

## Solar Isolator Range

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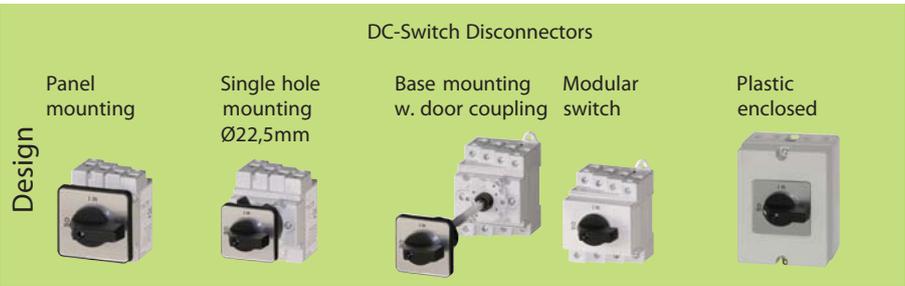
Bright **solutions**



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- 1000V DC Rated operational voltage
- 32A Rated operational current
- 2- and 4-pole
- Oxydation proof contacts
- Cable cross sections up to 16mm<sup>2</sup>

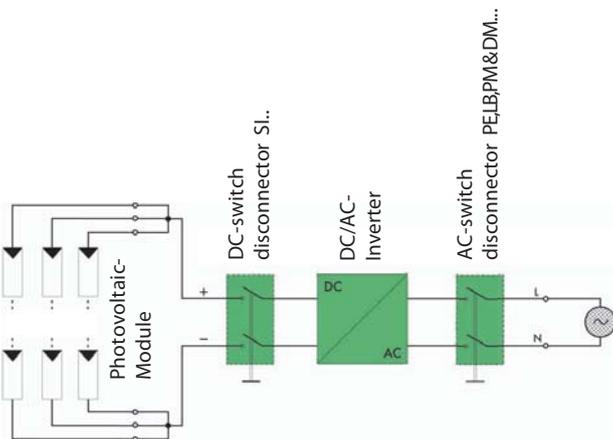
Type	I <sub>th open</sub> A	DC21B 4 poles in series A	at U <sub>e</sub> V
SI16	16	16	1000
SI25	25	25	1000
SI32	32	32	1000



\*) Type-suffix for switch program: 2 2-pole      Wiring diagram see below  
 4 4-pole

### Solar Isolators for Photovoltaic

Solar Isolators „SI..“ are switch gears for interrupting the DC/AC-Inverter from the solar-panels. Photovoltaic-installations have to be equipped with DC-isolators according to IEC 60364-7-712.



Switch disconnectors „SI..“ ensures a reliable switching up to 32A with 1000V in the category DC21B.

The construction of the contacts and the material selection guarantee that no oxidation (small switching frequency) develops, and is thus prevented inadmissible heating-up.

The switch disconnectors has 2, 3 or 4 contacts, by serial wiring of the contacts the contact rating will be increased.

The switching speed at the manually operated handle does not have an effect on the switching attitude of the contacts.

### Switching programs

Type	2-pole	2+2-pole 2 poles in series +2 poles parallel	4-pole	4-pole with jumpers Input on top Output bottom	4-pole with jumpers Input and Output bottom	4-pole with jumpers Input and Output on top
SI16	2	2H	4	4S	4T	4B
SI25	2	2H	4	4S	4T	4B
SI32	2	2H	4	4S	4T	4B
Contacts Wiring diagram						
Switching example						

### Insulated Jumper SIV-B1 for series and parallel switching of contacts



Type	Pack	Weight
SIV-B1	1	6,6 g/pc.



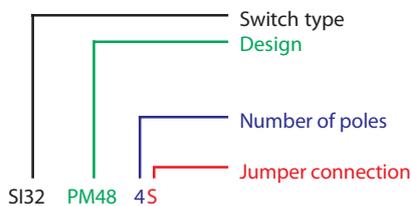
### Technical data for DC, according to IEC 60947-3, VDE0660

Type	DC21B						DC22B							
	500V	600V	700V	800V	900V	1000V	500V	600V	800V	1000V				
SI16 ..	1 2		2 poles in series		16A	16A	16A	16A	13A	9A	7A	5,5A	2A	1A
	1 2 3 4		2 poles in series+2 parallel		29A	29A	16A	16A	13A	9A	-	-	-	-
	1 2 3 4		4 poles in series		16A	16A	16A	16A	16A	16A	16A	16A	11,5A	8A
SI25 ..	1 2		2 poles in series		25A	25A	23A	20A	16A	11A	8A	6A	2,5A	1,5A
	1 2 3 4		2 poles in series+2 parallel		45A	45A	23A	20A	16A	11A	-	-	-	-
	1 2 3 4		4 poles in series		25A	25A	25A	25A	25A	25A	25A	25A	12A	9A
SI32 ..	1 2		2 poles in series		32A	32A	27A	23A	20A	13A	9A	6,5A	3A	2A
	1 2 3 4		2 poles in series+2 parallel		58A	50A	27A	23A	20A	13A	-	-	-	-
	1 2 3 4		4 poles in series		32A	32A	32A	32A	32A	32A	32A	27,5A	12,5A	10A

DC21B Switching of DC-resistive loads including moderate overloads, Time constant L/R ≤ 1ms

DC22B Switching of DC-resistive and inductive loads including moderate overloads, Time constant L/R ≤ 2,5ms (e. g: shunt-motors)

### Ordering



### ON-OFF Switch for Panel Mounting, Escutcheon plate 64 □, IP66, cULus Typ 3R



	DC21B 600V DC	1000V DC	Poles in series	Number of Strings	Type	Pack pcs	Weight kg/pcs.
	16A	9A	2	1	SI16 PM64 2	1	0,20
	25A	11A	2	1	SI25 PM64 2	1	0,20
	32A	13A	2	1	SI32 PM64 2	1	0,20
	29A	9A	2	1	SI16 PM64 2H	1	0,25
	45A	11A	2	1	SI25 PM64 2H	1	0,25
	50A	13A	2	1	SI32 PM64 2H	1	0,25
	16A	9A	2	2	SI16 PM64 4	1	0,23
	25A	11A	2	2	SI25 PM64 4	1	0,23
	32A	13A	2	2	SI32 PM64 4	1	0,23
	16A	16A	4	1	SI16 PM64 4S	1	0,24
	25A	25A	4	1	SI25 PM64 4S	1	0,24
	32A	32A	4	1	SI32 PM64 4S	1	0,24
	16A	16A	4	1	SI16 PM64 4T	1	0,24
	25A	25A	4	1	SI25 PM64 4T	1	0,24
	32A	32A	4	1	SI32 PM48 4T	1	0,24
	16A	16A	4	1	SI16 PM64 4B	1	0,24
	25A	25A	4	1	SI25 PM64 4B	1	0,24
	32A	32A	4	1	SI32 PM64 4B	1	0,24

### ON-OFF Switch for Single Hole Mounting Ø22mm, Escutcheon plate 48 □, IP66, cULus Typ 3R



	16A	9A	2	1	SI16 SHM 2	1	0,21
	25A	11A	2	1	SI25 SHM 2	1	0,21
	32A	13A	2	1	SI32 SHM 2	1	0,21
		29A	9A	2	1	SI16 SHM 2H	1
45A		11A	2	1	SI25 SHM 2H	1	0,26
50A		13A	2	1	SI32 SHM 2H	1	0,26
	16A	9A	2	2	SI16 SHM 4	1	0,23
	25A	11A	2	2	SI25 SHM 4	1	0,23
	32A	13A	2	2	SI32 SHM 4	1	0,23
	16A	16A	4	1	SI16 SHM 4S	1	0,25
	25A	25A	4	1	SI25 SHM 4S	1	0,25
	32A	32A	4	1	SI32 SHM 4S	1	0,25
	16A	16A	4	1	SI16 SHM 4T	1	0,25
	25A	25A	4	1	SI25 SHM 4T	1	0,25
	32A	32A	4	1	SI32 SHM 4T	1	0,25
	16A	16A	4	1	SI16 SHM 4B	1	0,25
	25A	25A	4	1	SI25 SHM 4B	1	0,25
	32A	32A	4	1	SI32 SHM 4B	1	0,25

## ON-OFF Switch f. Base Mounting w. Door Clutch f. Single Hole, Plate 64□, IP66, us Typ 1



Depth is adjustable

		DC21B 600V DC	1000V DC	Poles in series	Number of Strings	Type	Pack pcs	Weight kg/pcs.
	16A	9A	2	1	SI16 BMDC64 2	1	0,22	
	25A	11A	2	1	SI25 BMDC64 2	1	0,22	
	32A	13A	2	1	SI32 BMDC64 2	1	0,22	
	29A	9A	2	1	SI16 BMDC64 2H	1	0,27	
	45A	11A	2	1	SI25 BMDC64 2H	1	0,27	
	50A	13A	2	1	SI32 BMDC64 2H	1	0,27	
	16A	9A	2	2	SI16 BMDC64 4	1	0,25	
	25A	11A	2	2	SI25 BMDC64 4	1	0,25	
	32A	13A	2	2	SI32 BMDC64 4	1	0,25	
	16A	16A	4	1	SI16 BMDC64 4S	1	0,26	
	25A	25A	4	1	SI25 BMDC64 4S	1	0,26	
	32A	32A	4	1	SI32 BMDC64 4S	1	0,26	
	16A	16A	4	1	SI16 BMDC64 4T	1	0,26	
	25A	25A	4	1	SI25 BMDC64 4T	1	0,26	
	32A	32A	4	1	SI32 BMDC64 4T	1	0,26	
	16A	16A	4	1	SI16 BMDC64 4B	1	0,26	
	25A	25A	4	1	SI25 BMDC64 4B	1	0,26	
	32A	32A	4	1	SI32 BMDC64 4B	1	0,26	

## ON-OFF Switch for Distribution Boards, IP40, us Typ 1



	16A	9A	2	1	SI16 DB 2	1	0,19
	25A	11A	2	1	SI25 DB 2	1	0,19
	32A	13A	2	1	SI32 DB 2	1	0,19
	29A	9A	2	1	SI16 DB 2H	1	0,24
	45A	11A	2	1	SI25 DB 2H	1	0,24
	50A	13A	2	1	SI32 DB 2H	1	0,24
	16A	9A	2	2	SI16 DB 4	1	0,22
	25A	11A	2	2	SI25 DB 4	1	0,22
	32A	13A	2	2	SI32 DB 4	1	0,22
	16A	16A	4	1	SI16 DB 4S	1	0,23
	25A	25A	4	1	SI25 DB 4S	1	0,23
	32A	32A	4	1	SI32 DB 4S	1	0,23
	16A	16A	4	1	SI16 DB 4T	1	0,23
	25A	25A	4	1	SI25 DB 4T	1	0,23
	32A	32A	4	1	SI32 DB 4T	1	0,23
	16A	16A	4	1	SI16 DB 4B	1	0,23
	25A	25A	4	1	SI25 DB 4B	1	0,23
	32A	32A	4	1	SI32 DB 4B	1	0,23

