

DSX transfer switching equipment Rail mounting

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Reference(s) : From 4 241 00 to 4 241 09; 4 241 46; 4 240 47







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, also giving a complete range of accessories, at a competitive cost.

2. RANGE

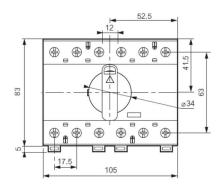
DSX - TSE - Rail mounting						
Frame	I _n [A]	3P	4P			
	32	424100	424106			
1	40	424101	424107			
	63	424102	424108			
	100	424103	424109			
2	125	424104	424146			
	160	424105	424147			

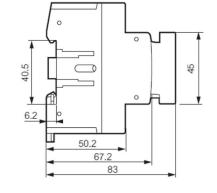
3. DIMENSIONS AND WEIGHTS

3.1 Dimensions

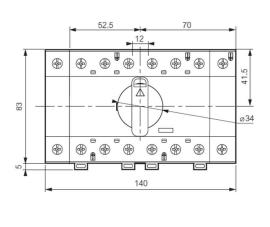
Frame 1

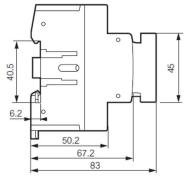
Frontal and lateral view (Frame 1 - 3 poles)





Frontal and lateral view (Frame 1 - 4 poles)





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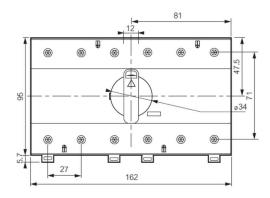
Technical sheet: F04092EN-00

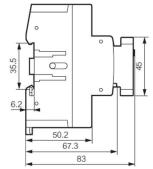
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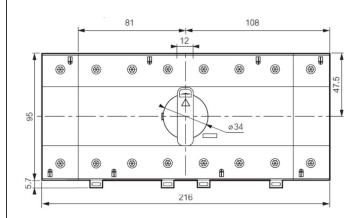
Frame 2

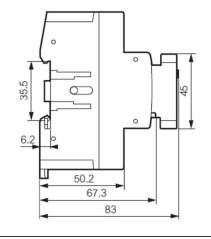
Frontal and lateral view (Frame 2 - 3 poles)





Frontal and lateral view (Frame 2 - 4 poles)





3.2 Weights

Weights [kg]					
Frame	I _n [A]	3 poles	4 poles		
1	63 A	0.59	0.74		
2	160 A	1.2	1.36		

4. OVERVIEW

4.1 Supply material

All DIN transfer switching equipment in frame 1 and 2, have no need to have supplied material.

5. ELECTRICAL CONNECTIONS

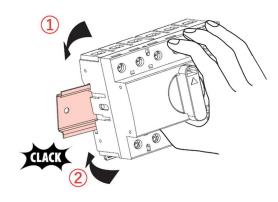
5.1 Mounting possibilities

On DIN rail:

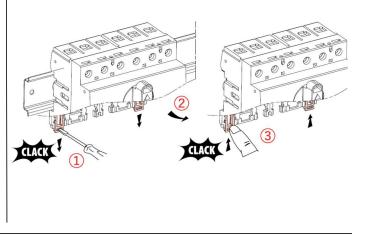
- Vertical,
- Horizontal,
- Supply invertor type

5.2 Mounting procedures

(see instruction sheet for detailed mounting procedures) Mounting



Dismounting



Technical sheet: F04092EN-00

Update: 08/03/2024

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6. ELECTRICAL AND MECHANICAL CHARACTERISTICS

6.1 Technical values

DIN switch disconnector - Size 1&2	Frame 1 - 63A	Frame 2 - 160A
Rated current I _n (A)	32A, 40A, 63A	100A, 125A, 160A
Number of poles	3P-4P	3P-4P
Rated insulation voltage U _i (V)	690	690
Rated impulse withstand voltage U _{imp} (kV)	8	8
Dielectric strength 50 Hz 1 min (kV)	6	6
Rated operational voltage (AC) U_e (V)	690	500
Rated operational voltage (DC) U_e (V)	250	250
Short circuit making capacity I _{cm} (kApk)	2.1	3.5
Maximal withstand peak current (while protection breaks short circuit) (kApk)	3	3.5
Power pole dissipation (at rated	0.8 @ 32A	3.2 @ 100A
operational current)	1.1 @ 40A	4 @ 125A
(W/pole)	1.73 @ 63A	5.1 @ 160A
Short time withstand current (1 s) I _{cw} (kA)	1.5	2.5
Electrical + Mechanical endurance (No. of operations)	10000	6000
Rated Ambient temperature T _a (°C)	40/50	40/50
Temperature Withstand range (°C)	-25/+70	-25/+70
Terminal type	Cage	Cage
Maximal copper cable mm ²	35/50	70/95

6.2 Degree of protection device (IP), with terminal shields

- IP20 Standalone
- IP40 With Terminal Shield
- IP40 With Terminal Shield inside panel
- IP55 With Terminal Shield & VD Handle inside panel

