DATASHEET

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

CE RoHS COMPLIANT

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 µs)	(L-N)/(N-PE)	I_n	20 kA/40 kA
Maximum Discharge Current (8/20 µs)	(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 µs)		U_{oc}	6 kV
Short Circuit Current of Combination Wave Generator (8/20 µs)		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 [4000 m]
Terminal Screw Torque		M_{max}	PZ2/40 lbf·in [4.5 Nm]
Conductor Cross Section (max)			2 AWG (Solid, Stranded)/4 AWG (Flexible)
			35 mm² (Solid, Stranded)/25 mm² (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: 250 V/1 A, 125 V/1 A; DC: 48 V/0.5 A, 24 V/0.5 A, 12 V/0.5 A
RC Conductor Cross Section (max)			16 AWG (Solid)/1.5 mm² (Solid)
Overvoltage Category			III

**IP 40 (in combination with cover)*

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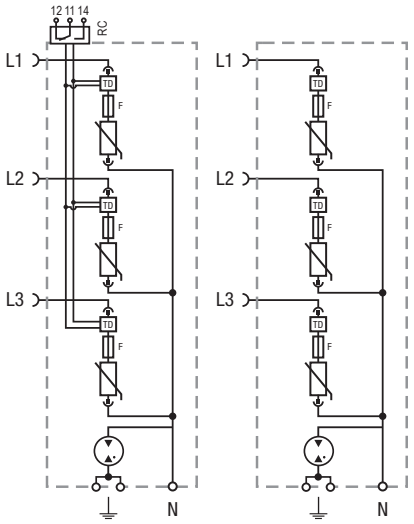


Legend

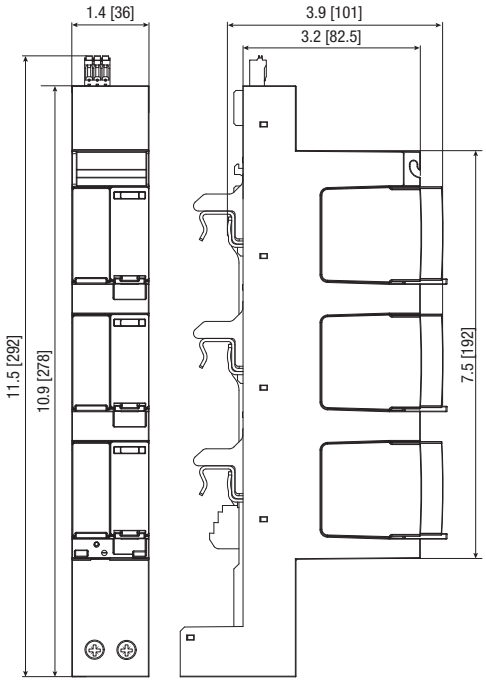
L	*Line Busbar Terminal*
N	*Neutral Conductor Terminal*
⏚	*PE Conductor Terminal*
RC	*Remote Contacts Terminal (Optional)*
TD	*Thermal Disconnector*
F	*Integrated Surge Adapted Backup Fuse*

Order Information

Order Code	**300**
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

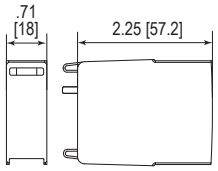
inches [mm]



Complete Unit

ProTec 60 RX T2F-xxx-3+1		**300**
Weight	pounds [grams]	1.365 [619]
ProTec 60 RX T2F-xxx-3+1-R		
Weight	pounds [grams]	1.409 [639]
Packaging Dimensions (H x W x L)		15.5 × 14.3 × 9.9" [395 × 363 × 253 mm]
Standard Order Quantity		20 Units

Spare Plug



Single Unit

ProTec 60 RX T2F-xxx-P		**300**
Weight	pounds [grams]	.152 [69]
DIN 43880 Dimension		1 TE / .71" [18 mm]
Packaging Dimensions (H x W x L)		3.2 × 4.5 × 12" [83 × 116 × 305 mm]
Standard Order Quantity		24 Units

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