ON-OFF Switch in Plastic Enclosure, Escutcheon plate 64 □, IP65, cULusTyp 1



	DC21B 600V DC	1000V DC	Poles in series	Number of Strings	Type	Pack pcs	Weighth kg/pcs.
	16A	9A	2	1	SI16 PE64 2	1	0,38
	25A	11A	2	1	SI25 PE64 2	1	0,38
	32A	13A	2	1	SI32 PE64 2	1	0,38
	29A	9A	2	1	SI16 PE64 2H	1	0,44
	45A	11A	2	1	SI25 PE64 2H	1	0,44
	50A	13A	2	1	SI32 PE64 2H	1	0,44
	16A	9A	2	2	SI16 PE64 4	1	0,41
	25A	11A	2	2	SI25 PE64 4	1	0,41
	32A	13A	2	2	SI32 PE64 4	1	0,41
	16A	16A	4	1	SI16 PE64 4S	1	0,42
	25A	25A	4	1	SI25 PE64 4S	1	0,42
	32A	32A	4	1	SI32 PE64 4S	1	0,42
	16A	16A	4	1	SI16 PE64 4T	1	0,42
	25A	25A	4	1	SI25 PE64 4T	1	0,42
	32A	32A	4	1	SI32 PE64 4T	1	0,42
	16A	16A	4	1	SI16 PE64 4B	1	0,42
	25A	25A	4	1	SI25 PE64 4B	1	0,42
	32A	32A	4	1	SI32 PE64 4B	1	0,42

### Main Switch for Panel Mounting, IP66, eFUS Typ 3R



padlock device 64R

		DC21B 600V DC	1000V DC	Poles in series	Number of s g	Type n i r t S	Pack	Weight . s c p / g k
	16A	9A	2	1	SI16 PM64R 2	1	0,21	
	25A	11A	2	1	SI25 PM64R 2	1	0,21	
	32A	13A	2	1	SI32 PM64R 2	1	0,21	
	29A	9A	2	1	SI16 PM64R 2H	1	0,26	
	45A	11A	2	1	SI25 PM64R 2H	1	0,26	
	50A	13A	2	1	SI32 PM64R 2H	1	0,26	
	16A	9A	2	2	SI16 PM64R 4	1	0,24	
	25A	11A	2	2	SI25 PM64R 4	1	0,24	
	32A	13A	2	2	SI32 PM64R 4	1	0,24	
	16A	16A	4	1	SI16 PM64R 4S	1	0,25	
	25A	25A	4	1	SI25 PM64R 4S	1	0,25	
	32A	32A	4	1	SI32 PM64R 4S	1	0,25	
	16A	16A	4	1	SI16 PM64R 4T	1	0,25	
	25A	25A	4	1	SI25 PM64R 4T	1	0,25	
	32A	32A	4	1	SI32 PM64R 4T	1	0,25	
	16A	16A	4	1	SI16 PM64R 4B	1	0,25	
	25A	25A	4	1	SI25 PM64R 4B	1	0,25	
	32A	32A	4	1	SI32 PM64R 4B	1	0,25	

### Main Switch for Single Hole Mounting Ø22mm, Escutcheon plate 48 □, IP66, eFUS Typ 3R



padlock device 64

		DC21B 600V DC	1000V DC	Poles in series	Number of s g	Type n i r t S	Pack	Weight . s c p / g k
	16A	9A	2	1	SI16 SHML 2	1	0,21	
	25A	11A	2	1	SI25 SHML 2	1	0,21	
	32A	13A	2	1	SI32 SHML 2	1	0,21	
	29A	9A	2	1	SI16 SHML 2H	1	0,27	
	45A	11A	2	1	SI25 SHML 2H	1	0,27	
	50A	13A	2	1	SI32 SHML 2H	1	0,27	
	16A	9A	2	2	SI16 SHML 4	1	0,24	
	25A	11A	2	2	SI25 SHML 4	1	0,24	
	32A	13A	2	2	SI32 SHML 4	1	0,24	
	16A	16A	4	1	SI16 SHML 4S	1	0,25	
	25A	25A	4	1	SI25 SHML 4S	1	0,25	
	32A	32A	4	1	SI32 SHML 4S	1	0,25	
	16A	16A	4	1	SI16 SHML 4T	1	0,25	
	25A	25A	4	1	SI25 SHML 4T	1	0,25	
	32A	32A	4	1	SI32 SHML 4T	1	0,25	
	16A	16A	4	1	SI16 SHML 4B	1	0,25	
	25A	25A	4	1	SI25 SHML 4B	1	0,25	
	32A	32A	4	1	SI32 SHML 4B	1	0,25	

## Main Switch f. Base Mounting, Door Clutch f. Single Hole, IP66, c us Typ 1



Depth is adjustable  
padlock device 64R

	DC21B 600V DC	1000V DC	Poles in series	Number of Strings	Type	Pack pcs	Weight kg/pcs.
	16A	9A	2	1	SI16 BMDC64R 2	1	0,23
	25A	11A	2	1	SI25 BMDC64R 2	1	0,23
	32A	13A	2	1	SI32 BMDC64R 2	1	0,23
	29A	9A	2	1	SI16 BMDC64R 2H	1	0,28
	45A	11A	2	1	SI25 BMDC64R 2H	1	0,28
	50A	13A	2	1	SI32 BMDC64R 2H	1	0,28
	16A	9A	2	2	SI16 BMDC64R 4	1	0,26
	25A	11A	2	2	SI25 BMDC64R 4	1	0,26
	32A	13A	2	2	SI32 BMDC64R 4	1	0,26
	16A	16A	4	1	SI16 BMDC64R 4S	1	0,27
	25A	25A	4	1	SI25 BMDC64R 4S	1	0,27
	32A	32A	4	1	SI32 BMDC64R 4S	1	0,27
	16A	16A	4	1	SI16 BMDC64R 4T	1	0,27
	25A	25A	4	1	SI25 BMDC64R 4T	1	0,27
	32A	32A	4	1	SI32 BMDC64R 4T	1	0,27
	16A	16A	4	1	SI16 BMDC64R 4B	1	0,27
	25A	25A	4	1	SI25 BMDC64R 4B	1	0,27
	32A	32A	4	1	SI32 BMDC64R 4B	1	0,27

## Main Switch for Distribution Boards, IP40, c us Typ 1



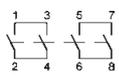
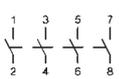
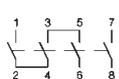
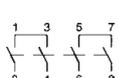
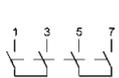
padlock device 64

	16A	9A	2	1	SI16 DBL 2	1	0,19
	25A	11A	2	1	SI25 DBL 2	1	0,19
	32A	13A	2	1	SI32 DBL 2	1	0,19
	29A	9A	2	1	SI16 DBL 2H	1	0,25
	45A	11A	2	1	SI25 DBL 2H	1	0,25
	50A	13A	2	1	SI32 DBL 2H	1	0,25
	16A	9A	2	2	SI16 DBL 4	1	0,22
	25A	11A	2	2	SI25 DBL 4	1	0,22
	32A	13A	2	2	SI32 DBL 4	1	0,22
	16A	16A	4	1	SI16 DBL 4S	1	0,23
	25A	25A	4	1	SI25 DBL 4S	1	0,23
	32A	32A	4	1	SI32 DBL 4S	1	0,23
	16A	16A	4	1	SI16 DBL 4T	1	0,23
	25A	25A	4	1	SI25 DBL 4T	1	0,23
	32A	32A	4	1	SI32 DBL 4T	1	0,23
	16A	16A	4	1	SI16 DBL 4B	1	0,23
	25A	25A	4	1	SI25 DBL 4B	1	0,23
	32A	32A	4	1	SI32 DBL 4B	1	0,23

# Main Switch in Plastic Enclosure, IP65, us Typ 1



padlock device 64R

	DC21B 600V DC	1000V DC	Poles in series	Number of Strings	Type	Pack pcs	Weight kg/pcs.
	16A	9A	2	1	SI16 PE64R 2	1	0,39
	25A	11A	2	1	SI25 PE64R 2	1	0,39
	32A	13A	2	1	SI32 PE64R 2	1	0,39
	29A	9A	2	1	SI16 PE64R 2H	1	0,45
	45A	11A	2	1	SI25 PE64R 2H	1	0,45
	50A	13A	2	1	SI32 PE64R 2H	1	0,45
	16A	9A	2	2	SI16 PE64R 4	1	0,42
	25A	11A	2	2	SI25 PE64R 4	1	0,42
	32A	13A	2	2	SI32 PE64R 4	1	0,42
	16A	16A	4	1	SI16 PE64R 4S	1	0,43
	25A	25A	4	1	SI25 PE64R 4S	1	0,43
	32A	32A	4	1	SI32 PE64R 4S	1	0,43
	16A	16A	4	1	SI16 PE64R 4T	1	0,43
	25A	25A	4	1	SI25 PE64R 4T	1	0,43
	32A	32A	4	1	SI32 PE64R 4T	1	0,43
	16A	16A	4	1	SI16 PE64R 4B	1	0,43
	25A	25A	4	1	SI25 PE64R 4B	1	0,43
	32A	32A	4	1	SI32 PE64R 4B	1	0,43

