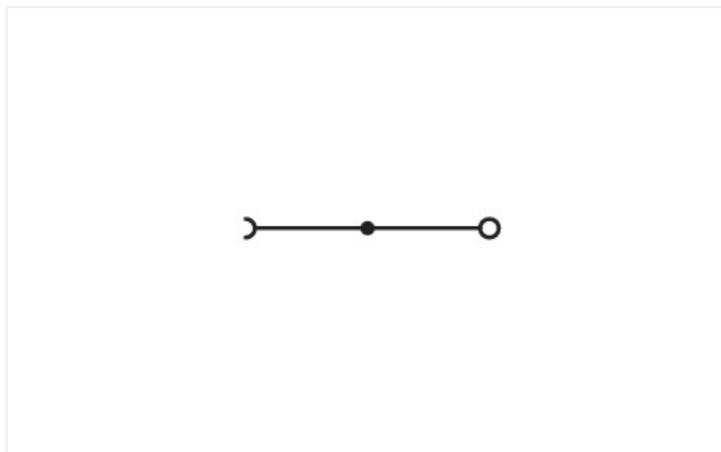# Data Sheet | Item Number: 781-623

1-conductor power distribution disconnect terminal block; 4 mm²; CAGE CLAMP®; 4,00 mm²; gray

https://www.wago.com/781-623

Color: ■ gray

Similar to illustration

Similar to illustration

Power distribution disconnect terminal block, 781 Series, operating tool

Our power distribution disconnect terminal block (item number 781-623) ensures effortless electrical installations. Strip lengths must be between 9 and 10 mm when connecting conductors to this power distribution disconnect terminal block. Featuring conductor terminals along with CAGE CLAMP®, this product outperforms the competition. Our celebrated universal connection known as CAGE CLAMP® is industry-leading when it comes to connection technology and electrical interconnections. Depending on the type of conductor, this power distribution disconnect terminal block is designed for conductor cross sections ranging from 0.08 mm² to 4 mm².

Electrical data

Ratings per IEC/EN

Nominal voltage (III/3)	400 V
Rated impulse withstand voltage (III / 3)	6 kV
Rated current	32 A
Legend (ratings)	(III / 3) ≙ Overvoltage category III / Pollution degree 3

Power Loss

Power loss, per pole (potential)	1.024 W
Rated current I_N for power loss specification	32 A
Resistance value for specified, current-dependent power loss	0.001 Ω

General information

Wiring direction	Front-entry wiring

Connection Data

Clamping units	1
Total number of potentials	1
Number of levels	1

Connection 1

Connection technology	CAGE CLAMP®
Actuation type	Operating tool
Connectable conductor materials	Copper Aluminum

Connection 1

Connectable conductor materials (note)	**Terminating Aluminum Conductors** WAGO Spring-Clamp Terminal Blocks are suitable for solid aluminum conductors up to 4 mm²/12 AWG if WAGO "Alu-Plus" Contact Paste 249-130 is used for termination.
	"Alu-Plus" Contact Paste Advantages:
	• Automatically destroys the oxide film during clamping. • Prevents fresh oxidation at the clamping point. • Prevents electrolytic corrosion between aluminum and copper conductors (in the same terminal block). • Provides long-term protection against corrosion.
	Using terminal blocks with CAGE CLAMP® Spring Pressure Connection Technology, **aluminum conductors must first be cleaned with a blade** and then immediately inserted into the clamping units filled with "Alu-Plus" contact paste.
	It is also possible to apply WAGO "Alu-Plus" **additionally** on the whole surface of the aluminum conductor before termination.
	Please note that the nominal currents must be adapted to the reduced conductivity of the aluminum conductors:: 2.5 mm² = 16 A 4 mm² = 22 A
Solid conductor	0.08 … 4 mm² / 28 … 12 AWG
Fine-stranded conductor	0.08 … 4 mm² / 28 … 12 AWG
Strip length	9 … 10 mm / 0.35 … 0.39 inches
Wiring direction	Front-entry wiring

Physical data

Width	6 mm / 0.236 inches
Height	77 mm / 3.031 inches
Depth from upper-edge of DIN-rail	43.5 mm / 1.713 inches

