	2
supports		≤ 50	2
75 mm between		≤ 60	2+1
centres		≤ 65	2+1
		≤ 75	2+1
		≤ 85	2+1
		≤ 100	2+3
Catalog numbers		Fixed support	LVS04664
		Free support	LVS04662
In cubicle	Number of supports	≤ 100	2 + 4 ⁽³⁾
W = 800	depending on lcw	(kA rms/1 s)	
busbar			
supports			
75 mm between			
centres			
Catalog numbers		Fixed support	LVS04664
		Free support	LVS04662
In duct	Number of supports	≤ 60	1
W = 300	depending on lcw	≤ 85	1 + 1
busbar	(kA rms/1 s)	≤ 100	1 + 1
supports			
75 mm between			
centres			
Catalog numbers		Fixed support	LVS04664
		Free support	LVS04662
In duct	Number of supports	≤ 50	1
W = 400	depending on lcw	≤ 85	1 + 1
busbar	(kA rms/1 s)	≤ 100	1 + 1
supports			
75 mm between			
centres			
Catalog numbers		Fixed support	LVS04664
		Free support	LVS04662

Joints								
	Up to 1600 A					Up to 2500 A		Up to 3200 A
	630 A	800 A	1000 A	1250 A	1600 A	2000 A	2500 A	3200 A
								
	DD384635-LIN.ai		DD384688-LIN.eps					DD384615-LIN.eps
	LVS04620		LVS04623			LVS04624		
Catalog numbers	3 x LVS04620 (3P) 4 x LVS04620 + LVS04624 (4P)					3 x LVS04621 (3P) 4 x LVS04621 + LVS04624 (4P)		3 x LVS04623 (3P) 4 x LVS04623 + LVS04624 (4P)
Note	LVS04624 is mandatory in case of jointed 4P Linergy LGYE busbars installations and must be installed only at the junction on side-by-side frameworks combination. When installed at the bottom of cubicles, the busbars must be partitioned.							

(1) LVS04671: mounting hardware for bars or profile H = 100 or 120 mm. Contains 2 threaded rods and 4 insulators.

(2) LVS04646: mounting hardware for bars or profile H = 150 mm. Contains 2 threaded rods and 2 insulators. **Note:** For accessories > page E-85.

(3) It is applicable for W = 800 mm control panel configuration only.

Note: Busbar supports are specified as "fixed + free." The first number indicates fixed supports, and the second number indicates free supports.

Linerigy LGY

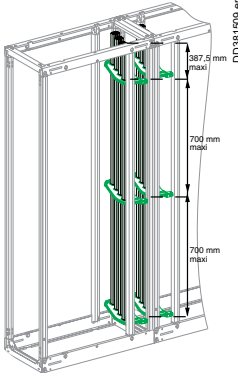
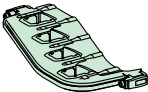
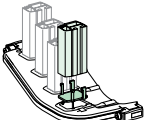
Lateral profiles up to 3200 A

400 mm deep installation

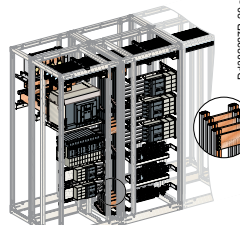
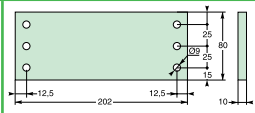
Power busbars

Linerigy LGY profiles		Up to 1600 A (simple busbars)					Up to 3200 A (double busbars)		
In duct Linerigy profiles, 1670 mm length		W150					2 x W150		
									
Permissible current for an ambient IP ≤ 31 temperature of 35 °C around the switchboard		630 A 680 A	800 A 840 A	1000 A 1040 A	1250 A 1290 A	1600 A 1650 A	2 x 1000 A 2000 A	2 x 1250 A 2500 A	2 x 1600 A 3200 A
Number of profiles per phase		1					2		
Catalog numbers		LVS04502	LVS04503	LVS04504	LVS04505	LVS04506	LVS04504	LVS04505	LVS04506

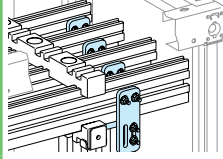
Busbar supports

	 DD380741-UN.epps		
	Fixed support LVS04651		
Characteristics	 DD380742-UN-12.epps	An end stop must be installed on the bottom support: LVS01109 (set of 12).	
Number of supports depending on I _{cw} (kA rms/1 s)	≤ 25	3	2 x 3
	≤ 30	3	2 x 3
	≤ 40	3	2 x 3
	≤ 50	4	2 x 3
	≤ 60	5	2 x 4
	≤ 65	5	2 x 4
	≤ 75	7	2 x 5
	≤ 85	8	2 x 5
	Catalog numbers	Fixed support	LVS04651
		Chock	LVS01109

Equipotential links

	3 equipments must be installed between the busbars.		Connection made with a flat 80 x 10 mm busbar between 2 W150 ducts
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Connections to the horizontal Linergy LGYE busbars

	≤ 1600 A
Characteristics	Supplied with mounting hardware. Catalog numbers include 1 connection only: 1 connection per phase.
Cat. no. according to horizontal busbar size	LVS04602 (vertical connection) LVS04603 (vertical shifted connection) ⁽¹⁾

(1) Dedicated connection **LVS04603** for Linergy LGYE busbar in 150 mm duct with horizontal jointing(2) **LVS04642**: mounting hardware for bars > 80 mm. Comprises 2 threaded rods.

Linerigy LGYE

Lateral profiles up to 3200 A

400 mm deep installation

Power busbars

Linerigy LGYE profiles									
		Linerigy profile, 2000 mm length ⁽¹⁾					Linerigy profile, 1625 mm length		
In duct		W150					W150	W300	
Linerigy profile									
		630 A	800 A	1000 A	1250 A	1600 A	2000 A	2500 A	3200 A
Permissible current for an ambient temperature of 35 °C around the switchboard	IP ≤ 31	630 A	800 A	1000 A	1250 A	1650 A	2000 A	2440 A	3200 A
Length to cut for side mounting		1675 mm					—	—	
Number of profiles per phase		1							
Catalog numbers		LVS04560	LVS04561	LVS04562	LVS04563	LVS04564	LVS04507	LVS04508	LVS04509
Busbar supports									
	Characteristics	Attach directly to the framework. Three fixed supports are required to maintain the busbars. If more than three supports are required, use additional free supports. The bottom support maintains the bars in position. It is not considered a busbar support. Note: In case of 600 mm depth with 115 mm between centers, replace LVS04661 fixed support by LVS04668, free support LVS04662 by LVS04678 and bottom support LVS04663 or LVS04666 by LVS04673.							
	Number	≤ 30	3				3		
	depending on I _{cu}	≤ 40	3+2				3		
	(kA rms/1 s)	≤ 50			3+2		3		
		≤ 60			3+2				3
		≤ 65			3+2				
		≤ 75			3+4				3+2
		≤ 85			3+4				
		≤ 100					3+6		
In duct W150, W = 300 busbar supports 75 mm between centres	Catalog numbers	Fixed support	LVS04661				LVS04661 + LVS04671 ⁽²⁾		LVS04661 + LVS04646 ⁽³⁾
		Free support	LVS04662				LVS04662 + LVS04671 ⁽²⁾		LVS04662 + LVS04646 ⁽³⁾
Busbars chocks									
Characteristics		Chocks installed on a bottom support LVS04658 The bottom support maintains the sections in position. It is not considered a busbar support.							
In duct W150, W = 300	Catalog numbers	Bottom support	LVS04663				LVS04666 + LVS04661		
		Chocks	LVS04658				LVS04659		
Connections to the horizontal Linergy LGYE busbars									
Characteristics		630 to 1600 A				2000 to 2500 A		3200 A	
		Supplied with mounting hardware. Catalog numbers include 1 connection only: 1 connection per phase.							
Cat. no. according to horizontal busbar size		LVS04602 (straight connection) LVS04603 (shifted connection)				LVS04604 (short connection) LVS04605 (long connection)		LVS04607	

(1) Linergy LGYE profiles up to 1600 A must be cut at the dimension of the cubicle : 1625 mm

(2) LVS04671: mounting hardware for bars or profile H = 100 or 120 mm. Contain 2 threaded rods and 4 insulators.

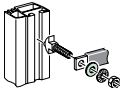
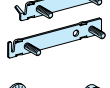
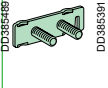
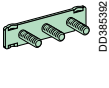
(3) LVS04646: mounting hardware for bars or profile H = 150 mm. Contain 2 threaded rods and 3 insulators.

Note: Busbar supports are specified as "fixed + free." The first number indicates fixed supports, and the second number indicates free supports.

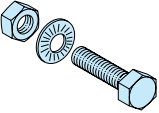
Linerage busbars

Accessories

Power busbars

Accessories										
	 DD3885390 eps		 DD3817219-LIN-15 eps			 DD3817222-LIN-10 eps	 DD3855302 eps	 DD3855301 eps	 DD3855302 eps	
	Linerage connection hardware		Steel flat washers			Brass flat washers	Markers	Screwplate		
Cat. no.	LVS04766	LVS04767	LVS04772	LVS04773	LVS04774	LVS04775	LVS04794	LVS01130	LVS04768	LVS04769
Characteristics	L 25 mm	L 39 mm	20 mm ext. Ø	24 mm ext. Ø	28 mm ext. Ø	20 mm ext. Ø		2 studs	2 studs	3 studs
	Set of 20: 20 bolts + 20 nuts + 20 contact washers, class 8.8. The screws slide into the profile and are then locked in the desired position		M8 set of 20			M8 sold in lots of 20 for connection of ≤ 25 mm² lugs to Linergy	12 clip-on supports + N, L1, L2, L3, PE, PEN labels	Linerage LGYE busbars connection kit spare part	Set of 12 flat plates with 2 studs + 24 torque nuts + 24 contact washers The plates slide along the profile	Set of 8 flat plates with 3 studs + 24 torque nuts + 24 contact washers The plates slide along the profile

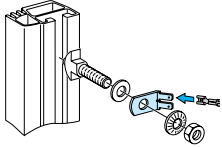
M8 bolts

		
Linerage BS, 20 bolts class 8.8	Characteristics	Set of 20 bolts + 20 nuts + 40 contact washers.
	Catalog numbers	LVS04782
		LVS04783
		LVS04784
		LVS04785
		LVS04786
		LVS04787
		LVS04788

Torque nuts

		
20 M8 torque nuts	Characteristics	Can be used to obtain the correct tightening torque (28 Nm) recommended by the manufacturer, without using a torque wrench. Torque nuts may be used for all electrical connections.
	Catalog numbers	LVS04759

Voltage tap-offs

		
20 Voltage tap-offs M10 pour 2 clips 6.35	Characteristics	For small lugs (on low-current cables or measurement tap-offs), insert a conducting washer (cat. no. LVS04775) between the busbar and the lug.
	Catalog numbers	LVS04229



Connections on Linergy LGE and LGY

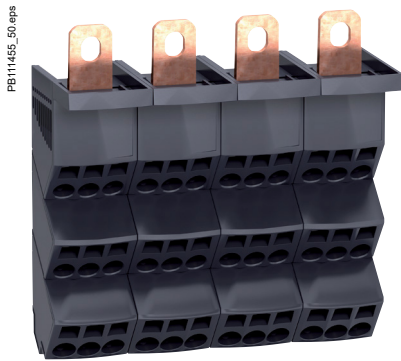
InA (A)		Connecting to Linergy LGE	Connecting to Linergy LGY
0 to 630	Cable - Insulated flexible bars	25 mm Linergy connection hardware used	25 mm Linergy connection hardware used
800 to 1250	5 mm bars	25 mm Linergy connection hardware used	25 mm Linergy connection hardware used
1600 to 2500	5 mm or 10 mm bars	Use of the 2 studs flat plate	39 mm Linergy connection hardware used
3200 to 4000	10 mm bars	Use of the 3 studs flat plate	—

Note: Jointing between 2 busbars (horizontal/vertical or horizontal/horizontal) must be mandatory done with studs plates.

Linerigy DP

Quick distribution blocks - ComPacT NSX and INS-INV up to 250 A

Distribution blocks



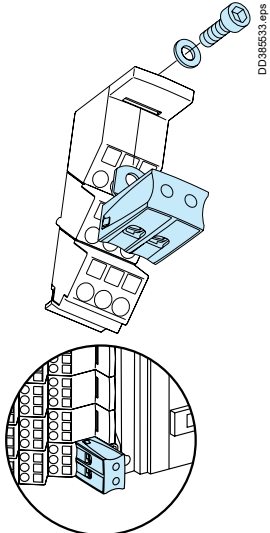
IEC 60947-7-1, IEC 61439-1 and 2

Description

■ The Linergy DP quick distribution block is designed for installation directly downstream of ComPacT NSX and INS-INV up to 250 A. It can also be clipped onto a modular rail.

Advantages

- It is quick to mount in the horizontal position. Electrical connections are made directly to the device terminals.
- It is the same width as the devices and does not take up any additional space in the switchboard.
- The connection terminals are slanted to facilitate cable entry and avoid exceeding the bending radius of the flexible and rigid cables.

Quick distribution blocks for ComPacT devices				Additional block
Number of poles	3P	4P	3P/4P	
	 PB11454-15-eps	 PB11455-15-eps	 PB502519-11-eps	 DD38533-eps
Rated operational current (Ie)	250 A	250 A	250 A	
Rated peak withstand current (Ipk)	30 kA	30 kA	30 kA	
Rated short-time current (Icw)	8.5 kA rms/1 s	8.5 kA rms/1 s	—	
Thermal stress (I².t)	7.225 x 10⁷	7.225 x 10⁷	—	
Total connection capacity, outgoing terminals	27 connections: 6 x 10²/phase 3 x 16²/phase	36 connections: 6 x 10²/phase 3 x 16²/phase	2 connections: 2 x 35²/pole	
Incomer terminals	1 cable lug 120 mm² per pole	—	—	
Dimensions (H x W x D)	105 x 138 x 63	140 x 138 x 64	—	
Installation	On mounting plate or DIN rail	—	On mounting plate	
Product certifications	ASEFA	—	—	
Standard for installation inside PrismaSeT	IEC 61439-1-2	—	—	
Glow-wire 60695-2-11	960 °C	—	—	
Catalog numbers	LVS04033	LVS04034	LVS04155 (3P) LVS04156 (4P)	

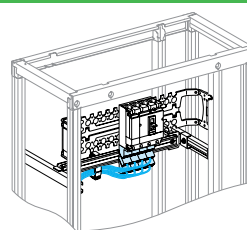
Technical Data

Common characteristics

Rated conditional short-circuit current of an assembly (Isc)	The reinforced breaking capacity due to cascading in circuit-breaker combinations is maintained. The worst-case situations have been tested.
Rated insulation voltage (Ui)	750 V AC
Rated operational voltage (Ue)	690 V AC
Rated impulse withstand voltage (Uimp)	8 kV
Network frequency	50/60 Hz
Degree of protection	IPxxB
Degree of pollution	3
Overvoltage category	III
Additional technical characteristics	
Reference temperature	40 °C
Operating temperature	-25 °C to 55 °C

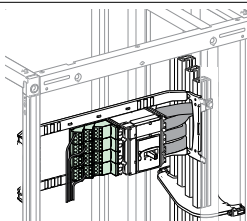
Installation

DD381402-eps



It can also be mounted downstream of vertically mounted **ComPacT NSX100/250** and **ComPacT INS-INV250** devices in the enclosures. In this case, the Linergy DP is mounted on a depth-adjustable modular rail.

DD385361-eps



Directly on the mounting plates of horizontally mounted **ComPacT NSX100/250** and **ComPacT INS-INV250** devices in the enclosures.

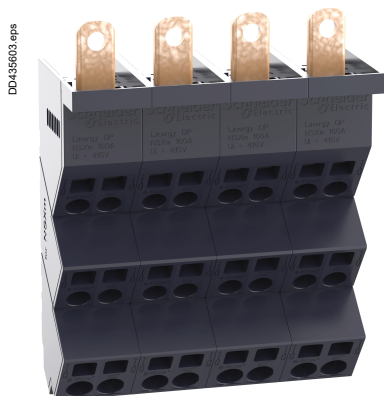
For details on mounting plates, refer [pages E-52, E-53 and E-54](#).

Note: Electrical characteristics > [page E-111](#).

Linergy DP

Quick distribution blocks - ComPacT NSXm up to 160 A

Distribution blocks



IEC 60947-7-1, IEC 61439-1 and 2

Description

■ The Linergy DP quick distribution block is designed for installation directly downstream of ComPacT NSXm up to 160 A. It can also be clipped onto a modular rail.

Advantages

- It is quick to mount in the horizontal position. Electrical connections are made directly to the device terminals.
- It is the same width as the devices and does not take up any additional space in the switchboard.
- The connection terminals are slanted to facilitate cable entry and avoid exceeding the bending radius of the flexible and rigid cables.

Quick distribution blocks for ComPacT devices

Number of poles	3P	4P
		
Rated operational current (Ie)	160 A	160 A
Rated peak withstand current (Ipk)	20 kA	20 kA
Rated short-time current (Icc)	70 kA	70 kA
Thermal stress (I².t)	4.7 x 10⁶ A²S	4.7 x 10⁶ A²S
Total connection capacity, outgoing terminals	18 connections: 4 x 10²/phase 2 x 16²/phase	24 connections: 4 x 10²/phase 2 x 16²/phase
Incomer terminals	1 cable lug 70 mm² per pole	
Dimensions (H x W x D)	140 X 81 X 58 mm	140 X 108 X 58 mm
Installation	On mounting plate or DIN rail	
Product certifications	ASEFA	
Standard for installation inside PrismaSeT	IEC 61439-1-2	
Glow-wire 60695-2-11	960 °C	
Catalog numbers	LVS04038	LVS04039

E

Technical Data

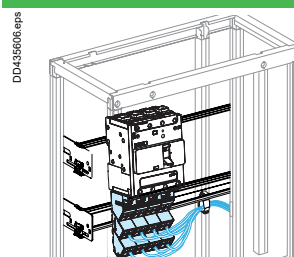
Common characteristics

Rated conditional short-circuit current of an assembly (Isc)	The reinforced breaking capacity due to cascading in circuit-breaker combinations is maintained. The worst-case situations have been tested.
Rated insulation voltage (Ui)	800 V AC
Rated operational voltage (Ue)	690 V AC
Rated impulse withstand voltage (Uimp)	8 kV
Network frequency	50/60 Hz
Degree of protection	IPxxB
Degree of pollution	3
Overvoltage category	III

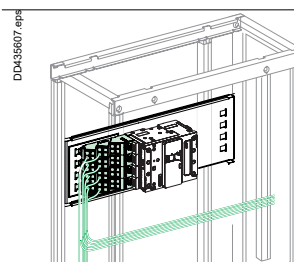
Additional technical characteristics

Reference temperature	40 °C
Operating temperature	-25 °C to 55 °C

Installation



It can also be mounted downstream of vertically mounted **ComPacT NSXm** devices in the enclosures. In this case, the Linergy DP is mounted on a depth-adjustable modular rail.



Directly on the mounting plates of horizontally mounted **ComPacT NSXm** devices in the enclosures.

For details on mounting plates, refer [page E-55](#).

Note: Electrical characteristics > [page E-111](#).

Linergy FC

Feeders for ComPacT NSX and INS-INV up to 250 A

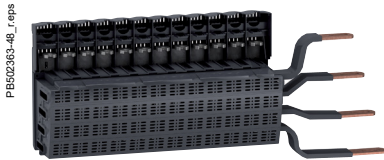
Device feeders

IEC 61439-1 and 2

Description

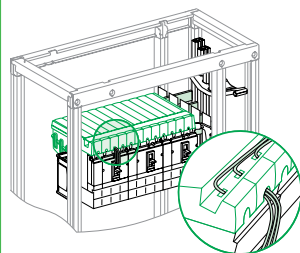
Linergy FC is an insulated horizontal distribution block. It connects directly to the mounting plate and can supply:

- Three 4P and four 3P ComPacT NSX circuit breakers, whatever the ratings (100, 160 or 250 A), the operating systems (toggle, rotary handle, motor mechanism), whether fixed or plug-in, front or rear connection (the circuit breakers must be equipped with long terminal shields downstream).
- Three 4P or four 3P ComPacT INS-INV switch-disconnectors, whatever the ratings (100, 160 or 250 A), whether front or rear connection.
- The design and small size blend thoroughly with the devices.
- It can be supplied by Linergy LGY busbars positioned to the left or right.
- Fully insulated, Linergy FC helps to protect life and property. Numerous and well distributed vents ensure natural convection and optimum cooling of the conductors.
- The circuit breakers can be easily connected from the front. It is simple to interchange a device or to add a device in a reserve slot.
- There are markings (N, L1, L2, L3) on the front and the sides for the phases.
- The running of auxiliary cables between the devices and the corresponding terminal blocks is also taken into account. Spacious trunking is built into the blocks for the auxiliary wiring.

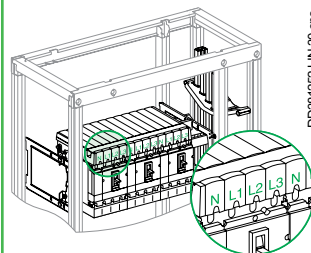


	ComPacT NSX100/250 and INS-INV250 - Toggle, fixed		ComPacT NSX100/250 - Rotary handle, motor mechanism - plug-in, fixed, ComPacT NSX100/250 - All controls, withdrawable		ComPacT NSX100/250 and INS-INV250 - All controls, fixed and withdrawable	
	 PB502507-48_r_eps		 DD435608_eps		 PB502508-32_r_eps	
	Linergy FC with prefabricated connections by insulated flexible bars ⁽¹⁾		Linergy FC with prefabricated connections ⁽¹⁾		Linergy FC without prefabricated connections ⁽¹⁾	
Number of poles	3P	4P	3P	4P	3P	4P
Connection to	Linergy LGY busbars		Linergy LGY or Linergy LGYE busbars		Linergy LGY or Linergy LGYE busbars	
Number of devices	4	3	4	3	4	3
Composition	Self-adhesive labels to mark the phases for connections to the busbars.					
Mounting plates						
Toggle, Fixed, NSX100/250	LVS03420	LVS03420	–	–	LVS03420	LVS03420
Toggle, Plug-in, NSX100/250	–	–	LVS03423	LVS03423	LVS03423	LVS03423
Rotary handle, motor mechanism - plug-in, Fixed, NSX100/250	–	–	LVS03422	LVS03422	LVS03422	LVS03422
Cat. no.	LVS04403	LVS04404	LVS04405	LVS04406	LVS04407 ⁽²⁾	LVS04408 ⁽²⁾

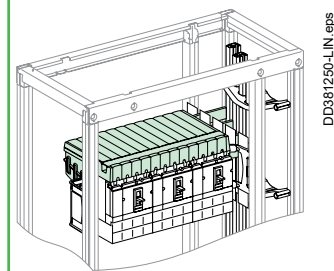
Implementation



Auxiliary wires running in the built-in trunking.



Phase marking on the front of the distribution block.



(1) The connection of a Linergy FC distribution block using pre-wired connectors or insulated flexible bars is not compatible with Form 2 partitioning (LVS04922). In this case, use the form 2 restoration kit (LVS04924).

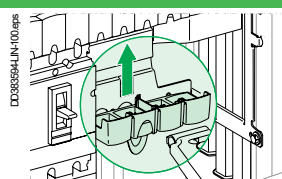
(2) For the connection, use insulated flexible bars, 32 x 8 mm cat. no. LVS04753; Each connection must not be longer than 500 mm. This size is validated with Schneider Electric insulated flexible bars.

Linerity FC

Feeders for ComPacT NSX and INS-INV up to 250 A

Device feeders

Accessories



Tooth caps

The caps block off the reserve terminals on a Linergy FC distribution block. Made of an insulating material, they simply clip on from the front.

Catalog numbers

LVS04809

Characteristics

Common characteristics

Rated operational current at 40°	(Ie)	Distribution-block derating follows the normal derating curves of ComPacT NSX and INS-INV.
Rated conditional short-circuit current of an assembly	(Isc)	The reinforced breaking capacity due to cascading in circuit breaker combinations is maintained. The worst-case situations have been tested. The electrical characteristics are perfectly compatible with the connected devices. Neither the temperature derating curves nor the performance levels of the circuit breakers and switch-disconnectors are altered.
Rated insulation voltage	(Ui)	750 V AC
Rated operational voltage	(Ue)	690 V AC
Rated impulse withstand voltage	(Uimp)	8 kV
Rated peak withstand current	(Ipk)	50 kA rms
Rated short-time current with upstream protection of 85 kA lcc	(Icc)	85 kA
Thermal stress	(I².t)	2.500 x 10⁷
Rated conditional short-circuit current of an assembly		Short-circuit withstand current compatible with the breaking capacity of the ComPacT NSX circuit breakers connected to the distribution block.

Linerity FC selection table for special cases

For most installations, the temperature around the switchboard is 40 °C, corresponding to an average temperature of 60 °C inside the switchboard.

Under certain conditions, the temperature inside the switchboard may be different.

(A) Rated operational current as a function of the temperature inside the switchboard

Temperature (°C)		40	45	50	55	60	65	70
I _{nc} (A)	3P	800	800	775	750	725	700	675
	4P	675	675	655	635	615	595	570

To obtain the maximum permissible current for the linergy FC, apply the diversity factor K:

- Linergy FC 3P: K = 0.8
- Linergy FC 4P: RDF = 0.9.

