

DATASHEET

Pluggable Multi-Pole SPD for Photovoltaic Systems	
OVP I 3+0 R PV 1100V DC/6.25kA	
Class I - Class II - Type 1 - Type 2	
Location of Use:	String box, Inverter
Mode of Protection:	(+) - PE, (-) - PE, (+) - (-)
Protective Elements:	High Energy MOV
Housing:	Pluggable Design
Compliance:	IEC 61643-31:2018
	EN 61643-31:2019



OVP I 3+0 R PV 1100V DC/6.25kA		1100
U_{CPV}	Maximum Continuous Operating DC Voltage	1100 V
I_n	Nominal Discharge Current (8/20 μ s)	20 kA
I_{imp}	Impulse Discharge Current (10/350 μ s)	6.25 kA
W/R	Specific Energy	9.77 kJ/ Ω
Q	Charge	3.125As
I_{Total}	Total Discharge Current (10/350 μ s)	12.5 kA
I_{Total}	Total Discharge Current (8/20 μ s)	50 kA
I_{max}	Maximum Discharge Current (8/20 μ s)	40 kA
U_p	Voltage Protection Level (+) - PE, (-) - PE, (+) - (-)	3800 V
t_A	Response Time	< 25 ns
I_{SCP}	Short-Circuit Current Rating	11 kA
	Number of Ports	1
T_a	Operating Temperature Range	-40 °F to +185 °F
		-40 °C to +85 °C
RH	Permissible Operating Humidity	5%...95%
	Altitude (max)	13123 ft [4000 m]
M_{max}	Terminal Screw Torque	40 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	IP 20 (built-in)
	Housing Material	Thermoplastic: Extinguishing Degree UL 94 V-0
	Thermal Protection	Yes
	Operating State / Fault Indication	Green Flag / Not Green Flag
	Remote Contacts (RC)	Optional
	RC Switching Capacity	AC: 250 V / 1A, 125 V / 1 A; DC: 48 V / 0.5 A, 24 V / 0.5 A, 12 V / 0.5 A
	RC Conductor Cross Section (max)	16 AWG (Solid) / 1.5 mm ² (Solid)

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Internal Configuration		Dimension drawing inches [mm]
+/-, -/+	+ or - G Conductor Terminal	
	PE/G Conductor Terminal	
RC	Remote Contacts Terminal (optional)	
TD	Thermal Disconnect	
Order Information		
1761	OVP I 3+0 R PV 1100V DC/6.25kA	59.A485
Packaging Information Complete Unit		
OVP I 3+0 R PV 1100V DC/6.25kA		
Weight	pounds [grams]	.943 [428]
DIN 43880 Dimension		3 TE / 2.13" [54]
Packaging Dimensions (HxWxL)		4.3 x 4.5 x 13.8" [109 x 115 x 352 mm]
Standard Order Quantity		5 Units