DATA SHEET Lightning and Overvoltage Protection ProTube T1 0+1 Class I • Class II • Type 1 • Type 2 • Type 1CA • Open Type 1 SPD Listed



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, Open Type 1 SPD Listed Housing: Pluggable Design Compliance: IEC 61643-11:2011 EN 61643-11:2012 +A11:2018 UL 1449 5th Edition

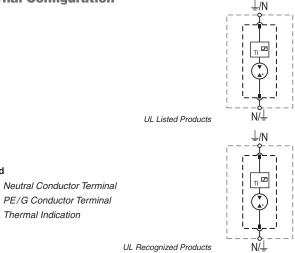
Technical Data

ProTube T1-xxx-0+1 & ProTube T1-xxx-0+1-US		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)	l _{imp}	50 kA	100 kA
Specific Energy	W/R	625 kJ/Ω	2500 kJ/Ω
Charge	Q	25 As	50 As
Voltage Protection Level	Up	1500 V	1500V
Follow Current Interrupt Rating (AC)	l _{fi}	100 A	100A
Response Time	t _A	< 100 ns	< 100 ns
TOV Withstand 200ms	U _T	1200 V	1200 V
Number of Ports		1	1
UL Electrical			
Maximum Continuous Operating Voltage (AC)	MCOV	305V	305V
Voltage Protection Rating	VPR	1200 V	1200V
Nominal Discharge Current (8/20µs)	I _n	20kA	20kA
Additional Electrical Parameters (Tests performed within Rayca	p testing laboratory only)		
Residual Voltage at 5 kA (8/20 µs)	U _{res}	305V	305V
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}	35 lbf∙in per Ul	_ 1499 [4.5 Nm]
Conductor Cross Section (max)		6 AWG (Solid, Stra	nded) per UL 1449
		35 mm ² (Solid, Strand	ed) / 25mm² (Flexible)
Mounting		35 mm DIN F	ail, EN 60715
Degree of Protection		IP 20 (built-in)
Housing Material		Thermoplastic: Extingui	shing Degree UL 94 V-0
Thermal Protection		Y	es
Operating State / Fault Indication		Green Flag / N	Not Green Flag



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

Internal Configuration



ProTube T1-xxx-0+1(-R)

Legend

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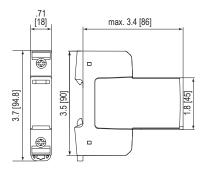
Order Information VDE Certified and UL Recognized Products

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

ProTube T1-xxx-0+1-US(-R)

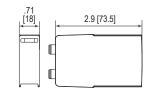
Order Information VDE Certified and Open Type 1 UL	Listed Products	
Order Code	50	100
ProTube T1-xxx-0+1-US	59.B231	59.B232
ProTube T1-50-P (plug)	59.0269	-
ProTube T1-100-P (plug)	-	59.0271

Dimensions & Packaging



			inches [mm]
Complete Unit UL Reco	gnized Products		
ProTube T1-xxx-0+1		50	100
Weight	pounds	.395	.434
	grams	179	197
Complete Unit UL Liste	d Products		
ProTube T1-xxx-0+1-US		50	100
Weight	pounds	.395	.434
	grams	179	197
DIN 43880 Dimension		1 TE /	.71" [18]
Packaging Dimensions (HxWxL)	4.3 × 4.5 × 13.8" [1	09 × 115 × 352 mm]
Standard Order Quantity	/	12	Units

Spare Plug



Single Unit			
ProTube T1-xxx-P		50	100
Weight	pounds	.214	.251
	grams	97	114
DIN 43880 Dimensio	n	1 TE /	.71" [18]
Packaging Dimension	ns (HxWxL)	4.3 × 4.5 × 13.8" [1	09 × 115 × 352 mm]
Standard Order Quantity		28 Units	

