

Overvoltage Protection

ProTube T2 40 0+1-US

Type 1CA • Open Type 1 SPD Listed • Class II • Type 2



Location of Use: Sub-Distribution Boards
 Network Systems: Single phase
 Mode of Protection: N-PE
 UL/IEC/EN Category: Open Type 1 SPD Listed / Type 1CA
 Class II / Type 2
 Housing: Pluggable Design
 Compliance: UL 1449 5th Edition
 IEC 61643-11:2011
 EN 61643-11:2012+A11:2018

Technical Data

ProTube T2-xxx-0+1-US(-R)

40

UL Electrical

Nominal System Voltage (AC)		0V
System		1
Maximum Continuous Operating Voltage (AC)	MCOV	305V
Voltage Protection Rating	VPR	1000V
Nominal Discharge Current (8/20µs)	I _n	20 kA

IEC Electrical

Maximum Continuous Operating Voltage	U _c	305V
Nominal Discharge Current (8/20µs)	I _n	40 kA
Maximum Discharge Current (8/20µs)	I _{max}	65 kA
Voltage Protection Level	U _p	1500V
Follow Current Interrupt Rating	I _{fi}	100 A
Response Time	t _A	< 100 ns
Overvoltage Category		III
TOV Withstand 200ms	U _T	1200 V
Number of Ports		1

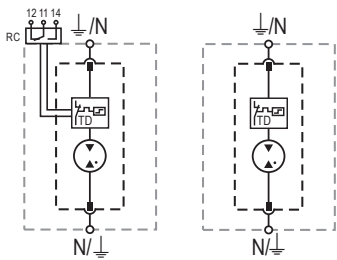
Mechanical & Environmental

Operating Temperature Range	T _a	-40 °F to +185 °F [-40 °C to +85 °C]
Permissible Operating Humidity	RH	5%...95%
Pollution Degree		2
Altitude (max)		13123 ft [4000m]
Terminal Screw Torque	M _{max}	35 lbf-in per UL 1499 [4.5 Nm]
Conductor Cross Section (max)		6 AWG (Solid, Stranded) per UL 1449 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)		10 AWG (Solid, Stranded) per UL 1449 [1.5 mm ² (Solid)]
Overvoltage Category		III

Internal Configuration

Legend

- N Neutral Conductor Terminal
- ⏏ PE/G Conductor Terminal
- RC Remote Contacts Terminal (Optional)
- TD Thermal Disconnect



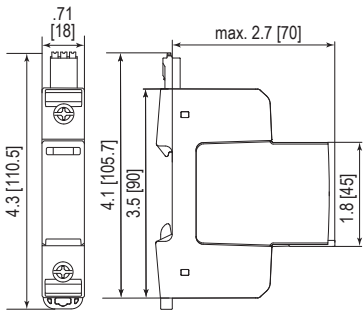
ProTube T2-xxx-0+1-US(-R)

Order Information

Order Code	40
ProTube T2-xxx-0+1-US	59.B133
ProTube T2-xxx-0+1-US-R (with remote contacts)	59.B134
ProTube T2-40-P (plug)	59.0273

Dimensions & Packaging

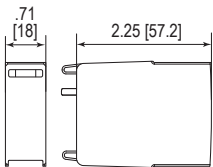
inches [mm]



Complete Unit

ProTube T2-xxx-0+1-US	40
Weight	pounds [grams]
	.244 [11]
ProTube T2-xxx-0+1-US-R	
Weight	pounds [grams]
	.259 [118]
DIN 43880 Dimension	1 TE / .71" [18]
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 T2-40-P	40
Weight	pounds [grams]
	.093 [42]
DIN 43880 Dimension	1 TE / .71" [18]
Packaging Dimensions (HxWxL)	3.2 x 4.5 x 12" [83 x 116 x 305 mm]
Standard Order Quantity	24 Units