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DSX switch disconnector
DIN rail mounting

Cat.Nos :
4 240 00 - 4 240 01 - 4 240 02 - 4 240 03 - 4 240 04 - 4 240 05
4 240 06 - 4 240 07 - 4 240 08 - 4 240 09 - 4 240 46 - 4 240 47

CONTENT **Page**

1. USE

DSX platform has been developed to give a new solution for switch disconnection, providing a complete platform in standard market segments. Suitable for long-life projects due to its large electrical duration, DSX range offers optimum performances in Open and Close operation and in operation quality, giving also a complete range of accessories, at a competitive cost.

2. RANGE

Frame	I_n [A]	3P	4P
1	32	4 240 00	4 240 06
	40	4 240 01	4 240 07
	63	4 240 02	4 240 08
2	100	4 240 03	4 240 09
	125	4 240 04	4 240 46
	160	4 240 05	4 240 47

For Frame 1: each pole is 1 DIN module wide
For Frame 2: each pole is 1.5 DIN module wide

3. TECHNICAL DATAS

3.1 Category of use

DIN switch disconnector - Size 1 and 2		Frame 1 - 63 A			Frame 2 - 160 A		
AC 20 A/B	at 415 V~	32	40	63	100	125	160
AC 21 A/B		32	40	63	100	125	160
AC 22 A/B		32	40	63	100	125	160
AC 23 A/B		32	40	63	100	125	160
AC 20 A/B	at 500 V~	32	40	63	100	125	160
AC 21 A/B		32	40	63	100	125	160
AC 22 A/B		32	40	40	100	125	125
AC 23 A/B		25	25	25	63	63	63
AC 20 A/B	at 690 V~	32	40	63	-	-	-
AC 21 A/B		32	40	63	-	-	-
AC 22 A/B		32	40	40	-	-	-
AC 23 A/B		25	25	25	-	-	-
DC 20 A/B	at 250 V⎓	32	40	63	100	125	160
DC 21 A/B		32	40	63	100	125	160
DC 22 A/B		32	40	40	100	125	125
DC 23 A/B		25	25	25	63	63	63

3. TECHNICAL DATAS *(continued)*

■ 3.2 Electrical and mechanical characteristics

Plate disconnectors - Size 1 and 2		
	Frame 1 - 63 A	**Frame 2 - 160 A**
Rated current I_e	32A, 40A, 63A	100A, 125A, 160A
Number of poles	3P-4P	3P-4P
Pole pitch (mm)	17.5	27
Rated insulation voltage U_i (V)	690	690
Rated impulse withstand voltage Uimp (kV)	8	8
Dielectric strength 50 Hz 1 min (kV)	6	6
Rated operational voltage (AC) Ue (V)	690	500
Rated operational voltage (DC) Ue (V)	250	250
Short circuit making capacity Icm (kA)	2.1	3.5
Rated frequency (Hz)	50/60	50/60
Maximal withstand peak current (kA)	3	3.5
Maximal short circuit current at 415 V (kA)	50	10
Power pole dissipation (at rated operational current) (W/pole)	0.8 at 32A 1.1 at 40A 2.2 at 63A	5 at 100A 7 at 125A 11.5 at 160A
Short time withstand current (1 s) Icw (kA)	1.5	2.5
Mechanical endurance (Number of operations)	12000	7000
Electrical endurance (Number of operations) at Ue and Ie	2000	1000
Rated ambient temperature Ta (°C)	40/50	40/50
Temperature withstand range (°C)	-25/+70	-25/+70
Temperature storage (range) (°C)	-25/+70	-25/+70
Terminal type	Cage	Cage
Maximal aluminum and copper cable* (mm^2)	Flexible: 35 Rigid: 50	Flexible: 95 Rigid: 95
Degree of protection device / with terminal shields	IP20 - Standalone IP40 - with terminal shield IP40 - with terminal shield inside panel IP55 - with terminal shield & vary depth handle inside panel	

* If shorting links are used, accordingly, the maximum cable cross- section will be reduced.

■ 3.3 Deratings

According to IEC/EN 60947-1:

Temperature
The rated current and its adjustment must to be considered relating to a rise or fall of ambient temperature and to a different version or installation conditions.

Climatic conditions
According to IEC/EN 60947-1 Annex Q, Cat. F subject to temperature, humidity, vibration, shock and salt mist.

