DATASHEET Lightning and Overvoltage Protection **12.5kA Series**

ProTec T1 4+0 LH

Class I • Class II • Type 1 • Type 2 • Type 4CA



Location of Use: Main Distribution Boards
Network Systems: TN-S
Mode of Protection: L-PE, N-PE
IEC/EN Category: Class I+II / Type 1+2 / Type 4CA
Housing: Pluggable Design
Compliance: IEC 61643-11:2011
EN 61643-11:2012+A11:2018
UL 1449 5th Edition

Technical Data

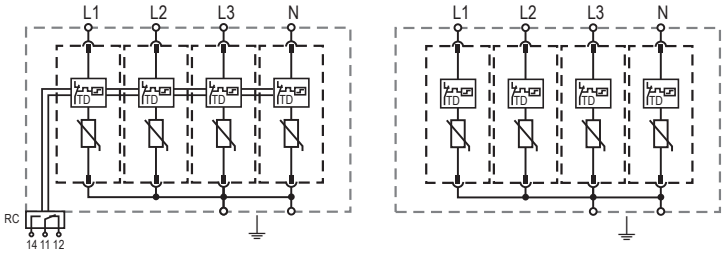
ProTec T1-xxx-4+0-LH(-R)		300
IEC Electrical		
Nominal AC Voltage (50/60Hz)	U_o/U_n	240V
Maximum Continuous Operating Voltage (AC)	U_c	300V
Nominal Discharge Current (8/20µs)	I_n	20kA
Maximum Discharge Current (8/20µs)	I_{max}	40kA
Impulse Discharge Current (10/350µs)	I_{imp}	12.5kA
Specific Energy	W/R	39kJ/Ω
Charge	Q	6.25As
Voltage Protection Level	U_p	1500V
Response Time	t_A	< 25ns
Overvoltage Category		III
Maximum Backup fuse, if required		160A gG
Short-Circuit Current Rating (AC)	I_{SCCR}	50kA
TOV Withstand 5s	U_T	337V
TOV 120min	U_T	442V
	mode	Safe Fail
Number of Ports		1
UL Electrical		
Maximum Continuous Operating Voltage (AC)	MCOV	300V
Measured Limiting Voltage	MLV	1200V
Nominal Discharge Current (8/20µs)	I_n	20kA
Additional Electrical Parameters *(Tests performed within Raycap testing laboratory only)*		
Residual Voltage at 5 kA (8/20 µs)	U_{res}	700V
Minimum Backup fuse, if required		160A gG
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 [4000m]
Terminal Screw Torque	M_{max}	40 lbf·in [4.5Nm]
Conductor Cross Section (max)		2 AWG (Solid, Stranded) / 4 AWG (Flexible)
		35mm² (Solid, Stranded) / 25mm² (Flexible)
Mounting		35mm DIN Rail, EN 60715
Degree of Protection		IP 20 (built-in)
Housing Material		Thermoplastic: Extinguishing Degree UL 94 V-0
Thermal Protection		Yes
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) / 1.5mm² (Solid)
Overvoltage Category		III

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Internal Configuration

Legend

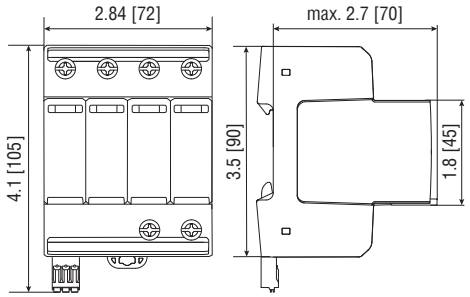
L	*Line Conductor Terminal*
N	*Neutral Conductor Terminal*
⏚	*PE/G Conductor Terminal*
RC	*Remote Contacts Terminal (Optional)*
TD	*Thermal Disconnector*



Order Information	
Order Code	**300**
ProTec T1-xxx-4+0-LH	59.A377
ProTec T1-xxx-4+0-LH-R (with remote contacts)	59.A378
ProTec T1-xxx-LH-P (plug)	59.A383

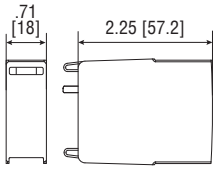
Dimensions & Packaging

inches [mm]



Complete Unit		
ProTec T1-xxx-4+0-LH		**300**
Weight	pounds [grams]	1.558 [707]
ProTec T1-xxx-4+0-LH-R		
Weight	pounds [grams]	1.576 [715]
DIN 43880 Dimension		4 TE / 2.84" [72 mm]
Packaging Dimensions (H x W x L)		4.3 x 4.5 x 13.8" [109 x 115 x 352 mm]
Standard Order Quantity		4 Units

Spare Plug



Single Unit		
ProTec T1-xxx-LH-P		**300**
Weight	pounds [grams]	.255 [116]
DIN 43880 Dimension		1 TE / .71" [18 mm]
Packaging Dimensions (H x W x L)		4.3 x 4.5 x 13.8" [109 x 116 x 352 mm]
Standard Order Quantity		24 Units

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