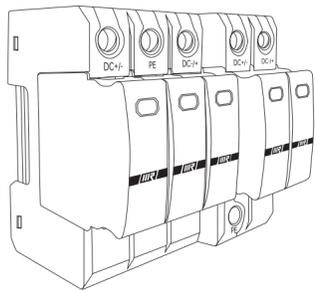


290 mm

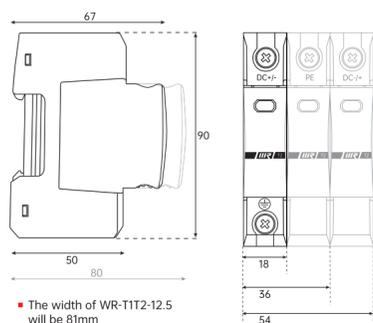
210 mm

BRIEF INSTALLATION INSTRUCTIONS

WRDZ DC SYSTEM SURGE PROTECTIVE DEVICE (SPD)



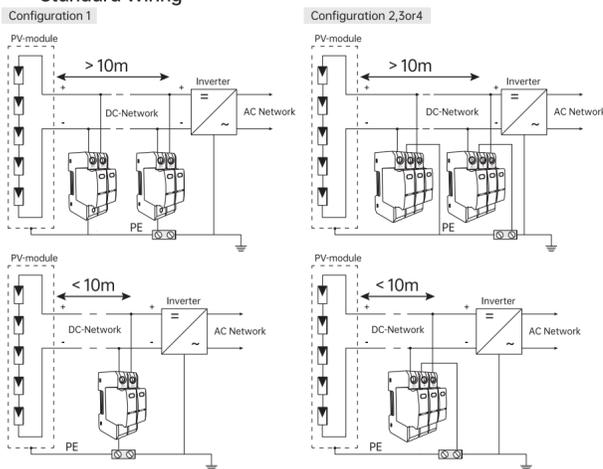
A Dimensions (mm)



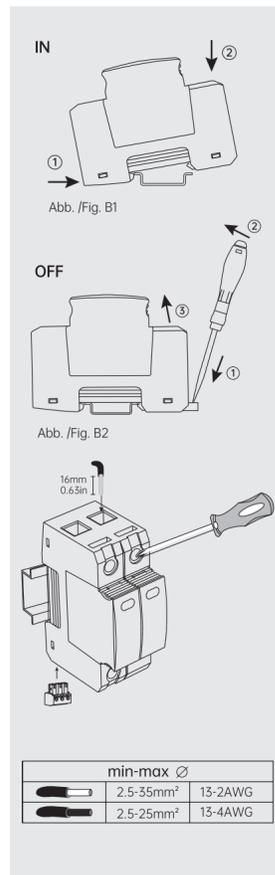
B Technical Data

Model	WR-T1T2-DC/3P-9	WR-T1T2-DC/3P-6.25	WR-T2-DC/2P	WR-T2-DC/3P
Uc	800-1200VDC (50/60 Hz)	800-1200VDC (50/60 Hz)	500-1000VDC (50/60 Hz)	1000-1500VAC (50/60 Hz)
Ii	50 kArms	50 kArms	50 kArms	50 kArms
Iscer	10 kArms	10 kArms	10 kArms	10 kArms
In (8/20 μs)	20kA	20kA	20kA	20 kA
I _{max} (8/20μs)	50kA	50kA	40kA	40 kA
I _{imp} (10/350μs)	9kA	6.25kA		
I _{totac}	18kA	12.5kA	40kA	40kA
max. I ¹⁾	100 A gG	100 A gG	100 A gG	100 A gG
max. I ²⁾	250 A gG	250 A gG	250 A gG	250 A gG
Tu	-40°C ... + 80°C			
I _{FE}	<< 10 μA	<< 10 μA	<< 10 μA	<< 10 μA
IP Degree	IP20	IP20	IP20	IP20
LxWxH	90x54x81mm	90x54x67mm	90x36x67mm	90x36x67mm
min. CL1, L2, L3, N, PE ↓		6mm ²		
max. CL1, L2, L3, N, PE ↓		35mm ²		
	16mm ² Cu	16mm ² Al	16mm ² Al	>15.5mm

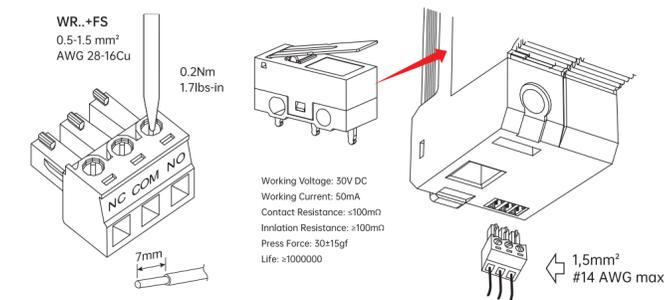
C Standard Wiring



D Mounting And Demounting



E monitoring and maintenance



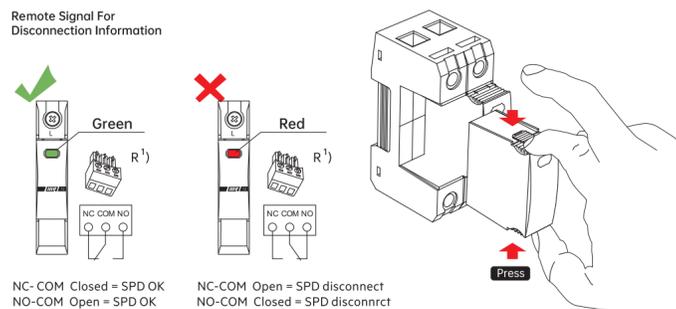
en Safety Instructions

- DANGER**: Risk of electric shock! Before commencing work, disconnect the power supply to the device and secure it against being switched on again.
- WARNING**: The device is an "open-type" device. The device must be installed in electrical equipment rooms or in closed enclosures (e.g. control cabinet).
- ATTENTION**: The device must not be opened, modified or converted. The device must not be installed if it is damaged or other defects have been identified.

Intended Use
The WR series device is a combined lightning and surge protection device of type 1+2 / type 2. The device meets the local and national requirements of the National Electrical Code. The device protects consumer installations in the low-voltage range against lightning and surges, such as can occur as a result of an atmospheric discharge (thunderstorm) or switching operations.

- Mounting and demounting**
- Clip the device on to a 35 mm DIN mounting rail (Fig. B1).
 - Dismantle the device by releasing the clip-in foot using a screwdriver (Fig. B2).

F Remote contact wiring (option)



- Installation**
The electrical system must be installed in accordance with the general rules of electrical engineering and by qualified specialists.
- Observe IEEE Greenbook standard 142.
 - Observe local electrical codes.
 - Install the surge protection device as close as possible to the device to be protected.
 - Keep the cable lengths as short as possible.
 - Observe the PE cabling specifications set out in IEC 61643-31 and DIN VDE 0100-534 (Fig. E).
 - The PE connection of the device must be earthed via a copper cable with a cross-section of at least 6 mm² or a cable with an equivalent conductivity value.

The minimum distance between the device and an earthed, conductive mounting surface is 0 mm.

Functional description
The device has a protective function (see "Intended use"). The status of the protective function is indicated by the colour of the viewing window:
- green or yellow = OK, protective function is working
- red = defective, no protective function

ATTENTION Risk of electric shock!
The surge arrester has no separating function. The device to be protected is still live even if the status indicator in the viewing window is red.

- Maintenance**
- Disconnect the surge protection device from the system before carrying out an insulation test.
 - If the status indicator in the viewing window is red (Fig. C), replace the surge arrester.