Mechanical data

Design	angled
Mounting type	DIN-35 rail
Marking level	Center marking

Material data

Note (material data)	Information on material specifications can be found here
Color	gray
Material group	I
Insulation material (main housing)	Polyamide (PA66)
Flammability class per UL94	V0
Fire load	0.198 MJ
Weight	16.4 g

Environmental requirements

Processing temperature	-35 ... +85 ℃
Continuous operating temperature	-60 ... +105 ℃

Commercial data

Product Group	17 (TOP JOB Installation Terminal Blocks)
PU (SPU)	50 pcs
Packaging type	Box
Country of origin	PL
GTIN	4044918813341
Customs tariff number	85369010000

Product Classification

UNSPSC	39121410
eCl@ss 10.0	27-14-11-38
eCl@ss 9.0	27-14-11-38
ETIM 9.0	EC001257
ETIM 10.0	EC001257
ECCN	NO US CLASSIFICATION

Environmental Product Compliance

CAS-No.	7439-92-1
REACH Candidate List Substance	Lead
RoHS Compliance Status	Compliant,No Exemption
SCIP notification number (Austria)	cd49147e-0bf5-4fea-a13b-6fb0b1db96d2
SCIP notification number (Belgium)	fecc5140-602e-465a-ac77-5478d1383642
SCIP notification number (Bulgaria)	4be0a123-5b1a-484b-91a8-aabf068331fe
SCIP notification number (Czech Republic)	691ebc81-3c09-468e-ba3d-cf92fbb51f83
SCIP notification number (Denmark)	134f7b23-fda0-4973-9dcf-c7861a827c65
SCIP notification number (Finland)	c74fbe3f-310c-427b-96fe-defbda31be29
SCIP notification number (France)	2629c5e3-1ab9-4e19-ae45-a4021a6b0a3c
SCIP notification number (Germany)	1985c4fd-ee3c-473c-88ff-3769efb2b7d8
SCIP notification number (Hungary)	bc525cba-6c65-44ca-84c3-6eb02ae9918f
SCIP notification number (Italy)	b950c201-db98-4d89-b1db-1ca777416af6
SCIP notification number (Netherlands)	b1dc12a8-c13a-4d7b-9f1c-8afa1080473c
SCIP notification number (Poland)	828e12c2-41e6-45fb-b0ee-21edd9a9b5c9
SCIP notification number (Romania)	c25cdffd-4f67-4cc0-968e-d20ae31392fe
SCIP notification number (Sweden)	6e0185c6-0fa9-495c-8cde-838e003b5c36

Approvals / Certificates

General approvals

Approval	Standard	Certificate Name
CSA DEKRA Certification B.V.	C22.2 No. 158	1536075
KEMA/KEUR DEKRA Certification B.V.	EN 60947	71-107288
UR Underwriters Laboratories Inc.	UL 1059	E45172

Declarations of conformity and manufacturer's declarations

Approval	Standard	Certificate Name
EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-
UK-Declaration of Conformity WAGO GmbH & Co. KG	-	-

Approvals for marine applications

Approval	Standard	Certificate Name
ABS American Bureau of Shipping	-	24-0152298-PDA
DNV GL Det Norske Veritas, Germanischer Lloyd	-	TAE00001V2
PRS Polski Rejestr Statków	-	TE/1094/880590/23

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 781-623	↓

Documentation

Bid Text

781-623	19.02.2019	xml 3.16 KB	↓
781-623	02.03.2017	doc 24.00 KB	↓

CAD/CAE-Data

CAD data

2D/3D Models 781-623	↓

CAE data

EPLAN Data Portal 781-623	↓
WSCAD Universe 781-623	↓
ZUKEN Portal 781-623	↓

1 Compatible Products

1.1 Required Accessories

1.1.1 End plate

1.1.1.1 End plate

Item No.: 780-317
End and intermediate plate; 1.5 mm thick;
orange

1.2 Optional Accessories

1.2.1 DIN-rail

1.2.1.1 Mounting accessories

Item No.: 210-196
Aluminum carrier rail; 35 x 8.2 mm; 1.6 mm
thick; 2 m long; unslotted; similar to EN
60715; silver-colored

Item No.: 210-198
Copper carrier rail; 35 x 15 mm; 2.3 mm
thick; 2 m long; unslotted; according to
EN 60715; copper-colored