## Main Switch-Emergency-Stop for Panel Mounting, Escutcheon plate 64 □, IP66, us Typ 3R



padlock device 64

	DC21B 600V DC	1000V DC	Poles in series	Number of Strings	Type	Pack pcs	Weight kg/pcs.
	16A	9A	2	1	SI16 ES-PM64 2	1	0,20
	25A	11A	2	1	SI25 ES-PM64 2	1	0,20
	32A	13A	2	1	SI32 ES-PM64 2	1	0,20
	29A	9A	2	1	SI16 ES-PM64 2H	1	0,25
	45A	11A	2	1	SI25 ES-PM64 2H	1	0,25
	50A	13A	2	1	SI32 ES-PM64 2H	1	0,25
	16A	9A	2	2	SI16 ES-PM64 4	1	0,23
	25A	11A	2	2	SI25 ES-PM64 4	1	0,23
	32A	13A	2	2	SI32 ES-PM64 4	1	0,23
	16A	16A	4	1	SI16 ES-PM64 4S	1	0,24
	25A	25A	4	1	SI25 ES-PM64 4S	1	0,24
	32A	32A	4	1	SI32 ES-PM64 4S	1	0,24
	16A	16A	4	1	SI16 ES-PM64 4T	1	0,24
	25A	25A	4	1	SI25 ES-PM64 4T	1	0,24
	32A	32A	4	1	SI32 ES-PM64 4T	1	0,24
	16A	16A	4	1	SI16 ES-PM64 4B	1	0,24
	25A	25A	4	1	SI25 ES-PM64 4B	1	0,24
	32A	32A	4	1	SI32 ES-PM64 4B	1	0,24

## Main Switch-Emergency-Stop for Panel Mounting, IP66, us Typ 3R



padlock device 64R

	DC21B 600V DC	1000V DC	Poles in series	Number of Strings	Type	Pack pcs	Weight kg/pcs.
	16A	9A	2	1	SI16 ES-PM64R 2	1	0,21
	25A	11A	2	1	SI25 ES-PM64R 2	1	0,21
	32A	13A	2	1	SI32 ES-PM64R 2	1	0,21
	29A	9A	2	1	SI16 ES-PM64R 2H	1	0,26
	45A	11A	2	1	SI25 ES-PM64R 2H	1	0,26
	50A	13A	2	1	SI32 ES-PM64R 2H	1	0,26
	16A	9A	2	2	SI16 ES-PM64R 4	1	0,24
	25A	11A	2	2	SI25 ES-PM64R 4	1	0,24
	32A	13A	2	2	SI32 ES-PM64R 4	1	0,24
	16A	16A	4	1	SI16 ES-PM64R 4S	1	0,25
	25A	25A	4	1	SI25 ES-PM64R 4S	1	0,25
	32A	32A	4	1	SI32 ES-PM64R 4S	1	0,25
	16A	16A	4	1	SI16 ES-PM64R 4T	1	0,25
	25A	25A	4	1	SI25 ES-PM64R 4T	1	0,25
	32A	32A	4	1	SI32 ES-PM64R 4T	1	0,25
	16A	16A	4	1	SI16 ES-PM64R 4B	1	0,25
	25A	25A	4	1	SI25 ES-PM64R 4B	1	0,25
	32A	32A	4	1	SI32 ES-PM64R 4B	1	0,25

### Main Switch-Emergency-Stop, Single Hole Mounting Ø22mm, Escutcheon plate 48□

IP66, us Typ 3R



padlock device 64

Diagram	DC21B		Poles in series	Number of Strings	Type	Pack pcs	Weighth kg/pcs.
	600V DC	1000V DC					
	16A	9A	2	1	SI16 ES-SHM 2	1	0,21
	25A	11A	2	1	SI25 ES-SHM 2	1	0,21
	32A	13A	2	1	SI32 ES-SHM 2	1	0,21
	29A	9A	2	1	SI16 ES-SHM 2H	1	0,27
	45A	11A	2	1	SI25 ES-SHM 2H	1	0,27
	50A	13A	2	1	SI32 ES-SHM 2H	1	0,27
	16A	9A	2	2	SI16 ES-SHM 4	1	0,24
	25A	11A	2	2	SI25 ES-SHM 4	1	0,24
	32A	13A	2	2	SI32 ES-SHM 4	1	0,24
	16A	16A	4	1	SI16 ES-SHM 4S	1	0,25
	25A	25A	4	1	SI25 ES-SHM 4S	1	0,25
	32A	32A	4	1	SI32 ES-SHM 4S	1	0,25
	16A	16A	4	1	SI16 ES-SHM 4T	1	0,25
	25A	25A	4	1	SI25 ES-SHM 4T	1	0,25
	32A	32A	4	1	SI32 ES-SHM 4T	1	0,25
	16A	16A	4	1	SI16 ES-SHM 4B	1	0,25
	25A	25A	4	1	SI25 ES-SHM 4B	1	0,25
	32A	32A	4	1	SI32 ES-SHM 4B	1	0,25

### Main Switch-Emergency-Stop f. Base Mounting, Door Clutch f. Single Hole, Plate 64□, IP66, us Typ 1



Depth is adjustable  
padlock device 64R

Diagram	DC21B		Poles in series	Number of Strings	Type	Pack pcs	Weighth kg/pcs.
	600V DC	1000V DC					
	16A	9A	2	1	SI16 ES-BMDC 2	1	0,23
	25A	11A	2	1	SI25 ES-BMDC 2	1	0,23
	32A	13A	2	1	SI32 ES-BMDC 2	1	0,23
	29A	9A	2	1	SI16 ES-BMDC 2H	1	0,28
	45A	11A	2	1	SI25 ES-BMDC 2H	1	0,28
	50A	13A	2	1	SI32 ES-BMDC 2H	1	0,28
	16A	9A	2	2	SI16 ES-BMDC 4	1	0,26
	25A	11A	2	2	SI25 ES-BMDC 4	1	0,26
	32A	13A	2	2	SI32 ES-BMDC 4	1	0,26
	16A	16A	4	1	SI16 ES-BMDC 4S	1	0,27
	25A	25A	4	1	SI25 ES-BMDC 4S	1	0,27
	32A	32A	4	1	SI32 ES-BMDC 4S	1	0,27
	16A	16A	4	1	SI16 ES-BMDC 4T	1	0,27
	25A	25A	4	1	SI25 ES-BMDC 4T	1	0,27
	32A	32A	4	1	SI32 ES-BMDC 4T	1	0,27
	16A	16A	4	1	SI16 ES-BMDC 4B	1	0,27
	25A	25A	4	1	SI25 ES-BMDC 4B	1	0,27
	32A	32A	4	1	SI32 ES-BMDC 4B	1	0,27

## Main Switch-Emergency-Stop for Distribution Boards, IP40, US Typ 1



padlock device 64

	DC21B 600V DC	1000V DC	Poles in series	Number of Strings	Type	Pack pcs	Weight kg/pcs.
	16A	9A	2	1	SI16 ES-DB 2	1	0,19
	25A	11A	2	1	SI25 ES-DB 2	1	0,19
	32A	13A	2	1	SI32 ES-DB 2	1	0,19
	29A	9A	2	1	SI16 ES-DB 2H	1	0,25
	45A	11A	2	1	SI25 ES-DB 2H	1	0,25
	50A	13A	2	1	SI32 ES-DB 2H	1	0,25
	16A	9A	2	2	SI16 ES-DB 4	1	0,22
	25A	11A	2	2	SI25 ES-DB 4	1	0,22
	32A	13A	2	2	SI32 ES-DB 4	1	0,22
	16A	16A	4	1	SI16 ES-DB 4S	1	0,23
	25A	25A	4	1	SI25 ES-DB 4S	1	0,23
	32A	32A	4	1	SI32 ES-DB 4S	1	0,23
	16A	16A	4	1	SI16 ES-DB 4T	1	0,23
	25A	25A	4	1	SI25 ES-DB 4T	1	0,23
	32A	32A	4	1	SI32 ES-DB 4T	1	0,23
	16A	16A	4	1	SI16 ES-DB 4B	1	0,23
	25A	25A	4	1	SI25 ES-DB 4B	1	0,23
	32A	32A	4	1	SI32 ES-DB 4B	1	0,23

## Main Switch-Emergency-Stop in Plastic Enclosure IP65, US Typ 1

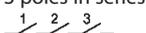
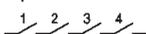
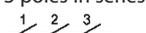
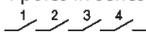


padlock device 64R

	16A	9A	2	1	SI16 ES-PE 2	1	0,39
	25A	11A	2	1	SI25 ES-PE 2	1	0,39
	32A	13A	2	1	SI32 ES-PE 2	1	0,39
	29A	9A	2	1	SI16 ES-PE 2H	1	0,45
	45A	11A	2	1	SI25 ES-PE 2H	1	0,45
	50A	13A	2	1	SI32 ES-PE 2H	1	0,45
		16A	9A	2	2	SI16 ES-PE 4	1
25A		11A	2	2	SI25 ES-PE 4	1	0,42
32A		13A	2	2	SI32 ES-PE 4	1	0,42
	16A	16A	4	1	SI16 ES-PE 4S	1	0,43
	25A	25A	4	1	SI25 ES-PE 4S	1	0,43
	32A	32A	4	1	SI32 ES-PE 4S	1	0,43
	16A	16A	4	1	SI16 ES-PE 4T	1	0,43
	25A	25A	4	1	SI25 ES-PE 4T	1	0,43
	32A	32A	4	1	SI32 ES-PE 4T	1	0,43
	16A	16A	4	1	SI16 ES-PE 4B	1	0,43
	25A	25A	4	1	SI25 ES-PE 4B	1	0,43
	32A	32A	4	1	SI32 ES-PE 4B	1	0,43

