



Location of Use: Main Distribution Boards
 Network Systems: TT, TN-S
 Mode of Protection: N-PE
 IEC/EN/UL Category: Class I+II / Type 1+2 / Type 1CA
 Housing: Pluggable Design
 Compliance: IEC 61643-11:2011
 EN 61643-11:2012 +A11:2018
 UL 1449 5th Edition

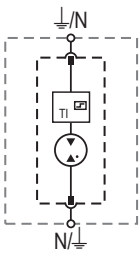
**Technical Data****ProTube T1-xxx-0+1**

ProTube T1-xxx-0+1		50	100
IEC Electrical			
Maximum Continuous Operating Voltage	U _c	305 V	305 V
Nominal Discharge Current (8/20 μs)	I _n	50 kA	100 kA
Maximum Discharge Current (8/20 μs)	I _{max}	100 kA	150 kA
Impulse Discharge Current (10/350 μs)	I _{imp}	50 kA	100 kA
Specific Energy	W/R	625 kJ/Ω	2500 kJ/Ω
Charge	Q	25 As	50 As
Voltage Protection Level	U _p	1500 V	1500 V
Follow Current Interrupt Rating (AC)	I _{fi}	100 A	100 A
Response Time	t _A	< 100 ns	< 100 ns
Overvoltage Category		III	
TOV Withstand 200ms	U _T	1200 V	1200 V
Number of Ports		1	
UL Electrical			
Maximum Continuous Operating Voltage (AC)	MCOV	305 V	305 V
Voltage Protection Rating	VPR	1200 V	1200 V
Nominal Discharge Current (8/20 μs)	I _n	20 kA	20 kA
Additional Electrical Parameters <i>(Tests performed within Raycap testing laboratory only)</i>			
Residual Voltage at 5 kA (8/20 μs)	U _{res}	305 V	305 V
Mechanical & Environmental			
Operating Temperature Range	T _a	-40 °F to +185 °F [-40 °C to +85 °C]	
Permissible Operating Humidity	RH	5%...95%	
Pollution Degree		2	
Altitude (max)		13123 ft [4000 m]	
Terminal Screw Torque	M _{max}	40 lbf-in [4.5 Nm]	
Conductor Cross Section (max)		2 AWG (Solid, Stranded) / 4 AWG (Flexible)	
		35 mm² (Solid, Stranded) / 25 mm² (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	

Internal Configuration

Legend

- N Neutral Conductor Terminal
- PE/G Conductor Terminal
- T1 Thermal Indication

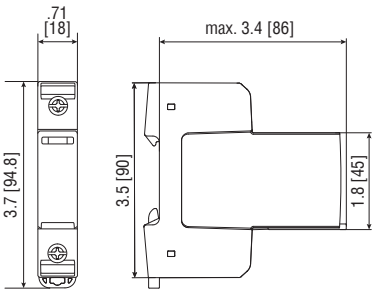


Order Information

Order Code	50	100
ProTube T1-xxx-0+1	59.0276	59.0278
ProTube T1-50-P (plug)	59.0269	-
ProTube T1-100-P (plug)	-	59.0271

Dimensions & Packaging

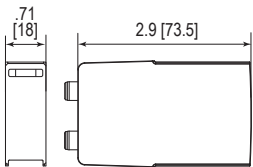
inches [mm]



Complete Unit

ProTube T1-xxx-0+1	50	100
Weight pounds [grams]	.395 [179]	.434 [197]
DIN 43880 Dimension	1 TE / .71" [18 mm]	
Packaging Dimensions (HxWxL)	4.3 x 4.5 x 13.8" [109 x 115 x 352 mm]	
Standard Order Quantity	12 Units	

Spare Plug



Single Unit

ProTube T1-xxx-P	50	100
Weight pounds [grams]	.214 [97]	.251 [114]
DIN 43880 Dimension	1 TE / .71" [18 mm]	
Packaging Dimensions (HxWxL)	4.3 x 4.5 x 13.8" [109 x 115 x 352 mm]	
Standard Order Quantity	28 Units	