

# Overvoltage Protection with Integrated Fuse

## ProTec T2AF 3+0

Class II • Class III • Type 2 • Type 3



Location of Use: Sub-Distribution Boards  
 Network Systems: TN-C  
 Mode of Protection: L-PEN  
 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-3+0(-R)

300

#### IEC Electrical

Nominal AC Voltage (50/60Hz)	$U_o/U_n$	240V
Maximum Continuous Operating Voltage (AC)	$U_c$	300V
Nominal Discharge Current (8/20µs)	$I_n$	20 kA
Maximum Discharge Current (8/20µs)	$I_{max}$	40 kA
Open Circuit Voltage of Combination Wave Generator (1.2/50µs)	$U_{oc}$	6 kV
Short Circuit Current of Combination Wave Generator (8/20µs)	$I_{cw}$	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)	$I_{SCCR}$	25 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 µs)	$U_{res}$	1150V
Minimum Overcurrent Protection, if required		Not Required

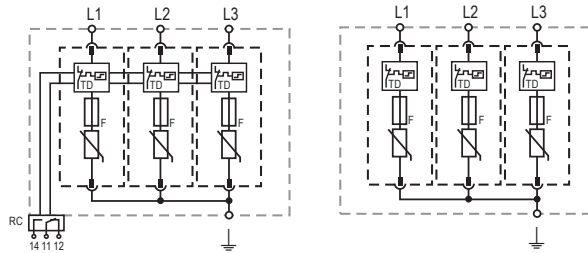
#### Mechanical & Environmental

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 <sup>2</sup> (Solid, Stranded)/25 mm <sup>2</sup> (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 <sup>2</sup> (Solid)
Overvoltage Category		III

## Internal Configuration

### Legend

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



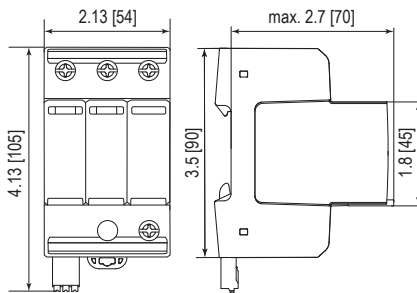
Two PE terminals available per request.

### Order Information

Order Code	300
ProTec T2AF-xxx-3+0	59.E105
ProTec T2AF-xxx-3+0-R (with remote contacts)	59.E106
ProTec T2AF-xxx-P (plug)	59.E117

## Dimensions & Packaging

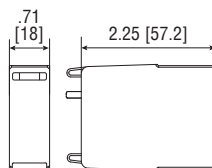
inches [mm]



### Complete Unit

ProTec T2AF-xxx-3+0	300
Weight	pounds [grams] .76 [346]
ProTec T2AF-xxx-3+0-R	
Weight	pounds [grams] .77 [351]
DIN 43880 Dimension	3 TE/2.13" [54]
Packaging Dimensions (HxWxL)	4.3 x 4.5 x 13.8" [109 x 115 x 352 mm]
Standard Order Quantity	5 Units

## Spare Plug



### Single Unit

ProTec T2AF-xxx-P	300
Weight	pounds [grams] .13 [57]
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