Linergy FC

Feeders for ComPacT NSXm up to 160 A

Device feeders

IEC 61439-1 and 2

Description

Linergy FC is an insulated horizontal distribution block. It connects directly to the mounting plate and can supply:

- Four 4P and five 3P ComPacT NSXm circuit breakers (four 3P and 4P for ComPacT NSXm Vigi), whatever the ratings (63, 100 or 160 A) with toggle and direct rotary handle operating mechanism.
- The design and small size blend thoroughly with the devices.
- It can be supplied by Linergy LGYE and Linergy LGY busbars positioned to the left or right.
- Fully insulated, Linergy FC helps to protect life and property. Numerous and well distributed vents ensure natural convection and optimum cooling of the conductors.
- The circuit breakers can be easily connected from the front. It is simple to interchange a device or to add a device in a reserve slot.
- There are markings (N, L1, L2, L3) on the front and the sides for the phases.
- The running of auxiliary cables between the devices and the corresponding terminal blocks is also considered. Spacious trunking is built into the blocks for the auxiliary wiring.

DD435609.eps

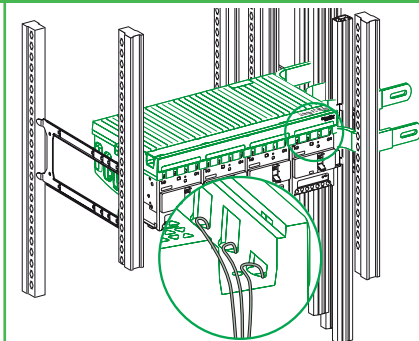


DD435610.eps



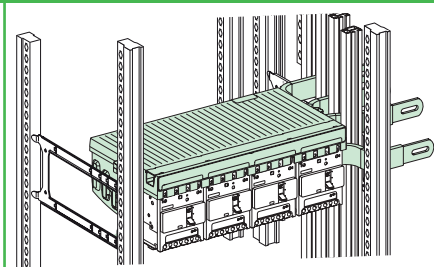
	ComPacT NSXm - Toggle (with Everlink terminal)		ComPacT NSXm - Toggle/ DRH (with Everlink terminal)			
						
	Linergy FC with prefabricated connections by insulated flexible bars ^{(1) (2)}		Linergy FC with prefabricated connections ^{(1) (2)}		Linergy FC without prefabricated connections ^{(1) (2)}	
Number of poles	3P	4P	3P	4P	3P	4P
Connection to	Linergy LGY busbars		Linergy LGYE busbars			
Number of devices	5 ⁽³⁾	4	5 ⁽³⁾	4	5 ⁽³⁾	4
Mounting plates	LVS03416	LVS03416	LVS03416	LVS03416	LVS03416	LVS03416
Cat. no.	LVS04410	LVS04411	LVS04412	LVS04413	LVS04419 ⁽⁴⁾	LVS04420 ⁽⁴⁾
	LVS04416 ⁽⁴⁾		LVS04417		LVS04418 ^{(4) (5)}	

Implementation



DD435612.eps

Auxiliary wires running in the built-in trunking.



DD435613.eps

(1) The connection of a Linergy FC distribution block using pre-wired connectors or insulated flexible bars is not compatible with Form 2 partitioning (LVS04922). In this case, use the form 2 restoration kit (LVS04924).

(2) Linergy FC compatibility is limited to NSXm with Everlink connectors. Order only NSXm Everlink versions.

(3) Linergy FC configuration having NSXm with Vigi can mount four devices in a row for both 3P and 4P.

(4) For the connection, use insulated flexible bars, 32 x 6 mm cat. no. LVS04752; Each connection must not be longer than 500 mm. This size is validated with Schneider Electric insulated flexible bars.

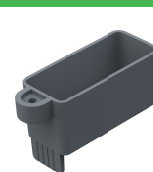
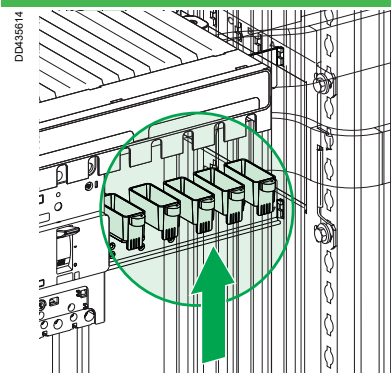
(5) The catalog reference number is used only with NSXm Vigi.

Linerger FC

Feeders for ComPacT NSXm up to 160 A

Device feeders

Accessories



Tooth caps

The caps block off the reserve terminals on a Linergy FC distribution block. Made of an insulating material, they simply clip on and install the screw from the front.

Catalog numbers

LVS04810

Characteristics

Common characteristics

Rated operational current at 40°	(Ie)	Distribution-block derating follows the normal derating curves of ComPacT NSXm.
Rated conditional short-circuit current of an assembly	(Isc)	The reinforced breaking capacity due to cascading in circuit breaker combinations is maintained. The worst-case situations have been tested. The electrical characteristics are perfectly compatible with the connected devices. Neither the temperature derating curves nor the performance levels of the circuit breakers and switch-disconnectors are altered.
Rated insulation voltage	(Ui)	800 V AC
Rated operational voltage	(Ue)	690 V AC
Rated impulse withstand voltage	(Uimp)	8 kV
Rated peak withstand current	(Ipk)	18 kA
Rated short-time current with upstream protection of 85 kA Icc	(Icc)	50 kA
Thermal stress	(I².t)	4.5 x 10⁶ A²S
Rated conditional short-circuit current of an assembly		Short-circuit withstand current compatible with the breaking capacity of the ComPacT NSXm circuit breakers connected to the distribution block.

Linerger FC selection table for special cases

For most installations, the temperature around the switchboard is 40 °C, corresponding to an average temperature of 60 °C inside the switchboard.

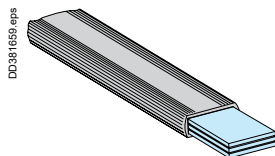
Under certain conditions, the temperature inside the switchboard may be different.

(A) Rated operational current as a function of the temperature inside the switchboard

Ambient Air Temperature outside panel (°C)		35	40	45	50
IP31 (A)	3P	600	575	550	525
	4P	500	480	460	440

Insulated flexible bars

Secondary distribution



The insulated flexible bars are tested in a type-tested switchboard environment. Their design takes into account the switchboard architecture where they are often in close proximity to a protection device (circuit breaker or fuse) with significant heat losses.

The sizes for the flexible bars indicated below take into account the heat losses of Schneider Electric devices in a PrismaSeT switchboard.

Characteristics

Length	1800 mm
Rated insulation voltage (Ui)	1000 V
Maximum withstand temperature for the insulating material	125 °C

Connection between device and busbars

The flexible bars are determined taking into account the connected device, whatever the internal temperature of the switchboard.

The bar sizes indicated below take into account the derating curves of devices.

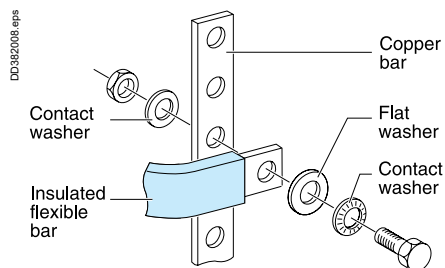
Devices	Size (mm)	Catalog number
NSX100	20 x 2	LVS04742
NSX160/250	20 x 3	LVS04743
NSX400	32 x 5	LVS04751
NSX630	32 x 8	LVS04753
NSX100 ELCB	20 x 2	LVS04742
NSX160/250 ELCB	20 x 3	LVS04743
NSX400 ELCB	32 x 5	LVS04751
NSX630 ELCB	32 x 8	LVS04753
INS-INV125/160	20 x 2	LVS04742
INS-INV250	20 x 3	LVS04743
INS-INV400	32 x 5	LVS04751
INS-INV630	32 x 6	LVS04752
FM 200 A Linergy	20 x 3	LVS04743
FC 3P Linergy	32 x 8 ⁽¹⁾⁽²⁾	LVS04753
FC 4P Linergy	32 x 8 ⁽¹⁾⁽²⁾	LVS04753
Fupact 250	24 x 5	LVS04746
Fupact 400	32 x 5	LVS04751
Fupact 630	32 x 8	LVS04753

⁽¹⁾ In case of use of 32 x 6 insulated flexible bar, please contact Schneider Electric.

⁽²⁾ Max length 500 mm per connection.

Note : For NSXm connection, there is no flat insulated flexible bar available. Choose a cable prefabricated connection > [page E-55](#).

Secondary distribution



Connection between busbars

Copper flexible bars are designed for connections between busbars taking into account the following characteristics:

- A maximum temperature of 60 °C inside the switchboard. This corresponds to the average temperature inside a switchboard for an ambient temperature of 35 °C.
- The maximum withstand temperature for the insulating material is 125 °C.

Ie ⁽¹⁾ max	Size (mm)	Catalog numbers
200 A	20 x 2	LVS04742
250 A	20 x 3	LVS04743
400 A	32 x 5	LVS04751
520 A	32 x 5	LVS04751
580 A	32 x 6	LVS04752
660 A	32 x 8	LVS04753

(1) Rated operational current.

Designing connections

> page E-92.

LinerGY DX

Quick distribution blocks

Distribution blocks



IEC 60947-7-1, IEC 61439-2

Description

- Downstream circuits are connected from the front, to spring terminals.
- Contact pressure automatically adapts to the size of the conductor.
- Contacts are insensitive to vibrations and thermal variations.
- Only one cable (flexible or rigid) can be inserted per terminal.

Quick distribution blocks

Number of poles	4P, upstream incoming	4P, downstream incoming
		
Rated operational current at 40° (Ie)	63 A	63 A
Rated conditional short-circuit current of an assembly (Isc)	The reinforced breaking capacity due to cascading in circuit breaker combinations is maintained. The worst-case situations have been tested. 150 kA with upstream protection of 150 kA Icc	
Rated peak withstand current (Ipk)	10 kA	10 kA
Rated insulation voltage (Ui)	500 V AC	500 V AC
Rated operational voltage (Ue)	440 V AC	440 V AC
Rated impulse withstand voltage (Uimp)	6 kV	6 kV
Rated short-time current (Icc)	150 kA	150 kA
Thermal stress (I².t)	9.03 x 10⁶	9.03 x 10⁶
Rated operational frequency	50/60 Hz	50/60 Hz
Degree of protection	IPxxB	IPxxB
Incoming terminals	1 tunnel terminal 25²/phase	1 tunnel terminal 25²/phase
Total connection capacity, outgoing terminals	24 connections: 4 x 6²/phase 12 x 6²/neutre	24 connections: 4 x 6²/phase 12 x 6²/neutre
Dimensions (H x W x D)	96.5 x 72 x 62 8 x 9 mm pitch	96.5 x 72 x 62 8 x 9 mm pitch
Installation	Clipped onto a DIN rail	Clipped onto a DIN rail
Others		
Standard for installation inside PrismaSeT	IEC 61439-2	IEC 61439-2
Glow-wire 60695-2-11	960 °C	960 °C
Degree of pollution	3	3
Catalog numbers	LVS04040	LVS04041

Accessories

Catalog numbers	–	–

Linerger DX

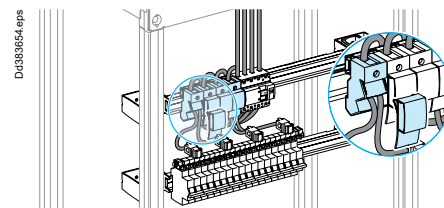
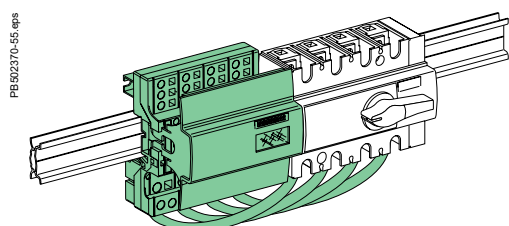
Quick distribution blocks

Distribution blocks

Advantages

- A reliable electrical connection, no maintenance required (tightness guaranteed over time).
- Quick connection.
- Easy phase balancing.
- Ease of rewiring if the switchboard is expanded or modified.

4P		1P
		
125 A	160 A	160 A
The reinforced breaking capacity due to cascading in circuit breaker combinations is maintained. The worst-case situations have been tested. 150 kA with upstream protection of 150 kA Icc		
20 kA	20 kA	24 kA
750 V AC	750 V AC	750 V AC
690 V AC	690 V AC	690 V AC
8 kV	8 kV	8 kV
150 kA	150 kA	150 kA
2.025 x 10 ⁷	2.025 x 10 ⁷	3.025 x 10 ⁷
50/60 Hz	50/60 Hz	50/60 Hz
IPxxB	IPxxB	IPxxB
1 tunnel terminal 35 ² /phase	Supplied with a prefabricated flexible connection equipped with tunnel terminals (for INS-INV100/160 use adaptor 28947 (3P) 28948 (4P))	1 tunnel terminal 70 ² /phase
52 connections: 7 x 4 ² /phase 3 x 6 ² /phase 2 x 10 ² /phase 1 x 16 ² /phase (screw terminal)	52 connections: 7 x 4 ² /phase 3 x 6 ² /phase 2 x 10 ² /phase 1 x 16 ² /phase (screw terminal)	6 connections: 6 x 16 ² /phase
127 x 108 x 48 12 x 9 mm pitch	127 x 108 x 48 12 x 9 mm pitch	95 x 36 x 70 4 x 9 mm pitch
Screwed to plain or slotted backplate or onto DIN rail	Screwed to plain or slotted backplate or onto DIN rail	Onto DIN rail
Possible to combine 2 terminal blocks (2 nd terminal block supplied from enclosed terminals in the 1 st , I _{max} of 2 nd terminal block: 80 A)		
IEC 61439-2	IEC 61439-2	IEC 61439-2
960 °C	960 °C	960 °C
3	3	3
LVS04045	LVS04046 ⁽¹⁾	LVS04031
4 x 125 A flexible connections, L = 240 mm with 1 end fitting for tunnel terminals.		4 x 160 A flexible connections, L = 380 mm with 2 x 45 mm ² end fittings for tunnel terminals.
LVS04047 ⁽¹⁾	—	LVS04149



Note: Electrical characteristics > page E-111.

⁽¹⁾ To be adapted with reference **28947** and **28948** for INS-INV160.

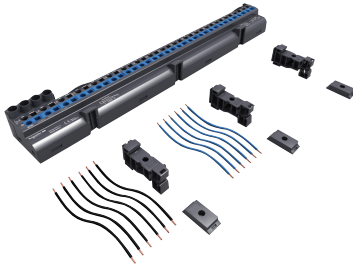
Version : 2.1 - 29/09/2026
INAR4200

Linerity FM

Quick device feeders

Device feeders

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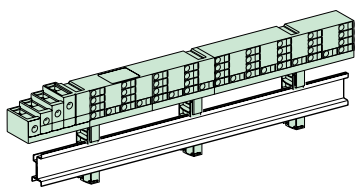
IEC60947-7-1, IEC61439-1 and 2
Description

- Distribution over full rows of modular devices.
- The distribution block is generally supplied by busbars in enclosures and cubicles.
- Easy phase balancing.
- Mix of devices and functions in the same row.
- Installation ≥ 160 A: clipped onto the back of a modular rail or screwed onto a solid or pre-slotted plate.

Distribution blocks

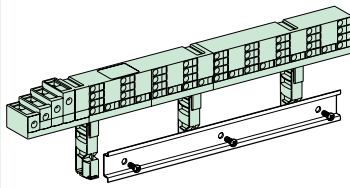
Number of poles	4P	4P
		
	63 A	80 A
Rated peak withstand current (Ipk)	12 kA	13 kA
Rated conditional short-circuit current of an assembly (Isc)	The cascading reinforced breaking capacity when combining circuit breakers is maintained. The worst-case scenarios have been tested. The characteristics are exactly right for the connected devices. Circuit breakers and switches still have their temperature derating curves, and their whole performance is maintained.	
Rated insulation voltage (Ui)	500 V AC	500 V AC
Rated voltage (Ue)	440 V AC	440 V AC
Rated impulse withstand voltage (Uimp)	6 kV	8 kV
Maximum current (Imax)	—	—
Rated operational frequency	50/60 Hz	50/60 Hz
Degree of protection	IPxxB	IPxxB
Supply at incoming terminals	Enclosed terminals for cables up to 25 mm ²	Enclosed terminals for cables up to 25 mm ²
Total connection capacity at outgoing terminals	Spring terminals for rigid or flexible cables: 4 for each phase (2 x 1 to 4 mm ² + 2 x 1 to 6 mm ²) 8 for the neutral (4 x 1 to 4 mm ² + 4 x 1 to 6 mm ²)	Spring terminals for rigid or flexible cables: 9 for each phase (2 x 6 mm ² + 7 x 4 mm ²) 17 for the neutral (4 x 6 mm ² + 13 x 4 mm ²)
Width	24 9-mm pitches 12 18-mm modules	48 9-mm pitches 24 18-mm modules
Composition	Stripped copper connections (L=100 mm) 10 x 4 mm ² + 6 x 6 mm ²	Stripped copper connections (L=105 mm) 6 mm ² (6 black) 4 mm ² (20 black)
Catalog numbers	LVS04008	LVS04004

Installation



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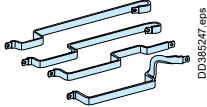
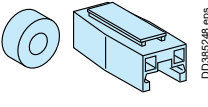
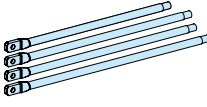
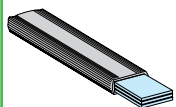
Clipped onto the back of a modular rail, or screw fixing.



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Clipped onto the back of a modular rail, or screw fixing.

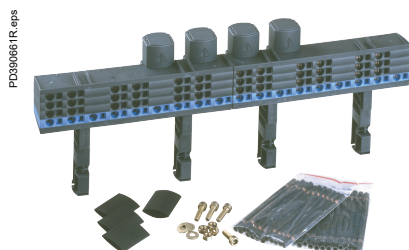
Connections to the device feeders

				
	4P 200 A connection (supplied with fixing accessories)	4P 200 A connection (supplied with fixing accessories)	4P 160 A connection for Linergy FM 1/2 row	200 A connection (20 x 3) for Linergy FM
Allows power supply from	Multi-stage Linergy BS busbar	Rear Linergy BS busbar	Device	Device
Catalog numbers	LVS04024	LVS04029	LVS04030	LVS04743

Linerger FM

Quick device feeders

Device feeders



4P	2P	3P	4P	4P
				
160 A	200 A	200 A	200 A	200 A
20 kA	20 kA	20 kA	20 kA	20 kA
The cascading reinforced breaking capacity when combining circuit breakers is maintained. The worst-case scenarios have been tested. The characteristics are exactly right for the connected devices. Circuit breakers and switches still have their temperature derating curves, and their whole performance is maintained.				
750 V AC	750 V AC	750 V AC	750 V AC	750 V AC
690 V AC	690 V AC	690 V AC	690 V AC	690 V AC
8 kV	8 kV	8 kV	8 kV	8 kV
50 A for feeder for 10 mm ² cable/63 A for feeder for two 10 mm ² cables				
50/60 Hz				
IPxxB				
Direct onto the row by cable 70 mm ² with crimped lug, or flexible bar 20 x 3 from busbar with prefabricated connection.				
6 connection points for each phase 9 connection points for the neutral	12 connection points for each phase 18 connection points for the neutral			18 connection points for each phase 27 connection points for the neutral
24 9-mm pitches 12 18-mm modules	48 9-mm pitches 24 18-mm modules			72 9-mm pitches 36 18-mm modules
2 sachets with 12 stripped copper connections 10 mm ² (L=100 mm)				
Protective covers for power supply rows (IPxxB)				
Fixing accessories for power supply rows				
LVS04018 ⁽¹⁾	LVS04012 ^{(1) (2)}	LVS04013 ⁽¹⁾	LVS04014 ^{(1) (2)}	LVS04026 ⁽¹⁾

Spare parts

	
	4 covers for 160/200 A Linergy FM rows
Catalog numbers	LVS01202

Note: Electrical characteristics > page E-111.

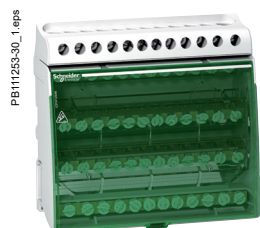
⁽¹⁾ Cable to be used without ferrules.

⁽²⁾ The Linergy FM 200 (**LVS04012** and **LVS04014**) can be used with direct current. The upstream and downstream terminal type (⊕ and ⊖) must be marked on the device. For more information, please contact our customer services.

Linerity DS

Screw distribution blocks

Distribution blocks



IEC/EN 60947-7-1, IEC/EN 61439-1 and 2

Description

- Single-pole or four-pole distribution block that can be installed on a standard DIN rail or on a mounting plate.
- Compatible with PrismaSeT G and PrismaSeT P, Pragma, Mini Pragma and Resbo series switchboards.
- Incomers and feeders are connected to screw terminals that accept rigid or flexible cables with ferrule.
- Optional: additional neutral terminal strip for four-pole distribution block.

Advantages

- Simplified power supply for main incomers.
- Easy phase balancing.
- Easy, effortless cabling due to excellent accessibility.
- Visible cabling.
- Insulation between phases.
- The single-pole distribution blocks are adjacent and bridgeable via the second incoming hole for parallel connection.

Screw distribution blocks

Number of poles		1P			4P
		 PB11250-30_1 eps	 PB11251-30_1 eps	 PB11252-30_1 eps	 PB11243-30_1 eps
Rating		125 A	160 A	250 A	100 A
Total connection capacity		10	13	14	4 x 7
Terminal capacity					
Diameter		2 x Ø9.5 mm	2 x Ø12 mm	1 x Ø15.3 mm	2 x Ø7.5 mm
		2 x Ø7.5 mm	3 x Ø7.5 mm	1 x Ø10 mm	5 x Ø5.5 mm
		6 x Ø5.8 mm	8 x Ø5.8 mm	4 x Ø6 mm	—
		—	—	8 x Ø7.5 mm	—
Rated peak withstand current (I _{pk})	I _{pk} /60 ms	25 kA	36 kA	60 kA	14 kA
	I _{pk} /6 ms	—	—	—	24 kA
Rated short-time withstand current (I _{cc}) (IEC/EN 60947-7-1)		36 kA	36 kA	36 kA	20 kA
Width (number of 9 mm pitches)		3	4	5	8
Dimensions (H x W x D)		85 x 27 x 50.5	85 x 36 x 50.5	85 x 45 x 50.5	100 x 71 x 50.5
Weight (g)		125	163	239	210
Neutral terminal strip (optional)		—	—	—	LGYN1007
Catalog numbers		LGY112510	LGY116013	LGY125014	LGY410028

Linerity DS

Screw distribution blocks

Distribution blocks

Technical data

Common characteristics

In compliance with IEC/EN 60947-7-1 and IEC/EN 61439-1 and 2

Rated insulation voltage (Ui)	500 V AC
Rated operational voltage (Ue)	230 V AC (L/N) 440 V AC (L/L)
Rated impulse withstand voltage (Uimp)	8 kV
Rated conditional short-circuit current of an assembly	Up to the breaking capacity of Schneider Electric feeder circuit breakers, even in cascading configuration.
Network frequency	50/60 Hz
Degree of pollution	3
Overvoltage category	III

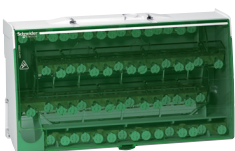
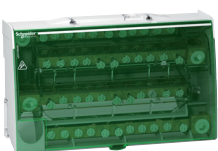
Additional technical characteristics

Reference temperature	40 °C
Operating temperature	-25 °C to 55 °C
Dielectric withstand (IEC/EN 60947-1)	2500 V AC

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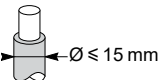


On LGY412560 and LGY416048 references.
Input cabling facilitated by side terminals.

			Neutral terminal strip		
					
125 A		160 A	100 A	125 A	
4 x 12	4 x 15	4 x 12	7	12	15
1 x Ø9 mm	1 x Ø9.5 mm	1 x Ø12 mm	2 x Ø7.5 mm	1 x Ø9 mm	1 x Ø9.5 mm
7 x Ø7.5 mm	3 x Ø8.5 mm	3 x Ø9 mm	5 x Ø5.5 mm	7 x Ø7.5 mm	3 x Ø8.5 mm
4 x Ø6.5 mm	11 x Ø6.5 mm	8 x Ø7.5 mm	—	4 x Ø6.5 mm	11 x Ø6.5 mm
—	—	—	—	—	—
18 kA	18 kA	22 kA	—	—	—
26 kA	28 kA	36 kA	—	—	—
36 kA	36 kA	36 kA	—	—	—
14	20	18	7	14	17
100 x 126 x 50.5	100 x 162 x 50.5	100 x 174 x 50.5	20 x 70 x 35	20 x 125 x 35	20 x 155 x 35
390	559	567	63	111	149
LGYN12512	LGYN12515	LGYN12512	—	—	—
LGY412548	LGY412560	LGY416048	LGYN1007	LGYN12512	LGYN12515

E

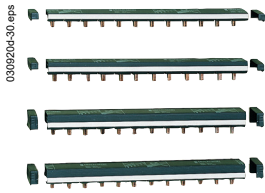
Terminal technical data

Type	PZ2 screw							
Diameter	Ø5.5 mm	Ø5.8 mm	Ø6 mm	Ø6.5 mm	Ø7.5 mm	Ø8.5 mm	Ø9 mm	Ø9.5 mm
Section rigid cable	1.5 to 16 mm ²	1.5 to 16 mm ²	1.5 to 16 mm ²	1.5 to 16 mm ²	2.5 to 25 mm ²	6 to 35 mm ²	10 to 35 mm ²	10 to 35 mm ²
Section flexible cable or with ferrule	1.5 to 10 mm ²	1.5 to 10 mm ²	1.5 to 10 mm ²	1.5 to 10 mm ²	1.5 to 16 mm ²	4 to 25 mm ²	4 to 25 mm ²	6 to 35 mm ²
Tightening torque	2 N.m	2 N.m	2 N.m	2 N.m	2 N.m	2 N.m	2.5 N.m	2.5 N.m
Type	HC screw							
Diameter	Ø9.5 mm	Ø10 mm	Ø12 mm	Ø15.3 mm				
Section rigid cable	10 to 35 mm ²	1.5 to 50 mm ²	25 to 70 mm ²	35 to 120 mm ²				
								
Section flexible cable or with ferrule	6 to 35 mm ²	1.5 to 35 mm ²	16 to 50 mm ²	25 to 95 mm ²				
Tightening torque	8 N.m	4 N.m	1P: 9 N.m 4P: 5 N.m	14 N.m				

Linergy FH

Comb busbar for 27 mm pitch for C120, NG125

Device feeders



IEC 60664-1

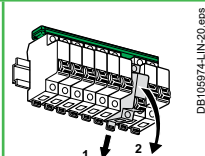
Description

Comb busbars make it easier to install C120 and NG125 circuit breaker.

