# DATA SHEET Combined Lightning Current and Surge Arrester ProTec ZP T1H 3+0 E Class I • Class II • Type 1 • Type 2



Location of Use: Main Distribution Boards, 40mm Busbar Systems Network Systems: TN-C Mode of Protection: L-PEN Surge Ratings:  $I_{imp} = 7.5 \text{ kA} (10/350 \mu \text{s})$  $I_n = 20 \text{ kA} (8/20 \mu \text{s})$ IEC/EN: Class I+II / Type 1+2 Technology: Hybrid Protective Elements: GDT in series with High Energy MOV Leakage Current: No Line Follow Current: No Housing: Compact design Compliance: IEC 61643-11:2011 EN 61643-11:2012

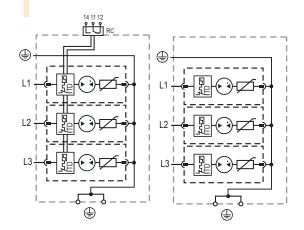
#### **Technical Data**

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ProTec ZP T1H-xxx-3+0-E-R		300	
EC Electrical			
Nominal AC Voltage (50/60Hz)	U <sub>o</sub> /U <sub>n</sub>	230/400V	
Maximum Continuous Operating Voltage (AC)	U <sub>c</sub>	300 V	
Nominal Discharge Current (8/20µs)	I <sub>n</sub>	20 kA	
Maximum Discharge Current (8/20 µs)	I <sub>max</sub>	50 kA	
Impulse Discharge Current (10/350µs)	l <sub>imp</sub>	7.5kA	
Specific Energy	W/R	14 kJ/Ω	
Charge	Q	3.75 As	
Voltage Protection Level	Up	1500V	
Response Time	t <sub>A</sub>	< 100ns	
Back-Up Fuse (max)		160 A gG	
Short-Circuit Current Rating (AC)	I <sub>SCCR</sub>	25kA	
TOV Withstand 120min	U <sub>T</sub>	442V	
Number of Ports		1	
lechanical & Environmental			
Operating Temperature Range	Ta	-40 °F to +185 °F [-40 °C to +85 °C]	
Permissible Operating Humidity	RH	5%95%	
Altitude		13123 ft [4000 m]	
Terminal Screw Torque	M <sub>max</sub>	39.9 lbf·in [4.5 Nm]	
Conductor Cross Section (max)		35mm <sup>2</sup> (Solid, Stranded) / 25mm <sup>2</sup> (Flexible)	
		2 AWG (Solid, Stranded) / 4 AWG (Flexible)	
Mounting		40mm Busbar Systems	
Degree Of Protection		IP 30 (in combination with cover)	
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/0.5		
RC Conductor Cross Section (max)	1.5mm <sup>2</sup> (Solid) / 16 AWG (Solid)		
rder Information			
Order Code		300	
ProTec ZP T1H-xxx-3+0-E		59.0635	
ProTec ZP T1H-xxx-3+0-E-R (with remote contacts)		59.0362	



## ProTec ZP T1H 3+0 E

# **Internal Configuration**

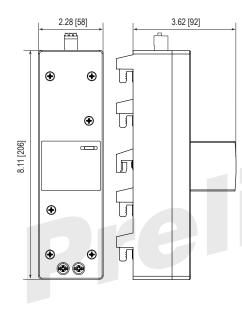


### Legend

L	Terminal for Line Busbar
$\oplus$	Terminal for PE/G Busbar/Conductor
RC	Terminal for Remote Contacts

TD Thermal Disconnector

# **Dimensions & Packaging**



Dimensions & Packaging		
ProTec ZP T1H-xxx-3+0-E-R		300
Single Unit Weight	pounds [grams]	1.918 [870]
Packaging Dimensions (HxWxL)	)	2.9 × 4.5 × 8.6" [75 × 116 × 220 mm]
Order Quantity		1 piece

#### inches [mm]

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



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