

Overvoltage Protection with Integrated Fuse

ProTec T2AF 1+0**Class II • Class III • Type 2 • Type 3**

Location of Use: Sub-Distribution Boards
 Network Systems: TN-S, TN-C, TT (only L-N)
 Mode of Protection: L-PE, N-PE (only TN-S), L-PEN, L-N
 IEC/EN Category: Class II+III/Type 2+3
 Housing: Pluggable Design
 Compliance: IEC 61643-11:2025
 EN IEC 61643-11:2025

**Technical Data****ProTec T2AF-xxx-1+0(-R)****300****IEC Electrical**

Nominal AC Voltage (50/60 Hz)	U_o/U_n	240V
Maximum Continuous Operating Voltage (AC)	U_c	300V
Nominal Discharge Current (8/20 μ s)	I_n	20 kA
Maximum Discharge Current (8/20 μ s)	I_{max}	40 kA
Open Circuit Voltage of Combination Wave Generator (1.2/50 μ s)	U_{oc}	6 kV
Short Circuit Current of Combination Wave Generator (8/20 μ s)	I_{cw}	3 kA
Voltage Protection Level	U_p	1500V
Response Time	t_A	< 25ns
Overvoltage Category		III
Overcurrent Protection (max)		Not Required
Short-Circuit Current Rating (AC)	I_{SCCR}	50 kA
TOV Withstand 5s	U_T	337V
TOV Safe Fail 120min	U_T	442V
Number of Ports		1

Additional Electrical Parameters (Tests performed within Raycap testing laboratory only)

Residual Voltage at 5 kA (8/20 μ s)	U_{res}	1150V
Minimum Overcurrent Protection, if required		Not Required

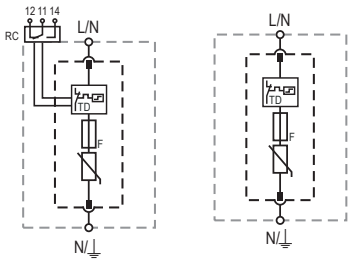
Mechanical & Environmental

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}	40 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
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)
Overvoltage Category		III

Internal Configuration

Legend

- L Line Conductor Terminal
- N Neutral Conductor Terminal
- PE Conductor Terminal
- RC Remote Contacts Terminal (Optional)
- TD Thermal Disconnect
- F Integrated Surge Adapted Overcurrent Protection

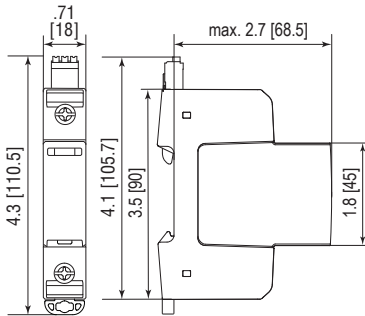


Order Information

Order Code	300
ProTec T2AF-xxx-1+0	59.E101
ProTec T2AF-xxx-1+0-R (with remote contacts)	59.E102
ProTec T2AF-xxx-P (plug)	59.E117

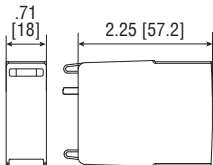
Dimensions & Packaging

inches [mm]



Complete Unit		
ProTec T2AF-xxx-1+0		300
Weight	pounds [grams]	.25 [111]
ProTec T2AF-xxx-1+0-R		
Weight	pounds [grams]	.28 [128]
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		
ProTec T2AF-xxx-P		300
Weight	pounds [grams]	.13 [57]
DIN 43880 Dimension	1 TE/.71" [18 mm]	
Packaging Dimensions (HxWxL)	3.2 x 4.5 x 12" [83 x 116 x 305 mm]	
Standard Order Quantity	24 Units	