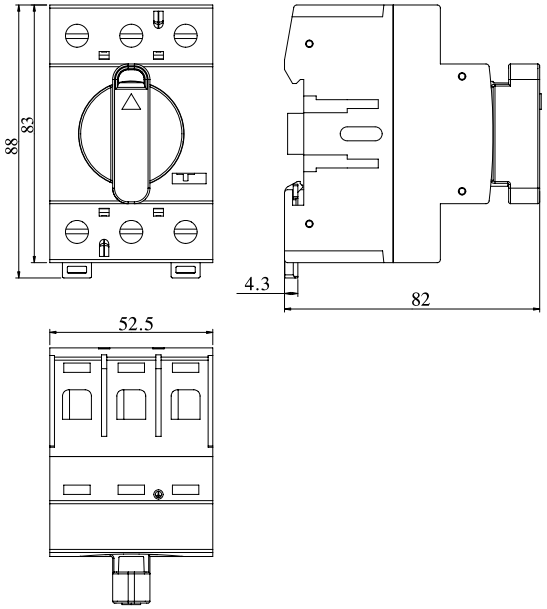
Pollution degree
For DSX switch disconnectors, degree 3, according to IEC/EN 60947-3.

Altitude

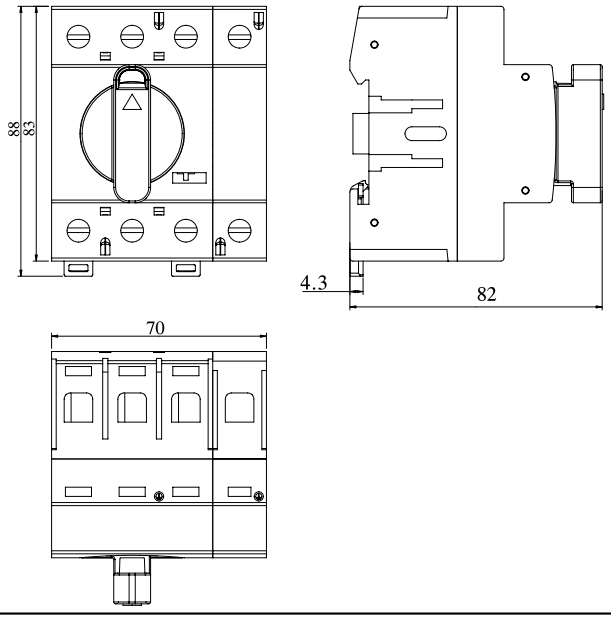
Altitude (m)	2000	3000	4000	5000
Rated voltage (V)	690	590	520	460

4. DIMENSIONS AND WEIGHT

Frontal, upper and lateral view (Frame 1 - 3 poles)

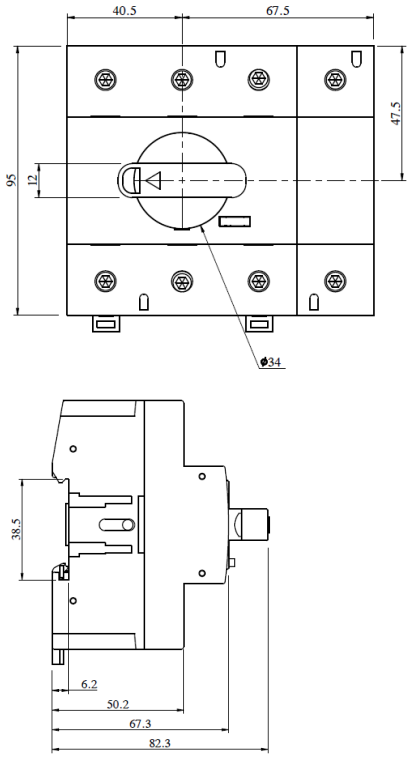


Frontal, upper and lateral view (Frame 1 - 4 poles)

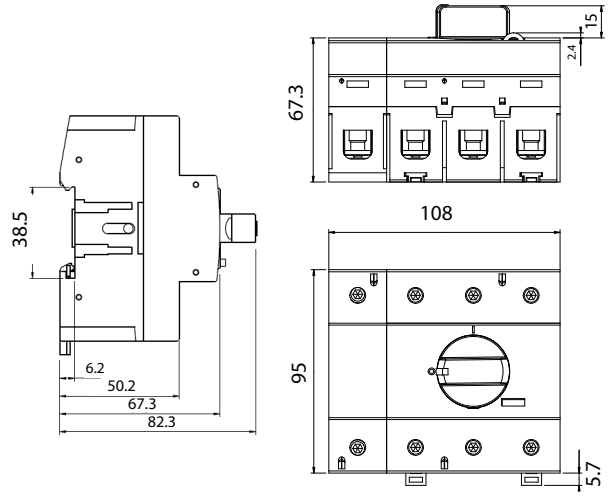


4. DIMENSIONS AND WEIGHT *(continued)*

Frontal, upper and lateral view (Frame 2 - 3 poles)



Frontal, upper and lateral view (Frame 2 - 4 poles)



Weight (kg)

Without accessories			
Frame	**Ie**	**3 poles**	**4 poles**
1	from 32 A to 63 A	0.29	0.37
2	from 100 A to 160 A	0.59	0.68

■ 4.1 Supply material

All plate switch disconnector in Frame 1 and 2, do not need to have supplied material.

