

DATASHEET

Combined Lightning Current and Surge Arrester
ProTec 60 RX T1H 3+1
Class I • Class II • Type 1 • Type 2



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 I+II/Type 1+2

Housing: Pluggable design

Compliance: IEC 61643-11:2025



Technical Data

ProTec 60 RX T1H-xxx-3+1(-R)

300

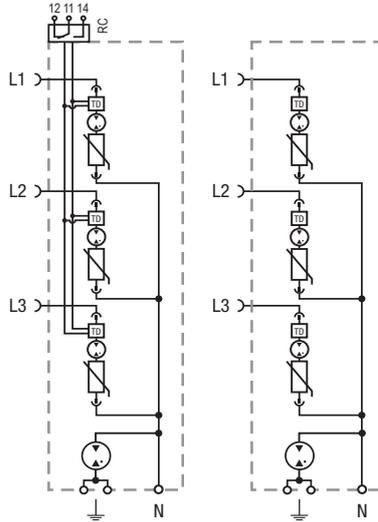
IEC Electrical

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 μ s)	(L-N)/(N-PE) I_n	20 kA/80 kA
Maximum Discharge Current (8/20 μ s)	(L-N)/(N-PE) I_{max}	65 kA/100 kA
Impulse Discharge Current (10/350 μ s)	(L-N)/(N-PE) I_{imp}	12.5 kA/50 kA
Specific Energy	(L-N)/(N-PE) W/R	39 kJ/ Ω /625 kJ/ Ω
Charge	(L-N)/(N-PE) Q	6.25 As/25As
Voltage Protection Level	(L-N)/(N-PE)/(L-PE) U_p	1500V/1500V/2100V
Follow Current Interrupt Rating	(N-PE) I_{fi}	100A
Response Time	(L-N)/(N-PE) t_A	< 25ns/ < 100ns
Overvoltage Category		IV
Overcurrent Protection (max)		315 A gG
Short-Circuit Current Rating (AC)	I_{SCCR}	25 kA
TOV Withstand 5s	(L-N) U_T	337 V
TOV SafeFail 120min	(L-N) U_T	442 V
TOV Withstand 200ms	(L-N)/(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 [4.5 Nm]
Conductor Cross Section (max)		2 AWG (Solid, Stranded)/4 AWG (Flexible) 35 mm ² (Solid, Stranded)/25 mm ² (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 ² (Solid)
Overvoltage Category		III

*IP 40 (in combination with cover)



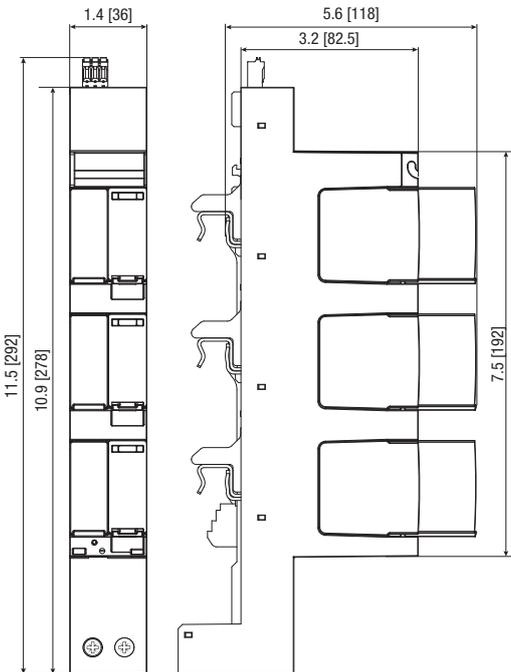
Legend

- L Line Busbar Terminal
- ⏚ PE Conductor Terminal
- N Neutral Conductor Terminal
- RC Remote Contacts Terminal (Optional)
- TD Thermal Disconnecter

Order Information

Order Code	300
ProTec 60 RX T1H-xxx-3+1	515 B15
ProTec 60 RX T1H-xxx-3+1-R (with remote contacts)	515 B16
ProTec 60 RX T1H-xxx-P (plug)	59.D101
ProAcc 60 RX Cover plate (optional)	515 B21

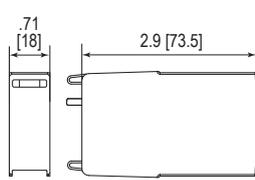
Dimensions & Packaging



Complete Unit

ProTec 60 RX T1H-xxx-3+1	300
Weight pounds [grams]	1.579 [716]
ProTec 60 RX T1H-xxx-3+1-R	
Weight pounds [grams]	1.645 [746]
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

ProTec 60 RX T1H-xxx-P	300
Weight pounds [grams]	.223 [101]
DIN 43880 Dimension	1 TE/.71" [18]
Packaging Dimensions (HxWxL)	4.3 x 4.5 x 13.8" [109 x 115 x 352 mm]
Standard Order Quantity	28 Units