- Supplied with 2 lateral end-caps, to reinforce copper bars insulating (IP2).
- Allowing circuit identification.
- Easy cut to length thanks to cutting marks on the insulating material and copper bars.

C120, NG125		27 mm poles, cuttable			
Number of poles		1P	2P	3P	4P
					
		Each com busbar reference includes: 1 x single or 2 pole comb busbar + 8 tooth-caps + 2 side plates 1 x 3 or 4 pole comb busbar + 4 tooth-caps + 2 side plates To insulate teeth that have been left free can be insulated by tooth-caps.			
Rated operational current to 40 °C	(Ie)	125 A (63 A max by outgoer)			
Rated conditional short-circuit current of an assembly	(Isc)	Compatible with the breaking capacity of C120 and NG125 circuit breakers			
Rated insulation voltage	(Ui)	620 V AC			
Rated voltage	(Ue)	500 V AC			
Degree of pollution		3			
Fire resistance to IEC 695-2-1		Self-extinguishing 960 °C, 30 s			
Colour		RAL 7016 (anthracite grey)			
Use					
		Power supply by connector recommended			
Number of 27 mm modules		16	16	15	16
Set of		1			
Catalog numbers		14811	14812	14813	14814

Installation

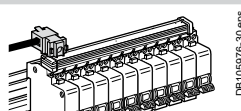
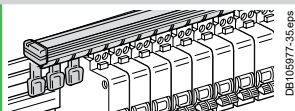


Comb busbars allow dismantability of switchgear.

Accessories

Number of poles	1P, 2P, 3P, 4P	
	Tooth caps	Insulated connector
		Compatible with all Schneider Electric comb busbars. Clip onto the comb busbar's insulating material, which gives them very great stability Receive clip-on markers allowing circuit identification.
Use		
		For 25 mm ² semi-rigid cable
Set of	20	4
Catalog numbers	14818	14885

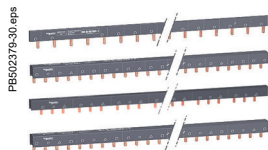
Installation



LinerGY FH

Comb busbar for 18 mm pitch for Acti 9

Device feeders



IEC 60947-7-1, IEC 61439-2

Description

Comb busbars make it easier to install Acti 9 circuit breakers.

- Can be sawn and cut in a single pass, with a metal saw (the end-caps are compulsory after cutting).
- Supplied with two lateral end-caps to reinforce copper bars insulating (IP2) except for 57 module references. The side plates are compulsory after cutting.
- Easy cut to length thanks to cutting marks on the insulating material and copper bars.
- The phases are identified by symbols on each side of the comb busbar for installation in all positions.
- The special comb busbars for circuit breakers with 9 mm auxiliaries have a 9 mm gap for inserting iOF and iSD.

Acti 9		18 mm poles, cuttable										
Number of poles		1P	2P	3P	4P	3 (N+P)	Aux+1P	Aux+2P	Aux+3P	Aux+4P	3 (Aux+1P)	3 (Aux+N+1P)
												
Rated operational current at 40 °C	(Ie)	100 A										
Rated conditional short-circuit current of an assembly	(Isc)	Compatible with the breaking capacity of Acti 9 circuit breakers.										
Rated insulation voltage	(Ui)	500 V AC										
Rated voltage	(Ue)	415 V AC										
Degree of pollution		3										
Fire resistance to IEC 695-2-1		Self-extinguishing 960 °C, 30 s										
Colour		RAL 7016 (anthracite grey)										
Use												
		Power supply by connector recommended										
Type		L1...	L1L2...	L1L2L3...	NL1L2L3...	NL1NL2... ...NL3	AuxL1...	AuxL1L2...	AuxL1L2L3	AuxNL1... ...L2L3	AuxL1... ...AuxL2... ...AuxL3	AuxL1... ...AuxL2... ...AuxL3
Set of		1	1	1	1	1	1	1	1	1	1	1
Catalog numbers												
6 modules of 18 mm		A9XPH106	—	—	—	—	—	—	—	—	—	—
12 modules of 18 mm		A9XPH112	A9XPH212	A9XPH312	A9XPH412	A9XPH512 ⁽¹⁾	—	—	—	—	—	—
18 modules of 18 mm		—	—	—	—	A9XPH518 ⁽¹⁾	—	—	—	—	—	—
24 modules of 18 mm		A9XPH124	A9XPH224	A9XPH324	A9XPH424	A9XPH524 ⁽¹⁾	—	—	—	—	—	—
57 modules of 18 mm		A9XPH157	A9XPH257	A9XPH357	A9XPH457	A9XPH557 ⁽¹⁾	A9XAH157	A9XAH257	A9XAH357	A9XAH457	A9XAH657	A9XAH557 ⁽¹⁾

(1) This comb busbar is only compatible in top feeding for simple lug devices and bottom feeding on double lug devices.

Installation



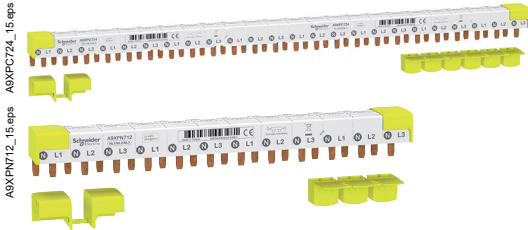
Accessories

Number of poles	1P	2P	3P	4P	—	—	—
	Side plates				Tooth covers	Connectors	
	Lateral end-caps providing IP20 protection				To insulate teeth that have been left free	Monoconnect Double terminals	
						Comb busbar power supply. Horizontal incomer on each side. For 35 mm ² cable. Tightening torque 4 N.m	
Set of	10	10	10	10	20	4	4
Catalog numbers	A9XPE110	A9XPE210	A9XPE310	A9XPE410	A9XPT920	A9XPCM04	A9XPCD04

LinerGY FH

Horizontal comb busbar for 9 mm pitch for Acti 9, C60

Device feeders

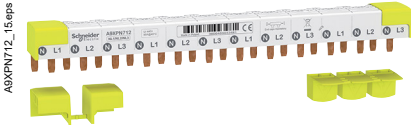


IEC 61439-1

Description

Comb busbars ensure:

- Easy, reliable mounting of 1P+N and 3P+N, TL, CT, ID, V, BP and Cm switchgear: tooth positioning opposite the device terminals is ensured by indexing of copper parts.
- C60/ID Group Feeder comb busbars contain two different parts:
 - Connection of Group Feeder switchgear: C60 (3P+N) or ID (3P+N) circuit breaker in 18 mm modules, powered by cables, through the bottom, directly by the terminals.
 - Connection of Clario, Prodis and Librio switchgear in 9 mm modules.

Acti 9 Ph+N		9 mm poles, cuttable			
Number of poles		1P+N		3P+N	
					
		Complete comb busbars (supplied with 4 side plates and 1 tooth cover)			
Rated operational current at 40°C	(Ie)	80 A			
Rated conditional short-circuit current of an assembly	(Isc)	Compatible with the breaking capacity of Schneider Electric circuit breakers.			
Insulation voltage	(Ui)	400 V AC (Ph/N) - 440 V AC (Ph/Ph)			
Rated voltage	(Ue)	230 V AC (Ph/N) - 400 V AC (Ph/Ph)			
Rated impulse withstand voltage	(Uimp)	6 kV			
Degree of protection		IP20			
Fire resistance to IEC 695-2-1		Self-extinguishing 960°C 30 s			
Color		RAL 9003			
Number of 18 mm modules	Comb busbar	12	24	12	24
	Tooth cover	3	6	3	6
References		A9XPC612	A9XPC624	A9XPC712	A9XPC724
Comb busbars alone					
Number of 18 mm modules	Comb busbar	48		48	
References		A9XPC648		A9XPC748	

C60/ID Group Feeder comb busbars alone

Number of poles		3P+N			
Rated operational current at 40°C	(Ie)	80 A			
Rated conditional short-circuit current of an assembly	(Isc)	Compatible with the breaking capacity of Schneider Electric circuit breakers.			
Insulation voltage	(Ui)	440 V			
Rated voltage	(Ue)	230 V (P4 + N) - 400 V (3Ph + N)			
Rated impulse withstand voltage	(Uimp)	6 kV			
Degree of protection		IP20			
Fire resistance to IEC 695-2-1		Self-extinguishing 960°C 30 s			
Color		RAL 7035			
Number of 18-mm modules		12	48	48	48
	Power supply	Through left-hand	Through left-hand	Through left-hand	Through right-hand
References		A9XPC812	A9XPC848	A9XPC848	A9XPC948

Accessories

Number of poles		1P+N	3P+N		
		End-pieces		Tooth covers (3 x 18 mm modules)	Connectors
Set of		40	40	12	4
References		A9X21094	A9X21095	A9X21096	A9XPCM04

LinerGY FH

Horizontal comb busbar for 9 mm pitch for Acti 9

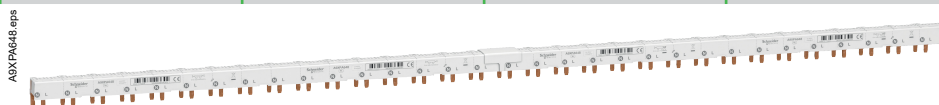
Device feeders

IEC 61439-1

Description

- Connection of Clario, Prodis and Libro switchgear in 9 mm modules.
- The special comb busbars for circuit breaker have a gap of 9 mm for inserting OF, SD, OF-SD/OF auxiliaries.
- The comb busbars for 3P+N circuit breakers and auxiliaries are compatible with PrismaSeT switchboard.
- 1P+N comb busbars with PrismaSeT and Pragma 24.

Acti 9	9 mm poles, cuttable			
Number of poles	1P+N	3P+N	1P+N	3P+N



	Comb busbars	Comb busbars DPN Vigi		
Rated operational current at 40°C (Ie)	80 A			
Rated conditional short-circuit current of an assembly (Isc)	Compatible with the breaking capacity of Schneider Electric circuit breakers.			
Insulation voltage (Ui)	400 V AC (Ph/N) - 440 V AC (Ph/Ph)			
Rated voltage (Ue)	230 V AC (Ph/N) - 400 V AC (Ph/Ph)			
Degree of protection	IP20			
Fire resistance to IEC 695-2-1	Self-extinguishing 960°C 30 s			
Color	RAL 9003			
Number of 18-mm modules	48	48	48	48
References	A9XPA648	A9XPA748	A9XPV648	A9XPV748

Accessories				
Number of poles	1P+N	3P+N		
				
	End-pieces		Tooth covers (3 x 18 mm modules)	Connectors
Set of	40	40	12	4
References	A9X21094	A9X21095	A9X21096	A9XPCM04

LinerGY FH

Horizontal comb busbar for 18 mm pitch for Domae

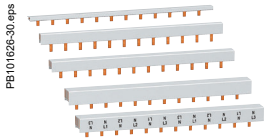
Device feeders

IEC 61439-1, IEC 60664

Description

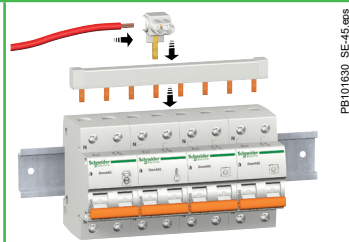
Comb busbars:

- Comb busbars ensure: Easy, reliable mounting of 1P+N and 3P+N, TL, CT, ID, V, BP and Cm switchgear: tooth positioning opposite the device terminals is ensured by indexing of copper parts.
- Can be sawn and cut in a single pass, with a metal saw (the end-caps are compulsory after cutting).
- Are supplied with 2 (IP20) lateral end-caps (mandatory).
- Teeth that have been left free can be insulated by tooth-caps.



Domae		18 mm poles, cuttable								
Number of poles		1P		2P		3P		4P		3P (N + P)
										
Rated operational current to 40 °C	(Ie)	63 A								
Rated conditional short-circuit current of an assembly	(Isc)	Compatible with the breaking capacity of circuit breakers.								
Rated insulation voltage	(Ui)	500 V AC								
Rated voltage	(Ue) L/N	230 V AC								
	L/L	400 V AC								
Degree of pollution		3								
Fire resistance to IEC 695-2-1		Auto-extinguible to 850 °C 30 secondes								
Colour		RAL 7035								
Power supply		By 16 mm² semi-rigid cables or 10 mm² flexible cables By connector								
Number of 18 mm modules		12	57	12	57	12	57	12	57	57
Catalog numbers		EZ9XPH112	EZ9XPH157	EZ9XPH212	EZ9XPH257	EZ9XPH312	EZ9XPH357	–	–	–

Installation



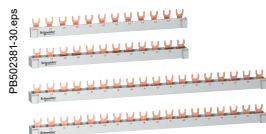
Accessories

Type	Connectors (4 x 35 mm ²)	Side plates (2 phases)	Side plates (3 phases)	Side plates (4 phases)	Tooth caps
Set of	1	10	10	10	10
Catalog numbers	EZ9XPC04	EZ9XPE210	EZ9XPE310	–	–

LinerGY FH

Horizontal biconnect comb busbar for 18 mm pitch

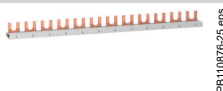
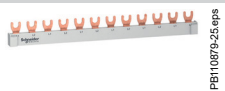
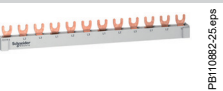
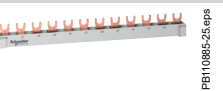
Device feeders



IEC 60664-1

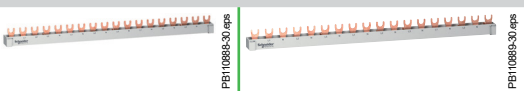
Description

- Distribution and sub-distribution of the electric power supply.
- Fast assembly and disassembly of connected devices.

Comb horizontal bi-connection				18 mm poles, cuttable															
Number of poles				1P				2P				3P				4P			
																			
Rated operational current to 40 °C (Ie)				63 A															
Rated conditional short-circuit current of an assembly (Isc)				Compatible with the breaking capacity of circuit breakers.															
Rated insulation voltage (Ui)				500 V AC															
Rated voltage (Ue) L/N				230 V AC															
L/L				400 V AC															
Degree of pollution				3															
Fire resistance to IEC 695-2-1				Self-extinguishing 960 °C, 30 s															
Colour				RAL 7035 (grey)															
Use				Power supply: directly on terminal (25 mm² rigid or 16 mm² flexible) or by connector (35 mm² rigid or 25 mm² flexible with ferrule)															
Type				L1			L1L2			L1L2L3			L1L2L3L4						
Number of 18 mm modules				12	18	57	12	18	57	12	18	57	12	18	57				
Set of				1	1	1	1	1	1	1	1	1	1	1	1				
Catalog numbers				R9XFH112	R9XFH118	R9XFH157	R9XFH212	R9XFH218	R9XFH257	R9XFH312	R9XFH318	R9XFH357	R9XFH412	R9XFH418	R9XFH457				

Installation



Comb busbars horizontal bi-connection	18 mm poles, cuttable											
Number of poles	4P											
												
Rated operational current to 40 °C (Ie)	63 A											
Rated conditional short-circuit current of an assembly (Isc)	Compatible with the breaking capacity of Schneider Electric circuit breakers.											
Rated insulation voltage (Ui)	500 V AC											
Rated voltage (Ue) L/N	230 V AC											
L/L	400 V AC											
Degree of pollution	3											
Fire resistance to IEC 695-2-1	Self-extinguishing 960 °C, 30 s											
Colour	RAL 7035 (grey)											
Use												
Type	NL1L2L3L4 - NL1NL2NL3						NL1NL2NL3					
Number of 18 mm modules	18						18					
Set of	1						1					
Catalog numbers	R9XFH518G						R9XFH518					
							R9XFH557					

Installation



Accessories												
Number of poles	1P	2P	3P	4P								
												
	Side plates				Tooth caps							
Set of	10				20							
Catalog numbers	R9XE110	R9XE210	R9XE310	R9XE410	R9XT20							

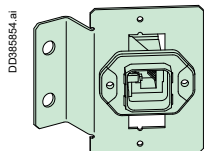
Linerger TA

Auxiliary connections

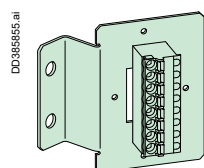
Terminal blocks and lines

Connectors

For plug and play interconnection between electrical switchboard for control and communication wires.

**RJ45 female-female connector with mounting plate**

Connector type	8 wires RJ45; 1 Gbps
For ethernet cable	CAT5e SFTP (IEC 11801) or higher
Degree of protection	IP67 for direct mount
Dimensions (H x W x D)	(mm) 75 x 70 x 45
Catalog number	LGY4230

**8P male-female connector with mounting plate**

Rated operational current at 40 °C	(Ie)	12 A
Rated operational voltage	(Ue)	320 V
Rated impulse withstand voltage	(Uimp)	4 kV
Connection method	Push-in spring connection	
Connection capacity	Input	8
	Output	8
Dimensions (H x W x D)	(mm)	75 x 70 x 45
Wire size	0.2 to 2.5 mm ²	
Catalog number	LGY4231	

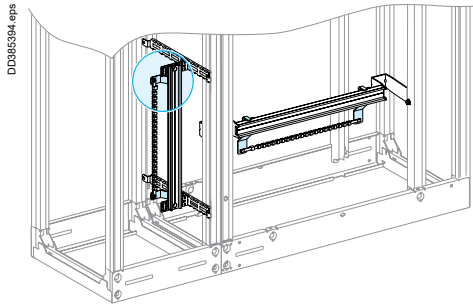
USB and RJ45 ports

Catalog number	XB5PUSB3SP1	XB5PUSB3SP2	XB5PRJ45SP1	XB5PRJ45SP2
Description	Panel-mounted USB and RJ45 ports in 22.5 mm hole with notch			
Interface type	USB interface, jack type A		Ethernet interface, RJ45 jack	
Connection type	USB port 3.0 A-A		RJ45 port Cat. 6	
Others characteristics	IP20 IP65, IP67, IP69K with protection cover			

Linergy TB

Earth bars

Terminal blocks and lines



Description

This range of earth bars is installed:

- In the duct which can constitute a dedicated area, completely separate from the equipment.
- Or in the switchgear compartment, at the top or the bottom.

Fast-connecting earth bar

	Copper earth bar
Cross-section (mm)	12 x 3
Effective length (mm)	330
Total length (mm)	450
Composition	Copper bar with 1 terminal 16 to 35 mm ²
Rated short time withstand current (Icw)	9 kA rms/0.5 s
Catalog numbers	LVS04201

Accessories

	Earth blocks with terminals	
	Spring-fixing (clip onto the earth bar)	
Total connection capacity	12 x 4 mm ²	3 x 16 mm ²
Composition	4 earth blocks	4 earth blocks
Rated short time withstand current (Icw)	1 kA rms/0.5 s	4 kA rms/0.5 s
Catalog numbers	LVS04214	LVS04215

Accessories

	Copper earth bar with jumper	
Total connection capacity	40 x 2.5 to 16 mm ²	20 x 2.5 to 16 mm ²
Cross-section (mm)	12 x 3	12 x 3
Length (mm)	450	200
Composition	40 jumpers and a terminal (16 to 35 mm ²)	20 jumpers and a terminal (16 to 35 mm ²)
Rated short time withstand current (Icw)	9 kA rms/0.5 s	9 kA rms/0.5 s
Catalog numbers	LVS04200	LVS04202

Accessories

	Neutral bar	Earth bar
	Converts an earth bar to a neutral bar	—
Composition	2 insulating spacers	2 supports for earth bar on modular rail
Catalog numbers	LVS04210	LVS04205

Linergy TB

PE conductors

Terminal blocks and lines

PE conductors									
	Vertical PE conductor with Linergy LGY profile (W = 1670 mm)			Vertical PE conductor with Linergy BS busbar (W = 1675 mm)			Horizontal PE conductor with Linergy BS busbar		
Rated short-time current (Isc)	≤ 65	> 65... ≤ 80	= 100	≤ 40	< 85	≤ 100	≤ 40	< 85	≤ 100
Permissible current (A)	630	800	1250	400	600	800	400	600	800
Bar size (mm)	—	—	—	25 x 5	50 x 5	60 x 5	25 x 5	50 x 5	60 x 5
Characteristics	—	—	—	Drilled flat bar Ø10.6 mm (one 10.6 mm hole every 25 mm along the entire length)	Drilled flat bar Ø10.6 mm (two 10.6 mm hole every 25 mm along the entire length)	Drilled flat bar Ø10.6 mm (two 10.6 mm hole every 25 mm along the entire length)	Drilled flat bar Ø10.6 mm (two 10.6 mm hole every 25 mm along the entire length)	Drilled flat bar Ø10.6 mm (two 10.6 mm hole every 25 mm along the entire length)	Drilled flat bar Ø10.6 mm (two 10.6 mm hole every 25 mm along the entire length)
Catalog numbers	LVS04502	LVS04503	LVS04505	LVS04512	LVS04515	LVS04516	LVS04512	LVS04515	LVS04516

Support selection			
Composition	Three supports for one vertical PE (supplied with PE marking) to secure to the framework.	Three supports for one vertical PE (supplied with PE marking) to secure to the framework.	Two supports for one horizontal PE.
Catalog numbers	LVS04657	LVS04657	LVS04667

Connection between PE conductors		
	Connection plates for horizontal/vertical PE bars	Linergy connection hardware
Composition	2 copper angle brackets	20 M8 bolts (W = 25 mm) + 20 nuts + 20 contact washers for connection to cable lugs or flexible bars
Catalog numbers	LVS04672	LVS04766

PEN conductors		
	Linergy TB PEN installation kit with LGY vertical profile	1600 A connection 10 mm horizontal busbar with Linergy LGY profile
Catalog numbers	LVS04656 ⁽¹⁾	LVS04636
		Linergy LGYE vertical connection 1600 A
		LVS04602

(1) For LGYE HBB, additional fish plate need to be manufactured as per the drawing supplied by Schneider Electric.

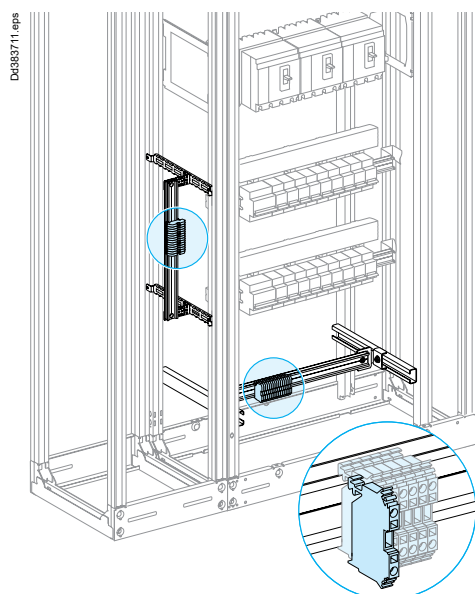
LinerGY TB terminal block support

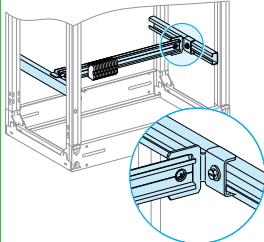
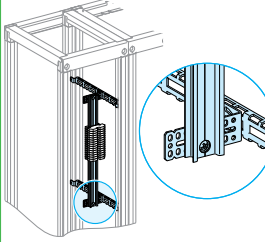
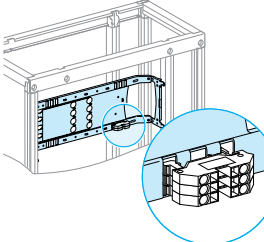
Secondary distribution

Introduction

In PrismaSeT P cubicles, terminal blocks are commonly installed in a lateral compartment, generally 300 or 400 mm wide.

They may also be installed at the top or bottom of the cubicle.



	Installation at top or bottom of a cubicle	Installation in a lateral compartment	Installation on a device mounting plate
			
Modular rail, depth adjustable (W = 432 mm)	LVS03402	—	—
2 modular rails W = 1600 mm	LVS04226	LVS04226	—
2 universal angle brackets	LVS03581	LVS03581	—
Set of two lateral cross-members W = 400 mm	LVS03584	—	—
Characteristics	Terminal blocks are grouped on modular rails that can be depth adjusted behind a plain front plate.	- The terminal block is generally installed in the cable compartment, W = 300 or 400 mm. - The terminal blocks clip onto a modular rail. The rail is secured to cable-tie supports using universal angle brackets for precise positioning of the terminal blocks.	Terminal blocks can be directly installed on the mounting plates for horizontally mounted ComPacT NSX100/630 and vertically mounted ComPacT NS630b/1600 for connection of auxiliary wires.