## Technical Data

Data according to IEC 60947-3, VDE 0660

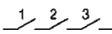
Main contacts	Type		SI16	SI25	SI32
Rated thermal current $I_{the}$	A		16	25	32
Rated insulation voltage $U_i^{(1)}$	V		1000	1000	1000
Disconnection property performed up to Kontaktabstand (pro Pol)	V mm		1000V 8	1000V 8	1000V 8
Rated operational current $I_e$	500V	A	9	11	13
DC21B	600V	A	6	8	10
L/R = 1ms	800V	A	3	4	5
	1000V	A	1,5	2	2,5
2 pole in series	500V	A	16	25	32
	600V	A	16	25	32
	700V	A	16	23	27
	800V	A	16	20	23
	900V	A	13	16	20
	1000V	A	9	11	13
2 poles in series + 2 poles parallel	500V	A	29	45	58
	600V	A	29	45	50
	700V	A	16	23	27
	800V	A	16	20	23
	900V	A	13	16	20
	1000V	A	9	11	13
3 poles in series	500V	A	16	25	32
	1000V	A	16	25	32
4 poles in series	500V	A	16	25	32
	600V	A	16	25	32
	700V	A	16	25	32
	800V	A	16	25	32
	900V	A	16	25	32
	1000V	A	16	25	32
Rated operational current $I_e$	500V	A	1	1,25	1,5
DC22B	600V	A	0,5	0,75	1
L/R = 2,5ms	800V	A	0,3	0,4	0,5
	1000V	A	0,15	0,2	0,25
2 poles in series	500V	A	7	8	9
	600V	A	5,5	6	6,5
	800V	A	2	2,5	3
	1000V	A	1	1,5	2
3 poles in series	500V	A	16	25	27
	600V	A	16	23	25
	800V	A	6,5	7	7,5
	1000V	A	5,5	6	6,5
4 poles in series	500V	A	16	25	32
	600V	A	16	25	27,5
	800V	A	11,5	12	12,5
	1000V	A	8	9	10
Rated conditional short-circuit current	kA <sub>eff</sub>		5	5	5
Max. fuse size	gL (gG)	A	40	63	80
Mechanical life	x10 <sup>3</sup>		10	10	10
Rated short-time withstand current (1s) $I_{2,4 / 2+2H}$	A		800 / 1300	900 / 1500	1000 / 1700
Short circuit making capacity $cm I_{2,4 / 2+2H}$	A		800 / 1300	900 / 1500	1000 / 1700
Maximum cable cross sections (incl. jumper SIV-B1)					
solid or stranded	mm <sup>2</sup>		4 - 16	4 - 16	4 - 16
flexible	mm <sup>2</sup>		4 - 10	4 - 10	4 - 10
flexible (+ multicore cable end)	mm <sup>2</sup>		4 - 10	4 - 10	4 - 10
Size of terminal screw			M4 Pz2	M4 Pz2	M4 Pz2
Tightening torque	Nm		1,2 - 1,8	1,2 - 1,8	1,2 - 1,8
Maximum ambient temperature					
Operation	open	°C		-40 to +65	
	enclosed	°C		-40 to +45	
Storage		°C		-50 to +90	
Power loss per switch at $I_{e max. DC21B}$					
2	W		2	5	8
2+2H	W		3,5	8,5	14
4	W		4	10	16

1) Suitable at 1000V for: earthed-neutral systems, overvoltage category I to III, pollution degree 3 (standard-industry):  $U_{imp} = 8kV$ .  
Data for other conditions on request.

# Technical Data

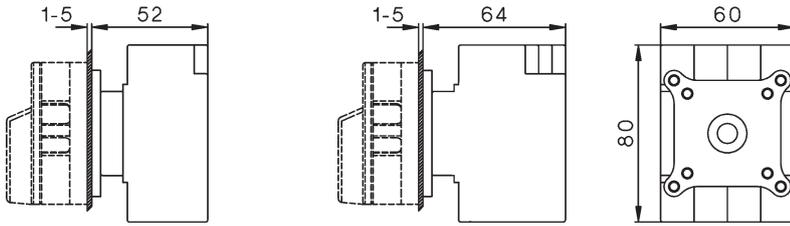


Data acc. to UL508  File E146487, Category no.: NRNT2, NRNT8

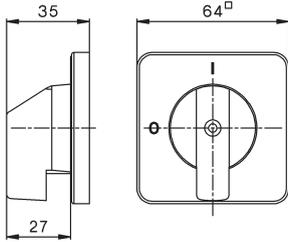
Type			SI16	SI25	SI32
Ampere-Rating	"General use"				
1 pole	350V	A	4	5	6
	500V	A	4	5	6
	600V	A	4	5	6
2 poles in series	350V	A	16	20	25
	500V	A	16	20	25
	600V	A	16	20	25
2 poles in series + 2 poles parallel	350V	A	29	45	58
	500V	A	29	38	40
	600V	A	21	23	25
3 poles in series	350V	A	16	25	32
	500V	A	16	25	32
	600V	A	16	25	32
4 poles in series	350V	A	16	25	32
	500V	A	16	25	32
	600V	A	16	25	32
Fuse size (RK5)	Industrial Control Switch	A	40	60	80
5kA / 600V					
Maximum cable cross sections	(incl. jumper SIV-B1)				
solid or stranded		AWG	12 - 10	12 - 10	12 - 10
flexible		AWG	12 - 6	12 - 6	12 - 6
flexible (+ multicore cable end)		AWG	12 - 6	12 - 6	12 - 6
Size of terminal screw			M4 Pz2	M4 Pz2	M4 Pz2
Tightening torque		lb.inch	11 - 16	11 - 16	11 - 16

Dimensions:

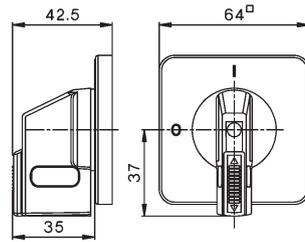
SI16 PM/ES-PM, SI25 PM/ES-PM, SI32 PM/ES-PM  
 ..2<sup>1)</sup> ..2+2H, ..4.



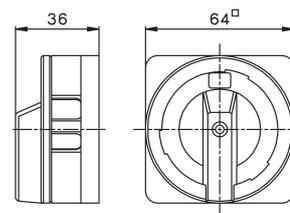
Escutcheon plate 64 □  
 Handle



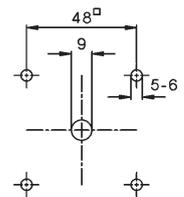
Padlock device 64.



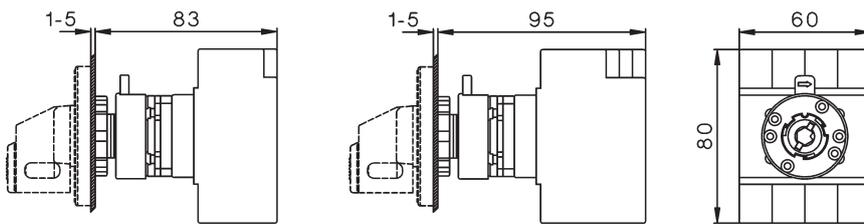
Padlock device 64



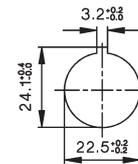
Mounting holes



SI16 SHM/ES-SHM, SI25 SHM/ES-SHM, SI32 SHM/ES-SHM  
 ..2<sup>1)</sup> ..2+2H,..4.

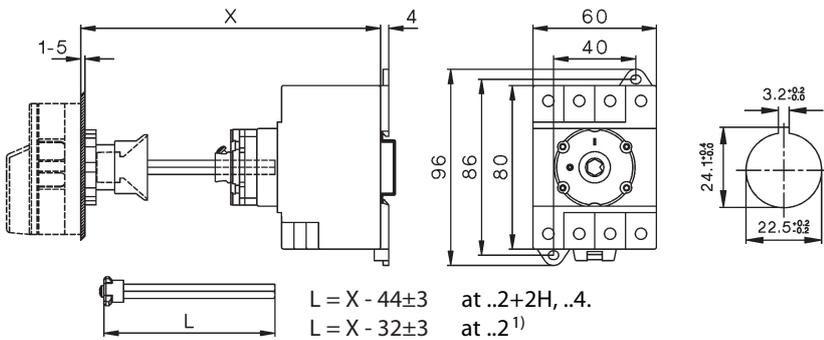


Mounting hole



SI16 BMDC/ES-BMDC, SI25 BMDC/ES-BMDC, SI32 BMDC/ES-BMDC

Mounting hole



delivered with: ..2+2H, ..4. :

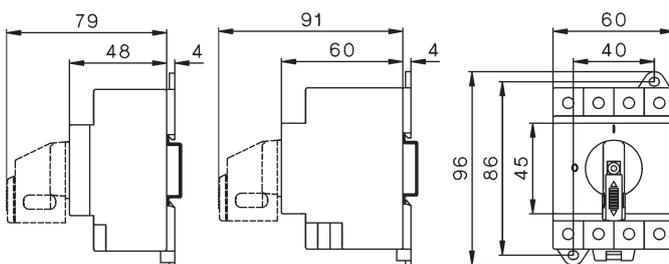
$X_{max.} = 194, L = 150$   
 ( $X_{min.} = 95$ )

delivered with: ..2<sup>1)</sup>:

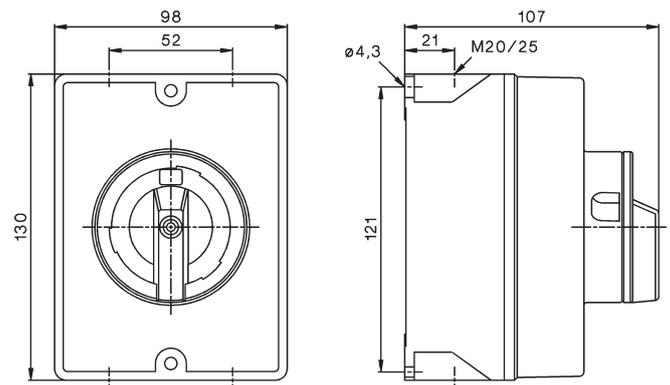
$X_{max.} = 182, L = 150$   
 ( $X_{min.} = 83$ )

greater X-Dimensions on request

SI16 DB/DBL/ES-DB, SI25 DB/DBL/ES-DB, SI32 DB/DBL/ES-DB  
 ..2<sup>1)</sup> ..2+2H, ..4.



SI16 PE/ES-PE, SI25 PE/ES-PE, SI32 PE/ES-PE



1) for delivery starting from 09 2010, otherwise like ..4





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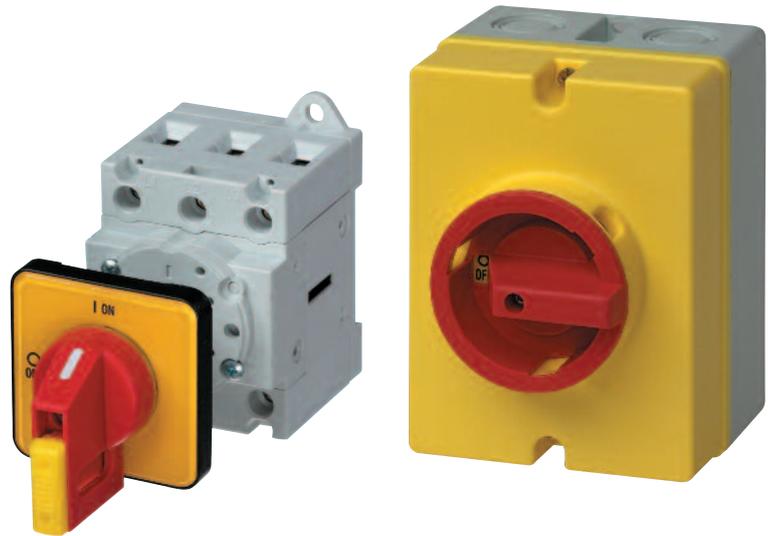
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# Isolators 69 Series



