

PV Surge Protective Device

SLP-PV2000/(S)

Class II • Type 2



Location of Use: String box, Inverter
 Mode of Protection: (DC+)-PE, (DC-)-PE
 Surge Ratings: $I_n = 20 \text{ kA (8/20 } \mu\text{s)}$
 $I_{\text{max}} = 40 \text{ kA (8/20 } \mu\text{s)}$
 IEC/EN Category: Class II / Type 2
 Protective Elements: High Energy MOV
 Housing: Pluggable Design
 Compliance: IEC 61643-31:2018
 EN 61643-31:2019

Technical Data

SLP-PV2000/(S)

2000

IEC Electrical

Maximum Continuous Operating DC Voltage	(DC+)-PE, (DC-)-PE	U_{cpl}	2000 V
	(DC+)-(DC-)	U_{cpl}	2000 V
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	6.5 kV
	(DC+)-(DC-)	U_p	6.5 kV
Residual Current at U_c		I_{PE}	< 0.5 mA
Response Time		t_A	< 25 ns
Short-Circuit Current Rating		I_{SCPV}	1 kA
Number of Ports			1

Mechanical & Environmental

Operating Temperature Range	T_a	-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}	4.5 Nm
Conductor Cross Section (max.)		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.)		1.5 mm ² (Solid)

Order Information

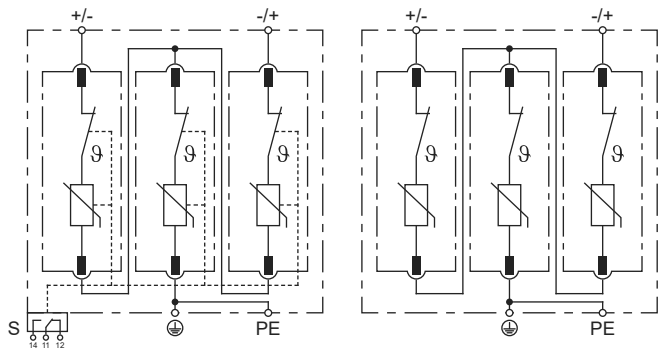
Ordering Code	2000
SLP-PV2000	4020231
SLP-PV2000/S (with remote contacts)	4020232
SLP-PV2000/0 (spare modules)	4020202



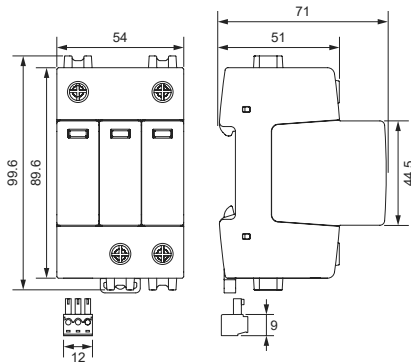
SLP-PV2000/(S)

Internal Configuration

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



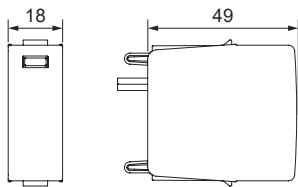
Dimensions & Packaging



[mm]

Complete Unit	
SLP-PV2000/(S)	2000
DIN 43880 Dimension	1 CTN
Packaging Dimensions (H x W x L)	[260 x 220 x 330 mm]
Standard Order Quantity	30 Units

Spare Plug



Single Unit					
SLP-PV2000/0	150	275	320	385	440
DIN 43880 Dimension	1 CTN				
Packaging Dimensions (H x W x L)	[260 x 220 x 330 mm]				
Standard Order Quantity	120 Units				

Connection Diagram

TN-C (Three-phase, 3+0)