Width of standard terminal blocks

Max. cable CSA (mm ²)	4	6	10	16
Width of terminal block (mm)	6	8	10	12

Height required in switchboard

Max. cable CSA (mm ²)	4	6	10	16
No. of vertical modules	3	3	5	6
Plain front plate	LVS03803	LVS03803	LVS03805	LVS03806

Designing connection ≤ 630 A

Auxiliary connections

Electrical characteristics

Device						
	Ambient temperature around the switchboard					
	25°C IP ≤ 31	30°C IP ≤ 31	35°C IP ≤ 31	40°C IP ≤ 31	45°C IP ≤ 31	50°C IP ≤ 31
	Rated current of a circuit I _{nc} (A)					
Linergy DX						
Quick distribution block Linergy DX 4P 125A	134	129	125	120	116	111
Quick distribution block Linergy DX 4P 160A	171	166	160	154	148	142
Quick distribution block Linergy DX 1P 1P 160A	171	166	160	154	148	142
Linergy DP						
Quick distribution block Linergy DP 3P-4P 160A	160	155	150	145	140	135
Quick distribution block Linergy DP 3P-4P 250A	267	259	250	241	231	222
Linergy FM						
Quick device feeders Linergy FM 4P 63A	67	65	63	61	58	56
Quick device feeders Linergy FM 4P 80A	86	83	80	77	74	71
Quick device feeders Linergy FM 4P 160A	171	166	160	154	148	142
Quick device feeders Linergy FM 2P 200A	214	207	200	193	185	177
Quick device feeders Linergy FM 3P 200A	214	207	200	193	185	177
Quick device feeders Linergy FM 4P 200A	214	207	200	193	185	177
Quick device feeders Linergy FM 4P 200A (36 modules)	214	207	200	193	185	177

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Linerity TR

Terminal blocks

Secondary distribution



			Connection technology			
Type of terminal block	Cross section area	Color	Screw tech 	Spring tech 	Push-in tech 	Miniature screw for 15 mm DIN rail
Passthrough	2.5 mm ² (2 pts)	Grey	NSYTRV22	NSYTRR22	NSYTRP22	NSYTRV22M
		Blue	NSYTRV22BL	NSYTRR22BL	NSYTRP22BL	NSYTRV22MBL
		Orange	NSYTRV22AR	–	NSYTRP22AR	–
	2.5 mm ² (3 pts)	Grey	–	NSYTRR23	NSYTRP23	–
		Blue	–	NSYTRR23BL	NSYTRP23BL	–
		Orange	–	–	NSYTRP23AR	–
	2.5 mm ² (4 pts)	Grey	–	NSYTRR24	NSYTRP24	–
		Blue	–	NSYTRR24BL	NSYTRP24BL	–
	2.5 mm ² (4 pts, 2 levels)	Grey	NSYTRV24D	NSYTRR24D	NSYTRP24D	–
		Blue	NSYTRV24DBL	–	NSYTRP24DBL	–
	2.5 mm ² (6 pts, 3 levels)	Grey	NSYTRV26T	NSYTRR26T	NSYTRP26T	–
		Blue	–	–	–	–
	4 mm ² (2 pts)	Grey	NSYTRV42	NSYTRR42	NSYTRP42	NSYTRV42M
		Blue	NSYTRV42BL	NSYTRR42BL	NSYTRP42BL	NSYTRV42MBL
		Orange	NSYTRV42AR	–	–	–
	4 mm ² (3 pts)	Grey	NSYTRV43	NSYTRR43	NSYTRP43	–
		Blue	NSYTRV43BL	–	NSYTRP43BL	–
	4 mm ² (4 pts)	Grey	NSYTRV44	NSYTRR44	NSYTRP44	–
		Blue	NSYTRV44BL	–	NSYTRP44BL	–
	4 mm ² (4 pts, 2 levels)	Grey	NSYTRV44D	NSYTRR44D	NSYTRP44D	–
		Blue	NSYTRV44DBL	NSYTRR44DBL	NSYTRP44DBL	–
	6 mm ² (2 pts)	Grey	NSYTRV62	NSYTRR62	NSYTRP62	–
		Blue	NSYTRV62BL	NSYTRR62BL	NSYTRP62BL	–
	6 mm ² (3 pts)	Grey	–	–	NSYTRP63	–
		Blue	–	–	–	–
	10 mm ² (2 pts)	Grey	NSYTRV102	NSYTRR102	NSYTRP102	–
		Blue	NSYTRV102BL	NSYTRR102BL	NSYTRP102BL	–
	16 mm ² (2 pts)	Grey	NSYTRV162	NSYTRR162	NSYTRP162	–
		Blue	NSYTRV162BL	NSYTRR162BL	NSYTRP162BL	–
Earth protection	2.5 mm ² (2 pts)	Green/Yellow	NSYTRV22PE	NSYTRR22PE	NSYTRP22PE	NSYTRV22MPE
	2.5 mm ² (3 pts)	Green/Yellow	–	NSYTRR23PE	NSYTRP23PE	–
	2.5 mm ² (4 pts)	Green/Yellow	–	NSYTRR24PE	NSYTRP24PE	–
	4 mm ² (2 pts)	Green/Yellow	NSYTRV42PE	NSYTRR42PE	NSYTRP42PE	NSYTRV42MPE
	4 mm ² (3 pts)	Green/Yellow	NSYTRV43PE	–	NSYTRP43PE	–
	4 mm ² (4 pts)	Green/Yellow	NSYTRV44PE	NSYTRR44PE	NSYTRP44PE	–
	4 mm ² (4 pts, 2 levels)	Green/Yellow	–	–	NSYTRP44DPE	–
	6 mm ² (2 pts)	Green/Yellow	NSYTRV62PE	NSYTRR62PE	NSYTRP62PE	–
	10 mm ² (2 pts)	Green/Yellow	NSYTRV102PE	NSYTRR102PE	NSYTRP102PE	–
	16 mm ² (2 pts)	Green/Yellow	NSYTRV162PE	NSYTRR162PE	NSYTRP162PE	–
Knife Disconnect	2.5 mm ² (2 pts)	Grey	NSYTRV22SC	NSYTRR22SC	NSYTRP22SC	–
		Orange	NSYTRV22ST ⁽¹⁾	–	–	–
	2.5 mm ² (3 pts)	Grey	–	NSYTRR23SC	NSYTRP23SC	–
		Orange	–	–	–	–
	2.5 mm ² (2 levels)	Grey	–	–	–	–
Fuse Disconnect	4 mm ² (2 pts)	Black	NSYTRV42SF5	–	–	–
	5 x 20 mm fuse	Black (12 V)	NSYTRV42SF5LD ⁽²⁾	–	–	–
		Black (230 V)	NSYTRV42SF5LA ⁽²⁾	–	–	–
Basic Disconnect ⁽³⁾	4 mm ² (2 pts)	Grey	NSYTRV42TB	–	NSYTRP42TB	–
	2.5 mm ² (2 pts)	Grey	–	–	NSYTRP23TB	–
Measuring transducer	6 mm ² (2 pts) Disconnect	Grey	NSYTRV62TTD	–	–	–
	6 mm ² (2 pts)	Grey	NSYTRV62TT	–	–	–
	6 mm ² (2 pts)	Green/Yellow	NSYTRV62TTPE	–	–	–

* Grey terminal with flange.

⁽¹⁾ Grey disconnect terminal with 2 test points.⁽²⁾ With light indicator.⁽³⁾ Fuse or component carrier not supplied.

Linergy TR

Terminal blocks

Secondary distribution



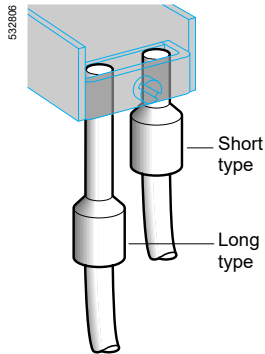
Accessories					
	End plate for screw TBs	End plate for spring TBs	End plate for push-in TBs	Plug-in bridge	Marking strips 10 characters
	NSYTRAC22	NSYTRACR22	NSYTRACR22	NSYTRAL22	NSYTRABF510
	NSYTRAC22BL	–	–	NSYTRAL23	NSYTRABF520
	–	–	–	NSYTRAL24	NSYTRABF530
	NSYTRAC23	NSYTRACR23	NSYTRACR23	NSYTRAL25	NSYTRABF540
	–	–	–	NSYTRAL210	NSYTRABF550
	–	–	–	NSYTRAL210BL	
	NSYTRAC24	NSYTRACR24	NSYTRACR24	NSYTRAL210GR	
	–	–	–	NSYTRAL220	
	NSYTRACE24	NSYTRACRE24	NSYTRACRE24		
	–	–	–		
	NSYTRACE26	–	NSYTRACPE26		
	–	–	–		
	NSYTRAC22	NSYTRACR42	NSYTRACR42	NSYTRAL42	NSYTRAB610
	NSYTRAC22BL	–	–	NSYTRAL43	NSYTRAB620
	–	–	–	NSYTRAL44	NSYTRAB630
	NSYTRAC23	NSYTRACR43	NSYTRACP43	NSYTRAL45	NSYTRAB640
	–	–	–	NSYTRAL410	NSYTRAB690
	NSYTRAC24	NSYTRACR44	NSYTRACP44	NSYTRAL410BL	NSYTRAB6100
	–	–	–	NSYTRAL410GR	NSYTRAB61100
	NSYTRACE24	NSYTRACRE44	NSYTRACPE44	NSYTRAL420	
	–	–	–		
	NSYTRAC22	NSYTRACR62	NSYTRACP62	NSYTRAL62	
	NSYTRAC22BL	–	–		
	–	–	NSYTRACP63		
	–	–	–		
	NSYTRAC22	NSYTRACR102	NSYTRACP102	NSYTRAL102	
	NSYTRAC22BL	–	–		
	NSYTRAC162	NSYTRACR162	NSYTRACP162	NSYTRAL162	
	–	–	–		
	NSYTRAC22	NSYTRACR22	NSYTRACR22		
	NSYTRAC23	NSYTRACR23	NSYTRACR23		
	NSYTRAC24	NSYTRACR24	NSYTRACR24		
	NSYTRAC22	NSYTRACR42	NSYTRACR42		
	NSYTRAC23	NSYTRACR43	NSYTRACP43		
	NSYTRAC24	NSYTRACR44	NSYTRACP44		
	–	–	NSYTRACPE44		
	NSYTRAC22	NSYTRACR62	NSYTRACP62		
	NSYTRAC22	NSYTRACR102	NSYTRACP102		
	NSYTRAC162	NSYTRACR162	NSYTRACP162		
	NSYTRAC23	NSYTRACR23	NSYTRACPK22		
	NSYTRAC23	–	–		
	–	NSYTRACR24	NSYTRACPK23		
	–	–	–		
	–	Included	–		
	Included	–	–		
	Included	–	–		
	Included	–	–		
	Included	Included	NSYTRACR42		
	–	–	NSYTRACPK23		
	NSYTRACT22	–	–		
	NSYTRACT22	–	–		
	NSYTRACT22	–	–		

E

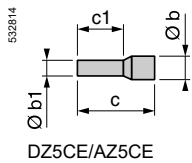
Linerage cable ends

Mounting and cabling accessories

Conforming to standard NF C 63-023 or DIN 46228-4



DZ5CE



DZ5CE/AZ5CE



AZ5CE●●●

Single conductor cable ends (Packed in individual bags or strings of bags)

Conductor c.s.a.		Type	Dimensions				Sold in lots of	Unit reference NF C 63-023		Unit reference DIN 46228-4	
mm ²	AWG		Ø b	Ø b1	c	c1		Reference	color	Reference	color
0.25	26	Short	2.3	1.1	10	6	10 x 100	DZ5CE002L6	Yellow		
		Medium	2.3	1.1	12	8	10 x 100	DZ5CE002			
0.34	24	Short	2.5	1.1	10	6	10 x 100	DZ5CE003L6	Green		
		Medium	2.5	1.1	12	8	10 x 100	DZ5CE003			
0.5	22	Short	3.1	1.3	12	6	10 x 100	DZ5CE005L6 ⁽¹⁾	White	—	White
		Medium	3.1	1.3	14	8	10 x 100	DZ5CE005 ⁽¹⁾		DZ5CE005D ⁽¹⁾	
		—	—	—	—	—	—	—		DZ5CE005L10D ⁽¹⁾	
0.75	20	Short	3.3	1.5	12	6	10 x 100	DZ5CE007L6 ⁽¹⁾	Blue	DZ5CE007L6D ⁽¹⁾	Grey
		Medium	3.3	1.5	14	8	10 x 100	DZ5CE007 ⁽¹⁾		DZ5CE007D ⁽¹⁾	
1	18	Short	3.5	1.7	12	6	10 x 100	DZ5CE010L6 ⁽¹⁾	Red	DZ5CE010L6D ⁽¹⁾	Red
		Medium	3.5	1.7	14	8	10 x 100	DZ5CE010 ⁽¹⁾		DZ5CE010D ⁽¹⁾	
		Long	3.5	1.7	18	12	10 x 100	DZ5CE010L12 ⁽¹⁾		DZ5CE010L12D ⁽¹⁾	
1.5	16	Short	4	2	12	6	10 x 100	DZ5CE015L6 ⁽¹⁾	Black	DZ5CE015L6D ⁽¹⁾	Black
		Medium	4	2	14	8	10 x 100	DZ5CE015 ⁽¹⁾		DZ5CE015D ⁽¹⁾	
		Long	4	2	24	18	10 x 100	DZ5CE0153 ⁽¹⁾		DZ5CE0153D ⁽¹⁾	
2	14	Medium	4.2	2.2	14	8	10 x 100	DZ5CE020	Yellow	—	
2.5	14	Medium	4.7	2.5	14	8	10 x 100	DZ5CE025 ⁽¹⁾	Grey	DZ5CE025D ⁽¹⁾	Blue
		Long	4.7	2.5	24	18	10 x 100	DZ5CE0253 ⁽¹⁾		DZ5CE0253D ⁽¹⁾	
4	12	Medium	5.4	3.2	17	10	10 x 100	DZ5CE042 ⁽¹⁾	Orange	DZ5CE042D ⁽¹⁾	Grey
		Long	5.4	3.2	26	18	10 x 100	DZ5CE043 ⁽¹⁾		DZ5CE043D ⁽¹⁾	
6	10	Medium	6.9	3.9	20	12	1 x 100	DZ5CE062 ⁽¹⁾	Green	DZ5CE062D ⁽¹⁾	Yellow
		Long	6.9	3.9	26	18	1 x 100	DZ5CE063 ⁽¹⁾		DZ5CE063D ⁽¹⁾	
10	8	Medium	8.4	4.9	22	12	1 x 100	DZ5CE102 ⁽¹⁾	Brown	DZ5CE102D ⁽¹⁾	Red
		Long	8.4	4.9	28	18	1 x 100	DZ5CE103 ⁽¹⁾			
16	6	Medium	9.6	6.2	24	12	1 x 100	DZ5CE162 ⁽¹⁾	White	DZ5CE162D ⁽¹⁾	Blue
		Long	9.6	6.2	28	18	1 x 100	DZ5CE163 ⁽¹⁾			
25	4	Medium	12	7.7	30	18	1 x 50	DZ5CE252 ⁽¹⁾	Black	—	
		Long	12	7.7	36	22	1 x 50	DZ5CE253 ⁽¹⁾			
35	2	Medium	13.5	8.7	30	16	1 x 50	DZ5CE352 ⁽¹⁾	Red	DZ5CE352D ⁽¹⁾	Red
		Long	13.5	8.7	39	25	1 x 50	DZ5CE353 ⁽¹⁾			
50	0	Medium	16	11	36	20	1 x 50	DZ5CE502 ⁽¹⁾	Blue	—	Blue
—	—	—	—	—	—	—	—	—			

Single conductor cable ends (Packed in dispenser pack)

0.5	22	Medium	3.1	1.3	14	8	5 x 200	AZ5CE005 ⁽¹⁾	White	AZ5CE005D ⁽¹⁾	White
0.75	20	Medium	3.3	1.5	14	8	5 x 200	AZ5CE007 ⁽¹⁾	Blue	AZ5CE007D ⁽¹⁾	Grey
1	18	Medium	3.5	1.7	14	8	5 x 200	AZ5CE010 ⁽¹⁾	Red	AZ5CE010D ⁽¹⁾	Red
1.5	16	Medium	4	2	14	8	5 x 200	AZ5CE015 ⁽¹⁾	Black	AZ5CE015D ⁽¹⁾	Black
2.5	14	Medium	4.7	2.5	14	8	5 x 200	AZ5CE025 ⁽¹⁾	Grey	AZ5CE025D ⁽¹⁾	Blue

Single conductor cable ends (Strips of 50 packed in bag)

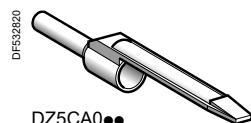
0.5	22	Medium	3.1	1.3	14	8	10 x 50	DZ5CEB005 ⁽¹⁾	White	DZ5CEB005D ⁽¹⁾	White
0.75	20	Medium	3.3	1.5	14	8	10 x 50	DZ5CEB007 ⁽¹⁾	Blue	DZ5CEB007D ⁽¹⁾	Grey
1	18	Medium	3.5	1.7	14	8	10 x 50	DZ5CEB010 ⁽¹⁾	Red	DZ5CEB010D ⁽¹⁾	Red
1.5	16	Medium	4	2	14	8	10 x 50	DZ5CEB015 ⁽¹⁾	Black	DZ5CEB015D ⁽¹⁾	Black
2.5	14	Medium	4.7	2.5	14	8	10 x 50	DZ5CEB025 ⁽¹⁾	Grey	DZ5CEB025D ⁽¹⁾	Blue

(1) UL certified products.

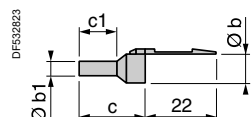
Linerage cable ends

Mounting and cabling accessories

Conforming to standard NF C 63-023 or DIN 46228-4

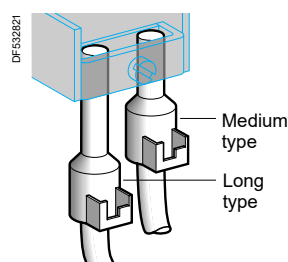


DZ5CA0●●

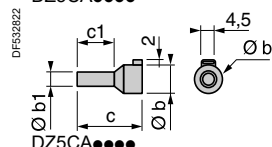


DZ5CA●●●●

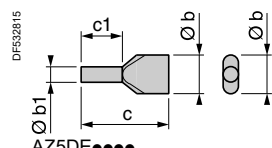
(with clip-in marker tag holder)



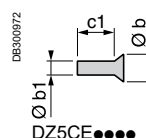
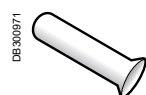
DZ5CA●●●●



DZ5CA●●●●



AZ5DE●●●●



DZ5CE●●●●

Single conductor markable cable ends (Packed in strings of bags)

Conductor c.s.a.	Type	Dimensions	Sold in lots of	Unit reference NF C 63-023		Unit reference DIN 46228-4	
				Reference	color	Reference	color
0.25	26	Medium	10 x 100	DZ5CA002	Yellow		
0.34	24	Medium	10 x 100	DZ5CA003	Green		
0.5	22	Medium	10 x 100	DZ5CA005 ⁽¹⁾	White	DZ5CA005D ⁽¹⁾	White
0.75	20	Medium	10 x 100	DZ5CA007 ⁽¹⁾	Blue	DZ5CA007D ⁽¹⁾	Grey
1	18	Medium	10 x 100	DZ5CA010 ⁽¹⁾	Red	DZ5CA010D ⁽¹⁾	Red
1.5	16	Medium	10 x 100	DZ5CA015 ⁽¹⁾	Black	DZ5CA015D ⁽¹⁾	Black
2.5	14	Medium	10 x 100	DZ5CA025 ⁽¹⁾	Grey	DZ5CA025D ⁽¹⁾	Blue

Single conductor cable ends with facility for clip-in marker tag holder

4	12	Medium	5.4	3.2	20	12	10 x 100	DZ5CA042 ⁽¹⁾	Orange	DZ5CA042D ⁽¹⁾	Grey
		Long	5.4	3.2	26	18	10 x 100	DZ5CA043 ⁽¹⁾		—	
6	10	Medium	6.9	3.9	20	12	1 x 100	DZ5CA062	Green	DZ5CA062D	Yellow
		Long	6.9	3.9	26	18	1 x 100	DZ5CA063		—	
10	8	Medium	8.4	4.9	22	12	1 x 100	DZ5CA102	Brown	DZ5CA102D	Red
		Long	8.4	4.9	28	18	1 x 100	DZ5CA103		DZ5CA103D	
16	6	Medium	9.6	6.2	24	12	1 x 100	DZ5CA162	White	DZ5CA162D	Blue
		Long	9.6	6.2	28	18	1 x 100	DZ5CA163		DZ5CA163D	
25	4	Medium	12	7.7	30	18	1 x 100	DZ5CA253	Black	DZ5CA253D	Yellow
35	2	Medium	13.5	8.7	30	16	1 x 20	DZ5CA352	Red	DZ5CA352D	Red
		Long	13.5	8.7	39	25	1 x 20	DZ5CA353		DZ5CA353D	
50	0	Medium	16	11	36	20	1 x 20	DZ5CA502	Blue	DZ5CA502D	Blue
		Long	16	11	40	25	1 x 20	DZ5CA503		DZ5CA503D	

Twin conductor cable ends (in dispenser pack)

2 x 0.75	20	Medium	2.8x5	2	15	8	5 x 100	AZ5DE007 ⁽²⁾	Blue	AZ5DE007D ⁽¹⁾	Grey
2 x 1	18	Medium	3.4x5.4	2.25	15	8	5 x 100	AZ5DE010 ⁽²⁾	Red	AZ5DE010D ⁽¹⁾	Red
2 x 1.5	16	Medium	3.6x6.6	2.5	15	8	5 x 100	AZ5DE015 ⁽²⁾	Black	AZ5DE015D ⁽¹⁾	Black
2 x 2.5	14	Medium	4.2x7.8	3.2	18.5	10	5 x 50	AZ5DE025 ⁽²⁾	Grey	AZ5DE025D ⁽¹⁾	Blue

Twin conductor cable ends (packed in 1 plastic bag)

2 x 0.5	22	Medium	2.5x4.7	1.7	15	8	1 x 1000	AZ5DE005 ⁽²⁾	White		
2 x 0.75	20	Medium	2.8x5	2	15	8	1 x 1000	AZ5DE0071 ⁽²⁾	Blue		
2 x 1	18	Medium	3.4x5.4	2.25	15	8	1 x 1000	AZ5DE0101 ⁽²⁾	Red		
2 x 1.5	16	Medium	3.6x6.6	2.5	15	8	1 x 1000	AZ5DE0151 ⁽²⁾	Black		
2 x 2.5	14	Medium	4.2x7.8	3.2	18.5	10	1 x 500	AZ5DE0255 ⁽²⁾	Grey		

Single conductor uninsulated cable ends

Conductor c.s.a.	Type	Dimensions	Sold in lots of	Unit reference DIN 46228-1	
				Reference	
0.75	20	Medium	10 x 100	DZ5CE007N	
1	18	Medium	10 x 100	DZ5CE010N	
1.5	16	Medium	10 x 100	DZ5CE015N	
2.5	14	Medium	10 x 100	DZ5CE025N	
4	12	Medium	1 x 100	DZ5CE040	
	10	Medium	1 x 100	DZ5CE060	
6	10	Medium	1 x 100	DZ5CE060L	
	8	Medium	1 x 100	DZ5CE100	
16	6	Medium	1 x 100	DZ5CE160	

(1) UL certified products.

(2) cCSAus certified products.

Functional Partitioning

Main distribution

Forms partitioning	
Presentation	E-118
Partitioning	E-119
Other partitions	E-123



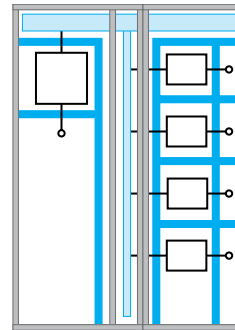
Forms partitioning

Presentation

What are the forms?

- The forms are metal partitions or molded material, removable by using tools or keys, which ensure the protection of operators against direct contact with power conductors when working on low voltage switchboards.
- They also protect internal elements of the switchboard against external aggressions (dust, pests, water ...).
- These forms are graduated from 1 to 4, with indices "a" or "b". Their use contributes to the level of service continuity required by the user.
- Forms have a cumulative effect (a higher form integrates the characteristics of the forms that precede it).
- The choice of a form is the subject to an agreement between the manufacturer and the user.
- The electrical panel must comply with the degree of protection IP 2X, according to standard IEC 61439-1 and 2.

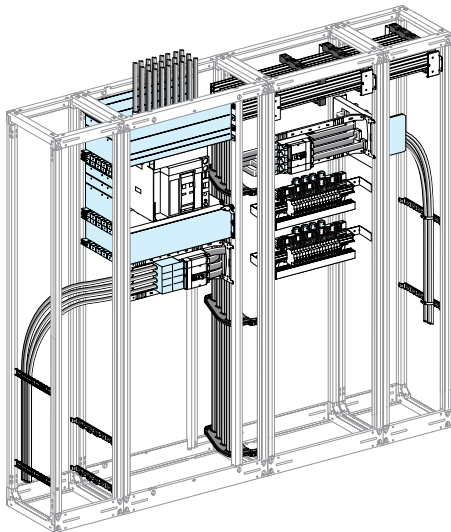
Form 4b



PrismaSeT P Internal Arc Linergy LGYE 66 kA application requires Form 4b.