Item No.: 210-508
Steel carrier rail; 35 x 15 mm; 1.5 mm
thick; 2 m long; slotted; galvanized; simi-
lar to EN 60715; silver-colored

Item No.: 210-197
Steel carrier rail; 35 x 15 mm; 1.5 mm
thick; 2 m long; slotted; similar to EN
60715; silver-colored

Item No.: 210-506
Steel carrier rail; 35 x 15 mm; 1.5 mm
thick; 2 m long; unslotted; galvanized; si-
milar to EN 60715; silver-colored

Item No.: 210-114
Steel carrier rail; 35 x 15 mm; 1.5 mm
thick; 2 m long; unslotted; similar to EN
60715; silver-colored

Item No.: 210-118
Steel carrier rail; 35 x 15 mm; 2.3 mm
thick; 2 m long; unslotted; according to
EN 60715; silver-colored

Item No.: 210-115
Steel carrier rail; 35 x 7.5 mm; 1 mm thick;
2 m long; slotted; according to EN 60715;
"Hole width 18 mm; silver-colored

Item No.: 210-112
Steel carrier rail; 35 x 7.5 mm; 1 mm thick;
2 m long; slotted; according to EN 60715;
"Hole width 25 mm; silver-colored

Item No.: 210-504
Steel carrier rail; 35 x 7.5 mm; 1 mm thick;
2 m long; slotted; galvanized; according
to EN 60715; silver-colored

Item No.: 210-113
Steel carrier rail; 35 x 7.5 mm; 1 mm thick;
2 m long; unslotted; according to EN
60715; silver-colored

Item No.: 210-505
Steel carrier rail; 35 x 7.5 mm; 1 mm thick;
2 m long; unslotted; galvanized; according
to EN 60715; silver-colored

1.2.2 Ferrule

1.2.2.1 Ferrule

Item No.: 216-131
Ferrule; Sleeve for 0.25 mm² / AWG 24;
uninsulated; electro-tin plated; silver-co-
lored

Item No.: 216-241
Ferrule; Sleeve for 0.5 mm² / 20 AWG; in-
sulated; electro-tin plated; electrolytic
copper; gastight crimped; acc. to DIN
46228, Part 4/09.90; white

Item No.: 216-141
Ferrule; Sleeve for 0.5 mm² / 20 AWG; un-
insulated; electro-tin plated; electrolytic
copper; gastight crimped; acc. to DIN
46228, Part 1/08.92

Item No.: 216-242
Ferrule; Sleeve for 0.75 mm² / 18 AWG; in-
sulated; electro-tin plated; electrolytic
copper; gastight crimped; acc. to DIN
46228, Part 4/09.90; gray

Item No.: 216-262
Ferrule; Sleeve for 0.75 mm² / 18 AWG; in-
sulated; electro-tin plated; electrolytic
copper; gastight crimped; acc. to DIN
46228, Part 4/09.90; gray

Item No.: 216-142
Ferrule; Sleeve for 0.75 mm² / 18 AWG;
uninsulated; electro-tin plated; electroly-
tic copper; gastight crimped; acc. to DIN
46228, Part 1/08.92

Item No.: 216-243
Ferrule; Sleeve for 1 mm² / AWG 18; insu-
lated; electro-tin plated; electrolytic cop-
per; gastight crimped; acc. to DIN 46228,
Part 4/09.90; red

Item No.: 216-263
Ferrule; Sleeve for 1 mm² / AWG 18; insu-
lated; electro-tin plated; electrolytic cop-
per; gastight crimped; acc. to DIN 46228,
Part 4/09.90; red

Item No.: 216-143
Ferrule; Sleeve for 1 mm² / AWG 18; unin-
sulated; electro-tin plated; electrolytic
copper; gastight crimped; acc. to DIN
46228, Part 1/08.92

Item No.: 216-244
Ferrule; Sleeve for 1.5 mm² / AWG 16; in-
sulated; electro-tin plated; electrolytic
copper; gastight crimped; acc. to DIN
46228, Part 4/09.90; black

Item No.: 216-264
Ferrule; Sleeve for 1.5 mm² / AWG 16; in-
sulated; electro-tin plated; electrolytic
copper; gastight crimped; acc. to DIN
46228, Part 4/09.90; black