- 3 and 4 pole
- On load 20A - 80A
- Red/yellow or black handles
- 3 padlock positions
- IP65
- Enclosed, DIN rail, base or panel mount versions
- Lightweight ext shafts 100-400mm
- Side mounted auxiliary contacts
- UL approval

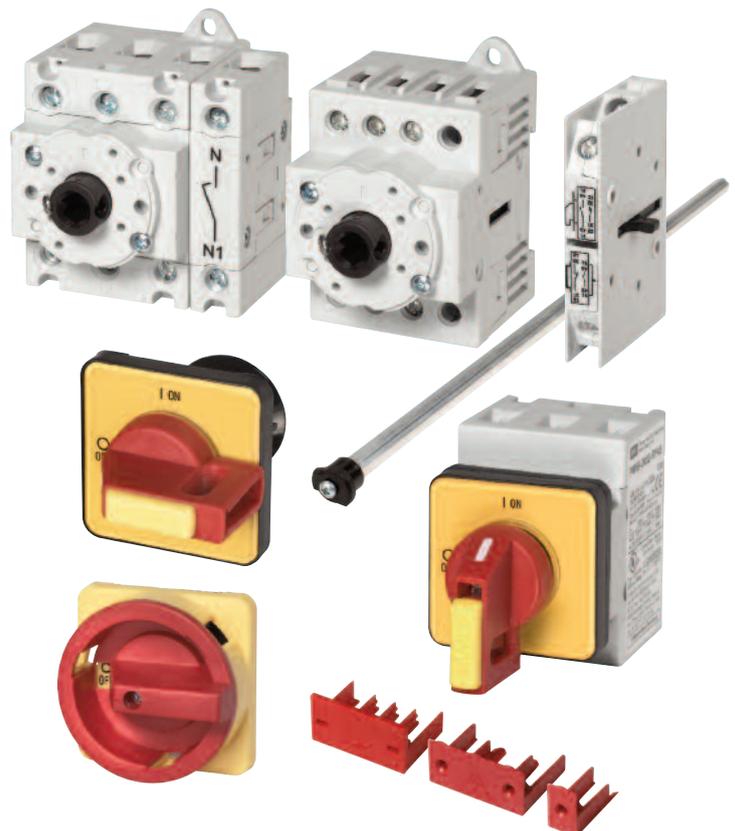


## Options and ordering codes

PM69		-	30		20		RY64		
IP65 enclosed	<b>PE69</b>		3 pole	<b>30</b>	<b>Rating @ 400V</b> AC21/Amps      AC23/kW <hr/> <b>20</b> <b>5.5</b> <hr/> <b>25</b> <b>7.5</b> <hr/> <b>32</b> <b>11</b> <hr/> <b>40</b> <b>15</b> <hr/> <b>63</b> <b>18.5</b> <hr/> <b>80</b> <b>22</b>		<b>RY48</b>	Direct red/yellow 48mm handle	
Base mount door interlock	<b>LB69</b>		4 pole	<b>40</b>			<b>RY64</b>	Direct red/yellow 64mm handle	
Front panel mount	<b>PM69</b>						<b>B48</b>	Direct black 48mm handle	
Direct handle base mounted	<b>DM69</b>						<b>B64</b>	Direct black 64mm handle	
									Enclosed/door interlocked vertical

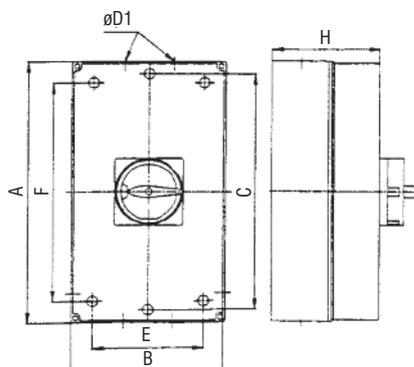
## Accessories

Description	Part ref
Red/yellow handle 64 x 64mm	H69-0001
Black handle 64 x 64mm	H69-0002
Red/yellow handle 48 x 48mm	H69-0003
Black handle 48 x 48mm	H69-0004
Door handle mounting tool	J7409
Extension shaft – 100mm	E69-0001
Extension shaft – 200mm	E69-0002
Extension shaft – 300mm	E69-0003
Extension shaft – 400mm	E69-0004
Auxiliary contacts 1 n/o + 1 n/c	A69-0001
Auxiliary contacts 2 n/o	A69-0002
Solid neutral block SN69-0001	
Add on neutral switching pole 20-40A	SP69-0001
Add on neutral switching pole 63-80A	SP69-0002
Yellow plate – main switch 64mm	EP69-0001
Yellow plate – main switch 48mm	EP69-0002
Auxiliary contacts 1 n/o + 1 n/c	A69-0001
Auxiliary contacts 2 n/o only	A69-0002
Terminal shroud - 40A	TS69-0001
Terminal shroud - 63, 80A	TS69-0002



## Dimensions

Switch Rating	A	B	D1	E	F	H
20A to 40A	130	98	2xM20/25	75	100	77
63A and 80A	200	120	M40.5/ 32.5 + 16.5	95	165	86



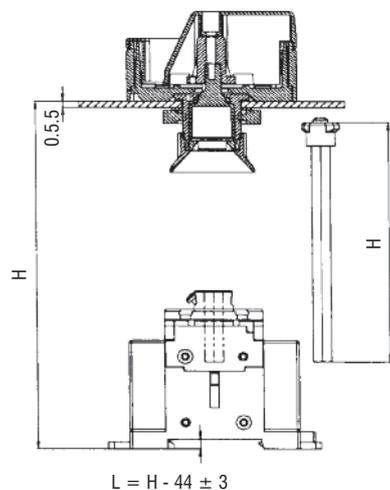
## Specification

PE/LB/PM/DM ...		69-3020 69-4020	69-3025 69-4025	69-3032 69-4032	69-3040 69-4040	69-3063 69-4063	69-3080 69-4080
Rated insulation voltage	Ui	690	690	690	690	690	6
Rated thermal current	I <sub>th</sub>	20A	25A	32A	40A	63A	80A
Ratings @ 415V							
AC21	A	20	25	32	40	63	80
AC22	A	20	25	32	40	63	80
AC23	Kw	5.5	7.5	11	15	18.5	22
Making capacity @ 415V	A <sub>eff</sub>	120	150	220	300	370	44
Breaking capacity @ 415V	A <sub>eff</sub>	110	135	200	250	330	380
Electrical life @ rated load							
Mechanical life	x10 <sup>3</sup>	100	100	100	100	100	100
Maximum cable size	mm <sup>2</sup>	10	10	10	10	25	25
Weight	g	0.46	0.46	0.46	0.46	0.46	0.46

## Dimensions

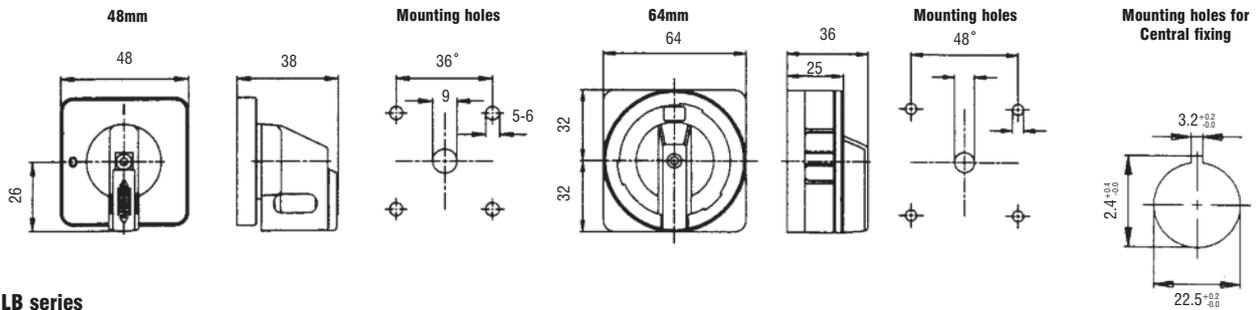
LB Series

H = Base plate to door, L = shaft length

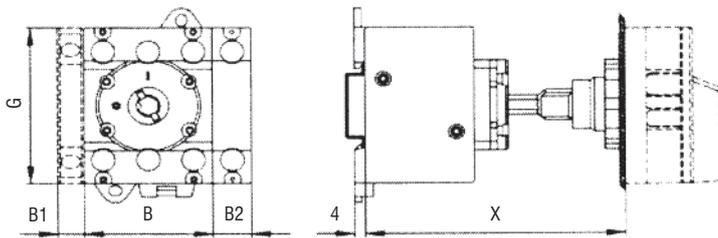


## Dimensions *continued*

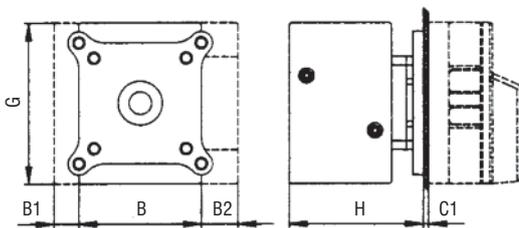
Door interlock levellers 48mm



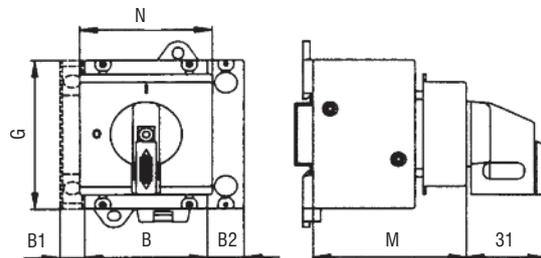
### LB series



### PM series



### DM series

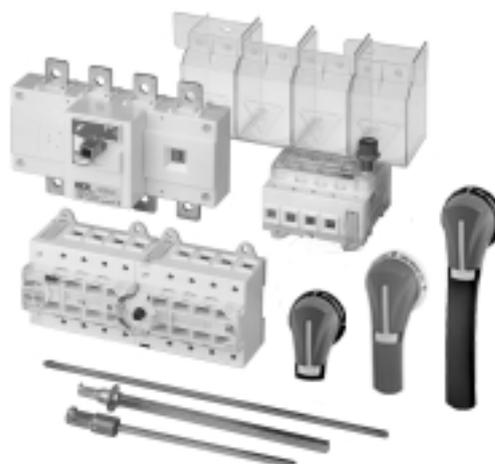


Type	3-pole B	4-pole B	Auxiliary contacts B1	4-pole PE B2	C1	H	M	N
20A to 80A	48	62.5	10	14.5	1-5	54	60	52