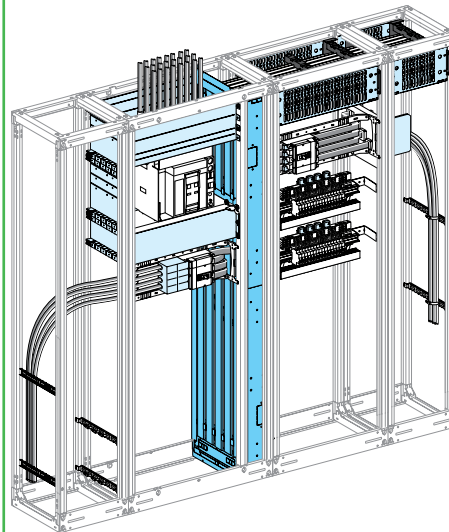
Form 1

No internal separation



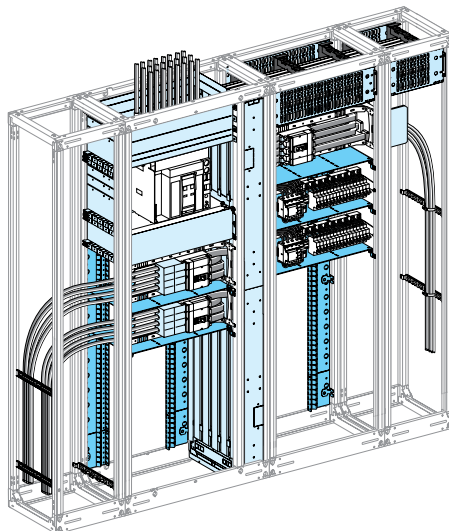
Form 2

Separation between horizontal busbars, vertical busbars, and functional units



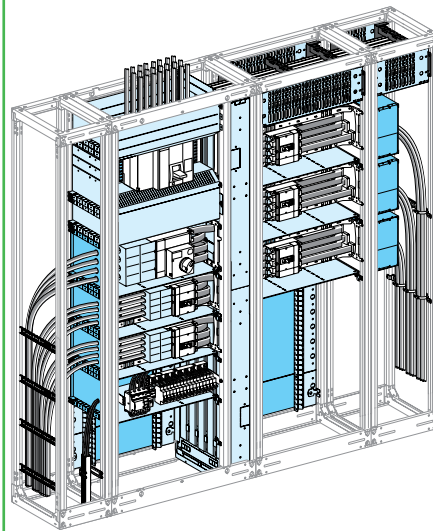
Form 3

Form 2 + separation of functional units from one another



Form 4

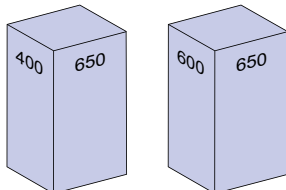
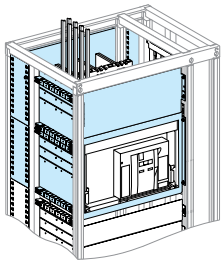
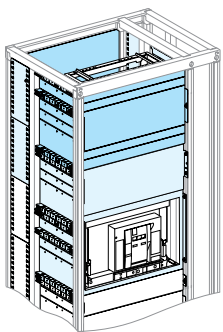
Form 3 + separation of the terminals of the functional units from one another

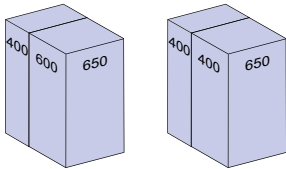
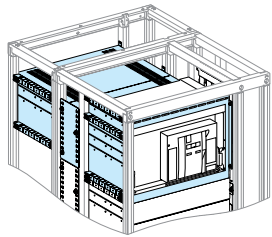
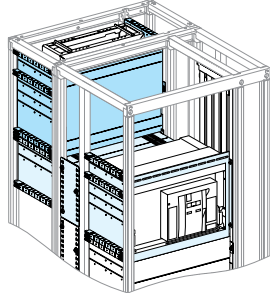


Partitioning

Covering the supply terminals on the incoming device

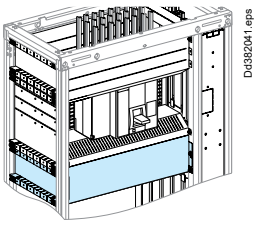
Main distribution

	Front connection with cables				Canalis front connection			
 MTZ2 MTZ1	 Dd382019 eps				 Dd382020 eps			
Devices	Fixed or withdrawable device		Fixed	With-drawable	Fixed or withdrawable device		Fixed	With-drawable
	MasterPact		ComPacT		MasterPact		ComPacT	
	MTZ2	MTZ1	NS630b/1600	NS630b/1600	MTZ2	MTZ1	NS630b/1600	NS630b/1600
Cover	LVS04861	LVS04852	LVS04851	LVS04852	LVS04861	LVS04852	LVS04851	LVS04852
Canalis additional cover	—	—	—	—	LVS04871	LVS04871	LVS04871	LVS04871

	Rear connection with cables				Canalis rear connection			
 MTZ2 Only MTZ1 and ComPacT	 Dd382021 eps				 Dd382022 eps			
Devices	Fixed or withdrawable device		Fixed	With-drawable	Fixed or withdrawable device		Fixed	With-drawable
	MasterPact		ComPacT		MasterPact		ComPacT	
	MTZ2	MTZ1	NS630b/1600	NS630b/1600	MTZ2	MTZ1	NS630b/1600	NS630b/1600
Cover	LVS04863	LVS04854	LVS04853	LVS04854	LVS04863	LVS04854	LVS04853	LVS04854
Canalis additional cover	—	—	—	—	LVS04871	LVS04871	LVS04871	LVS04871

E

Covering of the connection between an incoming device and lateral busbars

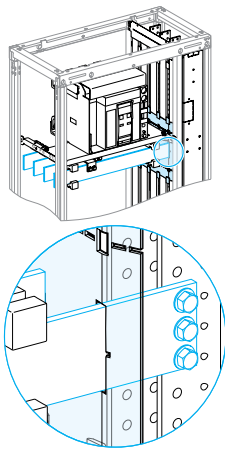
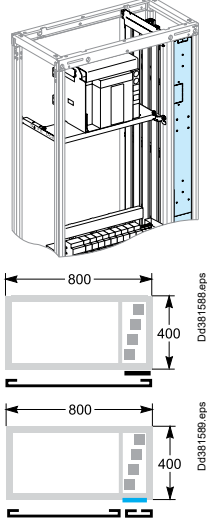
 Dd382041 eps					
	MasterPact MTZ2	MasterPact MTZ1	ComPacT NS630b/1600	ComPacT NS1600b/3200 ⁽¹⁾	ComPacT INS-INV630b/2500
Cover with copper connection	LVS04926	LVS04926	LVS04926	LVS04926	LVS04926
Additional cover	LVS04927	—	—	—	—
Cover with Linergy LGYE connection	LVS04925	LVS04925	—	—	—
Additional cover	LVS04928	—	—	—	—
Form partition depth	600	400	400	400 ⁽¹⁾	400

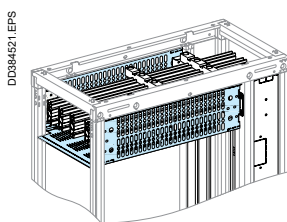
Note: Cubicle depth is based on the depth of the incoming device.

Main distribution

Lateral partitioning

- Lateral partitioning is made up of:
 - Four supports that clip to the framework.
 - Five extruded slats that clip to the supports.
 - Two metal plates at the top and bottom that can be cut out to pass a PE or PEN conductor, or one or two 30 x 60 mm trunking sections.
- Compliance with the standard IEC 695.2.1 concerning withstand to fire.

	Restoration kit / Side barrier	Front or rear barrier	
	 DD385402.eps	 DD383714-1.eps DD381598.eps DD381598.eps DD383228.eps	
		W = 150 mm	W = 300 mm
Characteristics	■ This kit enables passage of the connection between a device > 1600 A (MTZ2, INS-INV) and lateral vertical busbars. ■ It is made up of an insulated plate (six modules high = 300 mm) that can be cut as required, supplied with supports and the necessary hardware. ■ Must be used with MTZ2 interlocking mounting plate.	Can be installed in the front and rear of the busbar compartment. Protects against direct contact with the busbars. ■ For 800 mm cubicles : □ The door is systematically supplied with a barrier. □ The cover frame is supplied with a wicket door, W = 150 mm, on which devices can be mounted. A front barrier is indispensable. ■ A barrier is required at the rear of the busbar compartment in cubicles that are 600, 800 and 1000 mm deep.	
Catalog number	LVS04924	LVS04921	LVS04920



Horizontal partitioning

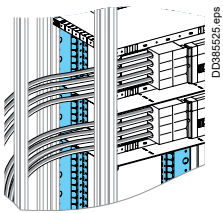
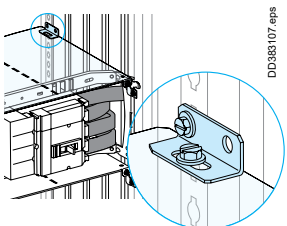
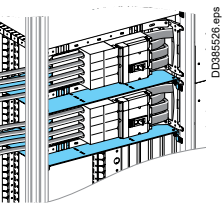
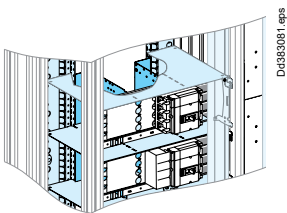
- Set of two barriers (front and rear), plus a slotted rear panel for efficient natural convection in the switchboard.
- The set can be used to partition horizontal busbars installed at the top or bottom of the cubicle.
- The space required for the busbars is not increased.

Linergy LGYE			
Top position			
In	≤ 2500 A	≥ 3200 A	
No of module	3	4	
D400			
Cover	W = 300	LVS04973	LVS04963
	W = 400	LVS04974	LVS04964
	W650	LVS04976	LVS04966
	W650 + 150	LVS04976	LVS04966
	W800	LVS04978	LVS04968
D600			
Cover	W = 300	LVS04983	LVS04963
	W = 400	LVS04984	LVS04964
	W650	LVS04986	LVS04966
	W650 + 150	LVS04986	LVS04966
	W800	LVS04988	LVS04968

Note: When the busbars are at the bottom of the cubicle, gland plates are mandatory > page E-19.

Note: To protect horizontal busbars installed at the bottom of the cubicle, the slotted horizontal panel must be replaced by a plain barrier.(LVS04915 or LVS04919) and add a free support LVS04662.

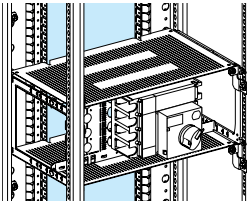
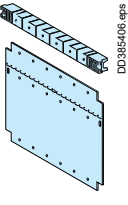
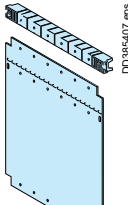
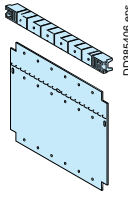
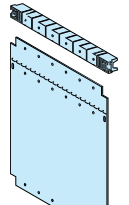
Main distribution

	Front connection			Rear connection	
					
	Rear support for partitions W = 650 mm	6 universal angle brackets	Horizontal metal partition W = 650 mm	Rear connection	
Characteristics	Two uprights secured to the framework (400 mm deep) or to the intermediate uprights (600 mm deep frameworks).	A set of brackets can be used to install partial Form 3 partitioning in the cubicle. It does not take up any useful space in the switchboard.	A horizontal metal partition can be used to physically separate functional units from one another. It does not take up any useful space in the switchboard.	Vertical partitions (two cat. no. per functional unit)	
Catalog numbers	LVS04943	LVS03583	LVS04901	LVS04955	LVS04956

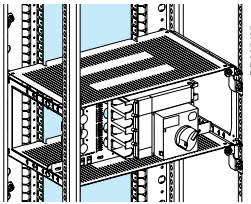
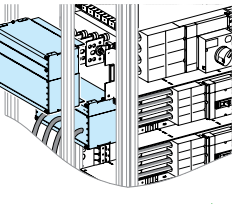
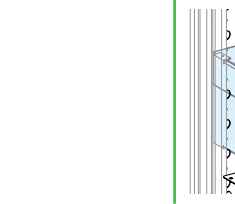
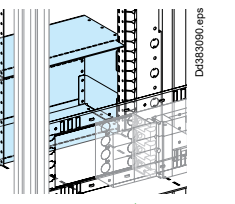
E

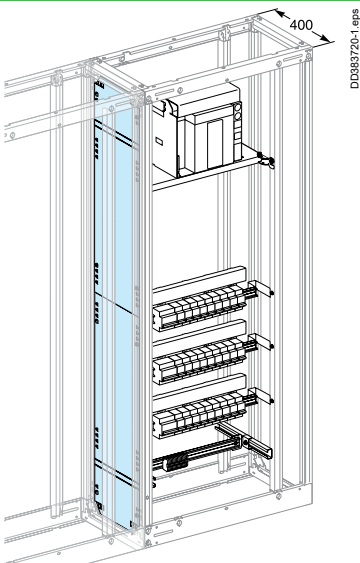
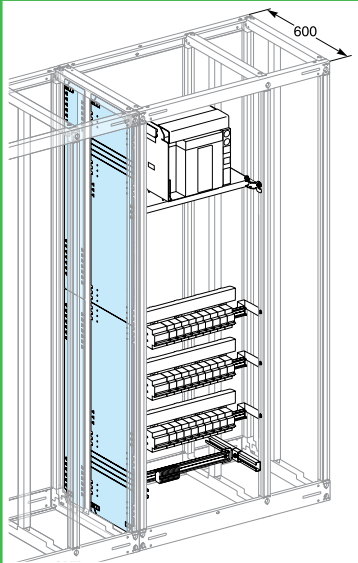
Main distribution

Direct connection to the device

	Front connection	Rear connection			
					
	Backplate	Gland plate / Side barrier			
Characteristics	■ A backplate (one cat. no. per cubicle) made up of two metal half panels mounted on the rear supports for Form 3 partitions. This backplate is not indispensable for 400 mm deep frameworks.	■ A plastic gland plate that can be easily cut out (one for each functional unit) and is mounted on the framework.			
		3 to 4 modules	5 to 6 modules	3 to 5 modules	4 to 6 modules
Catalog numbers	LVS04946	LVS04951	LVS04952	LVS04951	LVS04952

Connection transfer

	In a lateral compartment	At the rear of the cubicle			
					
	Backplate	Cover			
Characteristics	■ A backplate (one cat. no. per cubicle) made up of two metal half panels mounted on the rear supports for Form 3 partitions. This backplate is not indispensable for 400 mm deep frameworks.	■ A cover with plastic gland plates that can be easily cut out on the side and bottom.			
		3 to 5 modules W150	4 to 6 modules W200	3 to 5 modules	4 to 6 modules
Catalog numbers	LVS04946	LVS04953	LVS04954	LVS04953	LVS04954

Inter-cubicle partition		
	 Diagram showing the D400 inter-cubicle partition installed in a rack. The partition is 400 mm wide. The rack structure is labeled DCS83720-1 eps.	 Diagram showing the D600 inter-cubicle partition installed in a rack. The partition is 600 mm wide. The rack structure is labeled DCS83722-1 eps.
	D400	D600
Characteristics	■ Metal partition, used to separate two adjacent cubicles. ■ It is made up of two panels, each 850 mm high. ■ The top and bottom ends have knock-outs for busbars, PE/PEN conductors or auxiliary wiring. ■ Supplied with the necessary supports and hardware, the partition is mounted on the framework and does not hinder installation of the functional mounting plates.	
Catalog numbers	LVS04911	LVS04911 + LVS04931

Additional Information

Contents

Spare parts

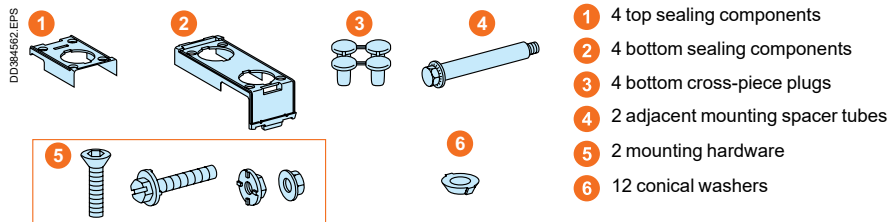
After-sales accessories	E-126
Electrical characteristics	
Designing horizontal busbars	
Linerger LGYE	E-128
Designing vertical busbars	
Linerger LGY	E-129
Linerger LGYE	E-130
Designing connections between a device and busbars	
Prefabricated connections for ComPacT NS630b to NS1600	E-131
Prefabricated connections for MasterPact MTZ1 06-16	E-132
Prefabricated connections for ComPacT NS630b to NS1000	E-133
Fixed MasterPact 08-16	E-134
Fixed MasterPact 08-32	E-135
Drawout MasterPact 08-16	E-136
Drawout MasterPact 08-32	E-137
Dedicated cubicle - Fixed MasterPact 08-32	E-138
Dedicated cubicle - Drawout MasterPact 08-32	E-139
ComPacT NS630b to NS1000	E-140
Designing connections ≤ 630 A	
Device connections	E-141
ComPacT circuit breakers NSX100 to NSX630	E-142
ComPacT circuit breakers NSX100 to NSX250	E-143
ComPacT circuit breakers NSXm up to 160	E-144
Designing cable connections	
Tubular lugs	E-145
Designing customer connections	
Prefabricated connections for ComPacT NS630b to NS1600	E-146
Prefabricated connections for MasterPact 06-16	E-147
Connection transfer assembly for fixed ComPacT NS630b to NS1000	E-148
Fixed MasterPact 08-16	E-149
Fixed MasterPact 08-32	E-150
Drawout MasterPact 08-16	E-151
MasterPact 08-32 withdrawable	E-152
Fixed MasterPact 06-16	E-153
Drawout MasterPact 06-16	E-154
Fixed ComPacT NS630b to NS1600	E-155
Withdrawable ComPacT NS630b to NS1600	E-156
Fixed ComPacT NS630b to NS1000 Horizontal mounting	E-157
Designing busbars	
FuPact GS, ISFT Vertical Linergy LGYE, LGY busbars	E-158
Designing connections between a device and busbars	
Dedicated cubicle - W = 400 mm	E-159

Spare parts

Framework accessories

Framework accessories

LVS01104



Front-plate accessories

10 sets of 2 grips quarter turn

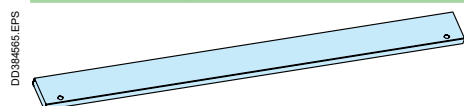
LVS01094



Accessory

Plain wicket door, W = 150 mm

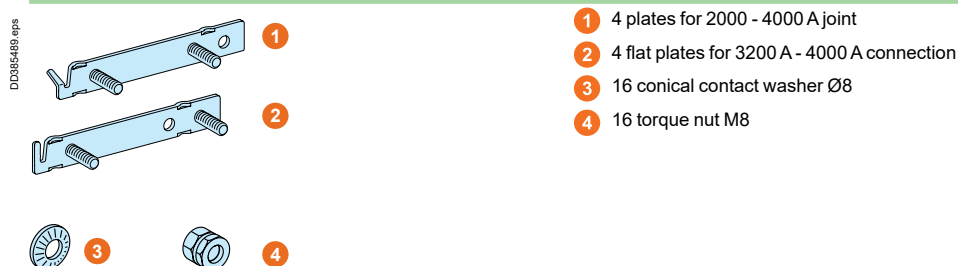
LVS01110



Linergy LGYE busbar accessories

Linergy LGYE connection screwplate kit

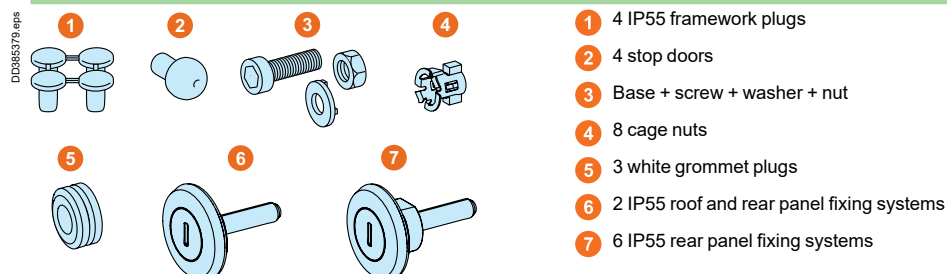
LVS01130



Rear accessories

Accessories IP55

LVS01101



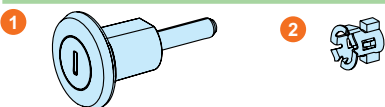
Spare parts

Side panel accessories

Accessories for IP55 side panel

LVS01102

DD38468.EPS



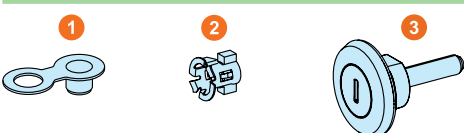
- 1 16 fixing system IP55
- 2 16 cage nuts

Roof accessories

Accessories for IP55 roof

LVS01103

DD38530.EPS



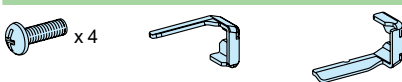
- 1 4 lifting ring plugs
- 2 6 cage nuts
- 3 6 mounting sets of screw fixing IP55 for roof

Front plate support frames

Front plate support striker kit for LVS08564 - LVS08566

LVS01123

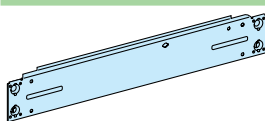
DD384571.EPS



Framework accessories

Framework accessories

DD384572.EPS



- Frame bottom cross-member W400 to use with LVS08564
- Frame bottom cross-member W650 to use with LVS08566
- Frame bottom cross-member W150+650 to use with LVS08566
- Frame bottom cross-member W650+150 to use with LVS08566
- (1) Spare parts on stock in RAL 9003 only.

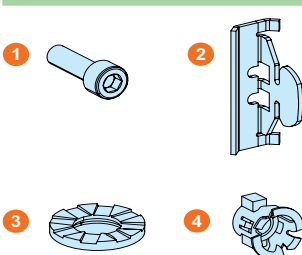
LVS01119 (1)
LVS01120 (1)
LVS01121 (1)
LVS01122 (1)

Door accessories

Reinforced door striker

LVS01114

DD435601.EPS

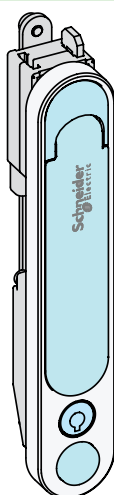


- 1 4 screws MSC HXG SK M6 x 20
- 2 4 door strike stoppers
- 3 4 washers
- 4 4 captive nuts for frame

PrismaSet P rotary handle spare parts

LVS01219

mz313101_1.EPS



- 1 Handle housing block
- 2 P adapter link part
- 3 Screw, pan head, M5x8
- 4 The key of 405
- 5 1 crosshead screw
- 6 Omega fix part
- 7 Driver block
- 8 Hex locking screw, M6x10
- 9 Self tapping screw, pan head, ST3.5x15

Designing horizontal busbars

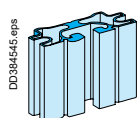
Linerger LGYE

Electrical characteristics

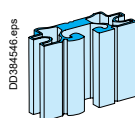
Permissible current and selection of Linergy LGYE busbars
Up to 3200 A

Linerger LGYE section

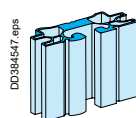
Type of bars	Permissible current (A)					
	Ambient temperature around the switchboard					
	25 °C	30 °C	35 °C	40 °C	45 °C	50 °C
Size per phase	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31
Linerger LGYE 630	680	650	630	590	550	520
Linerger LGYE 800	860	830	800	750	700	660
Linerger LGYE 1000	1080	1040	1000	940	880	830
Linerger LGYE 1250	1350	1300	1250	1170	1100	1020
Linerger LGYE 1600	1730	1690	1650	1550	1450	1350
Linerger LGYE 2000	2200	2100	2000	1900	1810	1720
Linerger LGYE 2500	2640	2540	2440	2310	2240	2120
Linerger LGYE 3200	3400	3300	3200	3040	2890	2750



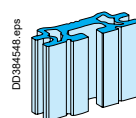
Section 630 A.
Cat. No. LVS04560.



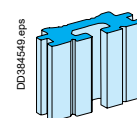
Section 800 A.
Cat. No. LVS04561.



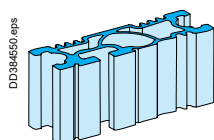
Section 1000 A.
Cat. No. LVS04562.



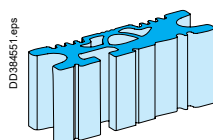
Section 1250 A.
Cat. No. LVS04563.



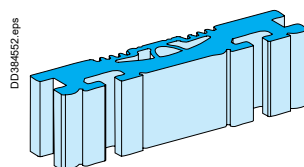
Section 1600 A.
Cat. No. LVS04564.



Section 2000 A.
Cat. No. LVS04565.



Section 2500 A.
Cat. No. LVS04566.



Section 3200 A.
Cat. No. LVS04567.

Designing vertical busbars

LinerGY LGY

Electrical characteristics

Permissible current and selection of Linergy LGY busbars

The goal is to optimise busbar size according to the installation and operating criteria.

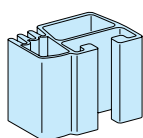
Up to 3200 A

LinerGY LGY section

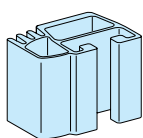
Type of bars	Permissible current (A)					
	Ambient temperature around the switchboard					
	25 °C IP ≤ 31	30 °C IP ≤ 31	35 °C IP ≤ 31	40 °C IP ≤ 31	45 °C IP ≤ 31	50 °C IP ≤ 31
LinerGY LGY 630	750	710	680	630	590	550
LinerGY LGY 800	920	880	840	800	760	720
LinerGY LGY 1000	1140	1090	1040	990	950	900
LinerGY LGY 1250	1410	1350	1290	1230	1170	1100
LinerGY LGY 1600	1800	1720	1650	1580	1480	1390
LinerGY LGY 2000 (2 x 1000)	2200	2100	2000	1900	1820	1720
LinerGY LGY 2500 (2 x 1250)	2740	2620	2500	2380	2260	2120
LinerGY LGY 3200 (2 x 1600)	3480	3340	3200	3060	2920	2780

Example:

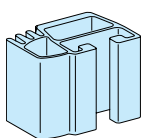
A Linergy LGY channelled bar can be used for a 1650 A current with an IP ≤ 31 and an ambient temperature around the switchboard of 35 °C.



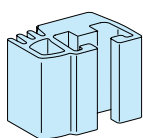
DD381233 eps



DD381234 eps



DD381235 eps



DD385507 eps



Section 630 A.
Cat. No. LVS04502.



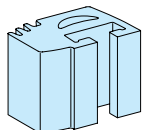
Section 800 A.
Cat. No. LVS04503.