Item No.: 216-284
Ferrule; Sleeve for 1.5 mm² / AWG 16; in-
sulated; electro-tin plated; electrolytic
copper; gastight crimped; acc. to DIN
46228, Part 4/09.90; black

1.2.2.1 Ferrule

Item No.: 216-144
Ferrule; Sleeve for 1.5 mm² / AWG 16; un-insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92; silver-colored

Item No.: 216-246
Ferrule; Sleeve for 2.5 mm² / AWG 14; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; blue

Item No.: 216-266
Ferrule; Sleeve for 2.5 mm² / AWG 14; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; blue

Item No.: 216-286
Ferrule; Sleeve for 2.5 mm² / AWG 14; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; blue

Item No.: 216-106
Ferrule; Sleeve for 2.5 mm² / AWG 14; un-insulated; electro-tin plated; silver-colored

Item No.: 216-267
Ferrule; Sleeve for 4 mm² / AWG 12; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray

Item No.: 216-287
Ferrule; Sleeve for 4 mm² / AWG 12; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray

Item No.: 216-207
Ferrule; Sleeve for 4 mm² / AWG 12; insulated; electro-tin plated; gray

Item No.: 216-107
Ferrule; Sleeve for 4 mm² / AWG 12; un-insulated; electro-tin plated

1.2.3 Installation

1.2.3.1 Cover

Item No.: 709-154
Cover; Type 2; suitable for cover carrier, type 2; 1 m long; transparent

1.2.3.2 Cover carrier

Item No.: 709-168
Cover carrier; Type 2; incl. fixing/retaining screws and knurled nut; suitable for 283 to 285 Series rail-mounted terminal blocks; suitable for 279 to 281 Series double- and triple-deck terminal blocks; suitable for 780 to 785, 775, 776 and 777 Series TOP-JOB® rail-mounted terminal blocks; suitable for 280 Series sensor and actuator terminal blocks; suitable for 282 Series disconnect/test terminal blocks for transformer circuits; gray

1.2.3.3 Mounting accessories

Item No.: 780-321
Busbar carrier; not suitable for use as end stop; for DIN 35 rail; 1.5 mm thick; blue

Item No.: 777-305
Busbar carrier; with end stop function and detachable separator plate; for DIN 35 rail; 8 mm thick; blue

Item No.: 209-106
Mounting carrier; for isolated mounting on DIN 35 rails; gray

Item No.: 249-116
Screwless end stop; 6 mm wide; for DIN-rail 35 x 15 and 35 x 7.5; gray

1.2.4 Insulation stop

1.2.4.1 Insulation stop

Item No.: 281-470
Insulation stop; 0.08 - 0.2 mm² "s" (0.14 mm² "f-st"); 5 pieces/strip; white

Item No.: 281-471
Insulation stop; 0.25 - 0.5 mm²; 5 pieces/strip; light gray

Item No.: 281-472
Insulation stop; 0.75 - 1.5 mm²; 5 pieces/strip; dark gray

1.2.5 Jumper

1.2.5.1 Jumper

Item No.: 281-402
Jumper; insulated; gray

Item No.: 281-409
Jumper; insulated; gray

Item No.: 281-422
Jumper; insulated; yellow-green

Item No.: 781-452
Staggered jumper; from 1 to 2; insulated; gray

Item No.: 781-453
Staggered jumper; from 1 to 3; insulated; gray

Item No.: 781-454
Staggered jumper; from 1 to 4; insulated; gray

Item No.: 781-455
Staggered jumper; from 1 to 5; insulated; gray

Item No.: 781-456
Staggered jumper; from 1 to 6; insulated; gray

1.2.6 Lock-out

1.2.6.1 Locking system

Item No.: 777-300
Lock-out; prevents reclosing of slide link; Snap-in type; for 780/781 Series; orange

1.2.7 Marking

1.2.7.1 Group marker carrier

Item No.: 249-105
Group marker carrier; gray

1.2.7.2 Marker

Item No.: 793-5501/000-006
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; blue

Item No.: 793-5501/000-007
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; gray

Item No.: 793-5501/000-023
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; green

Item No.: 793-5501/000-017
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; light green

Item No.: 793-5501/000-012
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; orange

Item No.: 793-5501/000-005
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; red

Item No.: 793-5501/000-024
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; violet

Item No.: 793-5501
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; white

Item No.: 793-5501/000-002
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; yellow

