



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

Network Systems: TN-C

Mode of Protection: L-PEN

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

Technology: Hybrid

Leakage Current Free: Yes

Line Follow Current: No

Housing: Compact design

Compliance: IEC 61643-11:2011

EN 61643-11:2012 + A11:2018

Technical Data

ProTec ZPN T1H-xxx-3+0(-R)-F

300

IEC Electrical

Nominal AC Voltage (50/60Hz)	U_o/U_n	240 V
Maximum Continuous Operating Voltage (AC)	U_c	300 V
Nominal Discharge Current (8/20 μ s)	I_n	20 kA
Maximum Discharge Current (8/20 μ s)	I_{max}	40 kA
Impulse Discharge Current (10/350 μ s)	I_{imp}	12.5 kA
Specific Energy	W/R	39 kJ/ Ω
Charge	Q	6.25As
Open Circuit Voltage of Combination Wave Generator	U_{oc}	6 kV
Voltage Protection Level	U_p	1500V
Response Time	t_A	< 100ns
Overcurrent Protection (max)		160 A gG
Short-Circuit Current Rating (AC)	I_{SCCR}	25 kA
TOV Withstand 120min	U_T	442 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%
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)

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 / 2.5mm ² (Solid, Flexible)

Order Information

Order Code	300
ProTec ZPN T1H-xxx-3+0-F (with protected auxiliary terminal)	59.A602
ProTec ZPN T1H-xxx-3+0-R-F (with remote contacts and protected auxiliary terminal)	59.A603

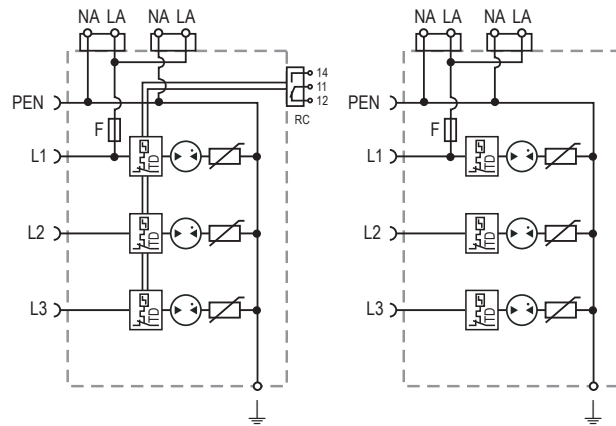
*IP 40 (in combination with cover)

ProTec ZPN T1H 3+0(-R)-F

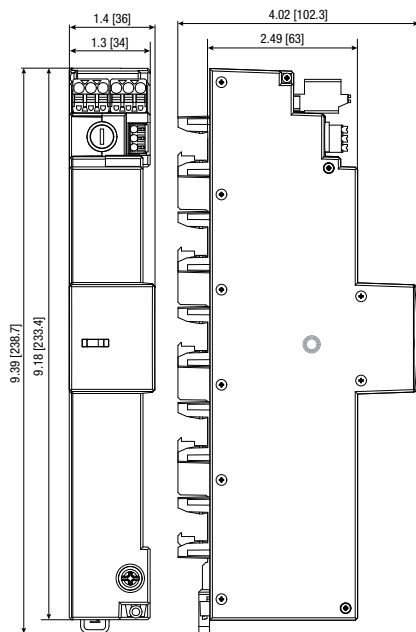
Internal Configuration

Legend

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



Complete Unit



Complete Unit Dimensions & Packaging

ProTec ZPN T1H-xxx-3+0-F	300
Weight	pounds [grams] 1.402 [636]
Packaging Dimensions (HxWxL)	270 x 375 x 395 [10.6 x 14.8 x 15.5]
Standard Order Quantity	24 Units
ProTec ZPN T1H-xxx-3+0-R-F	300
Weight	pounds [grams] 1.413 [641]
Packaging Dimensions (HxWxL)	270 x 375 x 395 [10.6 x 14.8 x 15.5]
Standard Order Quantity	24 Units

inches
[mm]

Information contained in this document is subject to
change at any time without notice.