# Isolators 79 Series



- On load Isolators to IEC 947-3
- 3, 4, 6 and 8 pole versions
- 63A to 630A
- Door interlocked handles
- 3 padlock positions
- DIN rail and chassis mount versions
- Shaft length 100 - 500mm
- Full range of accessories



## Options and ordering codes

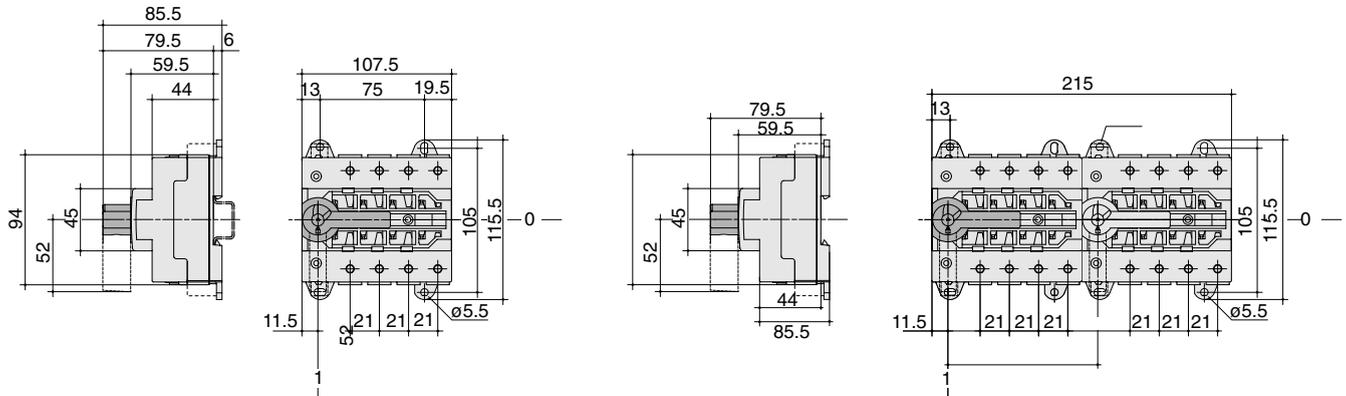
	CM series							MS series						
<b>3 Pole</b>	CM793063	CM793080	CM793100	CM793125	CM793125X	CM793160	CM793200	MS793125	MS793160	MS793200	MS793250	MS793315	MS793400	MS793630
<b>4 Pole</b>	CM794063	CM794080	CM794100	CM794125	CM794125X	CM794160	CM794200	MS794125	MS794160	MS794200	MS794250	MS794315	MS794400	MS794630
<b>6 Pole</b>	CM796063	CM796080	CM796100	CM796125	-	-	-	-	-	-	-	-	-	-
<b>8 Pole</b>	CM798063	CM798080	CM798100	CM798125	-	-	-	-	-	-	-	-	-	-
Rating														
AC21 - 400V Amps	63	80	100	125	125	160	200	125	160	200	250	315	400	630
AC22 - 400V Amps	63	80	100	125	125	160	200	125	160	200	250	315	400	630
AC23 - 400V Amps	63	63	63	63	125	160	200	125	160	200	250	315	400	500
Handles														
Black – Rotary Door Interlock		79H0002				79H0002						-		
Red/Yellow – Rotary Door Interlock		79H0003				79H0003						-		
Black – Pistol Door Interlock		79H1005				79H1005					79H1008			
Red/Yellow – Pistol Door Interlock		79H1006				79H1006					79H1009			
Shaft Extensions														
Rotary Handle versions														
200mm		79E0001				79E0003					-			
400mm		79E0002				79E0004					-			
Pistol Handle														
120mm		-				-					79E1009			
200mm		79E1005				79E1007					79E1010			
250mm		-				-					79E1011			
320mm		-				-					79E1012			
400mm					79E1008						-			
500mm		-				-					79E1013			
Protection Covers														
Upper Terminals 3 pole		N/A				79S0001		79S1002		79S1004			79S1006	
4 pole		N/A				79S0001		79S1010		79S1012			79S1014	
Lower Terminals 3 pole		N/A				79S0001		79S1002		79S1004			79S1006	
4 pole		N/A				79S0001		79S1010		79S1012			79S1014	
Cable Clamps														
3 Pole		-				79C0001					-			
4 Pole		-				79C0002					-			
Auxiliary Contacts														
1st NO + NC		79A0001				79A0001					79A0002			
2nd NO + NC		79A0001				79A0001					79A0003			

## Specification

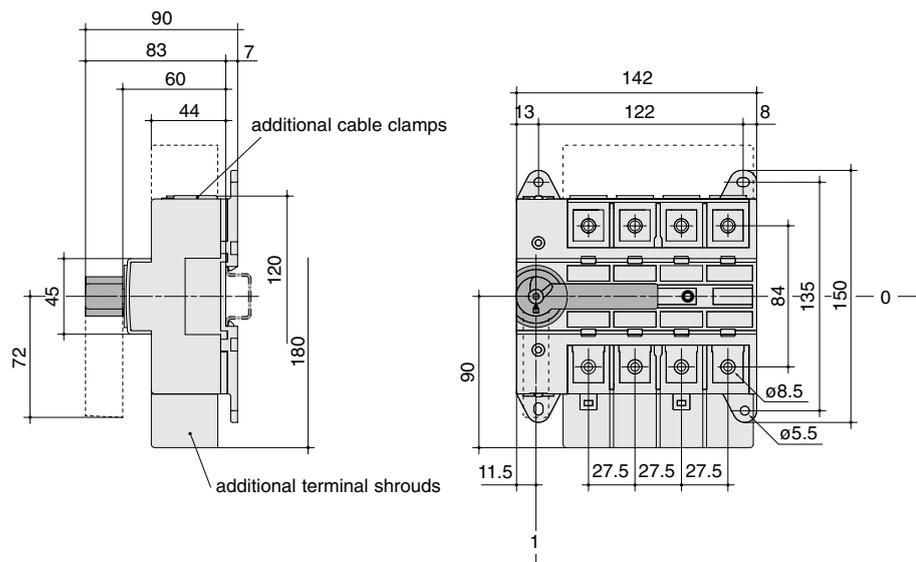
<b>CM79 SERIES</b>		<b>CM793063 CM794063 CM796063 CM798063</b>	<b>CM793080 CM794080 CM796080 CM798080</b>	<b>CM793100 CM794100 CM796100 CM798100</b>	<b>CM793125 CM794125 CM796125 CM798125</b>	<b>CM793125X CM794125X -</b>	<b>CM793160 CM794160 -</b>	<b>CM793200 CM794200 -</b>
Rated insulation voltage	Ui	690	690	690	690	690	690	690
Rated thermal current	Ith	63A	80A	100A	125A	125A	160A	200A
Ratings @ 400VAC								
AC21B	A	63	80	100	125	125	160	200
AC22B	A	63	80	100	125	125	160	200
AC23B	A	63	63	63	63	125	160	200
Making capacity @ 400VAC	AC23B A Rms	630	630	630	630	1250	1600	2000
Breaking capacity @ 400VAC	AC23B A Rms	504	504	504	504	1000	1280	1600
Fuse protected short-circuit withstand (kA Rms prospective)	kA Rms	100	100	100	50	50	50	50
Rated peak withstand current	kA peak	12	12	12	12	16	16	16
Mechanical life		20000	20000	20000	20000	10000	10000	10000
Maximum cable size	mm <sup>2</sup>	35	35	35	35	70	70	70
Weight	Kg 3P	0.6	0.6	0.7	0.7	0.9	0.9	0.9
	Kg 4P	0.7	0.7	0.8	0.8	1	1	1
	Kg 6P	1.2	1.2	1.4	1.4	1.8	1.8	1.8
	Kg 8P	1.4	1.4	1.6	1.6	2	2	2
<b>MS79 SERIES</b>		<b>MS793125 MS794125</b>	<b>MS793160 MS794160</b>	<b>MS793200 MS794200</b>	<b>MS793250 MS794250</b>	<b>MS793315 MS794315</b>	<b>MS793400 MS794400</b>	<b>MS793630 MS794630</b>
Rated insulation voltage	Ui	800	800	800	800	1000	1000	1000
Rated thermal current	Ith	125A	160A	200A	250A	315A	400A	630A
Ratings @ 400VAC								
AC21	A	125	160	200	250	315	400	630
AC22	A	125	160	200	250	315	400	630
AC23	A	125	160	200	250	315	400	500
Making capacity @ 400VAC	AC23 A Rms	1250	1250	2000	2500	3150	4000	4000
Breaking capacity @ 400VAC	AC23 A Rms	1000	1280	1600	2000	2520	3200	4000
Fuse protected short-circuit withstand (kA Rms prospective)	kA Rms	100	100	100	100	100	100	70
Rated peak withstand current	kA peak	7	7	9	9	26	13	13
Mechanical life		10000	10000	10000	10000	5000	5000	5000
Maximum cable size	mm <sup>2</sup>	95	95	95	150	240	240	240
Weight	Kg 3P	1	1.5	2	2	3.5	3.5	3.5
	Kg 4P	1.5	1.5	2	2	4	4	4.5