Item No.: 793-501/000-006
WMB marking card; as card; not stretchable; plain; snap-on type; blue

Item No.: 793-501/000-007
WMB marking card; as card; not stretchable; plain; snap-on type; gray

Item No.: 793-501/000-023
WMB marking card; as card; not stretchable; plain; snap-on type; green

WAGO

1.2.7.2 Marker

Item No.: 793-501/000-017
WMB marking card; as card; not stretchable; plain; snap-on type; light green

Item No.: 793-501/000-012
WMB marking card; as card; not stretchable; plain; snap-on type; orange

Item No.: 793-501/000-005
WMB marking card; as card; not stretchable; plain; snap-on type; red

Item No.: 793-501/000-024
WMB marking card; as card; not stretchable; plain; snap-on type; violet

Item No.: 793-501
WMB marking card; as card; not stretchable; plain; snap-on type; white

Item No.: 793-501/000-002
WMB marking card; as card; not stretchable; plain; snap-on type; yellow

Item No.: 2009-115/000-006
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; blue

Item No.: 2009-115/000-007
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; gray

Item No.: 2009-115/000-023
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; green

Item No.: 2009-115/000-017
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; light green

Item No.: 2009-115/000-012
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; orange

Item No.: 2009-115/000-024
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; violet

Item No.: 2009-115
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white

Item No.: 2009-115/000-002
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; yellow

1.2.8 N-busbar

1.2.8.1 Busbar

Item No.: 210-133
Busbar; tin-plated; 1000 mm long; Cu 10 mm x 3 mm; white

1.2.8.2 Cover

Item No.: 777-303
N-busbar cover; 1000 mm long; transparent

1.2.9 Protective warning marker

1.2.9.1 Cover

Item No.: 281-415
Protective warning marker; for 5 terminal blocks; with high-voltage symbol, black; yellow

1.2.10 Push-in type wire jumper

1.2.10.1 Jumper

Item No.: 249-126
Push-in type wire jumper; 0.75 mm²; insulated; 110 mm long; black

Item No.: 249-123
Push-in type wire jumper; 0.75 mm²; insulated; 180 mm long; black

Item No.: 249-127
Push-in type wire jumper; 0.75 mm²; insulated; 250 mm long; black

Item No.: 249-125
Push-in type wire jumper; insulated; 60 mm long; black

1.2.11 Terminal blocks

1.2.11.1 Busbar terminal block

Item No.: 210-281
Connector; blue

Item No.: 209-105
Connector; silver-colored

1.2.12 Test and measurement

1.2.12.1 Testing accessories

Item No.: 249-148
B-type spacer module; modular; e.g., for bridging commoned terminal blocks; gray

Item No.: 249-147
B-type test plug module; modular; 2,50 mm²; gray

Item No.: 249-145
L-type end module; modular; with rigid contact pin; End module; 2,50 mm²; gray

Item No.: 249-146
L-type spacer module; modular; e.g., bridging commoned terminal blocks; gray

Item No.: 249-144
L-type test plug module; modular; with spring-loaded contact pin; Center module; 2,50 mm²; gray

Item No.: 281-419
Spacer module; modular; bridging commoned terminal blocks; gray

Item No.: 210-297
Step-down test plug; from 4mm socket to 2mm plug; red

Item No.: 280-404
Test plug adapter; 5 mm wide; for test plug (2.3 mm Ø); suitable for 1.5 mm² - 4 mm² tbs; gray

Item No.: 209-170
Test plug adapter; 8.3 mm wide; for 4 mm Ø test plugs; suitable for 1.5 mm² - 10 mm² tbs; gray

Item No.: 281-418
Test plug module; modular; suitable for all WAGO 281, 776, 777 and 781 series rail-mounted terminal blocks with jumper slots in the current bar; gray

Item No.: 281-407
Test plug; 6 mm wide; Nominal current 24 A; for 0.08 mm² - 2.5 mm²; gray

1.2.13 Tool

1.2.13.1 Operating tool

Item No.: 210-720
Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured

Item No.: 777-310
Operating tool; Specially designed blade; for TOPJOB® Terminal Blocks; orange

Installation Notes

Operating a screwless N-disconnect slide link.

Subject to changes. Please also observe the further product documentation!

Current addresses can be found at:: www.wago.com

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