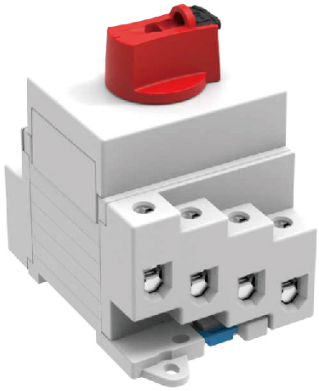
Shanghai NewTrend Electric

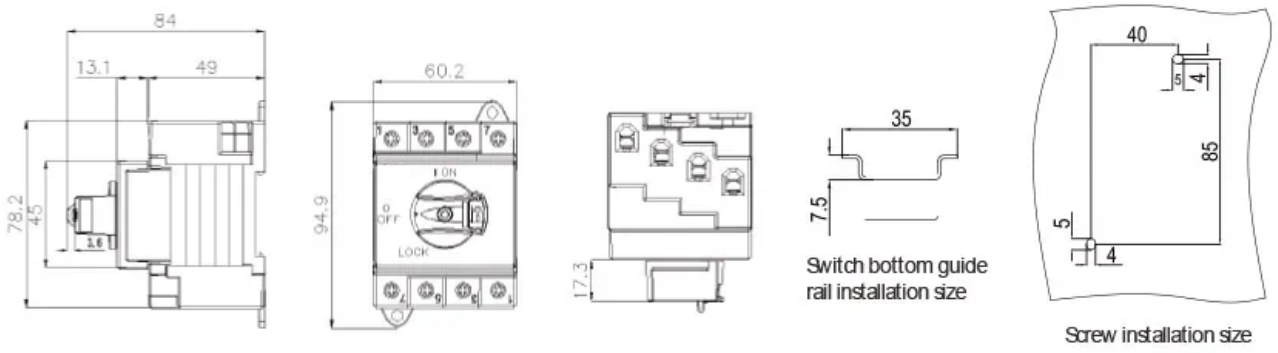
ISO-40 MD · 4-pole DIN-rail PV DC isolator

Four-pole rotary switch-disconnector for photovoltaic DC circuits, with non-polarized contacts and a lockable OFF position. Mount the MD switch body on DIN rail inside a suitable enclosure.



Model	ISO-40 MD
Mounting	DIN rail, unenclosed switch body
Poles	4
Rated operational voltage	1000 V DC for this listing
Rated operational current at 1000 V DC	32 A with all four poles in series on one load
Insulation voltage (Ui)	1500 V
Impulse withstand voltage (Uimp)	8 kV
Utilization categories on the nameplate	DC-PV2 and DC-21B
Switch body protection	IP20
Standard referenced on nameplate	IEC/EN 60947-3
Contact gap per pole	8 mm
Main terminal numbers	1, 3, 5, 7 and 2, 4, 6, 8
Rigid conductors (solid or stranded)	4–16 mm²
Flexible conductors	4–10 mm²
Conductors per terminal	1, prepared before insertion
Stripping length	8 mm
M4 terminal screw torque	1.2–1.8 N·m per the M4 terminal drawing. Check the unit instructions before tightening.

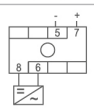
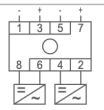
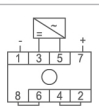
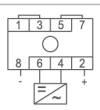
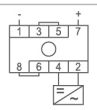
MD mounting, operating currents and wiring



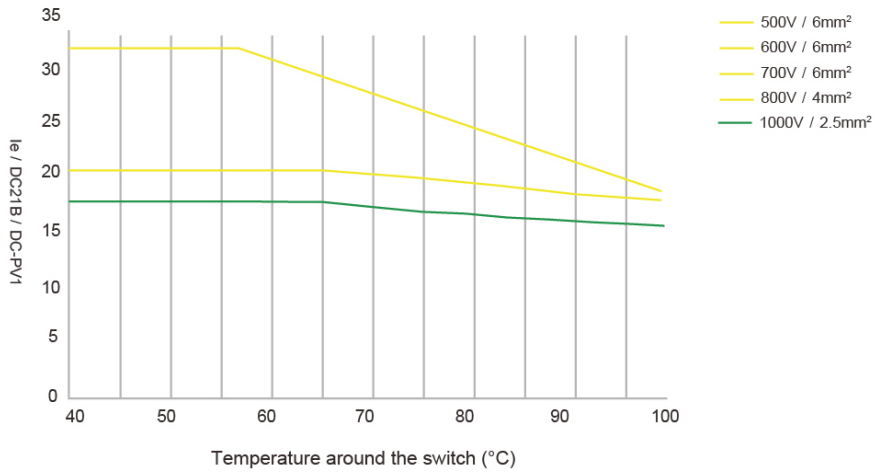
DC voltage	Two loads, two poles in series per load	One load, four poles in series
300 V	32 A	32 A
600 V	32 A	32 A
800 V	16 A	32 A
1000 V	9 A	32 A

The catalogue table compares wiring arrangements under DC-PV2. The listing covers the 1000 V four-pole MD version. Confirm the actual terminal links and derating from the instructions for the supplied switch before installation.

Switching Configurations

Type	2-pole	4-pole	4-pole with Input and Output on top	4-pole with Input and Output bottom	4-pole with Input on top Output bottom
-	2	4	4T	4B	4S
Contacts Wiring graph					
Schematic diagram					

Temperature derating reference · DC-21B / DC-PV1



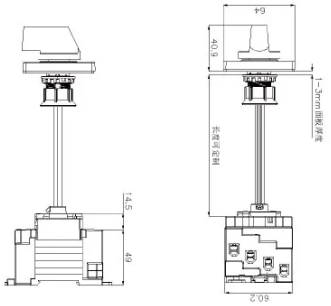
Other mounting versions

Door-interlock and panel-mounted versions have different actuator assemblies and mounting dimensions. Their drawings are provided for comparison. The separate MD-B faceplate variant has a different actuator and should be specified separately.

Door Interlock Dimensions

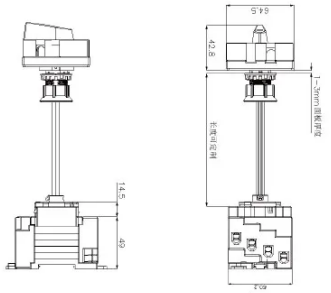


ISO-40 DC/X32/X





ISO-40 DC/X32/XR

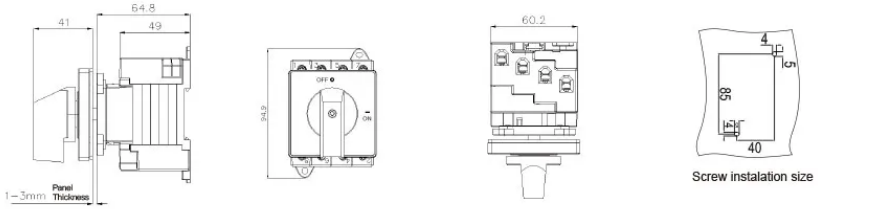




Panel Mounting Dimensions



ISO-40 PM/X32/XR





JISO-40 DC/X32/XR