Section 1000 A.
Cat. No. LVS04504.



Section 1250 A.
Cat. No. LVS04505.



DD385508 eps



Section 1600 A.
Cat. No. LVS04506.

Note: The values indicated above have been validated for PrismaSeT P switchboards.

E

Designing vertical busbars

Linerger LGYE

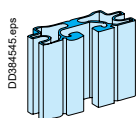
Electrical characteristics

Up to 3200 A

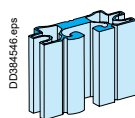
Linerger LGYE section

Type of bars	Permissible current (A)					
	Ambient temperature around the switchboard					
	25 °C	30 °C	35 °C	40 °C	45 °C	50 °C
Size per phase	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31
Linerger LGYE 630	680	650	630	590	550	520
Linerger LGYE 800	860	830	800	750	700	660
Linerger LGYE 1000	1080	1040	1000	940	880	830
Linerger LGYE 1250	1350	1300	1250	1170	1100	1020
Linerger LGYE 1600	1730	1690	1650	1550	1450	1350
Linerger LGYE 2000	2200	2100	2000	1900	1810	1720
Linerger LGYE 2500	2640	2540	2440	2310	2240	2120
Linerger LGYE 3200	3400	3300	3200	3040	2890	2750

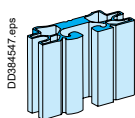
■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.



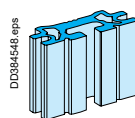
Section 630 A.
Cat. No. LVS04560.



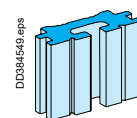
Section 800 A.
Cat. No. LVS04561.



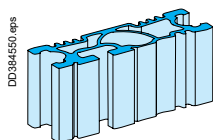
Section 1000 A.
Cat. No. LVS04562.



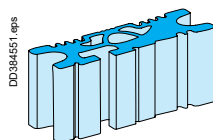
Section 1250 A.
Cat. No. LVS04563.



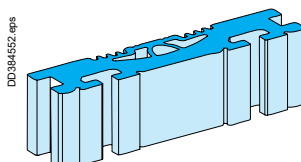
Section 1600 A.
Cat. No. LVS04564.



Section 2000 A.
Cat. No. LVS04565.



Section 2500 A.
Cat. No. LVS04566.



Section 3200 A.
Cat. No. LVS04567.

Designing connections between a device and busbars

Prefabricated connections for ComPacT NS630b to NS1600

Electrical characteristics

ComPacT NS630b to NS1600

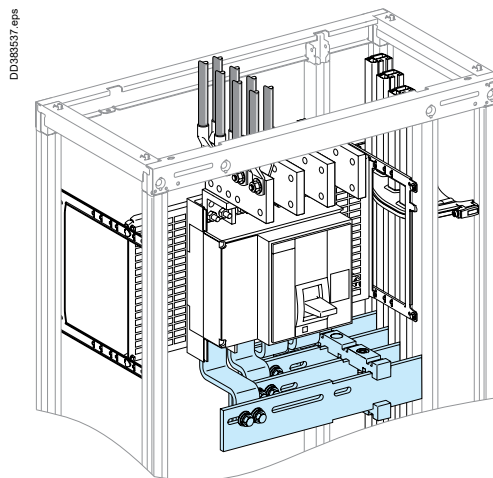
Vertical mounting

Front or rear connection

Top or bottom incoming

Vertical busbars on the left or right

Linerity LGY busbars



Using the data below, it is possible to determine the permissible current for a prefabricated connection between a vertical ComPacT NS630b/NS1600, fixed or withdrawable, and Linergy LGY busbars depending on the ambient temperature around the switchboard and the IP value.

Fixed

Prefabricated connection

Device and cat. no.		Permissible current (A)					
		Ambient temperature around the switchboard					
		25 °C	30 °C	35 °C	40 °C	45 °C	50 °C
		IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31
NS630b	3P cat. no. LVS04485	630	630	630	630	630	630
	4P cat. no. LVS04486						
NS800	3P cat. no. LVS04485	800	800	800	800	800	800
	4P cat. no. LVS04486						
NS1000	3P cat. no. LVS04485	1000	1000	1000	1000	1000	1000
	4P cat. no. LVS04486						
NS1250	3P cat. no. LVS04485	1250	1250	1250	1250	1250	1200
	4P cat. no. LVS04486						
NS1600	3P cat. no. LVS04487	1600	1600	1550	1500	1450	1400
	4P cat. no. LVS04488						

Withdrawable

Prefabricated connection

Device and cat. no.		Permissible current (A)					
		Ambient temperature around the switchboard					
		25 °C	30 °C	35 °C	40 °C	45 °C	50 °C
		IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31
NS630b	3P cat. no. LVS04477	630	630	630	630	630	630
	4P cat. no. LVS04478						
NS800	3P cat. no. LVS04477	800	800	800	800	800	800
	4P cat. no. LVS04478						
NS1000	3P cat. no. LVS04477	1000	1000	1000	1000	1000	1000
	4P cat. no. LVS04478						
NS1250	3P cat. no. LVS04477	1250	1250	1250	1250	1250	1200
	4P cat. no. LVS04478						
NS1600	3P cat. no. LVS04491	1560	1520	1480	1430	1380	1330
	4P cat. no. LVS04492						

Designing connections between a device and busbars

Prefabricated connections for MasterPact MTZ1 06-16

Electrical characteristics

MasterPact MTZ1 06 to 16

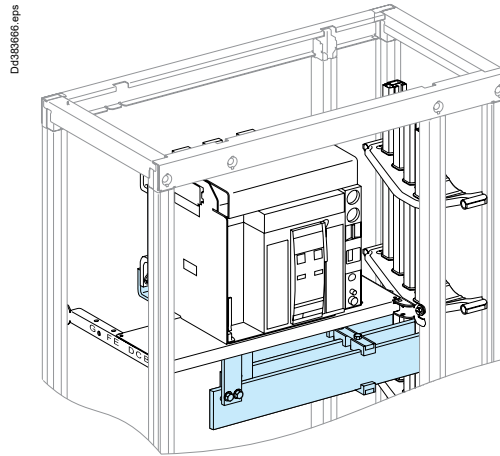
Vertical mounting

Front or rear connection

Top or bottom incoming

Vertical busbars on the left or right

Lineray LGY busbars



Using the data below, it is possible to determine the permissible current for a prefabricated connection between a vertical MasterPact MTZ1 06/16, fixed or drawout, and Linergy LGY busbars depending on the ambient temperature around the switchboard and the IP value.

Fixed

Prefabricated connection

Device and cat. no.		Permissible current (A)					
		Ambient temperature around the switchboard					
		25 °C	30 °C	35 °C	40 °C	45 °C	50 °C
		IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31
MTZ1 06	3P cat. no. LVS04475	630	630	630	630	630	630
	4P cat. no. LVS04476						
MTZ1 08	3P cat. no. LVS04475	800	800	800	800	800	800
	4P cat. no. LVS04476						
MTZ1 10	3P cat. no. LVS04475	1000	1000	1000	1000	1000	1000
	4P cat. no. LVS04476						
MTZ1 12	3P cat. no. LVS04475	1250	1250	1250	1250	1250	1200
	4P cat. no. LVS04476						
MTZ1 16	3P cat. no. LVS04489	1600	1600	1570	1520	1470	1420
	4P cat. no. LVS04490						

Withdrawable

Prefabricated connection

Device and cat. no.		Permissible current (A)					
		Ambient temperature around the switchboard					
		25 °C	30 °C	35 °C	40 °C	45 °C	50 °C
		IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31
MTZ1 06	3P cat. no. LVS04477	630	630	630	630	630	630
	4P cat. no. LVS04478						
MTZ1 08	3P cat. no. LVS04477	800	800	800	800	800	800
	4P cat. no. LVS04478						
MTZ1 10	3P cat. no. LVS04477	1000	1000	1000	1000	1000	1000
	4P cat. no. LVS04478						
MTZ1 12	3P cat. no. LVS04477	1250	1250	1250	1250	1250	1200
	4P cat. no. LVS04478						
MTZ1 16	3P cat. no. LVS04491	1560	1520	1480	1430	1380	1330
	4P cat. no. LVS04492						

Designing connections between a device and busbars

Prefabricated connections for ComPacT NS630b to NS1000

Electrical characteristics

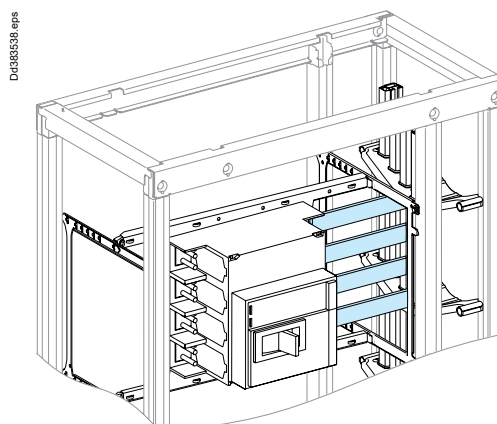
ComPacT NS630b to NS1000

Horizontal mounting

Front or rear connection

Left or right incoming

Lineray LGY vertical busbars



Using the data below, it is possible to determine the permissible current for a prefabricated connection between a horizontal ComPacT NS630b/NS1600, fixed or withdrawable, and Linergy LGY busbars depending on the ambient temperature around the switchboard and the IP value.

Fixed

Prefabricated connection

Device and cat. no.		Permissible current (A)					
		Ambient temperature around the switchboard					
		25 °C	30 °C	35 °C	40 °C	45 °C	50 °C
		IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31
NS630b	3P cat. no. LVS04473	630	630	630	630	630	630
	4P cat. no. LVS04474						
NS800	3P cat. no. LVS04473	800	800	800	800	800	800
	4P cat. no. LVS04474						
NS1000	3P cat. no. LVS04473	1000	1000	1000	1000	1000	1000
	4P cat. no. LVS04474						

Note: The values indicated above have been validated for PrismaSeT P switchboards.

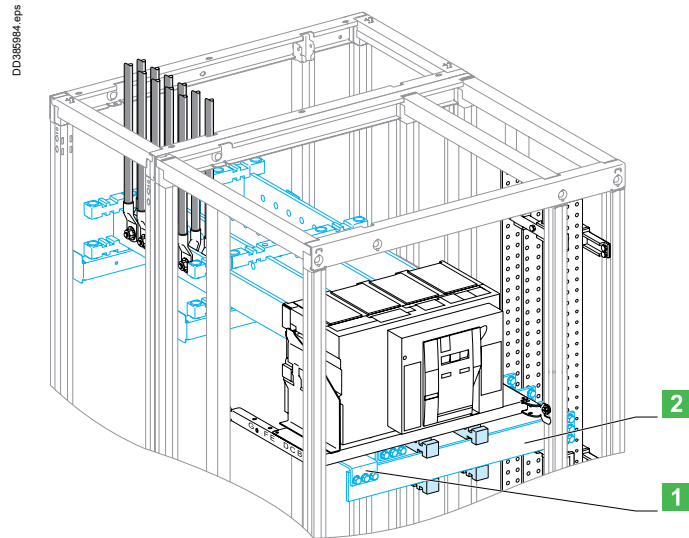
Designing connections between a device and busbars

Fixed MasterPact 08-16

Electrical characteristics

MasterPact MTZ2 08 to 16
Fixed

Vertical busbars on the left or right
Lineray LGY, LGYE busbars
Connections drawings supplied by
Schneider Electric



- 1 Liaison
2 Horizontal link.

Using the data below, it is possible to determine the size of the copper bars and the maximum permissible currents when making the connections to busbars for a vertical, fixed MasterPact MTZ2 08/16, front or rear connection, taking into account the ambient temperature around the switchboard and the IP value.

Connection

Flat bars, 5 mm thick

Device		Permissible current (A)					
		Ambient temperature around the switchboard ⁽¹⁾					
		25 °C	30 °C	35 °C	40 °C	45 °C	50 °C
		IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31
MTZ2 08	Size per phase	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5
	I (A)	800	800	800	800	800	800
MTZ2 10	Size per phase	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5
	I (A)	1000	1000	1000	1000	1000	1000
MTZ2 12	Size per phase	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5
	I (A)	1250	1250	1250	1250	1250	1250
MTZ2 16	Size per phase	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5
	I (A)	1600	1600	1600	1570	1520	1470

Horizontal link

Flat bars, 5 mm thick

Device		Permissible current (A)					
		Ambient temperature around the switchboard					
		25 °C	30 °C	35 °C	40 °C	45 °C	50 °C
		IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31
MTZ2 08	Size per phase	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5
	I (A)	800	800	800	800	800	800
MTZ2 10	Size per phase	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5
	I (A)	1000	1000	1000	1000	1000	1000
MTZ2 12	Size per phase	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5
	I (A)	1250	1250	1250	1250	1250	1250
MTZ2 16	Size per phase	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5
	I (A)	1600	1600	1600	1570	1520	1470

(1) In the case of a door mounted at the rear of cubicle, add 10 °C.

Note: The values indicated above have been validated for PrismaSeT P switchboards.

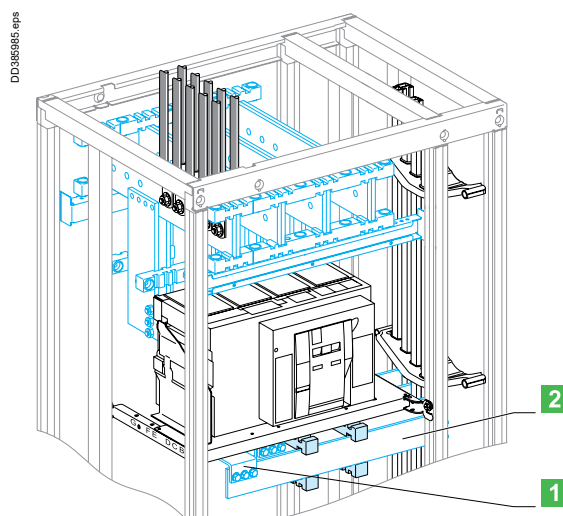
Designing connections between a device and busbars

Fixed MasterPact 08-32

Electrical characteristics

MasterPact MTZ2 08 to 32
Fixed

Vertical busbars on the left or right
Lineray LGYE, LGY busbars
Connections drawings supplied by
Schneider Electric



1 Connection.

2 Horizontal link.

Using the data below, it is possible to determine the size of the copper bars and the maximum permissible currents when making the connections to busbars for a vertical, fixed MasterPact MTZ2 08/32, front or rear connection, taking into account the ambient temperature around the switchboard and the IP value.

Connection

Flat bars, 10 mm thick

Device		Permissible current (A)					
		Ambient temperature around the switchboard					
		25 °C	30 °C	35 °C	40 °C	45 °C	50 °C
		IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31
MTZ2 08	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10
	I (A)	800	800	800	800	800	800
MTZ2 10	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10
	I (A)	1000	1000	1000	1000	1000	1000
MTZ2 12	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10
	I (A)	1250	1250	1250	1250	1250	1250
MTZ2 16	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10
	I (A)	1600	1600	1600	1570	1520	1470
MTZ2 20	Size per phase	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10
	I (A)	2000	2000	2000	2000	2000	1950
MTZ2 25	Size per phase	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10
	I (A)	2500	2500	2500	2500	2500	2460
MTZ2 32	Size per phase	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10
	I (A)	3200	3170	3080	3000	2910	2820

Horizontal link

Flat bars, 10 mm thick

Device		Permissible current (A)					
		Ambient temperature around the switchboard					
		25 °C	30 °C	35 °C	40 °C	45 °C	50 °C
		IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31
MTZ2 08	Size per phase	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10
	I (A)	800	800	800	800	800	800
MTZ2 10	Size per phase	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10
	I (A)	1000	1000	1000	1000	1000	1000
MTZ2 12	Size per phase	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10
	I (A)	1250	1250	1250	1250	1250	1250
MTZ2 16	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10
	I (A)	1600	1600	1600	1570	1520	1470
MTZ2 20	Size per phase	2b 60 x 10	2b 60 x 10	2b 60 x 10	2b 60 x 10	2b 60 x 10	2b 60 x 10
	I (A)	2000	2000	2000	2000	2000	1950
MTZ2 25	Size per phase	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10
	I (A)	2500	2500	2500	2500	2500	2460
MTZ2 32	Size per phase	2b 100x10	2b 100x10	2b 100x10	2b 100x10	2b 100x10	2b 100x10
	I (A)	3200	3170	3080	3000	2910	2820

Note: The values indicated above have been validated for PrismaSeT P switchboards.

Designing connections between a device and busbars

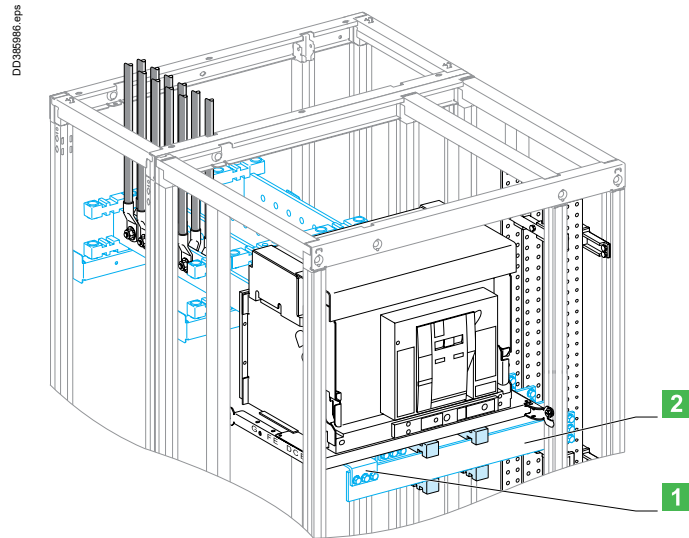
Drawout MasterPact 08-16

Electrical characteristics

MasterPact MTZ2 08 to 16

Drawout

Vertical busbars on the left or right
Lineray LGY, LGYE busbars
Connections drawings supplied by
Schneider Electric



1 Connection.

2 Horizontal link.

Using the data below, it is possible to determine the size of the copper bars and the maximum permissible currents when making the connections to busbars for a vertical, drawout MasterPact MTZ2 08/16, front or rear connection, taking into account the ambient temperature around the switchboard and the IP value.

Connection

Flat bars, 5 mm thick

Device		Permissible current (A)					
		Ambient temperature around the switchboard ⁽¹⁾					
		25 °C	30 °C	35 °C	40 °C	45 °C	50 °C
		IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31
MTZ2 08	Size per phase	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5
	I (A)	800	800	800	800	800	800
MTZ2 10	Size per phase	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5
	I (A)	1000	1000	1000	1000	1000	1000
MTZ2 12	Size per phase	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5
	I (A)	1250	1250	1250	1250	1230	1200
MTZ2 16	Size per phase	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5
	I (A)	1560	1520	1480	1430	1380	1330

Horizontal link

Flat bars, 5 mm thick

Device		Permissible current (A)					
		Ambient temperature around the switchboard					
		25 °C	30 °C	35 °C	40 °C	45 °C	50 °C
		IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31
MTZ2 08	Size per phase	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5
	I (A)	800	800	800	800	800	800
MTZ2 10	Size per phase	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5
	I (A)	1000	1000	1000	1000	1000	1000
MTZ2 12	Size per phase	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5
	I (A)	1250	1250	1250	1250	1230	1200
MTZ2 16	Size per phase	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5
	I (A)	1560	1520	1480	1430	1380	1330

(1) In the case of a door mounted at the rear of cubicle, add 10 °C.

Note: The values indicated above have been validated for PrismaSeT P switchboards.

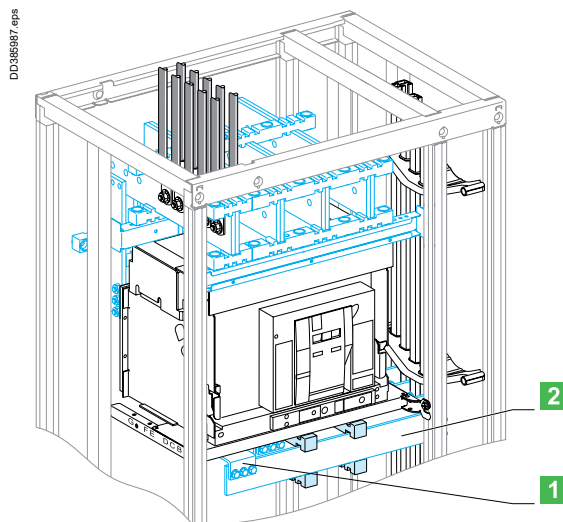
Designing connections between a device and busbars

Drawout MasterPact 08-32

Electrical characteristics

MasterPact MTZ2 08 to 32
Drawout

Vertical busbars on the left or right
Lineray LGYE, LGY busbars
Connections drawings supplied by
Schneider Electric

**1** Connection.**2** Horizontal link.

Using the data below, it is possible to determine the size of the copper bars and the maximum permissible currents when making the connections to busbars for a vertical, drawout MasterPact MTZ2 08/32, front or rear connection, taking into account the ambient temperature around the switchboard and the IP value.

Connection

Flat bars, 10 mm thick

Device		Permissible current (A)					
		Ambient temperature around the switchboard					
		25 °C	30 °C	35 °C	40 °C	45 °C	50 °C
		IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31
MTZ2 08	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10
	I (A)	800	800	800	800	800	800
MTZ2 10	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10
	I (A)	1000	1000	1000	1000	1000	1000
MTZ2 12	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10
	I (A)	1250	1250	1250	1210	1180	1140
MTZ2 16	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10
	I (A)	1560	1520	1480	1430	1380	1330
MTZ2 20	Size per phase	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10
	I (A)	2000	2000	2000	1950	1900	1830
MTZ2 25	Size per phase	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10
	I (A)	2470	2410	2350	2280	2210	2140
MTZ2 32	Size per phase	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10
	I (A)	2960	2890	2820	2730	2630	2530

Horizontal link

Flat bars, 10 mm thick

Device		Permissible current (A)					
		Ambient temperature around the switchboard					
		25 °C	30 °C	35 °C	40 °C	45 °C	50 °C
		IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31
MTZ2 08	Size per phase	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10
	I (A)	800	800	800	800	800	800
MTZ2 10	Size per phase	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10
	I (A)	1000	1000	1000	1000	1000	1000
MTZ2 12	Size per phase	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10
	I (A)	1250	1250	1250	1210	1180	1140
MTZ2 16	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10
	I (A)	1560	1520	1480	1430	1380	1330
MTZ2 20	Size per phase	2b 60 x 10	2b 60 x 10	2b 60 x 10	2b 60 x 10	2b 60 x 10	2b 60 x 10
	I (A)	2000	2000	2000	1950	1900	1830
MTZ2 25	Size per phase	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10
	I (A)	2470	2410	2350	2280	2210	2140
MTZ2 32	Size per phase	2b 100x10	2b 100x10	2b 100x10	2b 100x10	2b 100x10	2b 100x10
	I (A)	2960	2890	2820	2730	2630	2530

Note: The values indicated above have been validated for PrismaSeT P switchboards.