## Dimensions (mm)

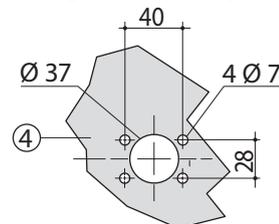
### CM ratings 63-125A



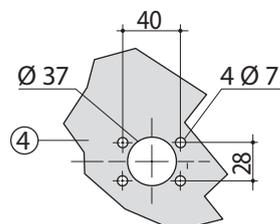
### CM ratings 125X-200A



### Door drilling details for rotary handle

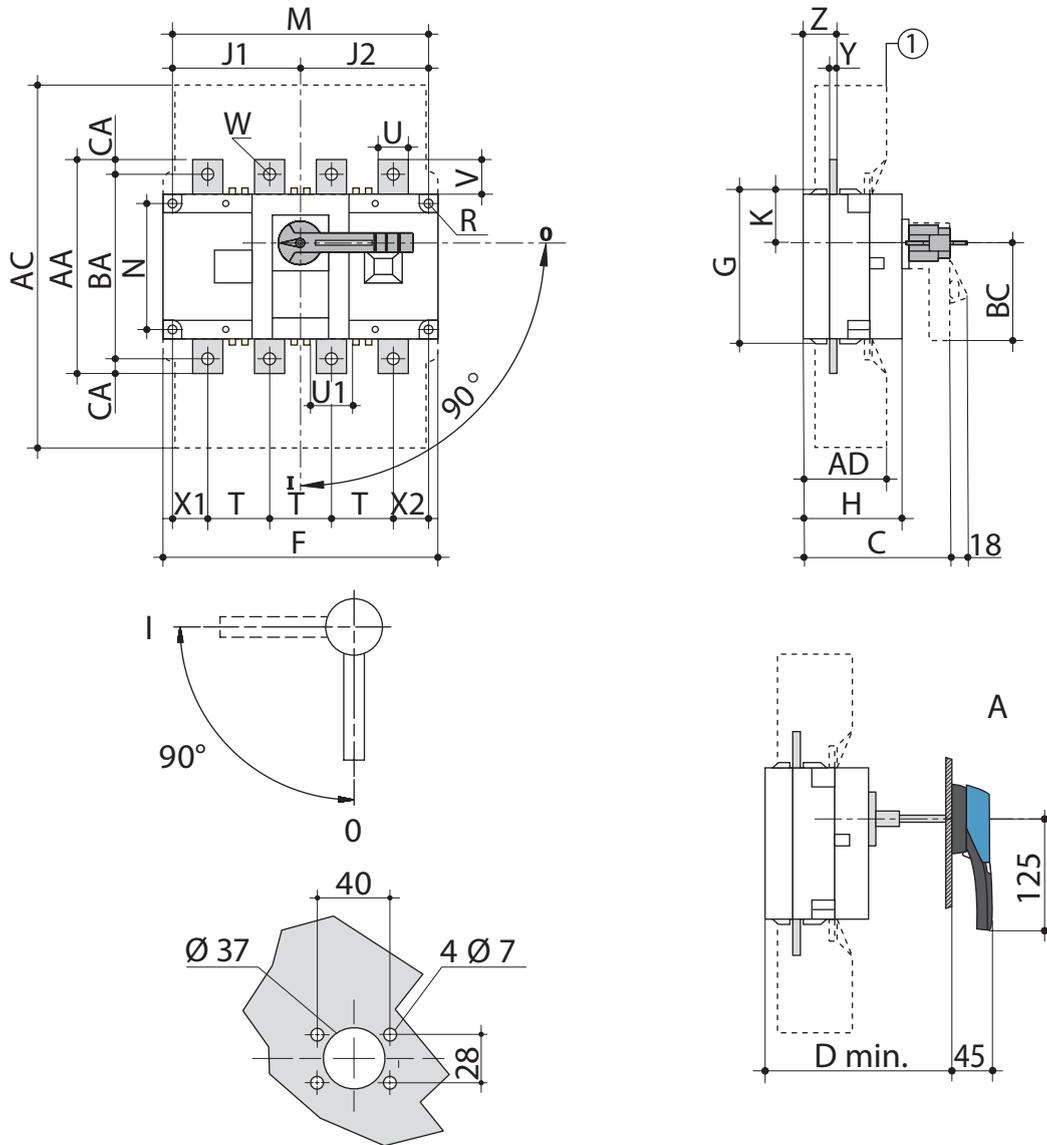


### Door drilling details for pistol handle



## Dimensions (mm)

### MS 125-630A



Rating	Overall dimensions		Terminal shrouds		Switch body										Switch mounting				Connection terminals											
	C	D min.	AC	AD	F 3p.	F 4p.	G	H	J1 3p.	J1 4p.	J2	K	BC	M 3p.	M 4p.	N	R	T	U	U1	V	W	X1 3p.	X1 4p.	X2	Y	Z	AA	BA	CA
125	115	125	235	50	140	170	93	65	45	75	75	31.5	80	120	150	65	5.5	36	20	20.5	25	9	28	22	20	3.5	20.5	135	115	10
160	115	125	235	50	140	170	93	65	45	75	75	31.5	80	120	150	65	5.5	36	20	20.5	25	9	28	22	20	3.5	20.5	135	115	10
200	125	135	280	60	180	230	108	75	55	105	105	34	115	160	210	80	5.5	50	25	25.5	30	11	33	33	27	3.5	22.5	160	130	15
250	125	135	280	60	180	230	108	75	55	105	105	34	115	160	210	80	5.5	50	25	25.5	30	11	33	33	27	3.5	22.5	160	130	15
315	160	165	401	89	230	290	170	110	75	135	135	55	115	210	270	140	7	65	32	45.5	37.5	11	42.5	37.5	37.5	5	36	235	205	15
400	160	165	401	89	230	290	170	110	75	135	135	55	115	210	270	140	7	65	32	45.5	37.5	11	42.5	37.5	37.5	5	36	235	205	15
500	160	165	401	89	230	290	170	110	75	135	135	55	115	210	270	140	7	65	32	45.5	37.5	13	42.5	37.5	37.5	5	36	235	205	15
630	160	165	400	89	230	290	170	110	75	135	135	55	115	210	270	140	7	65	45	45.5	50	13	42.5	37.5	37.5	5	36	260	220	20

# Fuse Switches 79/89 Series



- On load fuse switch to IEC 947-3
- 3 and 4 pole versions
- 20A to 630A
- Door interlocked handles – defeatable
- 3 padlock positions
- DIN rail and chassis mount versions
- Shaft length 100 - 500mm
- Full range of accessories



## Options and ordering codes

	CF Series		SF Series									
3 Pole	CF793020	CF793032	SF893032	SF893063	SF893100	SF893160	SF893200	SF893250	SF893315	SF893400	SF893630	SF893800
4 Pole	CF793N20	CF793N32	SF894032	SF894063	SF894100	SF894160	SF894200	SF894250	SF894315	SF894400	SF894630	SF894800
Rating												
AC21 - 400V Amps	20	32	32	63	100	160	200	250	315	400	630	800
AC22 - 400V Amps	20	32	32	63	100	160	200	250	315	400	630	800
AC23 - 400V Amps	20	32	32	63	100	160	200	250	315	400	630	800
Frame Size	CF89		1	2	3	4	5	5	6	6	7	8
BS88 Fuse size	A1		A2-A3		A4		B1-B2	B1-B3		B1-B4	C1-C2	
Handles												
Black – Rotary Door Interlock	79H1010		-				-				-	
Red/Yellow – Rotary Door Interlock	79H1011		-				-				-	
Black – Pistol Door Interlock	79H1005		79H1005				79H1008				79H1012	
Red/Yellow – Pistol Door Interlock	79H1006		79H1006				79H1009				79H1013	
Shaft Extensions												
Rotary Handle												
200mm	79E1014						-				-	
400mm	79E1015						-				-	
Pistol Handle												
120mm							79E1018				-	
200mm	79E1016						79E1010				79E1019	
250mm	-						79E1011				-	
300mm	-						-				-	
320mm	79E1017						79E1012				-	
450mm	-						-				79E1020	
500mm							79E1013				-	
Protection Covers												
Upper Terminals 3 pole	-				79S0016		79S1018				79S1020	
4 pole	-				79S0017		79S1019				79S1021	
Lower Terminals 3 pole	-				79S0016		79S1018				79S1020	
4 pole	-				79S0017		79S1019				79S1021	
Auxiliary Contacts												
Configurable Aux. Contact												
Block side Mount	-				79A1004						-	
Drive Shaft Kit for above	-				79A1005						-	
Configurable auxiliary block holder (not required for CF series)	-				79A1006						-	
N/O contact for above	79A1007				79A1007						-	
N/C contact for above	79A1008				79A1008						-	
Micro switch auxiliary contacts 1 NO/NC	-				79A1009						79A1011	
Micro switch auxiliary contacts 2 NO/NC	-				79A1010						-	
Micro switch auxiliary contacts 2nd NO/NC	-				-						79A1012	
Neutral Links												
Unswitched neutral link	-		79N1001		79N1002		79N1003		79N1004		-	

## Specification

<b>CF SERIES</b>		<b>CF793020 CF793N20</b>	<b>CF793032 CF793N32</b>	<b>SF893032 SF894032</b>	<b>SF893063 SF894063</b>
Rated insulation voltage	Ui	800	800	690	690
Rated thermal current	Ith	20	32	32	63
Ratings @ 400VAC					
AC22	A	20	32	32	63
AC23	A	20	32	32	63
Fuse size BS88		A1	A1	A1	A2-A3
Making capacity @ 400VAC					
AC23B	A Rms	200	320	320	630
Breaking capacity @ 400VAC					
AC23B	A Rms	160	256	256	500
Rated conditional short-circuit current BS88	kA Rms	80	80	80	100
Fuse switch cut off current	kA peak	6.5	6.5	9	10.6
Mechanical endurance	ops	20000	20000	10000	10000
Maximum cable size	mm <sup>2</sup>	2.5/16	2.5/16	6/25	10/25
Maximum Cu busbar width	mm	-	-	-	-
Maximum Torque Settings					
On terminal bolt/On fuse bolt	(Nm)	2/1.6	2/1.6	5.4/1.57	5.4/2.94
On shaft securing bolt		1.5	1.5	6	6
Weight	3/4P Kg	0.5	0.5	1	1.3

<b>SF79 SERIES</b>		<b>SF893100 SF894100</b>	<b>SF893160 SF894160</b>	<b>SF893200 SF894200</b>	<b>SF893250 SF894250</b>	<b>SF893315 SF894315</b>	<b>SF893400 SF894400</b>	<b>SF893630 SF894630</b>
Rated insulation voltage	Ui	750	750	750	800	750	800	1000
Rated thermal current	Ith	100A	160A	200A	250A	315A	400A	630A
Ratings @ 400VAC								
AC22	A	100	160	200	250	315	400	630
AC23	A	100	160	200	250	315	400	630
Fuse size BS88		*1A4	A4	B1-B2	B1-B3	B1-B3	B1-B4	C1-C2
Making capacity @ 400VAC								
AC23	A Rms	1000	1600	2000	2500	3150	4000	6300
Breaking capacity @ 400VAC								
AC23	A Rms	800	1280	1600	2000	2520	3200	5040
Rated conditional short-circuit current	kA Rms	100	100	80	80	80	80	100
Rated peak withstand current	kA peak	17.6	20	20	32.5	44	44	58
Mechanical life		10000	10000	10000	10000	10000	10000	10000
Maximum cable size	mm <sup>2</sup>	25/95	50/95	50/95	95/240	185/240	185/240	2x150/2x300
Maximum Cu busbar width	mm	20	20	20	32	45	45	50
Maximum Torque Settings								
On terminal bolt/On fuse bolt	(Nm)	12.75/12.75	12.75/12.75	12.75/12.75	25.48/12.75	25.48/12.75	25.48/12.75	44.10/25.48
On shaft securing bolt		6	6	6	6	6	6	-
Weight	3/4P Kg	2	2.3	4.5	4.5	6.1	6.1	19

\*1 Max. Fuse 31mm

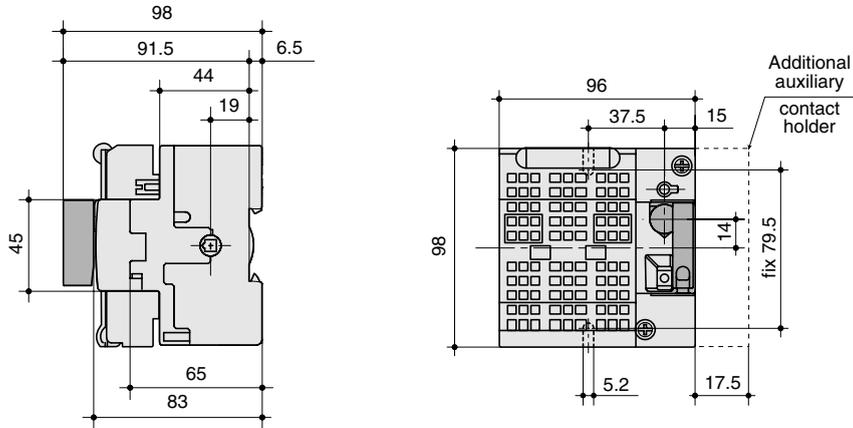
\* Note: Please ensure that the cut off current of the fuse links does not exceed the values given for the fuse switches.

