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 kA (8/20 µs)
I_{max} = 40 kA (8/20 µs)
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

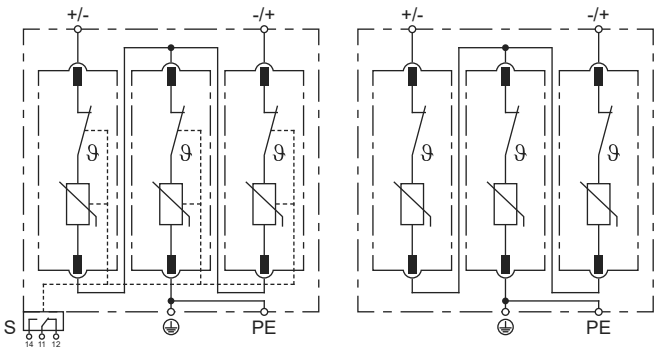
SLP-PV2000/(S)			2000
IEC Electrical			
Maximum Continuous Operating DC Voltage	(DC+)-PE, (DC-)-PE	U_{cpv}	2000 V
	(DC+)-(DC-)	U_{cpv}	2000 V
Nominal Discharge Current (8/20 µs)		I_n	20 kA
Total Discharge Current (8/20 µs)		I_{total}	40 kA
Maximum Discharge Current (8/20 µs)		I_{max}	40 kA
Voltage Protection 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

CE

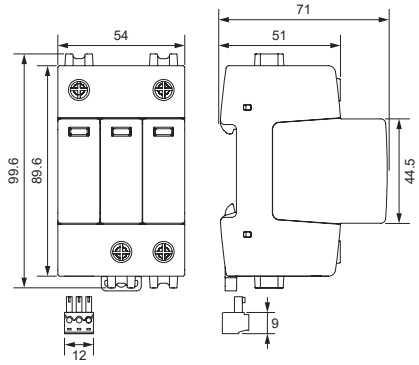
Internal Configuration

Legend

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



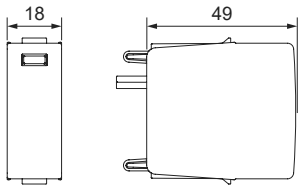
Dimensions & Packaging



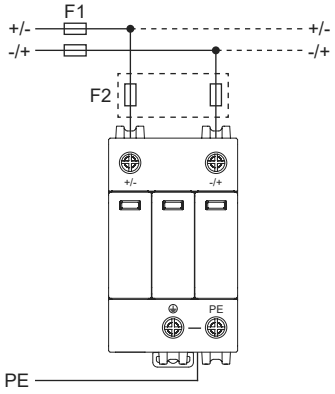
[mm]

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

Spare Plug



Single Unit	
SLP-PV2000/0	2000
DIN 43880 Dimension	1 CTN
Packaging Dimensions (H x W x L)	[260 × 220 × 330 mm]
Standard Order Quantity	120 Units

Connection Diagram

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