



Location of Use: Main Distribution Boards,
40mm Busbar Systems

Network Systems: TN-S, TT

Mode of Protection: L-N, N-PE

IEC/EN: Class I+II+III / Type 1+2+3

Housing: Compact design

Compliance: IEC 61643-11:2011

EN 61643-11:2012 + A11:2018



Technical Data

ProTec ZPN T1H-xxx-3+1-E(-R)-F

300

IEC Electrical

Nominal AC Voltage (50/60Hz)	U_o/U_n	240 V
Maximum Continuous Operating Voltage (AC)	(L-N) U_c	300 V
	(N-PE) U_c	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}	40 kA / 100 kA
Impulse Discharge Current (10/350 μ s)	(L-N)/(N-PE) I_{imp}	7.5 kA / 30 kA
Specific Energy	(L-N)/(N-PE) W/R	14 kJ/ Ω / 225 kJ/ Ω
Charge	(L-N)/(N-PE) Q	3.75 As / 15 As
Open Circuit Voltage of Combination Wave Generator	U_{oc}	6 kV
Voltage Protection Level	(L-N)/(N-PE) U_p	1500 V / 1500 V
Follow Current Interrupt Rating	(N-PE) I_{fi}	100 A
Response Time	(L-N)/(N-PE) t_A	< 100 ns / < 100 ns
Overvoltage Category		III
Overcurrent Protection (max)		160 A gG
Short-Circuit Current Rating (AC)	I_{SCCR}	25 kA
TOV Withstand 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		2
Altitude (max)		13123 ft [4000 m]
Terminal Screw Torque	M_{max}	PH2 / 40 lbf·in [4.5 Nm]
Conductor Cross Section (max)		2 AWG (Solid, Stranded) / 4 AWG (Flexible)
		35mm ² (Solid, Stranded) / 25mm ² (Flexible)
Mounting		40mm Busbar Systems
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/ 1A, 125V/ 1A; DC: 48V/0.5A, 24V/0.5A, 12V/0.5A
RC Conductor Cross Section (max)		16 AWG (Solid) / 1.5mm ² (Solid)
Overvoltage Category		III

Auxiliary Terminal (LA)

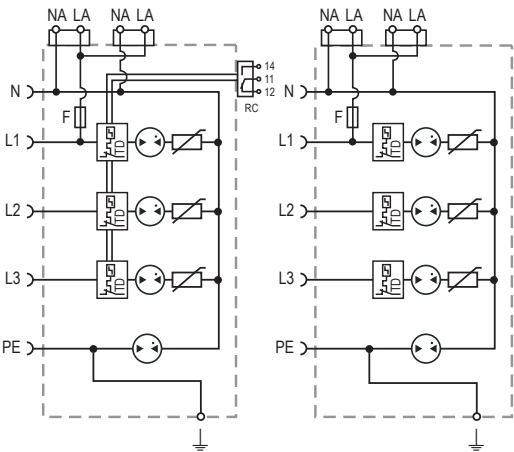
Rated Current Integrated Fuse	I_n	6.3 A
Fuse Link		FF, 5 x 20 mm, 6.3 A
Short Circuit Interrupt Capability		25 kA
Wire Connection Method		Push In
Conductor Cross Section (max)		14 AWG / 2.5 mm ² (Solid, Flexible)

*IP 40 (in combination with cover)

Internal Configuration

Legend

- F Integrated Fuse Link
- NA Neutral Auxiliary Terminal
- LA Line Auxiliary Terminal
- L Line Busbar Terminal
- N Neutral Busbar Terminal
- PE PE Busbar Terminal
- Terminal for Main Earthing Terminal
- RC Remote Contacts Terminal (Optional)
- TD Thermal Disconnecter

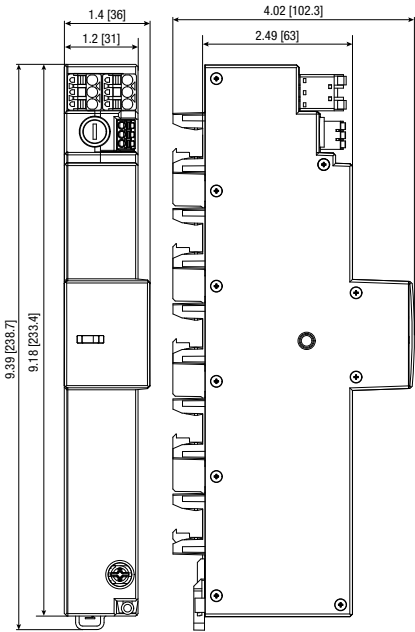


Order Information

Order Code	300
ProTec ZPN T1H-xxx-3+1-E-F (with protected auxiliary terminal)	59.A614
ProTec ZPN T1H-xxx-3+1-E-R-F (with remote contacts and protected auxiliary terminal)	59.A615

Complete Unit

inches [mm]



Complete Unit Dimensions & Packaging

ProTec ZPN T1H-xxx-3+1-E-F		300
Weight	pounds [grams]	1.213 [550]
ProTec ZPN T1H-xxx-3+1-E-R-F		
Weight	pounds [grams]	1.224 [555]
Packaging Dimensions (HxWxL)	270x375x395 [10.6x14.8x15.5]	
Standard Order Quantity	24 Units	