

ProTec T2-PV 2+0

Type 2



Location of Use: String box, Inverter
 Mode of Protection: (+)-PE, (-)-PE
 Surge Ratings: $I_n=20\text{ kA}$ (8/20 μs)
 EN Category: Type 2
 Housing: Pluggable Design
 Compliance: EN 50539-11:2013+A1:2014

Technical Data

ProTec T2-xxxPV-2+0(-R)

600

EN Electrical

Maximum Continuous Operating DC Voltage	U_{CPV}	600 V
Nominal Discharge Current (8/20 μs)	I_n	20 kA
Maximum Discharge Current (8/20 μs)	I_{max}	40 kA
Total Discharge Current	I_{Total}	50 kA
Voltage Protection Level (8/20 μs)	U_p	2000 V
Residual Voltage at 15 kA (8/20 μs)	U_{res}	1800 V
Residual Voltage at 10 kA (8/20 μs)	U_{res}	1650 V
Residual Voltage at 5 kA (8/20 μs)	U_{res}	1500 V
Response Time	t_A	< 25 ns
Short-Circuit Current Rating	I_{SCPV}	11 kA
Number of Ports		1

Mechanical & Environmental

Operating Temperature Range	T_a	-40 °F to +185 °F [-40 °C to +85 °C]
Permissible Operating Humidity	RH	5%...95%
Altitude (max)		13123 ft [4000 m]
Terminal Screw Torque	M_{max}	39.9 lbf-in [4.5Nm]
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: 250V/1A, 125V/1A; DC: 48V/0.5A, 24V/0.5A, 12V/0.5A
RC Conductor Cross Section (max)		16 AWG (Solid) / 1.5mm ² (Solid)

Order Information

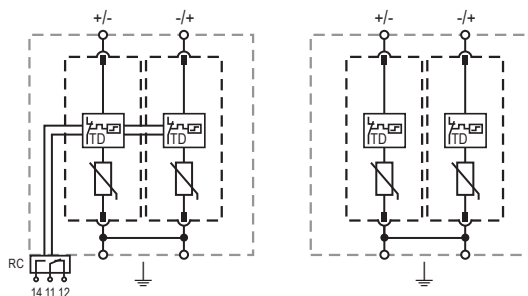
Order Code	600
ProTec T2-xxxPV-2+0	59.A086
ProTec T2-xxxPV-2+0-R (with remote contacts)	59.A087
ProTec T2-xxxPV-P	59.0995

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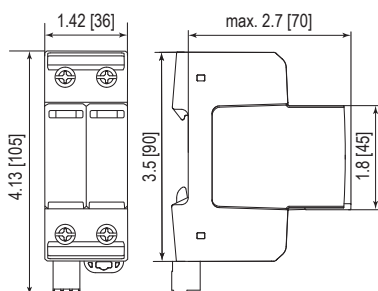
Internal Configuration

Legend

- +/-, -/+ Terminal for +/-, -/+ Conductor
- ⊥ Terminal for PE/G Conductor
- RC Remote Contacts Optional
- TD Thermal Disconnect



Complete Unit

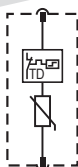


Dimensions & Packaging

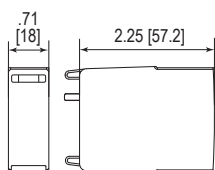
ProTec T2-xxxPV-2+0	600
Single Unit Weight	pounds .514
	grams 233
ProTec T2-xxxPV-2+0-R	600
Single Unit Weight	pounds .534
	grams 242
Single Unit DIN 43880 Dimension	2 TE / 1.42" [36]
Packaging Dimensions (HxWxL)	4.3 x 4.5 x 13.8" [109 x 115 x 352 mm]
Standard Order Quantity	7 Units

Plug Internal Configuration

ProTec T2-XXXPV-P



Spare Plug



Dimensions & Packaging

ProTec T2-xxxPV-P	600
Single Unit Weight	pounds .134
	grams 61
Single Unit DIN 43880 Dimension	2 TE / 1.42" [36]
Packaging Dimensions (HxWxL)	3.2 x 4.5 x 12" [83 x 115 x 305 mm]
Standard Order Quantity	1 Unit

inches
[mm]

Information contained in this document is subject to change at any time without notice.

RoHS COMPLIANT  

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G29-00-860 200128