6.3 Category of use

	DIN switch	ory of use disconnector - e 1&2	Fra	ame 1 - 6	3A	Fra	me 2 - 16	50A
	AC 20 A/B	415 VA AC	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		32	40	63	100	125	160
	AC 21 A/B	500.1/4.40	32	40	63	100	125	160
	AC 22 A/B	500 VA AC	32	40	40	100	125	125
150 00047 0	AC 23 A/B		25	25	25	63	63	63
IEC 60947-3	AC 20 A/B		32	40	63	-	-	-
	AC 21 A/B	600.VA AC	32	40	63	-	-	-
	AC 22 A/B	690 VA AC	32	40	40	-	-	-
	AC 23 A/B		25	25	25	-	-	-
	DC 20 A/B	250 V DC	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
	AC 30 A/B	415 VA AC	32	40	63	100	125	160
	AC 31 A/B		32	40	63	100	125	160
	AC 32 A/B		32	40	63	100	125	160
	AC 33 A/B		32	40	63	100	125	160
	AC 30 A/B		32	40	63	100	125	160
	AC 31 A/B	500.144.40	32	40	63	100	125	160
	AC 32 A/B	500 VA AC	32	40	40	100	125	125
150 00047 0 4	AC 33 A/B		25	25	25	63	63	63
IEC 60947-6-1	AC 30 A/B		32	40	63	-	-	-
	AC 31 A/B	690 VA AC	32	40	63	-	-	-
	AC 32 A/B	690 VA AC	32	40	40	-	-	-
	AC 33 A/B		25	25	25	-	-	-
	DC 30 A/B		32	40	63	100	125	160
	DC 31 A/B		32	40	63	100	125	160
	DC 32 A/B	250 V DC	32	40	40	100	125	125
	DC 33 A/B		25	25	25	63	63	63

6.4 Deratings

according to IEC/EN 60947-1

6.4.1 Temperature

Rated current and his adjustment must be considered relating to a rise or fall of ambient temperature and to a different version or installation conditions.

6.4.2 Specific condition use

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 transfer switched, degree 3, according to IEC/EN 60947-6-1.

6.4.3 Altitude

Altitude derating for DSX transfer switching equipment.

Altitude [m]	2000	3000	4000	5000
Rated Voltage [V]	690	590	520	460

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7. CONFORMITY

DSX range of product concerning transfer switched exceed compliance with the IEC/EN standard 60947-6-1 respectively. Certification available by IECEE CB-scheme.

DSX respect the European Directives REACh, RoHS, RAEE.

For specific information, please contact Legrand support.

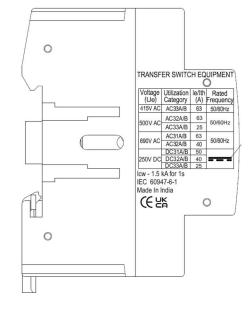
7.1 Marking

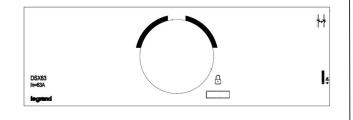
Product are provided with labelling in full conformity to the referred standard and directives requirements by laser or sticker labels (for illustrative purposes only) as:

Below markings images refer to Ref. 4 241 02 as an example, data marked on Frame 1 and Frame 2 may differ according to results coming from validation tests.

Laser marking and pad printing

- Denomination and type product
- Mark/Licence (if any)
- Directive requirements
- Made in
- Standard conformity





Laser marking and pad printing

- 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

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DIN 63 3P 63A IEC 60947-6-1

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8. EQUIPMENTS AND ACCESSORIES

8.1 Auxiliary contacts

• Auxiliary contact Simultaneous (1 NO + 1 NC) *ref. 4 242 08* Also usable with SD's (Switch Disconnector)

Used to show the state of the contacts. Electrical characteristics: 5 A - 230 VA Can be mounted on both sides of the switches: maximum 4 auxiliaries per switch (2 on each side)

8.2 Rotary handles (for front operation)

Direct on DSX switch disconnector

•	Standard (black)	ref. 4 242 15
•	For emergency use (red / yellow)	ref. 4 242 16

Vari-depth handle IP54

Also usable with SD's (Switch Disconnector) Comprising: connection rod, bracket, self-adhesive drilling template, mounting accessories and door lock mechanism. Padlockable in open position (up to 3 Ø 8 mm padlocks)

Standard (black) For emergency use (red / yellow)	ref. 4 242 09 ref. 4 242 10

8.3 Sealable terminal shields (IP30)

Also usable with SD's (Switch Disconnector)

•	Frame 1 & 1-pole switch Frame 1 & 3-pole switch	ref. 4 242 03 ref. 4 242 02
•	Frame 2 & 1-pole switch Frame 2 & 3-pole switch	ref. 4 242 14 ref. 4 242 13

8.4 Bridging links for transfer switching equipment

•	Frame 1 & 3-pole switch (set of 3) Frame 1 & 4-pole switch (set of 4)	ref. 4 242 00 ref. 4 242 01
•	Frame 2 & 3-pole switch (set of 3) Frame 2 & 4-pole switch (set of 4)	ref. 4 242 11 ref. 4 242 12

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.