



Location of Use: String box, Inverter
 Mode of Protection: (+)-PE, (-)-PE, (+)-(-)
 Voltage: $U_{CPV} = 1200\text{ V}$
 Surge Ratings: $I_{Total} = 12.5\text{ kA (10/350 }\mu\text{s)}$
 $I_{Total} = 50\text{ kA (8/20 }\mu\text{s)}$
 IEC/EN Category: Class I+II / Type 1+2
 Technology: Hybrid
 Leakage Current Free: Yes
 Housing: Pluggable Design
 Compliance: IEC 61643-31:2018
 EN 50539-11:2013+A1:2014

ProTec T1-1200PVG-3+0(-R)**1200****IEC/EN Electrical**

Maximum Continuous Operating Voltage (PV)	(+)-(-) U_{CPV}	$\leq 1200\text{ V}$
	(+/-)-PE	$\leq 600\text{ V}$
Nominal Discharge Current (8/20 μs)	I_n	20 kA
Impulse Discharge Current (10/350 μs)	I_{imp}	6.25 kA
Specific Energy	W/R	9.77 kJ/ Ω
Charge	Q	3.125 As
Total Discharge Current (10/350 μs)	I_{Total}	12.5 kA
Total Discharge Current (8/20 μs)	I_{Total}	50 kA
Maximum Discharge Current (8/20 μs)	I_{max}	40 kA
Voltage Protection Level	(+)-PE, (-)-PE U_p	2200 V
	(+)-(-) U_p	4400 V
Response Time	(+)-PE, (-)-PE t_A	< 100 ns
	(+)-(-)	< 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 [4.5 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: 250V/1A, 125V/1A; DC: 48V/0.5A, 24V/0.5A, 12V/0.5A
RC Conductor Cross Section (max)		16 AWG (Solid) / 1.5 mm ² (Solid)

Order Information

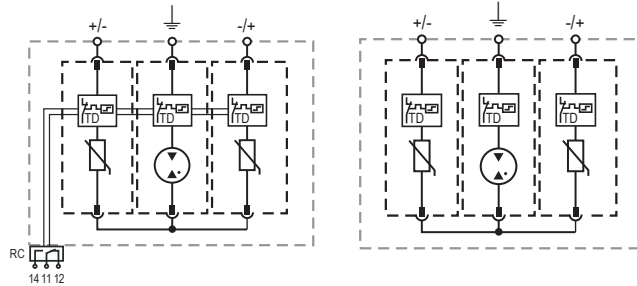
Order Code	1200
ProTec T1-1200PVG-3+0	59.A001
ProTec T1-1200PVG-3+0-R (with remote contacts)	59.A002
ProTec T1-600PVG-P (side plug)	59.A003
ProTube T1-600PVG-P (middle plug)	59.A004

ProTec T1-PVG 3+0

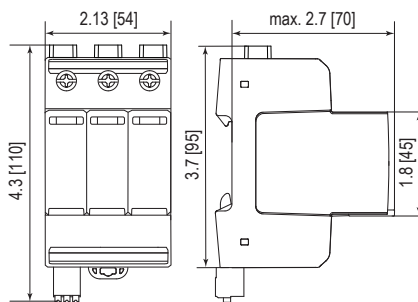
Internal Configuration

Legend

+/-, -/+ + or - Conductor Terminal
 ⏏ PE/G Conductor Terminal
 RC Remote Contacts Terminal (Optional)
 TD Thermal Disconnect



Complete Unit

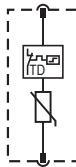


Complete Unit Dimensions & Packaging

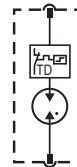
ProTec T1-1200PVG-3+0		1200
Weight	pounds	.825
	grams	374
ProTec T1-1200PVG-3+0-R		1200
Weight	pounds	.833
	grams	378
DIN 43880 Dimension		3 TE / 2.13" [54]
Packaging Dimensions (H x W x L)		4.3 x 4.5 x 13.8" [109 x 115 x 352 mm]
Standard Order Quantity		5 Units

Plug Internal Configuration

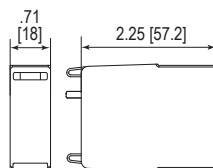
ProTec T1-600PVG-P



ProTube T1-600PVG-P



Spare Plug



Single Unit Dimensions & Packaging

ProTec T1-600PVG-P		600
Weight	pounds	.185
	grams	84
ProTube T1-600PVG-P		600
Weight	pounds	.095
	grams	43
DIN 43880 Dimension		1 TE / .71" [18]
Packaging Dimensions (H x W x L)		3.2 x 4.5 x 12" [83 x 115 x 305 mm]
Standard Order Quantity		24 Units

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

RoHS COMPLIANT  CE

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 G29-00-844 191014