DATA SHEET

Combined Lightning Current and Surge Arrester **ProTec ZPS T1H 3+0 E(-R)(-F)-L**

Class I • Class II • Class III • Type 1 • Type 2 • Type 3









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

Technical Data

ProTec ZPS T1H-xxx-3+0-E(-R)(-F)L

0100 E1 0 1 111 XXX 010 E(11)(1)E		
C 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 µs)	In	20 kA
Maximum Discharge Current (8/20 µs)	I _{max}	50 kA
Impulse Discharge Current (10/350 µs)	I _{imp}	7.5kA
Specific Energy	W/R	14kJ/Ω
Charge	Q	3.75 As
Open Circuit Voltage of Combination Wave Generator	U _{oc}	6kV
Voltage Protection Level	U _p	1500V
Response Time	t _A	< 100ns
Overcurrent Protection (max)		315 A gG
Short-Circuit Current Rating (AC)	I _{SCCR}	25 kA
TOV Withstand 120min	U _T	442 V
Number of Ports		1
echanical & 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 / 39.9 lbf-in [4.5 Nm]
Conductor Cross Section (max)		35 mm² (Solid, Stranded) / 25 mm² (Flexible)
		2 AWG (Solid, Stranded) / 4 AWG (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)		1.5mm ² (Solid) / 16 AWG (Solid)
otected Load Terminal (L1') for ProTec ZPS T1H-xxx-3+0-E(-R)-L		
Rated Load Current	IL	20 A
Load Side Overcurrent Protection		20 A gG
Wire Connection Method		Push In
Conductor Cross Section		10 AWG / 4 mm ² (Solid, Stranded, Flexible)
4. 1.6		
der Information		
Order Code		
		59.0906





ProTec ZPS T1H 3+0 E(-R)(-F)-L

Internal Configuration

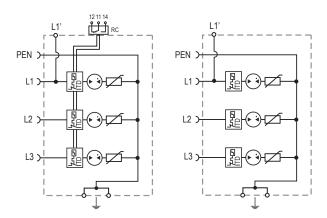
Legend

L Line Busbar Terminal
L1' Protected Load Terminal
PEN PEN Busbar Terminal

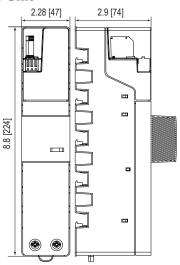
Terminal for Main Earthing Terminal

RC Remote Contacts Terminal (Optional)

TD Thermal Disconnector



Complete Unit



Complete Uni	Dimensions & Packaging		
ProTec ZPS T1H-xxx-3+0-E(-F)-L		300	
Weight	pounds [grams]	1.565 [710]	
Packaging Dimensions (HxWxL)		12.5 × 13.4 × 9.5" [320 × 340 × 240 mm]	
Standard Order Quantity		18 Units	
ProTec ZPS T1H-xxx-3+0-E-R(-F)-L		300	
Weight	pounds [grams]	1.583 [718]	
Packaging Din	nensions (HxWxL)	12.5 × 13.4 × 9.5" [320 × 340 × 240 mm]	
Standard Order Quantity		18 Units	

The weight for products with integrated fuse on L1' terminal is .020 pounds [9 grams] more.

Auxiliary Terminal with Integrated Fuse

Legend

F Integrated Fuse Link

LA Auxiliary Terminal

L Line Busbar Terminal

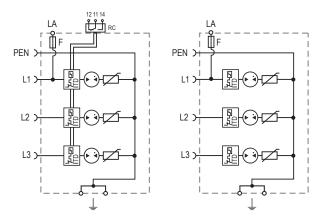
N Neutral Busbar Terminal

PEN PEN Busbar Terminal

Terminal for Main Earthing Terminal

RC Remote Contacts Terminal (Optional)

TD Thermal Disconnector



Auxiliary Terminal (LA) for ProTec ZPS T1H-xxx-3+0-E(-R)-F-L		
Rated Current Integrated Fuse	I _n	6.3 A
Fuse Link		SIBA GZ 5 x 20 mm FF (7000740.6,3)
Wire Connection Method		Push In
Conductor Cross Section		10 AWG / 4 mm ² (Solid, Stranded, Flexible)
Order Information		
Order Code		
ProTec ZPS T1H-300-3+0-E-F-L (with auxiliary terminal)		59.A246
ProTec ZPS T1H-300-3+0-E-R-F-L (with remote contacts and auxiliary terminal)		59.A247



