

# Combined Lightning Current and Surge Arrester

## ProTec 60 RX T2F 3+1

Class II • Class III • Type 2 • Type 3



**Location of Use:** Main Distribution Boards, Standard and isolated 60 mm busbar systems

**Network Systems:** TT, TN-S  
**Mode of Protection:** L-N, N-PE, L-PE (combined)

**IEC/EN:** Class II+III/Type 2+3

**Housing:** Pluggable design

**Compliance:** IEC 61643-11:2025  
 EN IEC 61643-11:2025



### Technical Data

**ProTec 60 RX T2F-xxx-3+1(-R)**

**300**

#### IEC Electrical

Nominal AC Voltage (50/60Hz)	$U_o/U_n$	240 V
Maximum Continuous Operating Voltage (AC)	(L-N)/(N-PE) $U_c$	300 V/305 V
Nominal Discharge Current (8/20 $\mu$ s)	(L-N)/(N-PE) $I_n$	20 kA/40 kA
Maximum Discharge Current (8/20 $\mu$ s)	(L-N)/(N-PE) $I_{max}$	40 kA/65 kA
Voltage Protection Level	(L-N)/(N-PE)/(L-PE) $U_p$	1500 V/1500 V/1800 V
Open Circuit Voltage of Combination Wave Generator (1.2/50 $\mu$ s)	$U_{oc}$	6 kV
Short Circuit Current of Combination Wave Generator (8/20 $\mu$ s)	$I_{cw}$	3 kA
Follow Current Interrupt Rating	(N-PE) $I_{fi}$	100 A
Response Time	(L-N)/(N-PE) $t_A$	< 25 ns / < 100 ns
Overvoltage Category		IV
Overcurrent Protection (max)		Not Required
Short-Circuit Current Rating (AC)	$I_{SCCR}$	50 kA
TOV Withstand 5s	(L-N) $U_T$	337 V
TOV SafeFail 120min	(L-N) $U_T$	442 V
TOV Withstand 200ms	(N-PE) $U_T$	1200 V
Number of Ports		1

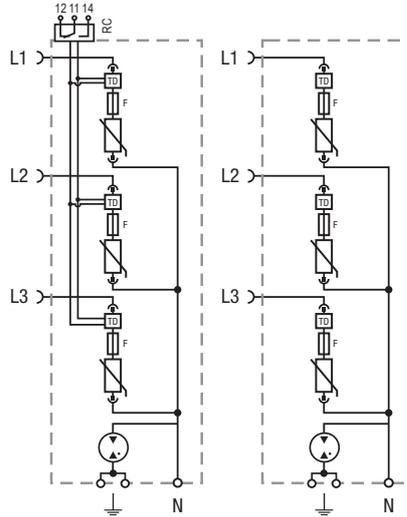
#### Mechanical & Environmental

Operating Temperature Range	$T_a$	-40 °F to +185 °F [-40 °C to +85 °C]
Permissible Operating Humidity	RH	5%...95%
Pollution Degree		3
Altitude (max)		13123 ft [4000m]
Terminal Screw Torque	$M_{max}$	PZ2/40 lbf-in [4.5Nm]
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		Standard and isolated 60 mm busbar systems Width: 12, 15, 20, 25, 30 mm Thickness: 5 mm, 10 mm
Degree Of Protection		IP 20*
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/ 1 A, 125V/1 A; 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

\*IP 40 (in combination with cover)

**Legend**

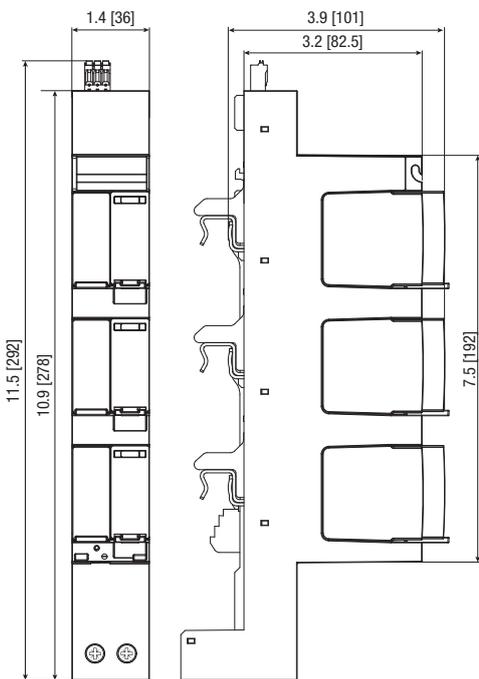
- L Line Busbar Terminal
- N Neutral Conductor Terminal
- ⏏ PE Conductor Terminal
- RC Remote Contacts Terminal (Optional)
- TD Thermal Disconnect
- F Integrated Surge Adapted Backup Fuse



**Order Information**

Order Code	<b>300</b>
ProTec 60 RX T2F-xxx-3+1	515 B13
ProTec 60 RX T2F-xxx-3+1-R (with remote contacts)	515 B14
ProTec 60 RX T2F-xxx-P (plug)	59.D106
ProAcc 60 RX Cover plate (optional)	515 B21

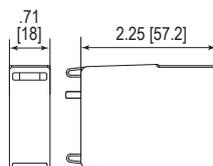
**Dimensions & Packaging**



**Complete Unit**

<b>ProTec 60 RX T2F-xxx-3+1</b>	<b>300</b>
Weight	pounds [grams] 1.365 [619]
<b>ProTec 60 RX T2F-xxx-3+1-R</b>	
Weight	pounds [grams] 1.409 [639]
Packaging Dimensions (HxWxL)	15.5 x 14.3 x 9.9" [395 x 363 x 253 mm]
Standard Order Quantity	20 Units

**Spare Plug**



**Single Unit**

<b>ProTec 60 RX T2F-xxx-P</b>	<b>300</b>
Weight	pounds [grams] .152 [69]
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