# Fuse Switches 79/89 Series continued

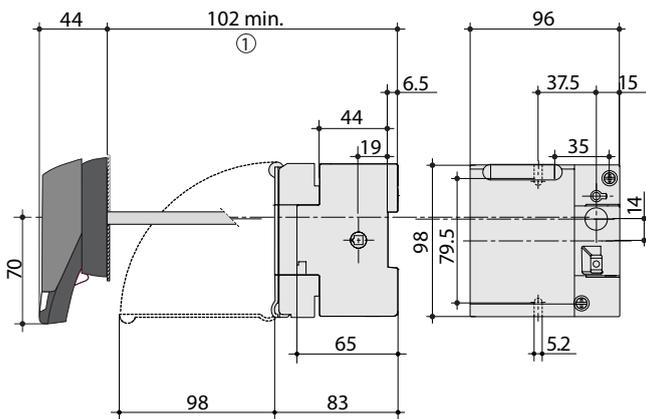


## Dimensions (mm)

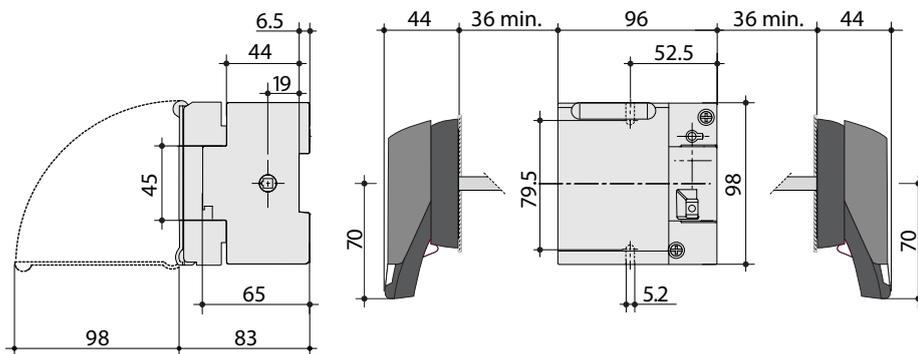
### CF series



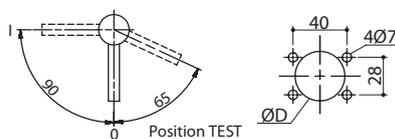
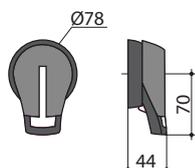
External front operation



Side operation

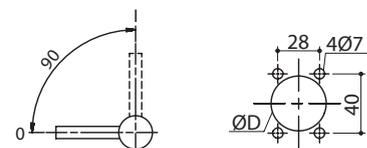


### Door Drilling



Front operation

Conventional fixing (from rear): D = 31 to 37 mm.  
Fast fixing (external, door closed): D = 37 mm.

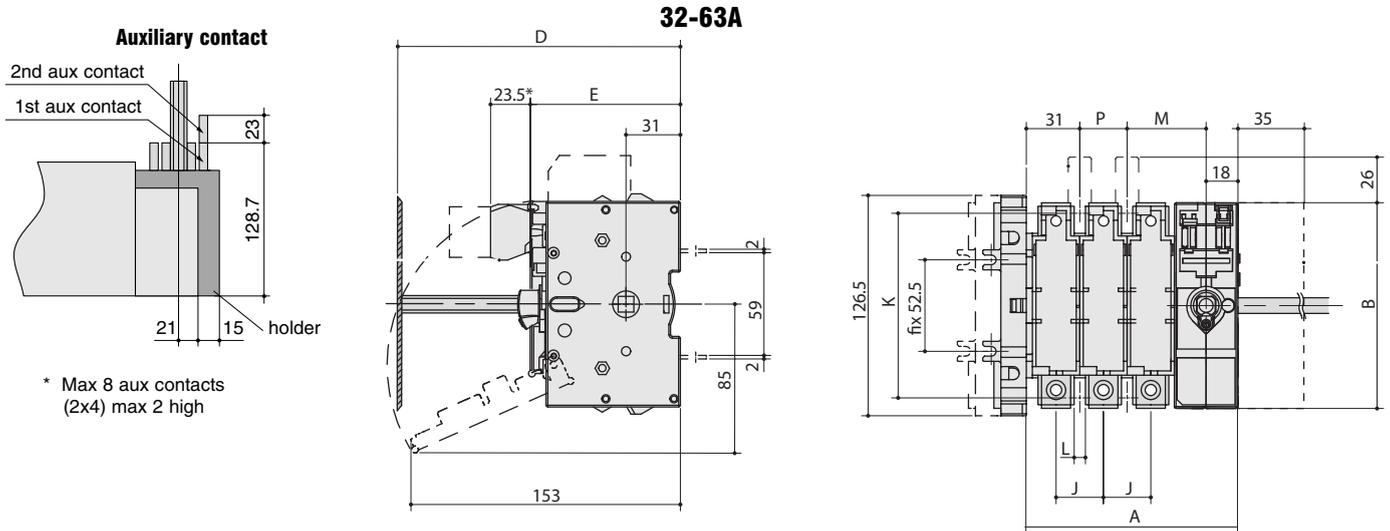


Side operation

Conventional fixing (from rear): D = 31 to 37 mm.  
Fast fixing (external, door closed): D = 37 mm.

## Dimensions (mm)

### SF series

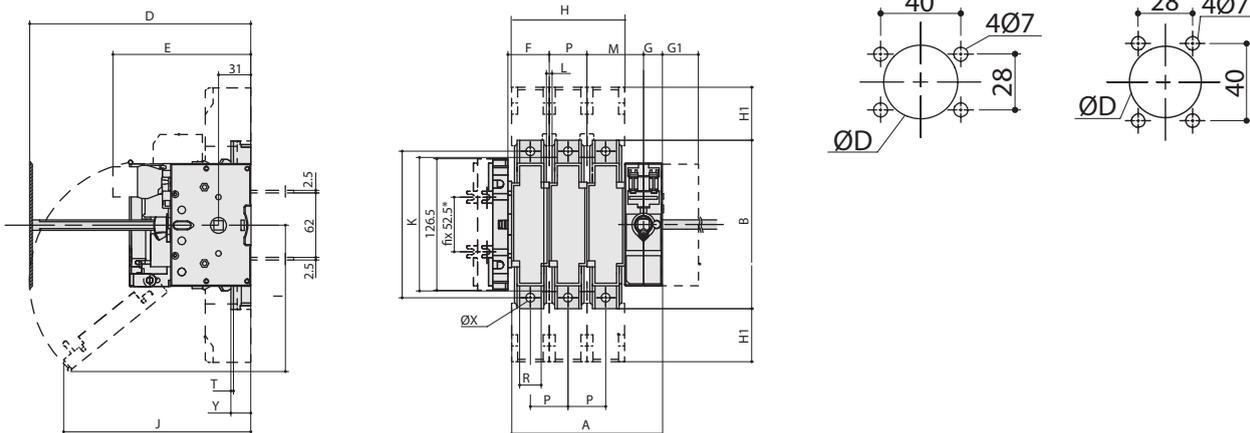


\* Max 8 aux contacts  
(2x4) max 2 high

Frame Size	Fuse Size	No of Poles	Overall Dimensions				Switch Mounting													
			A	B	D min	E	J	K	L	M	P									
	BS 88																			
1	A1	3	121	118	100	87	27	106	6	45	27									
1	A1	4	148	118	100	87	27	106	6	45	27									
2	A2-A3	3	136	118	139	132	32	106	5.4	50	32									
2	A2-A3	4	168	118	139	132	32	106	5.4	50	32									

### 100-400A

### Door drilling



Frame Size	Fuse Size	No of Poles	Overall Dimensions											Switch Mounting				Connection Terminal			
			A	B	D min	E	F	G	G <sub>1</sub>	H	H <sub>1</sub>	I	J	K	L	M	P	R	T	ØX	Y
	BS 88																				
3	A4 Ø31	3	148	162	139	132	40	18	35	130	53	141	179	127	5.4	54	36	20	2.5	8.5	19.5
3	A4 Ø31	4	184	162	139	132	40	18	35	130	53	141	179	127	5.4	54	36	20	2.5	8.5	19.5
4	A4/B1-B2	3	190	162	145	136.5	54	18	35	154	53	174	229	140	5.4	68	50	20	2.5	8.5	19.5
4	A4/A1-B2	4	240	162	145	136.5	54	18	35	154	53	174	229	140	5.4	68	50	20	2.5	8.5	19.5
5	B1/B2-B3	3	234	195	154	146	64	25	35	185	75	185	251	162	6.4	86	60	32	2.5	11	19.5
5	B1/B2-B3	4	294	195	154	146	64	25	35	145	75	185	251	162	6.4	146	60	32	2.5	11	19.5
6	B1 to B4	3	252	205	157	149	70	25	35	202	75	200	260	172	6.4	91	66	50	3	11	20
6	B1 to B4	4	318	205	157	149	70	25	35	202	75	200	260	172	6.4	91	66	50	3	11	20