Designing connections between a device and busbars

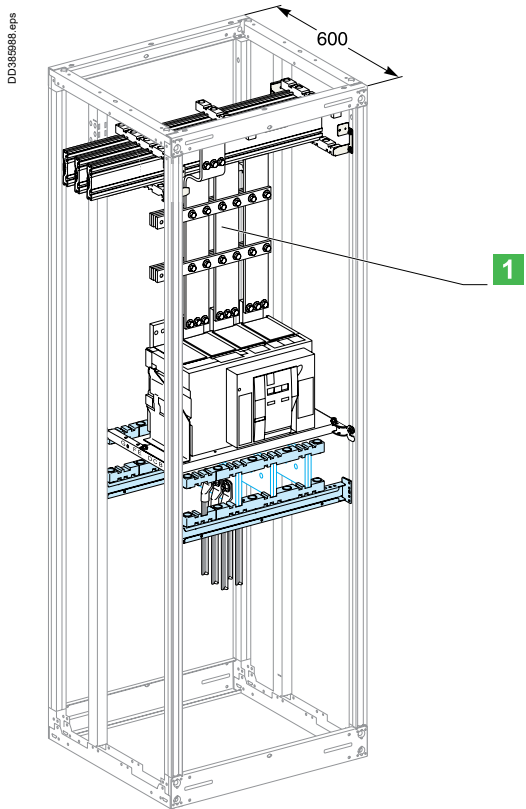
Dedicated cubicle

Fixed MasterPact 08-32

MasterPact MTZ2 08 to 32
Fixed

Dedicated cubicle
Linerigy LGE busbar
Connections drawings supplied by
Schneider Electric

Electrical characteristics



Connection

Flat bars, 10 mm thick

Device		Permissible current (A)					
		Ambient temperature around the switchboard					
		25 °C	30 °C	35 °C	40 °C	45 °C	50 °C
		IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31
MTZ2 08	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10
	I (A)	800	800	800	800	800	800
MTZ2 10	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10
	I (A)	1000	1000	1000	1000	1000	1000
MTZ2 12	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10
	I (A)	1250	1250	1250	1250	1250	1250
MTZ2 16	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10
	I (A)	1600	1600	1600	1570	1520	1470
MTZ2 20	Size per phase	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10
	I (A)	2000	2000	2000	2000	2000	1950
MTZ2 25	Size per phase	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10
	I (A)	2500	2500	2500	2500	2500	2460
MTZ2 32	Size per phase	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10
	I (A)	3200	3170	3080	3000	2910	2820

Designing connections between a device and busbars

Dedicated cubicle

Drawout MasterPact 08-32

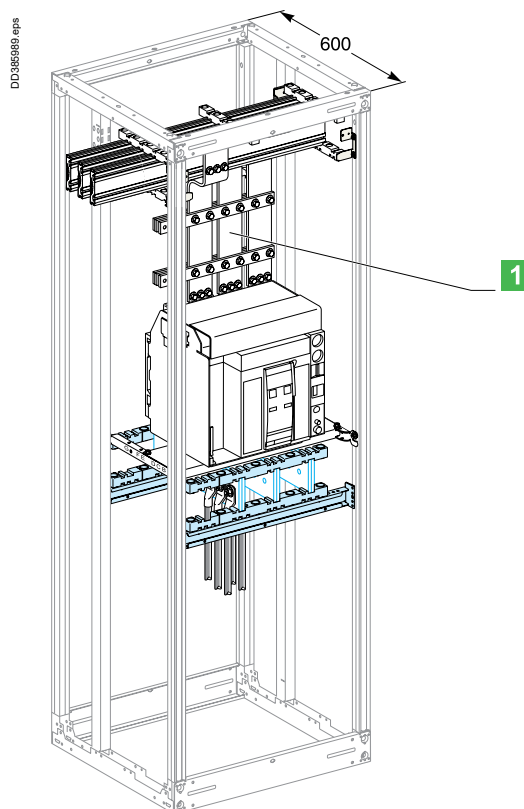
Electrical characteristics

MasterPact MTZ2 08 to 32

Drawout

Dedicated cubicle

Lineray LGYE busbar

Connections drawings supplied by
Schneider Electric

Connection

Flat bars, 10 mm thick

Device		Permissible current (A)					
		Ambient temperature around the switchboard					
		25 °C	30 °C	35 °C	40 °C	45 °C	50 °C
		IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31
MTZ2 08	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10
	I (A)	800	800	800	800	800	800
MTZ2 10	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10
	I (A)	1000	1000	1000	1000	1000	1000
MTZ2 12	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10
	I (A)	1250	1250	1250	1210	1180	1140
MTZ2 16	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10
	I (A)	1560	1520	1480	1430	1380	1330
MTZ2 20	Size per phase	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10
	I (A)	2000	2000	2000	1950	1900	1830
MTZ2 25	Size per phase	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10
	I (A)	2470	2410	2350	2280	2210	2140
MTZ2 32	Size per phase	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10
	I (A)	2960	2890	2820	2730	2630	2530

Designing connections between a device and busbars

Horizontal, fixed

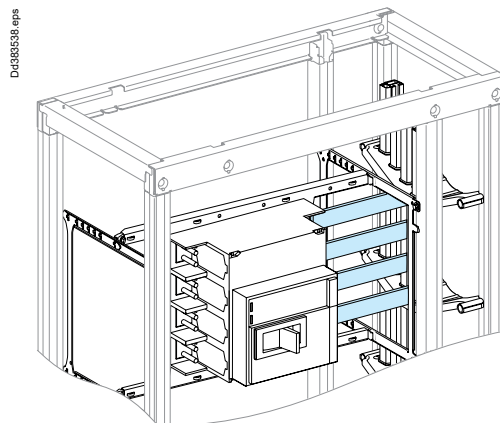
ComPacT NS630b to NS1000

Electrical characteristics

ComPacT NS630b to NS1000

Horizontal mounting

Vertical Linergy LGYE, LGY, BS busbars



Using the data below, it is possible to determine the size of the copper bars and the maximum permissible currents when making the connections to busbars for a horizontal, fixed ComPacT NS630b/NS1000, taking into account the ambient temperature around the switchboard and the IP value.

Flat bars, 5 mm thick

Device		Permissible current (A)					
		Ambient temperature around the switchboard					
		25 °C	30 °C	35 °C	40 °C	45 °C	50 °C
		IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31
NS630b	Size per phase	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5
	I (A)	630	630	630	630	630	630
NS800	Size per phase	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5
	I (A)	800	800	800	800	800	800
NS1000	Size per phase	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5
	I (A)	1000	1000	1000	1000	1000	1000

Flat bars, 10 mm thick

Device		Permissible current (A)					
		Ambient temperature around the switchboard					
		25 °C	30 °C	35 °C	40 °C	45 °C	50 °C
NS630b	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10
	I (A)	630	630	630	630	630	630
NS800	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10
	I (A)	800	800	800	800	800	800
NS1000	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10
	I (A)	1000	1000	1000	1000	1000	1000

Note: The values indicated above have been validated for PrismaSeT P switchboards.

Designing connections ≤ 630 A

Device connections

Electrical characteristics

Flexible copper bars with an insulating sheath

Switchboards that comply with standard IEC 61439-1 and 2

It is imperative to use the values indicated below that have been validated for the installation of devices in PrismaSeT switchboards.

The parameters determining the size of flexible bars are:

- The environment in which the devices are installed:
 - Position in the enclosure
 - Dimensions of other conductors in the circuit
 - Ambient temperature around the switchboard
- The characteristics of the connected devices:
 - Device heat losses
 - The type of installation (horizontal or vertical)
 - The type of device (fixed or withdrawable)

Only the equipment manufacturer with in-depth knowledge on:

- The characteristics of the installed devices
- The configuration of the installation in the enclosure can provide the correct sizes of flexible bars for a given permissible current.

Insulated, flexible bars make for easy, fast and flexible implementation up to 630 A, but higher ratings require sizes that cancel these advantages.

For high I_{sc} values, it is advised to use rigid bars which require fewer supports.

Insulated flexible bars are better than cables, they offer:

- Better insulation temperature withstand (125 °C for bars, 105 °C for cables) and a larger exchange surface for an equivalent size, that is, a smaller size for a given current.
- Greater rigidity offering better electrodynamic characteristics for short-circuit currents.
- No intermediate parts (lugs) for a direct connection between the device and the busbars therefore less temperature rise and less risk of error.
- Fast implementation of prefabricated connections already cut to length, formed and drilled.
- Length limited to 500 mm.

Technical characteristics

- Thickness of the insulation: variable depending on the bar size, 2 mm on average
- Rated insulation level $U_i = 1000$ V
- Impulse withstand voltage $U_{imp} = 12$ kV
- Maximum withstand temperature of insulating material = 125 °C.

Note: The values indicated above have been validated for PrismaSeT P switchboards.

E

Designing connections ≤ 630 A

ComPacT circuit breakers NSX100 to NSX630

Insulated flexible copper bars ⁽¹⁾

Electrical characteristics

ComPacT NSX100 to NSX630

Insulated flexible copper bars (withstand temperature = 125 °C)

We recommend insulated flexible copper bars for ComPacT NSX connections from 100 to 630 A

Devices		Permissible current (A)					
		Ambient temperature around the switchboard					
		25 °C	30 °C	35 °C	40 °C	45 °C	50 °C
IP ≤ 31							
NSX100 TMD-TMG	Size per phase	20 x 2	20 x 2	20 x 2	20 x 2	20 x 2	20 x 2
	I _{nc} (A)	100	100	100	97.5	95	92.5
NSX125 TMD-TMG	Size per phase	20 x 2	20 x 2	20 x 2	20 x 2	20 x 2	20 x 2
	I _{nc} (A)	125	125	125	122	119	115
NSX160 TMD-TMG	Size per phase	20 x 3	20 x 3	20 x 3	20 x 3	20 x 3	20 x 3
	I _{nc} (A)	160	160	160	156	152	148
NSX250 TMD-TMG	Size per phase	20 x 3	20 x 3	20 x 3	20 x 3	20 x 3	20 x 3
	I _{nc} (A)	250	244	238	231	225	219
NSX100 STR	Size per phase	20 x 2	20 x 2	20 x 2	20 x 2	20 x 2	20 x 2
	I _{nc} (A)	100	100	100	100	100	100
NSX160 STR	Size per phase	20 x 3	20 x 3	20 x 3	20 x 3	20 x 3	20 x 3
	I _{nc} (A)	160	160	160	160	160	160
NSX250 STR	Size per phase	20 x 3	20 x 3	20 x 3	20 x 3	20 x 3	20 x 3
	I _{nc} (A)	250	245	237	230	225	220
NSX400B/F/N/H/S/L fixed	Size per phase	32 x 5	32 x 5	32 x 5	32 x 5	32 x 5	32 x 5
	I _{nc} (A)	400	400	400	390	380	370
NSX630B/F/N/H/S/L fixed	Size per phase	32 x 6	32 x 6	32 x 6	32 x 6	32 x 6	32 x 6
	I _{nc} (A)	630	615	600	585	570	550

Note: The values indicated above have been validated for PrismaSeT P switchboards.

(1) We recommend insulated flexible copper bars instead of copper cables for all NSX100 to NSX630 connection.

Designing connections ≤ 630 A

ComPacT circuit breakers NSX100 to NSX250

Copper cable

Electrical characteristics

Cables: practical guidelines

This section does not concern customer's loads connection (see IEC 61439-1, IEC 60364).

Schneider Electric provides cabling recommendations according to the rating of the circuit breaker.

The size of cables must be selected according to:

- The level of current
- The ambient temperature around the conductors
- The degree of protection for the switchboard

The tables below take into account the installation conditions for each type of device (permissible temperature at connection terminals, etc.).

- Switchboard internal temperature 60 °C
- Connections using copper cables

The withstand temperature of insulating material of cable = 105 °C.

The withstand voltage of insulating material of cable ≥ 1000 V.

ComPacT NSX100 to NSX250

Copper cable, withstand temperature = 105 °C

Devices		Permissible current (A)					
		Ambient temperature around the switchboard					
		25 °C	30 °C	35 °C	40 °C	45 °C	50 °C
IP ≤ 31							
NSX100 TMD-TMG	Size per phase	50 mm ²	50 mm ²	50 mm ²	50 mm ²	50 mm ²	50 mm ²
	I _{nc} (A)	100	100	100	97.5	95	92.5
NSX125 TMD-TMG	Size per phase	70 mm ²	70 mm ²	70 mm ²	70 mm ²	70 mm ²	70 mm ²
	I _{nc} (A)	125	125	125	122	119	115
NSX160 TMD-TMG	Size per phase	95 mm ²	95 mm ²	95 mm ²	95 mm ²	95 mm ²	95 mm ²
	I _{nc} (A)	160	160	160	156	152	148
NSX250 TMD-TMG	Size per phase	120 mm ²	120 mm ²	120 mm ²	120 mm ²	120 mm ²	120 mm ²
	I _{nc} (A)	250	244	238	231	225	219
NSX100 STR	Size per phase	50 mm ²	50 mm ²	50 mm ²	50 mm ²	50 mm ²	50 mm ²
	I _{nc} (A)	100	100	100	100	100	100
NSX160 STR	Size per phase	95 mm ²	95 mm ²	95 mm ²	95 mm ²	95 mm ²	95 mm ²
	I _{nc} (A)	160	160	160	160	160	160
NSX250 STR	Size per phase	120 mm ²	120 mm ²	120 mm ²	120 mm ²	120 mm ²	120 mm ²
	I _{nc} (A)	250	245	237	230	225	220

Note: The values indicated above have been validated for PrismaSeT P switchboards.

Note: Schneider Electric recommends connecting ComPacT NSX400/630 circuit breakers with insulated flexible bars or rigid bars > page E-142.

Designing connections ≤ 630 A

ComPacT circuit breakers NSXm up to 160

Copper cable

Electrical characteristics

ComPacT NSXm up to 160

Copper cable, withstand temperature = 105°C

Devices		Permissible current (A)					
		Ambient temperature around the switchboard					
		25 °C	30 °C	35 °C	40 °C	45 °C	50 °C
IP ≤ 31							
NSXm100	Size per phase (mm ²)	50	50	50	50	50	50
	I _{nc} (A)	100	100	96	94	90	87
NSXm125	Size per phase (mm ²)	70	70	70	70	70	70
	I _{nc} (A)	125	125	120	117	113	109
NSXm160	Size per phase (mm ²)	95	95	95	95	95	95
	I _{nc} (A)	160	155	149	144	139	133

Note: The values indicated above have been validated for PrismaSeT P switchboards.

Designing cable connections

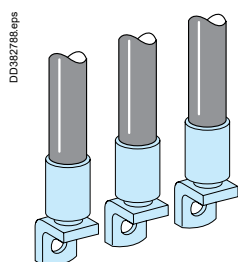
Tubular lugs

Electrical characteristics

Tubular lugs for incoming connection blocks

Maximum size of lugs for connection to the different incoming connection blocks.

	Standard Cu lugs	Narrow Cu lugs	Narrow bimetal lugs
Incoming connection block for ComPacT NSX-INS-INV250 supplied via the top or the bottom, cat. no. LVS04066 and LVS04067	150 mm ²	240 mm ²	185 mm ²
In-duct incoming connection block for ComPacT NSX630 supplied via the top or the bottom cat. no. LVS04076	240 mm ²	300 mm ²	300 mm ²



Narrow bimetal lugs

Cat. no. selection

Cat. no.	Cable size (mm ²)	Quantity
Lugs for aluminium cable ⁽¹⁾		
29504	150	3
29505	150	4
29506	185	3
29507	185	4
32504	240	3
32505	240	4
32506	300	3
32507	300	4

Customer connection of devices ≥ 630 A

Maximum size and number of cables for connection to terminal extension bars (according to busbar drawing supplied) for customer connection of ComPacT NSX and MasterPact MTZ1/MTZ2 devices.

	Cable size (mm ²)	Quantity
Size and number of cables		
Copper lugs	300	12
Bimetal lugs	240	12

⁽¹⁾ Supplied with 2 or 3 interphase barriers.

Designing customer connections

Prefabricated connections for ComPacT NS630b to NS1600

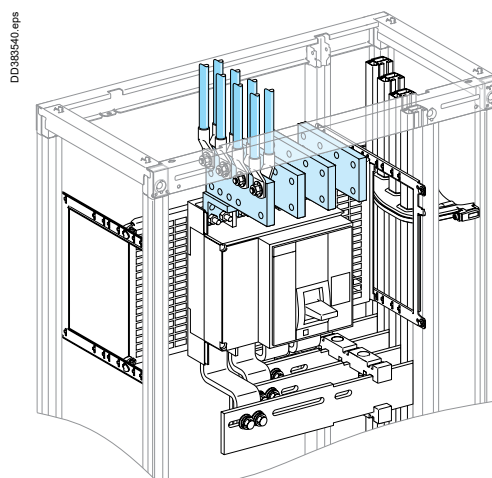
Electrical characteristics

ComPacT NS630b to NS1600

Vertical mounting

Front or rear connection

Incoming via top or bottom



Using the data below, it is possible to determine the permissible current for a prefabricated connection between a vertical ComPacT NS630b/NS1600, fixed or withdrawable, and Linergy busbars depending on the ambient temperature around the switchboard and the IP value.

Fixed

Prefabricated connections

Device and cat. no.	Permissible current (A)					
	Ambient temperature around the switchboard					
	25 °C	30 °C	35 °C	40 °C	45 °C	50 °C
	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31
NS630b 3P cat. no. 33642	630	630	630	630	630	630
4P cat. no. 33643						
NS800 3P cat. no. 33642	800	800	800	800	800	800
4P cat. no. 33643						
NS1000 3P cat. no. 33642	1000	1000	1000	1000	1000	1000
4P cat. no. 33643						
NS1250 3P ref. 33642 + 33644	1250	1250	1250	1250	1250	1200
4P ref. 33643 + 33645						
NS1600 3P ref. 33642 + 33644	1600	1600	1550	1500	1450	1400
4P ref. 33643 + 33645						

Withdrawable

Prefabricated connections

Device and cat. no.	Permissible current (A)					
	Ambient temperature around the switchboard					
	25 °C	30 °C	35 °C	40 °C	45 °C	50 °C
	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31
NS630b 3P cat. no. 33642	630	630	630	630	630	630
4P cat. no. 33643						
NS800 3P cat. no. 33642	800	800	800	800	800	800
4P cat. no. 33643						
NS1000 3P cat. no. 33642	1000	1000	1000	1000	1000	1000
4P cat. no. 33643						
NS1250 3P ref. 33642 + 33644	1250	1250	1250	1250	1250	1200
4P ref. 33643 + 33645						
NS1600 3P ref. 33642 + 33644	1560	1520	1480	1430	1380	1330
4P ref. 33643 + 33645						

Note: The values indicated above have been validated for PrismaSeT P switchboards.

Designing customer connections

Prefabricated connections for MasterPact 06-16

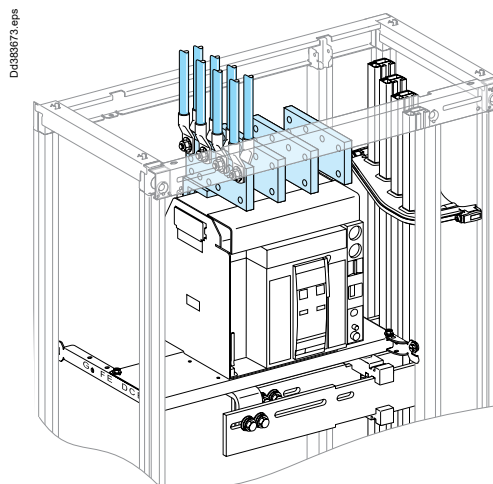
Electrical characteristics

MasterPact MTZ1 06 to 16

Vertical mounting

Front or rear connection

Incoming via top or bottom



Using the data below, it is possible to determine the permissible current for a prefabricated connection between a vertical MasterPact MTZ1 06/16, fixed or drawout, and Linergy busbars depending on the ambient temperature around the switchboard and the IP value.

Fixed

Prefabricated connections

Device and cat. no.	Permissible current (A)					
	Ambient temperature around the switchboard					
	25 °C	30 °C	35 °C	40 °C	45 °C	50 °C
	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31
MTZ1 06 3P cat. no. 33642	630	630	630	630	630	630
4P cat. no. 33643						
MTZ1 08 3P cat. no. 33642	800	800	800	800	800	800
4P cat. no. 33643						
MTZ1 10 3P cat. no. 33642	1000	1000	1000	1000	1000	1000
4P cat. no. 33643						
MTZ1 12 3P ref. 33642 + 33644	1250	1250	1250	1250	1250	1200
4P ref. 33643 + 33645						
MTZ1 16 3P ref. 33642 + 33644	1600	1600	1570	1520	1470	1420
4P ref. 33643 + 33645						

Withdrawable

Prefabricated connections

Device and cat. no.	Permissible current (A)					
	Ambient temperature around the switchboard					
	25 °C	30 °C	35 °C	40 °C	45 °C	50 °C
	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31
MTZ1 06 3P cat. no. 33642	630	630	630	630	630	630
4P cat. no. 33643						
MTZ1 08 3P cat. no. 33642	800	800	800	800	800	800
4P cat. no. 33643						
MTZ1 10 3P cat. no. 33642	1000	1000	1000	1000	1000	1000
4P cat. no. 33643						
MTZ1 12 3P ref. 33642 + 33644	1250	1250	1250	1250	1250	1200
4P ref. 33643 + 33645						
MTZ1 16 3P ref. 33642 + 33644	1560	1520	1480	1430	1380	1330
4P ref. 33643 + 33645						

Note: The values indicated above have been validated for PrismaSeT P switchboards.

Designing customer connections

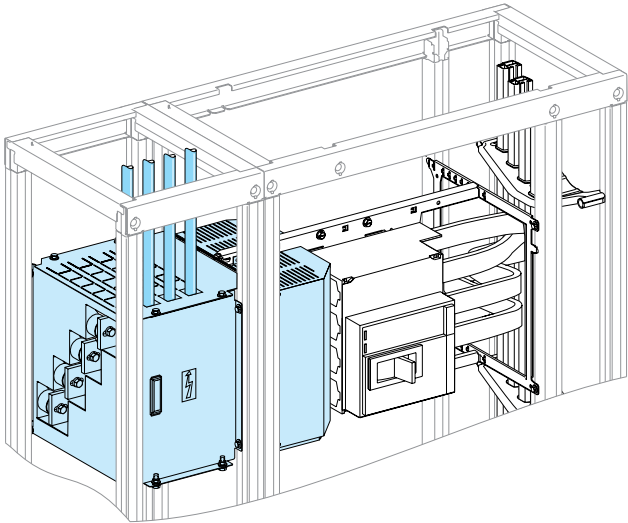
Connection transfer assembly for fixed ComPacT NS630b to NS1000

Electrical characteristics

ComPacT NS630b to NS1000, fixed

- Horizontal mounting
- Front or rear connection
- Installation on the left or right

Dd883541 eps



Using the data below, it is possible to determine the permissible current for a prefabricated connection between a horizontal, fixed ComPacT NS630b/NS1000 and Linergy busbars depending on the ambient temperature around the switchboard and the IP value.

Connection transfer assemblies

Device and cat. no.		Permissible current (A)					
		Ambient temperature around the switchboard					
		25 °C	30 °C	35 °C	40 °C	45 °C	50 °C
		IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31
NS630b	3P cat. no. LVS04483	630	630	630	630	630	630
	4P cat. no. LVS04484						
NS800	3P cat. no. LVS04483	800	800	800	800	800	800
	4P cat. no. LVS04484						
NS1000	3P cat. no. LVS04483	1000	1000	1000	1000	1000	1000
	4P cat. no. LVS04484						

Note: The values indicated above have been validated for PrismaSeT P switchboards.

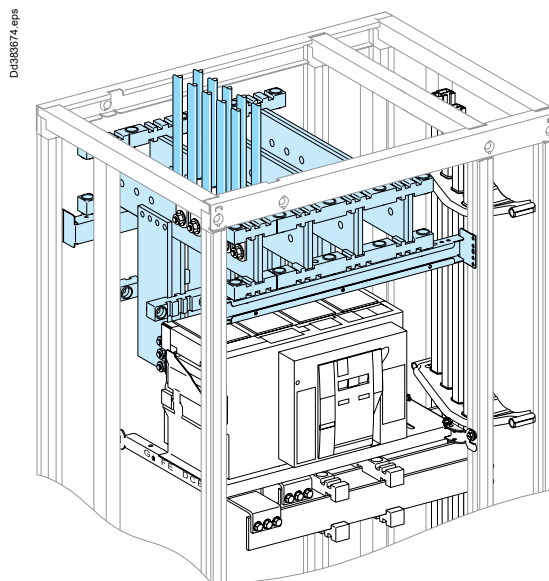
Designing customer connections

Fixed MasterPact 08-16

Electrical characteristics

MasterPact MTZ2 08 to 16
Fixed

Vertical mounting
Front or rear connection
Incoming via top or bottom
Busbar drawings supplied by
Schneider Electric



Using the data below, it is possible to determine the size of the copper bars and the maximum permissible currents when making a front or rear customer connection for a vertical, fixed MasterPact MTZ1 06/16, taking into account the ambient temperature around the switchboard and the IP value.

Connection to be made according to the busbar drawings supplied.

For connection cable cross-sections and quantities > [page E-145](#).

Customer connection

Flat bars, 5 mm thick

Device		Permissible current (A)					
		Ambient temperature around the switchboard					
		25 °C	30 °C	35 °C	40 °C	45 °C	50 °C
		IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31
MTZ2 08	Size per phase	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5
	I (A)	800	800	800	800	800	800
MTZ2 10	Size per phase	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5
	I (A)	1000	1000	1000	1000	1000	1000
MTZ2 12	Size per phase	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5
	I (A)	1250	1250	1250	1250	1250	1250
MTZ2 16	Size per phase	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5
	I (A)	1600	1600	1600	1570	1520	1470

Note: The values indicated above have been validated for PrismaSeT P switchboards.

Designing customer connections

Fixed MasterPact 08-32

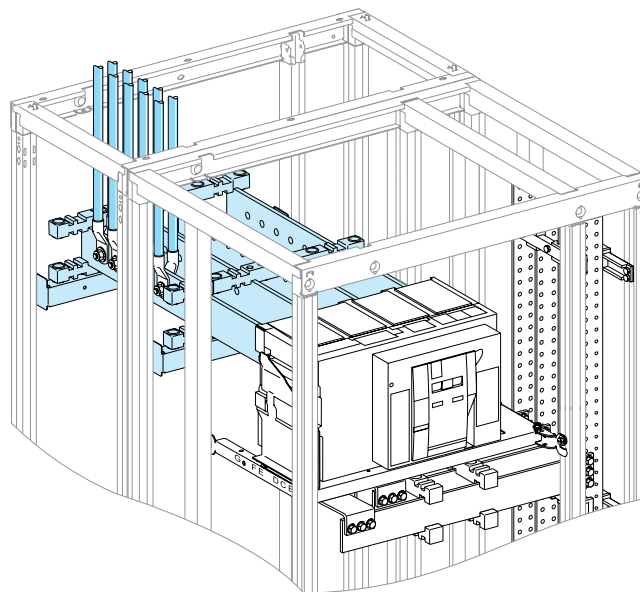
Electrical characteristics

MasterPact MTZ2 08 to 32

Fixed

Vertical mounting
Front or rear connection
Incoming via top or bottom
Busbar drawings supplied by
Schneider Electric

Dd388075 eps



Customer connection

Flat bars, 10 mm thick

Device		Permissible current (A)					
		Ambient temperature around the switchboard					
		25 °C	30 °C	35 °C	40 °C	45 °C	50 °C
		IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31
MTZ2 08	Size per phase	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10
	I (A)	800	800	800	800	800	800
MTZ2 10	Size per phase	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10
	I (A)	1000	1000	1000	1000	1000	1000
MTZ2 12	Size per phase	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10
	I (A)	1250	1250	1250	1250	1250	1250
MTZ2 16	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10
	I (A)	1600	1600	1600	1570	1520	1470
MTZ2 20	Size per phase	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10
	I (A)	2000	2000	2000	2000	2000	1950
MTZ2 25	Size per phase	2b100 x 10	2b100 x 10	2b100 x 10	2b100 x 10	2b100 x 10	2b100 x 10
	I (A)	2500	2500	2500	2500	2500	2460
MTZ2 32	Size per phase	2b120 x 10	2b120 x 10	2b120 x 10	2b120 x 10	2b120 x 10	2b120 x 10
	I (A)	3200	3170	3080	3000	2910	2820

Canalis connection

For Canalis connections, apply the appropriate derating coefficient K.

