

DC Surge Protective Device

SLP40-DCxxx/2(S)

Class II • Type 2



Location of Use: String box, Inverter
 Network Systems: (DC+/-)-PE, (DC-/+)-PE
 Surge Ratings: $I_n = 20 \text{ kA (8/20 } \mu\text{s)}$
 $I_{\text{total}} = 40 \text{ kA (8/20 } \mu\text{s)}$
 IEC/EN Category: Class II / Type 2
 Protective Elements: High Energy MOV
 Housing: Pluggable Design
 Compliance: IEC/EN 61643-41

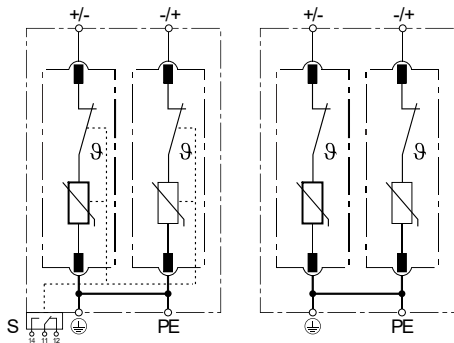
Technical Data

SLP40-DCxxx/2(S)		100	125	150	180	275	350	460
IEC Electrical								
Rated Operational DC Voltage	U_o / U_n	75 Vdc	95 Vdc	100 Vdc	130 Vdc	220 Vdc	280 Vdc	350 Vdc
Maximum Continuous Operating DC Voltage (DC+)-PE, (DC-)-PE	U_{dc}	100 Vdc	125 Vdc	150 Vdc	180 Vdc	275 Vdc	350 Vdc	460 Vdc
Nominal Discharge Current (8/20 μs)	I_n				20 kA			
Total Discharge Current (8/20 μs)	I_{total}				40 kA			
Maximum Discharge Current (8/20 μs)	I_{max}				40 kA			
Voltage Protection Level (DC+)-PE, (DC-)-PE	U_p	550 V	600 V	800 V	900 V	1000 V	1500 V	1800 V
Residual Current at U_{dc}	I_{PE}				< 0.5 mA			
Response Time	t_A				< 25 ns			
Number of Ports					1			
Mechanical & Environmental								
Operating Temperature Range	T_a				-40 °F to +158 °F [-40 °C to +70 °C]			
Permissible Operating Humidity	RH				5% to 95%			
Atmospheric Pressure and Altitude					80 kPa to 106 kPa / -500 m to 2000 m			
Terminal Screw Torque	M_{max}				39.9 lbf-in [4.5 Nm]			
Conductor Cross Section (max.)					2 AWG (Solid, Stranded) / 4 AWG (Flexible)			
					35 mm ² (Solid, Stranded) / 25 mm ² (Flexible)			
Mounting					35 mm DIN Rail, EN 60715			
Degree of Protection					IP20 (built-in)			
Housing Material					Thermoplastic: Extinguishing Degree UL 94 V-0			
Thermal Protection					Yes			
Operating State / Fault Indication					Green ok / Red defect			
Remote Contacts (RC)					Optional			
RC Switching Capacity					AC: 250 V / 0.5 A; DC: 250 V / 0.1 A; 125 V / 0.2 A; 75 V / 0.5 A			
RC Conductor Cross Section (max.)					16 AWG (Solid) / 1.5 mm ² (Solid)			
Order Information								
Ordering Code		100	125	150	180	275	350	460
SLP40-DCxxx/2		4010021	4012521	4015025	4018021	4027525	4035021	4046021
SLP40-DCxxx/2S (with remote contacts)		4010022	4012522	4015026	4018022	4027526	4035022	4046022
SLP40-DCxxx/0 (spare modules)		4010002	4012502	4015002	4018002	4027502	4035002	4046002

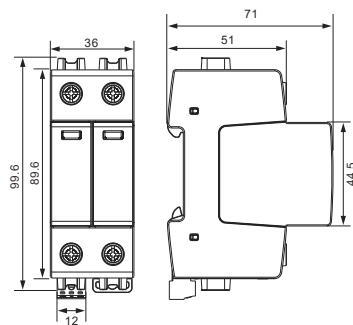


Internal Configuration

- Legend
- ⊕ PE/G Conductor Terminal
 - S Signalling Contacts Optional



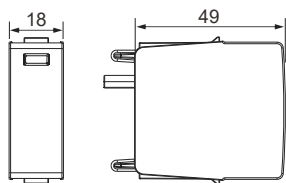
Dimensions & Packaging



[mm]

Complete Unit							
SLP40-DCxxx/2(S)	100	125	150	180	275	350	460
DIN 43880 Dimension	1 CTN						
Packaging Dimensions (H x W x L)	[260 × 220 × 330 mm]						
Standard Order Quantity	48 Units						

Spare Plug



Single Unit							
SLP40-DCxxx/0	100	125	150	180	275	350	460
DIN 43880 Dimension	1 CTN						
Packaging Dimensions (H x W x L)	[260 × 220 × 330 mm]						
Standard Order Quantity	120 Units						

Connection Diagram

