




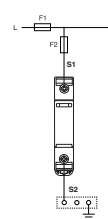
Please read the following before installing your Surge Protective Device:

- Verify the system voltage and configuration on the label if it is appropriate for the application.
- Risk of Electric Shock – Installation and maintenance should be performed by qualified personnel only.
- Disconnect from energized circuits before installing or servicing.
- Safety rules and regulations applicable to all devices connected to power lines should always be followed. National standards and safety regulations must be followed.
- The external mechanical integrity of the device must be checked before installation. Products with visible damage should not be installed.
- Its use is only permitted within the limits shown and stated in these installation instructions. Opening or tampering with the device invalidates the warranty.
- Connecting leads shall be kept as short as possible, without loops and not exceed 0.5m in total length per SPD.
- The minimum distance of the SPD from any earthed conductive surface at which the SPD can be installed is 0mm.

Product name	SA-11-50-1P, SA-11-150-3P	
U_n	AC (50-60Hz)	240V + 6%
U_c	AC	300V
U_p		1500V
I_n (8/20)		20kA
I_{max} (8/20)		50kA
I_{SCCR} / Back-up fuse (per IEC 61643-11)		50kA / 250A gG fuse 25kA / 315A gG fuse
I_{FE}		≤ 0.400mA

T_a	-40°C to +70°C / 85°C [-40°F to +158°F / 185°F]	
RH	5%...95%	
Mounting	35mm DIN rail, EN 60715	
Altitude (max)	13123 ft [4000 m]	
Location / Number of ports	Indoor / 1	
IP	20 (built-in)	
	18mm	ø min 1.5mm2 / ø max 35mm2 [ø min 16 AWG / ø max 2 AWG]
	18mm	ø min 1.5mm2 / ø max 25mm2 [ø min 16 AWG / ø max 4 AWG]
	10mm	ø min 0.25mm2 / ø max 1.5mm2 [ø min 24 AWG / ø max 16 AWG]

Backup fuse

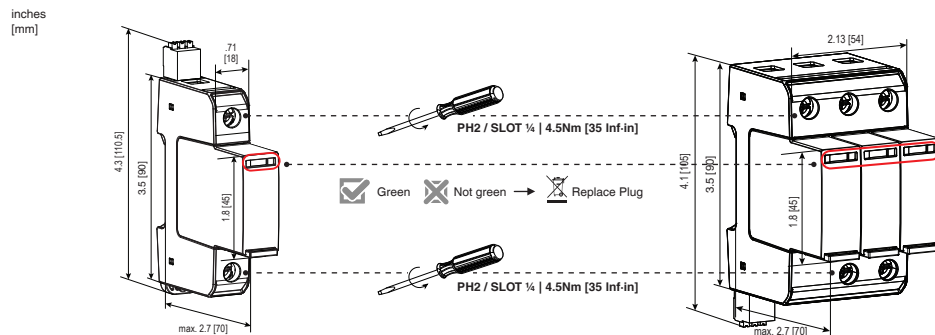


Protection against short circuit & Recommended conductor cross section

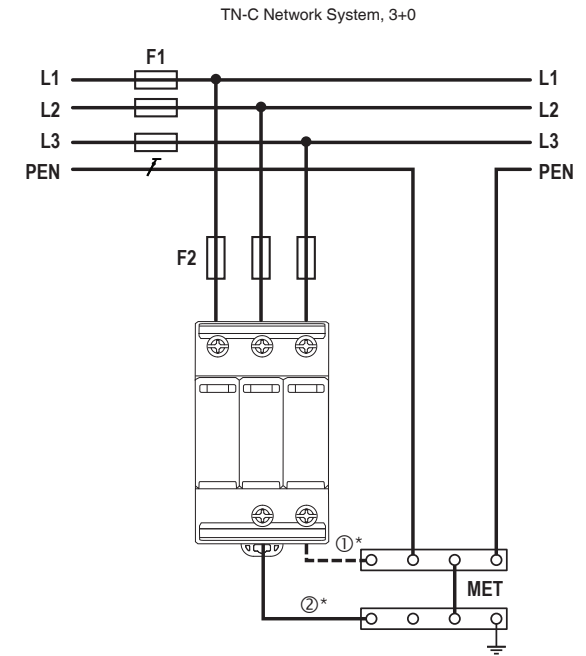
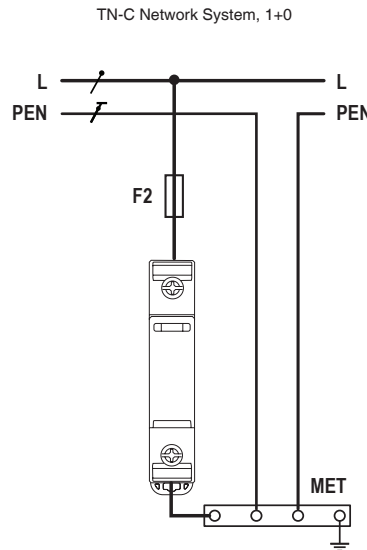
	$I_{SCCR} = 50kA$		$I_{SCCR} = 25kA$			
	F1 ≤ 250A gG	F1 > 250A gG	F1 ≤ 315A gG	F1 > 315A gG		
F1	F1 ≤ 250A gG	F1 > 250A gG	F1 ≤ 315A gG	F1 > 315A gG		
F2	F2 not needed	F2 ≤ 250A gG	F2 not needed	F2 ≤ 315A gG		
F1	≤ 40A	63A — 80A	100A — 125A	160A — 200A	>250A	>315A
F2	-	-	-	-	≤ 250A	≤ 315A
S1	6mm ²	10mm ²	25mm ²	25mm ²	25mm ²	25/35mm ²
S2	6mm ²	10mm ²	25mm ²	25mm ²	25mm ²	25mm ²

NOTE: If the I_{SCCR} is declared higher than 50kA up to 100 kA use 160A gG fuse.

Dimensions & Fault Indication



Network Connection



Legend:

/ N Neutral
/ PEN Protective Earth

* If Ⓣ > 0.5m add connection ①.

Mode of protection & Conductor sizes

Mode of protection

1+0	L-N, L-PEN, L-PE, N-PE (only TN-S)
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SPD Conductor min. cross section

↓ PE / PEN	SPD Earthing Conductor	ø min 6mm ²
L / N	SPD Live Conductor	ø min 2.5mm ²