Device	MTZ2 08	MTZ2 10	MTZ2 12	MTZ2 16	MTZ2 20	MTZ2 25	MTZ2 32
Derating coefficient K	1	1	1	0,98	0,98	0,97	0,97

Note: The values indicated above have been validated for PrismaSeT P switchboards.

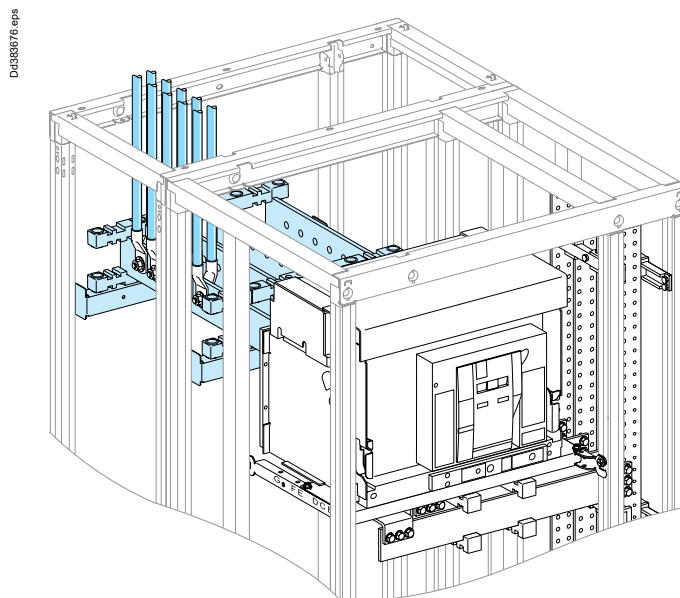
Designing customer connections

Drawout MasterPact 08-16

Electrical characteristics

MasterPact MTZ2 08 to 16
Drawout

Vertical mounting
Front or rear connection
Incoming via top or bottom
Busbar drawings supplied by
Schneider Electric



Using the data below, it is possible to determine the size of the copper bars and the maximum permissible currents when making a front or rear customer connections to busbars for a vertical, drawout MasterPact MTZ1 08/16, taking into account the ambient temperature around the switchboard and the IP value.
Connection to be made according to the busbar drawings supplied.
For connection cable cross-sections and quantities > [page E-145](#).

E

Customer connection

Flat bars, 5 mm thick

Device		Permissible current (A)					
		Ambient temperature around the switchboard					
		25 °C	30 °C	35 °C	40 °C	45 °C	50 °C
		IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31
MTZ2 08	Size per phase	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5
	I (A)	800	800	800	800	800	800
MTZ2 10	Size per phase	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5
	I (A)	1000	1000	1000	1000	1000	1000
MTZ2 12	Size per phase	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5
	I (A)	1250	1250	1250	1250	1230	1200
MTZ2 16	Size per phase	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5
	I (A)	1560	1520	1480	1430	1380	1330

Note: The values indicated above have been validated for PrismaSeT P switchboards.

Designing customer connections

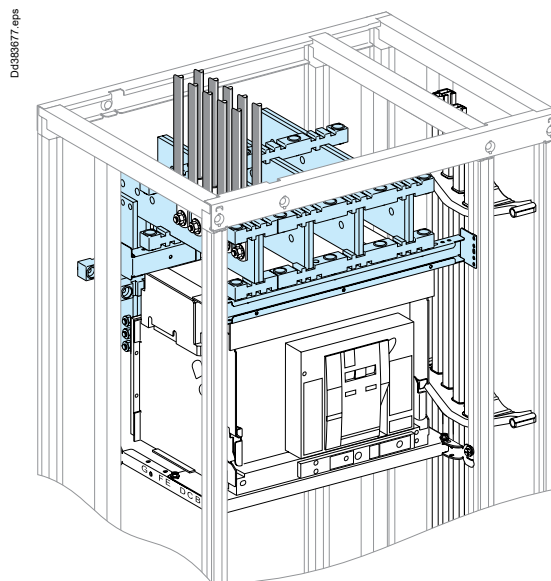
MasterPact 08-32 withdrawable

Electrical characteristics

MasterPact MTZ2 08 to 32

Drawout

Vertical mounting
Front or rear connection
Incoming via top or bottom
Busbar drawings supplied by
Schneider Electric



Customer connection

Flat bars, 10 mm thick

Device		Permissible current (A)					
		Ambient temperature around the switchboard					
		25 °C	30 °C	35 °C	40 °C	45 °C	50 °C
		IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31
MTZ2 08	Size per phase	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10
	I (A)	800	800	800	800	800	800
MTZ2 10	Size per phase	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10
	I (A)	1000	1000	1000	1000	1000	1000
MTZ2 12	Size per phase	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10
	I (A)	1250	1250	1250	1210	1180	1140
MTZ2 16	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10
	I (A)	1560	1520	1480	1430	1380	1330
MTZ2 20	Size per phase	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10
	I (A)	2000	2000	2000	1950	1900	1830
MTZ2 25	Size per phase	2b 100 x 10	2b 100 x 10	2b 100 x 10	2b 100 x 10	2b 100 x 10	2b 100 x 10
	I (A)	2470	2410	2350	2280	2210	2140
MTZ2 32	Size per phase	2b 120 x 10	2b 120 x 10	2b 120 x 10	2b 120 x 10	2b 120 x 10	2b 120 x 10
	I (A)	2960	2890	2820	2730	2630	2530

Canalis connection

For Canalis connections, apply the appropriate derating coefficient K.

Device	MTZ2 08	MTZ2 10	MTZ2 12	MTZ2 16	MTZ2 20	MTZ2 25	MTZ2 32
Derating coefficient K	1	1	1	0,98	0,98	0,97	0,97

Note: The values indicated above have been validated for PrismaSeT P switchboards.

Designing customer connections

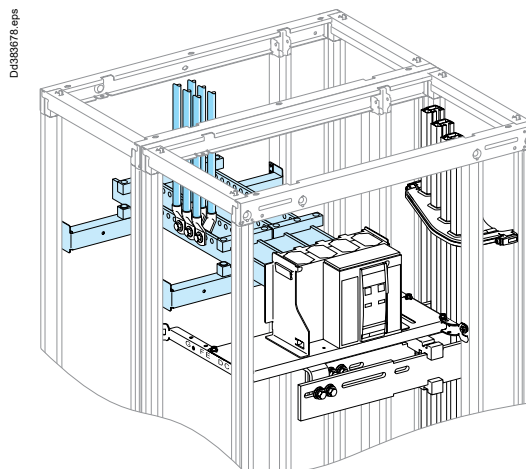
Fixed MasterPact 06-16

Electrical characteristics

MasterPact MTZ1 06 to 16
Fixed

Rear connection

Incoming via top or bottom

Busbar drawings supplied by
Schneider Electric

Using the data below, it is possible to determine the size of the copper bars and the maximum permissible currents when making a front or rear customer connections to busbars for a vertical, fixed MasterPact MTZ1 06/16, taking into account the ambient temperature around the switchboard and the IP value.

Connection to be made according to the busbar drawings supplied.

For connection cable cross-sections and quantities > page E-145.

Customer connection

Flat bars, 5 mm thick

Device		Permissible current (A)					
		Ambient temperature around the switchboard					
		25 °C	30 °C	35 °C	40 °C	45 °C	50 °C
		IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31
MTZ1 06	Size per phase	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5
	I (A)	630	630	630	630	630	630
MTZ1 08	Size per phase	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5
	I (A)	800	800	800	800	800	800
MTZ1 10	Size per phase	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5
	I (A)	1000	1000	1000	1000	1000	1000
MTZ1 12	Size per phase	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5
	I (A)	1250	1250	1250	1250	1250	1250
MTZ1 16	Size per phase	2b 100 x 5	2b 100 x 5	2b 100 x 5	2b 100 x 5	2b 100 x 5	2b 100 x 5
	I (A)	1600	1600	1570	1520	1470	1420

Customer connection

Flat bars, 10 mm thick

Device		Permissible current (A)					
		Ambient temperature around the switchboard					
		25 °C	30 °C	35 °C	40 °C	45 °C	50 °C
		IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31
MTZ1 06	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10
	I (A)	630	630	630	630	630	630
MTZ1 08	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10
	I (A)	800	800	800	800	800	800
MTZ1 10	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10
	I (A)	1000	1000	1000	1000	1000	1000
MTZ1 12	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10
	I (A)	1250	1250	1250	1250	1250	1230
MTZ1 16	Size per phase	1b100 x 10	1b100 x 10	1b100 x 10	1b100 x 10	1b100 x 10	1b100 x 10
	I (A)	1600	1600	1570	1520	1470	1420

Canalis connection

For Canalis connections, apply the appropriate derating coefficient K.

Device	MTZ1 06b	MTZ1 10	MTZ1 16
Derating coefficient K	1	1	0,98

Note: The values indicated above have been validated for PrismaSeT P switchboards.

Designing customer connections

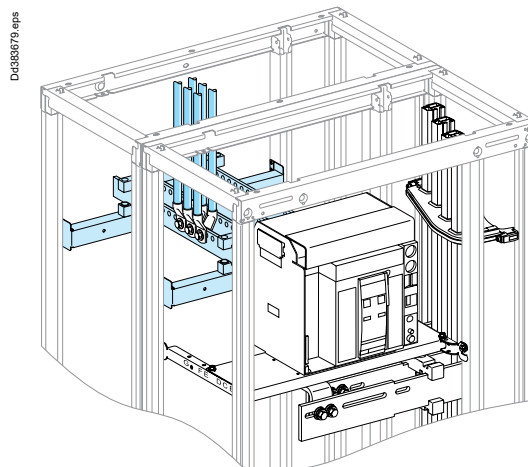
Drawout MasterPact 06-16

Electrical characteristics

MasterPact MTZ1 06 to 16

Rear connection

Incoming via top or bottom

Busbar drawings supplied by
Schneider Electric

Using the data below, it is possible to determine the size of the copper bars and the maximum permissible currents when making a customer connections to busbars for a vertical, drawout MasterPact MTZ1 06/16, taking into account the ambient temperature around the switchboard and the IP value.

Connection to be made according to the busbar drawings supplied.

For connection cable cross-sections and quantities > [page E-145](#).

Customer connection

Flat bars, 5 mm thick

Device		Permissible current (A)					
		Ambient temperature around the switchboard					
		25 °C	30 °C	35 °C	40 °C	45 °C	50 °C
		IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31
MTZ1 06	Size per phase	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5
	I (A)	630	630	630	630	630	630
MTZ1 08	Size per phase	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5
	I (A)	800	800	800	800	800	800
MTZ1 10	Size per phase	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5
	I (A)	1000	1000	1000	1000	1000	1000
MTZ1 12	Size per phase	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5
	I (A)	1250	1250	1250	1250	1230	1180
MTZ1 16	Size per phase	2b 100 x 5	2b 100 x 5	2b 100 x 5	2b 100 x 5	2b 100 x 5	2b 100 x 5
	I (A)	1560	1520	1480	1430	1380	1330

Customer connection

Flat bars, 10 mm thick

Device		Permissible current (A)					
		Ambient temperature around the switchboard					
		25 °C	30 °C	35 °C	40 °C	45 °C	50 °C
		IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31
MTZ1 06	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10
	I (A)	630	630	630	630	630	630
MTZ1 08	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10
	I (A)	800	800	800	800	800	800
MTZ1 10	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10
	I (A)	1000	1000	1000	1000	1000	1000
MTZ1 12	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10
	I (A)	1250	1250	1250	1250	1210	1160
MTZ1 16	Size per phase	1b100 x 10	1b100 x 10	1b100 x 10	1b100 x 10	1b100 x 10	1b100 x 10
	I (A)	1560	1520	1480	1430	1380	1330

Canalis connection

For Canalis connections, apply the appropriate derating coefficient K.

Device	MTZ1 06	MTZ1 08	MTZ1 10	MTZ1 12	MTZ1 16
Derating coefficient K	1	1	1	1	0,98

Note: The values indicated above have been validated for PrismaSeT P switchboards.

Designing customer connections

Fixed ComPacT NS630b to NS1600

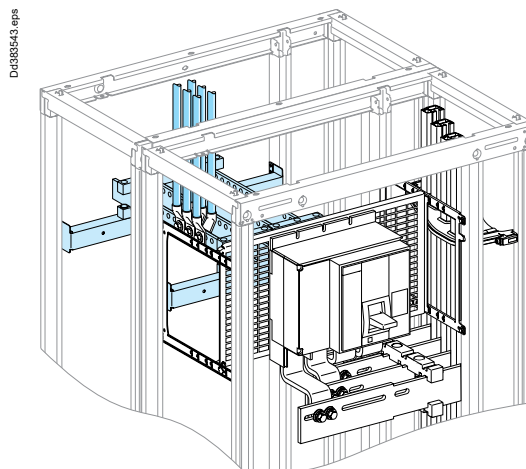
Electrical characteristics

ComPacT NS630b to NS1600

Fixed

Rear connection

Incoming via top or bottom

Busbar drawings supplied by
Schneider Electric

Using the data below, it is possible to determine the size of the copper bars and the maximum permissible currents when making a rear customer connection for a vertical, fixed ComPacT NS630b/NS1600, taking into account the ambient temperature around the switchboard and the IP value.

Connection to be made according to the busbar drawings supplied.

For connection cable cross-sections and quantities > page E-145.

Customer connection

Flat bars, 5 mm thick

Device		Permissible current (A)					
		Ambient temperature around the switchboard					
		25 °C	30 °C	35 °C	40 °C	45 °C	50 °C
		IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31
NS630b	Size per phase	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5
	I (A)	630	630	630	630	630	630
NS800	Size per phase	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5
	I (A)	800	800	800	800	800	800
NS1000	Size per phase	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5
	I (A)	1000	1000	1000	1000	1000	1000
NS1250	Size per phase	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5
	I (A)	1250	1250	1250	1250	1250	1200
NS1600	Size per phase	2b 100 x 5	2b 100 x 5	2b 100 x 5	2b 100 x 5	2b 100 x 5	2b 100 x 5
	I (A)	1600	1600	1550	1500	1450	1400

Customer connection

Flat bars, 10 mm thick

Device		Permissible current (A)					
		Ambient temperature around the switchboard					
		25 °C	30 °C	35 °C	40 °C	45 °C	50 °C
		IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31
NS630b	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10
	I (A)	630	630	630	630	630	630
NS800	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10
	I (A)	800	800	800	800	800	800
NS1000	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10
	I (A)	1000	1000	1000	1000	1000	1000
NS1250	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10
	I (A)	1250	1250	1250	1230	1180	
NS1600	Size per phase	1b100 x 10	1b100 x 10	1b100 x 10	1b100 x 10	1b100 x 10	1b100 x 10
	I (A)	1600	1600	1550	1500	1450	1400

Canalis connection

For Canalis connections, apply the appropriate derating coefficient K.

Device	NS630b	NS800	NS1000	NS1250	NS1600
Derating coefficient K	1	1	1	1	0,98

Note: The values indicated above have been validated for PrismaSeT P switchboards.

Designing customer connections

Withdrawable ComPacT NS630b to NS1600

Electrical characteristics

ComPacT NS630b to NS1600

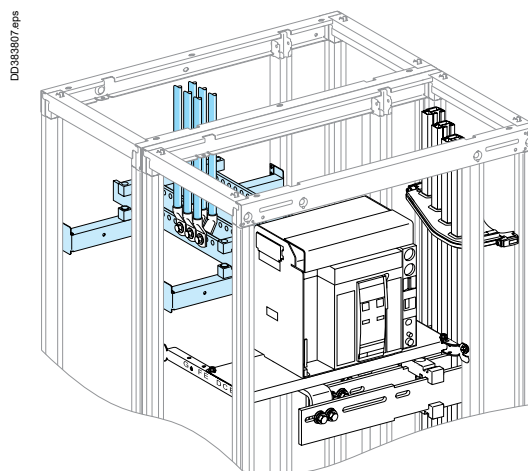
Withdrawable

Rear connection

Incoming via top or bottom

Busbar drawings supplied by

Schneider Electric



Using the data below, it is possible to determine the size of the copper bars and the maximum permissible currents when making a rear customer connection for a vertical, withdrawable ComPacT NS630b/NS1600, taking into account the ambient temperature around the switchboard and the IP value.

Connection to be made according to the busbar drawings supplied.

For connection cable cross-sections and quantities > [page E-145](#).

Customer connection

Flat bars, 5 mm thick

Device		Permissible current (A)					
		Ambient temperature around the switchboard					
		25 °C	30 °C	35 °C	40 °C	45 °C	50 °C
		IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31
NS630b	Size per phase	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5
	I (A)	630	630	630	630	630	630
NS800	Size per phase	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5
	I (A)	800	800	800	800	800	800
NS1000	Size per phase	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5
	I (A)	1000	1000	1000	1000	1000	1000
NS1250	Size per phase	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5
	I (A)	1250	1250	1250	1250	1250	1180
NS1600	Size per phase	2b 100 x 5	2b 100 x 5	2b 100 x 5	2b 100 x 5	2b 100 x 5	2b 100 x 5
	I (A)	1560	1520	1480	1430	1380	1330

Customer connection

Flat bars, 10 mm thick

Device		Permissible current (A)					
		Ambient temperature around the switchboard					
		25 °C	30 °C	35 °C	40 °C	45 °C	50 °C
		IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31
NS630b	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10
	I (A)	630	630	630	630	630	630
NS800	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10
	I (A)	800	800	800	800	800	800
NS1000	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10
	I (A)	1000	1000	1000	1000	1000	1000
NS1250	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10
	I (A)	1250	1250	1250	1250	1210	1160
NS1600	Size per phase	1b 100 x 10	1b 100 x 10	1b 100 x 10	1b 100 x 10	1b 100 x 10	1b 100 x 10
	I (A)	1560	1520	1480	1430	1380	1330

Canalis connection

For Canalis connections, apply the appropriate derating coefficient K.

Device	NS630b	NS800	NS1000	NS1250	NS1600
Derating coefficient K	1	1	1	1	0,98

Note: The values indicated above have been validated for PrismaSeT P switchboards.

Designing customer connections

Fixed ComPacT NS630b to NS1000 Horizontal mounting

Electrical characteristics

ComPacT NS630b to NS1000

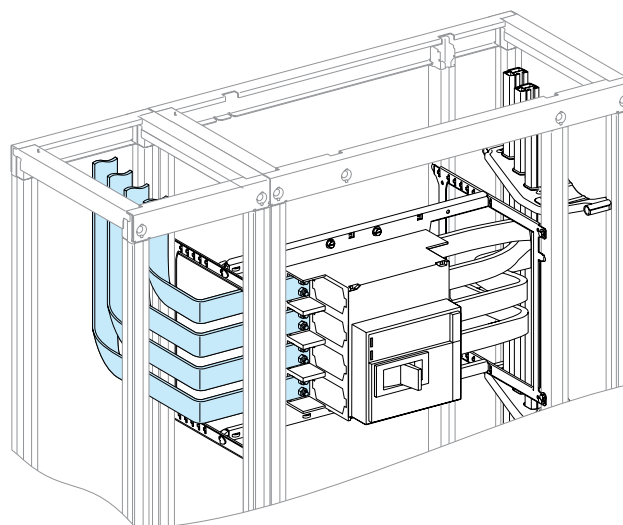
Horizontal mounting

Front connection

Incoming via top or bottom

Installation on the left or right

Dd383445.eps



Using the data below, it is possible to determine the size of the copper bars and the maximum permissible currents when making the connections to busbars for a horizontal, fixed ComPacT NS630b/NS1600, taking into account the ambient temperature around the switchboard and the IP value.
Connection to be made according to the busbar drawings supplied.

Customer connection

Flat bars, 5 mm thick

Device		Permissible current (A)					
		Ambient temperature around the switchboard					
		25 °C	30 °C	35 °C	40 °C	45 °C	50 °C
		IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31
NS630b	Size per phase	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5
	I (A)	630	630	630	630	630	630
NS800	Size per phase	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5
	I (A)	800	800	800	800	800	800
NS1000	Size per phase	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5
	I (A)	1000	1000	1000	1000	1000	1000

Flat bars, 10 mm thick

Device		Permissible current (A)					
		Ambient temperature around the switchboard					
		25 °C	30 °C	35 °C	40 °C	45 °C	50 °C
NS630b	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10
	I (A)	630	630	630	630	630	630
NS800	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10
	I (A)	800	800	800	800	800	800
NS1000	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10
	I (A)	1000	1000	1000	1000	1000	1000

Note: The values indicated above have been validated for PrismaSeT P switchboards.

Designing busbars

FuPact GS, ISFT Vertical Linergy LGYE, LGY busbars

Electrical characteristics

Permissible current and selection of Linergy LGYE busbars

The goal is to optimise busbar size according to the installation and operating criteria.

Vertical Linergy LGYE busbars

FuPact GS/ISFT

Type of bars	Permissible current (A)					
	Ambient temperature around the switchboard					
	25 °C	30 °C	35 °C	40 °C	45 °C	50 °C
Size per phase	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31
Linerger LGYE 630	650	630	590	550	530	460
Linerger LGYE 800	840	800	760	720	680	640
Linerger LGYE 1000	1040	990	950	900	850	800
Linerger LGYE 1250	1290	1230	1170	1100	1050	980
Linerger LGYE 1600	1580	1480	1390	1320	1250	1180
Linerger LGYE 2000	1900	1820	1720	1620	1520	1420
Linerger LGYE 2500	2290	2190	2070	1960	1880	1780
Linerger LGYE 3200	3060	2920	2780	2640	2500	2360
Linerger LGYE 4000	3320	3240	3140	2970	2800	2650

Lateral Linergy LGY busbars

FuPact GS/ISFT

Type of bars	Permissible current (A)					
	Ambient temperature around the switchboard					
	25 °C	30 °C	35 °C	40 °C	45 °C	50 °C
Size per phase	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31
Linerger LGY 630	680	630	590	550	530	460
Linerger LGY 800	840	800	760	720	680	640
Linerger LGY 1000	1040	990	950	900	850	800
Linerger LGY 1250	1290	1230	1170	1100	1050	980
Linerger LGY 1600	1580	1480	1390	1320	1250	1180
Linerger LGY 2000 (2 x 1000)	1900	1820	1720	1620	1520	1420
Linerger LGY 2500 (2 x 1250)	2380	2260	2120	2020	1900	1780
Linerger LGY 3200 (2 x 1600)	3060	2920	2780	2640	2500	2360

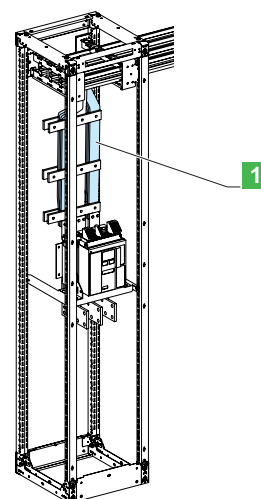
Designing connections between a device and busbars

Dedicated cubicle - W = 400 mm

Electrical characteristics

Fixed MasterPacT / MTZ1 06 to 16
Fixed ComPacT NS630b to NS1600

Dedicated cubicle
Lineray LGYE busbar
Connections drawings supplied by Schneider Electric



1 Connection

Connection

Flat bars, 10 mm thick

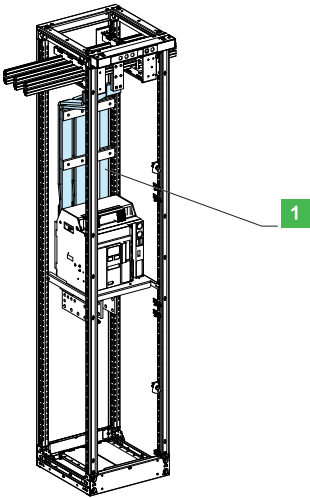
Device		Permissible current (A)					
		Ambient temperature (°C)					
		25 °C	30 °C	35 °C	40 °C	45 °C	50 °C
Fixed NS, MTZ1/NT		IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31
NS 630, NT 630 & MTZ1 630	Size per phase	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10
	Fixed I (A)	630	630	630	630	630	630
NS 800, NT 800 & MTZ1 800	Size per phase	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10
	Fixed I (A)	800	800	800	800	800	800
NS 1000, NT 1000 & MTZ1 1000	Size per phase	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10
	Fixed I (A)	1000	1000	980	960	940	920
NS 1250, NT 1250 & MTZ1 1250	Size per phase	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10
	Fixed I (A)	1240	1200	1160	1125	1085	1040
NS 1600, NT 1600 & MTZ1 1600	Size per phase	2b 50x10	2b 50x10	2b 50x10	2b 50x10	2b 50x10	2b 50x10
	Fixed I (A)	1525	1490	1450	1415	1375	1330

Designing connections between a device and busbars
Dedicated cubicle - W = 400 mm

Electrical characteristics

Drawout MasterPacT / MTZ1 06 to 16
Drawout ComPacT NS630b to NS1600

Dedicated cubicle
Lineray LGYE busbar
Connections drawings supplied by Schneider Electric



1 Connection

Connection

Flat bars, 10 mm thick

Device		Permissible current (A)					
		Ambient temperature (°C)					
Drawout NS, MTZ1/NT		25 °C	30 °C	35 °C	40 °C	45 °C	50 °C
		IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31
NS 630, NT 630 & MTZ1 630	Size per phase	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10
	Drawout A (I)	630	630	630	630	630	630
NS 800, NT 800 & MTZ1 800	Size per phase	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10
	Drawout A (I)	800	800	800	800	800	800
NS 1000, NT 1000 & MTZ1 1000	Size per phase	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10
	Drawout A (I)	1000	1000	980	960	940	920
NS 1250, NT 1250 & MTZ1 1250	Size per phase	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10
	Drawout A (I)	1230	1190	1155	1115	1075	1030
NS 1600, NT 1600 & MTZ1 1600	Size per phase	2b 50x10	2b 50x10	2b 50x10	2b 50x10	2b 50x10	2b 50x10
	Drawout A (I)	1515	1480	1440	1400	1355	1315



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