

## 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:  $I_n = 10 \text{ kA (8/20 } \mu\text{s)}$   
 $I_{total} = 20 \text{ kA (8/20 } \mu\text{s)}$   
 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	
<b>IEC Electrical</b>			
Rated Operational DC Voltage	$U_o / U_n$	12 Vdc	24 Vdc
Maximum Continuous Operating DC Voltage (DC+)-PE, (DC-)-PE	$U_{cdc}$	24 Vdc	38 Vdc
Nominal Discharge Current (8/20 $\mu\text{s}$ )	$I_n$	10 kA	
Total Discharge Current (8/20 $\mu\text{s}$ )	$I_{total}$	20 kA	
Maximum Discharge Current (8/20 $\mu\text{s}$ )	$I_{max}$	20 kA	
Voltage Protection Level (DC+)-PE, (DC-)-PE	$U_p$	250 V	
Residual Current at $U_{cdc}$	$I_{PE}$	< 0.2 mA	
Response Time	$t_A$	< 25 ns	
Number of Ports		1	
<b>Mechanical &amp; Environmental</b>			
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 <sup>2</sup> (Solid, Stranded) / 25 mm <sup>2</sup> (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 <sup>2</sup> (Solid)	
<b>Order Information</b>			
Ordering Code	24	38	
SLP20-DCxxx/2	2002421	2003821	
SLP20-DCxxx/2S (with remote contacts)	2002422	2003822	
SLP20-DCxxx/0 (spare modules)	2002402	2003802	

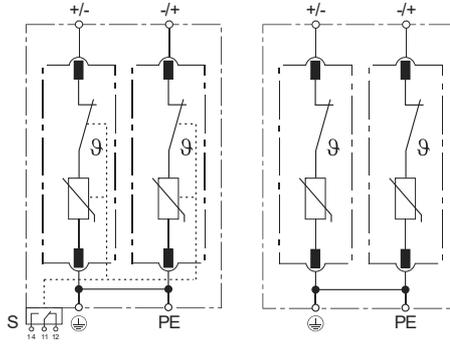


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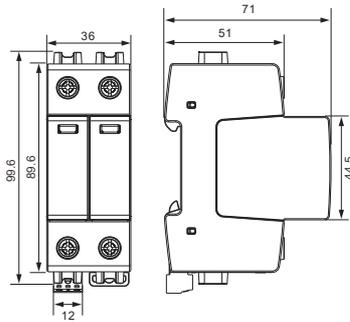
### Internal Configuration

#### Legend

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



### Dimensions & Packaging

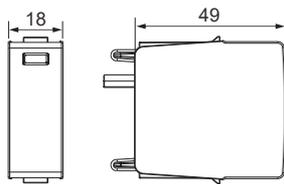


[mm]

#### 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

