

Pluggable Single and Multi-Pole SPD
ProTec T2H 3+1
 Class II • Type 2



Location of Use: Sub-Distribution Boards
 Network Systems: TT, TN-S
 Mode of Protection: L-N, N-PE
 Surge Ratings: $I_n = 20\text{ kA (8/20}\mu\text{s)}$
 $I_{max} = 50\text{ kA (8/20}\mu\text{s)}$
 IEC/EN Category: Class II / Type 2
 Protective Elements: High Energy MOV in series with GDT
 Housing: Pluggable Design
 Compliance: IEC 61643-11:2011
 EN 61643-11:2012

Technical Data

ProTec T2H-xxx-3+1(-R) 300

IEC Electrical			
Nominal AC Voltage (50/60Hz)		U_o / U_n	240V
Maximum Continuous Operating Voltage (AC)	(L-N) / (N-PE)	U_c	300V / 305V
Nominal Discharge Current (8/20 μs)	(L-N) / (N-PE)	I_n	20kA / 40kA
Maximum Discharge Current (8/20 μs)	(L-N) / (N-PE)	I_{max}	50kA / 65kA
Voltage Protection Level	(L-N) / (N-PE)	U_p	1500V / 1500V
Response Time	(L-N) / (N-PE)	t_A	<25ns / <100ns
Back-Up Fuse (max)			315A / 250A gG
Short-Circuit Current Rating (AC)	(L-N)	I_{SCCR}	25kA / 50kA
Follow Current Interrupt Rating	(N-PE)	I_{fi}	100A _{RMS}
TOV Withstand 120min	(L-N)	U_T	442V
TOV Withstand 200ms	(N-PE)	U_T	1200V
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			13123 ft [4000m]
Terminal Screw Torque		M_{max}	39.9 lbf-in [4.5Nm]
Conductor Cross Section (max)			2 AWG (Solid, Stranded) / 4 AWG (Flexible) 35mm ² (Solid, Stranded) / 25mm 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/1 A; DC: 48V/0.5A, 24V/0.5A, 12V/0.5 A
RC Conductor Cross Section (max)			16 AWG (Solid) / 1.5 mm ² (Solid)

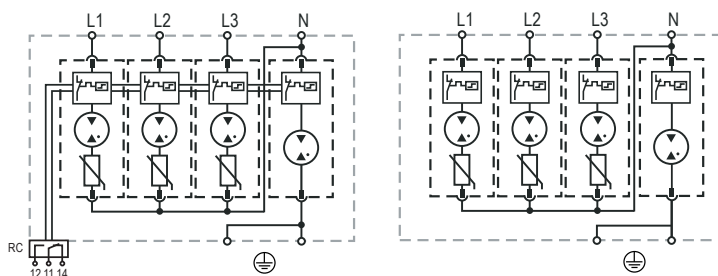
Order Information	
Order Code	300
ProTec T2H-xxx-3+1	59.0334
ProTec T2H-xxx-3+1-R (with remote contacts)	59.0335
ProTec T2H-xxx-P	59.0322
ProTube T2H-40-P	59.0323

ProTec T2H 3+1

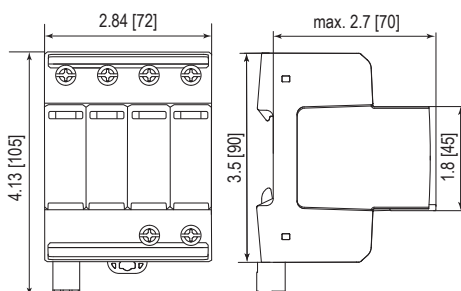
Internal Configuration

Legend

- L Line
- N Neutral
- ⊕ Protective Earth
- RC Remote Contacts Optional



Dimensions & Packaging



Dimensions & Packaging

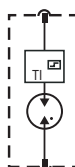
ProTec T2H-xxx-3+1		300
Single Unit Weight	pounds [grams]	.810 [367]
ProTec T2H-xxx-3+1-R		300
Single Unit Weight	pounds [grams]	.829 [376]
Single Unit DIN 43880 Dimension		4 TE
Packaging Dimensions (HxWxL)		4.3 x 4.5 x 13.8" [109 x 115 x 352 mm]
Minimum Order Quantity		4 Units

Plug Internal Configuration

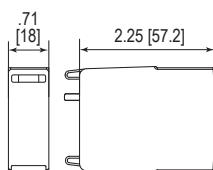
ProTec T2H-xxx-P



ProTube T2H-40-P



Dimensions & Packaging



Dimensions & Packaging

ProTec T2H-xxx-P		300
Single Unit Weight	pounds [grams]	.144 [65]
ProTube T2H-40-P		40
Single Unit Weight	pounds [grams]	.093 [42]
Single Unit DIN 43880 Dimension		1 TE
Packaging Dimensions (HxWxL)		4.3 x 4.5 x 13.8" [109 x 115 x 352 mm]
Minimum Order Quantity		24 Units

inches
[mm]

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

