

DC Surge Protective Device

SLP20-DCxxx/2(S)

Class II • Type 2



Location of Use: String box, Inverter
 Network Systems: (DC+/-)-PE, (DC-/+)-PE
 Surge Ratings: $I_n = 10 \text{ kA (8/20 } \mu\text{s)}$
 $I_{\text{total}} = 20 \text{ kA (8/20 } \mu\text{s)}$
 IEC/EN Category: Class II / Type 2
 Protective Elements: High Energy MOV
 Housing: Pluggable Design
 Compliance: IEC/EN 61643-41

Technical Data

SLP20-DCxxx/2(S)

24

38

IEC Electrical

Rated Operational DC Voltage	U_o / U_n	12 Vdc	24 Vdc
Maximum Continuous Operating DC Voltage (DC+)-PE, (DC-)-PE	U_{dc}	24 Vdc	38 Vdc
Nominal Discharge Current (8/20 μs)	I_n	10 kA	
Total Discharge Current (8/20 μs)	I_{total}	20 kA	
Maximum Discharge Current (8/20 μs)	I_{max}	20 kA	
Voltage Protection Level (DC+)-PE, (DC-)-PE	U_p	250 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)	

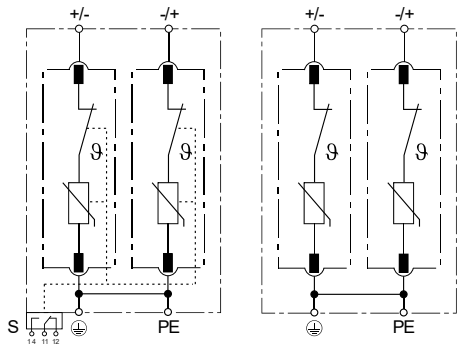
Order Information

Ordering Code	24	38
SLP20-DCxxx/2	2002421	2003821
SLP20-DCxxx/2S (with remote contacts)	2002422	2003822
SLP20-DCxxx/0 (spare modules)	2002402	2003802

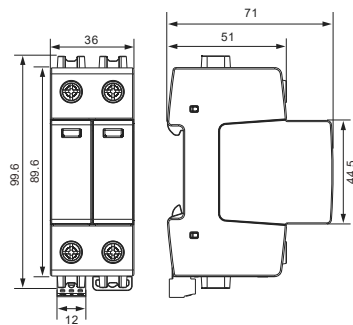


Internal Configuration

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



Dimensions & Packaging

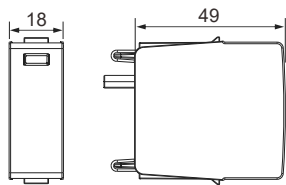


[mm]

Complete Unit

SLP20-DCxxx/2(S)	24	38
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

SLP20-DCxxx/0	24	38
DIN 43880 Dimension	1 CTN	
Packaging Dimensions (H x W x L)	[260 × 220 × 330 mm]	
Standard Order Quantity	120 Units	

Connection Diagram