5. ELECTRICAL CONNECTIONS

It is possible to mount the product on DIN rail:
- vertically;
- horizontally;

For mounting procedures, see instruction sheet.

6. EQUIPMENTS AND ACCESSORIES

■ 6.1 Additional poles (neutral)

To be clipped onto left or right side of a 3-pole switch-disconnectors
Maximum: 1 additional pole per switch

Frame 1 (In = 32A)	Cat.No 4 242 04
Frame 1 (In = 40A)	Cat.No 4 242 05
Frame 1 (In = 63A)	Cat.No 4 242 06
Frame 2 (In = 100A)	Cat.No 4 242 19
Frame 2(In = 125A)	Cat.No 4 242 20
Frame 2 (In = 160A)	Cat.No 4 242 21

■ 6.2 Auxiliary contacts

It is used to show the state of the contacts, and can be mounted on both sides of the switches (maximum 4 auxiliaries per switch: 2 on each side).

Electrical characteristics: 5 A - 230 VA

Auxiliary contact Simultaneous (1 NO + 1 NC) (Also usable with transfer switch equipment)	Cat.No 4 242 08

■ 6.3 Rotary handles (for front operation)

Direct on DSX switch disconnector

- Standard (black)	Cat.No 4 242 15
- For emergency use (red / yellow)	Cat.No 4 242 16

Vari-depth handle IP54
(Also usable with transfer switch equipment)

- Standard (black)	Cat.No 4 242 09
- For emergency use (red/yellow)	Cat.No 4 242 10

They are supplied with connection rod, bracket, self-adhesive drilling template, mounting accessories and door lock mechanism
Pad lockable in open position (up to 3 Ø 8 mm padlocks)

■ 6.4 Sealable terminal shields (IP20)

(Also usable with transfer switch equipment)

Frame 1

- 1P switch	Cat.No 4 242 03
- 3P switch	Cat.No 4 242 02

Frame 2

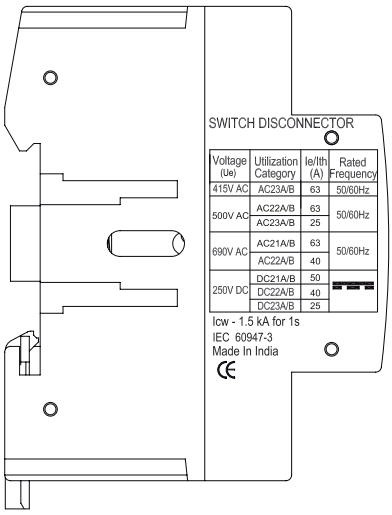
- 1P switch	Cat.No 4 242 14
- 3P switch	Cat.No 4 242 13

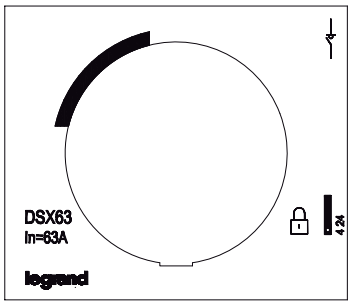
Data indicated in this document refers exclusively to test conditions according to product standards, unless otherwise indicated in the documentation.
For the different conditions of use of the product, inside electrical equipment or in any case inserted in the installation context, refer to the regulatory requirements of the equipment, local regulations, and design specifications of the system.

7. MARKING

Product are provided with labelling in full conformity to the referred standards and directives required by laser or sticker labels (for illustrative purposes only).

Product laser label lateral and on front
- Denomination and type product
- Mark/Licence (if any)
- Directive requirements
- Made in
- Standard conformity





Product sticker label on side
- Manufacturer responsible
- Denomination and type product
- Directive requirements
- QR code identification product
- Manufacturing Country
- EAN code and traceability code

Packaging sticker label
- Reference number
- Manufacturer responsible
- Denomination and type product
- Mark/Licence (if any)
- Directive requirements
- Bar code identification product
- Manufacturing Country
- Standard conformity

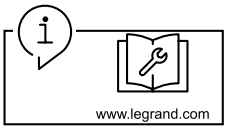
8. STANDARDS AND REGULATIONS

DSX range of product concerning switch-disconnectors exceed compliance with the IEC/EN standard 60947-1 and 60947-3 respectively. Certification available by IECEE CB-scheme.

DSX respect the European Directives REACh, RoHS, RAEE.

For specific information, please contact Legrand support.

9. OTHER INFORMATION



Instruction sheet: detailed mounting procedures, available on e-catalog.

For specific information, please contact Legrand support.

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