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

# ProTec T1 2+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

RoHS COMPLIANT

## Technical Data

| ProTec T1-xxx-2+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 |

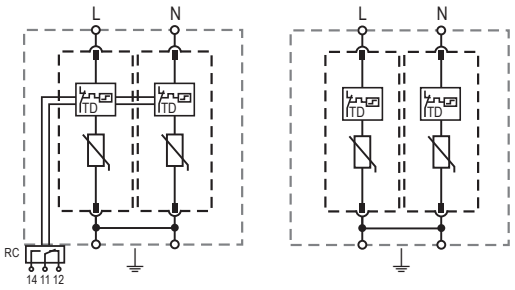
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## Internal Configuration

**Legend**

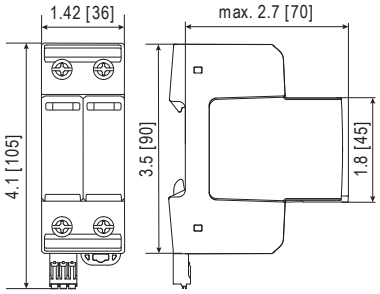
| | |
|---|---|
| *L* | *Line Conductor Terminal* |
| *N* | *Neutral Conductor Terminal* |
| ⏚ | *PE/G Conductor Terminal* |
| *RC* | *Remote Contacts Terminal (Optional)* |
| *TD* | *Thermal Disconnector* |




| Order Information | |
|---|---|
| Order Code | **300** |
| ProTec T1-xxx-2+0-LH | 59.A373 |
| ProTec T1-xxx-2+0-LH-R (with remote contacts) | 59.A374 |
| ProTec T1-xxx-LH-P (plug) | 59.A383 |

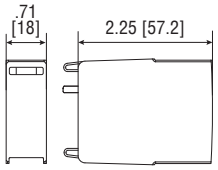
## Dimensions & Packaging

*inches [mm]*




| Complete Unit | | |
|---|---|---|
| **ProTec T1-xxx-2+0-LH** | | **300** |
| Weight | pounds [grams] | .809 [367] |
| **ProTec T1-xxx-2+0-LH-R** | | |
| Weight | pounds [grams] | .820 [372] |
| DIN 43880 Dimension | | 2 TE / 1.42" [36 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 | | 7 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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