

AC Surge Protective Device

TLP-xxx/2(S)

Class III • Type 3



- Monobloc design and DIN rail installation
- Visual and remote status indication
- High discharge capacity due to heavy-duty zinc oxide varistor / GDT combination
- Reliable thermal disconnect device
- Energy coordination with other arresters of LSP product family

DIN rail, compact Type 3 / Class III SPD with MOV & GDT and narrow design for protecting industrial electronics system and equipment at boundaries from LPZ 1-3 and higher.

Technical Data

TLP-xxx/2(S)	30	60	75	150	255
IEC Electrical					
SPD according to IEC 61643-11 / EN 61643-11	Class III / Type 3				
Nominal a.c. voltage (U_N)	24 V (50/60 Hz)	48 V (50/60 Hz)	60 V (50/60 Hz)	120 V (50/60 Hz)	230 V (50/60 Hz)
Max. continuous operating a.c. voltage (U_c)	30 V (50/60 Hz)	60 V (50/60 Hz)	75 V (50/60 Hz)	150 V (50/60 Hz)	255 V (50/60 Hz)
Max. continuous operating d.c. voltage (U_c)	30 V	60 V	75 V	150 V	255 V
Nominal load current a.c. (I_L)	25 A				
Nominal discharge current (8/20 μ s) (I_n)	1 kA	1 kA	2 kA	2 kA	3 kA
Total discharge current (8/20 μ s) [1+2-PE] (I_{total})	2 kA	2 kA	4 kA	4 kA	5 kA
Combination wave (U_{oc})	2 kV	2 kV	4 kV	4 kV	6 kV
Combination wave [1+2-PE] ($U_{oc total}$)	4 kV	4 kV	8 kV	8 kV	10 kV
Voltage protection level [1-2] (U_P)	≤ 180 V	≤ 350 V	≤ 400 V	≤ 640 V	≤ 1250 V
Voltage protection level [1/2-PE] (U_P)	≤ 600 V	≤ 730 V	≤ 730 V	≤ 800 V	≤ 1500 V
Response time [1-2] (t_A)	≤ 25 ns				
Response time [1/2-PE] (t_A)	≤ 100 ns				
Max. mains-side overcurrent protection	25 A gL / gG				
Short-circuit withstand capability for mains-side overcurrent protection with 25 A gL/gG (I_{SCCR})	6 kA rms				
Temporary overvoltage (TOV) [1-2] U_T	-	-	-	-	335 V / 5 sec.
Temporary overvoltage (TOV) [1/2-PE] (I) U_T	-	-	-	-	440 V / 5 sec.
Temporary overvoltage (TOV) [1+2-PE] (II) U_T	-	-	-	-	1200 V + U_{REF} / 200 ms
Operating temperature range (T_U)	-40 °C ... + 80 °C				
Operating state / fault indication	Green ok / Red defect				
Number of ports	1				
Cross-sectional area (min.)	0.5 mm ² Solid / Flexible				
Cross-sectional area (max.)	4 mm ² Solid / 2.5 mm ² Flexible				
For mounting on	35 mm DIN Rails acc. to EN 60715				
Enclosure material	Thermoplastic, UL. 94 V-0				
Place of installation	Indoor installation				
Degree of protection	IP 20				
Capacity	1 Module (s), DIN 43880				
Approvals	CE				
Remote contact (RC)	Optional				
a.c. switching capacity	250 V / 0.5 A				
d.c. switching capacity	250 V / 0.1 A; 125 V / 0.2 A; 75 V / 0.5 A				
Cross-sectional area for remote signalling terminals	Max. 1.5 mm ² Solid / Flexible				
Order Information					
Ordering Code	30	60	75	150	255
TLP-xxx/2	0103021	0106021	0207521	0215021	0325521
TLP-xxx/2S (with remote contacts)	0103022	0106022	0207522	0215022	0325522

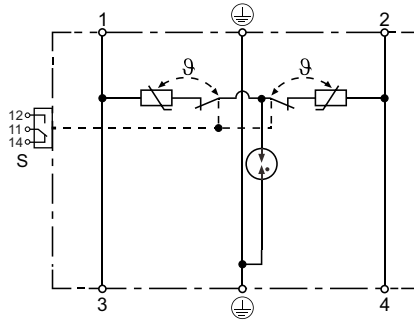


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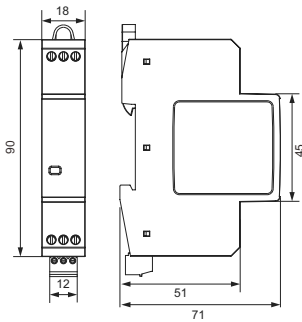
Internal Configuration

Legend

- 1/3 Conductor Terminal
- 2/4 Conductor Terminal
- ⊕ PE/G Conductor Terminal
- S Signalling Contacts Optional



Dimensions & Packaging



[mm]

Complete Unit					
TLP-xxx/2(S)	30	60	75	150	255
DIN 43880 Dimension	1 CTN				
Packaging Dimensions (H x W x L)	[260 x 220 x 330 mm]				
Standard Order Quantity	96 Units				

Connection Diagram

TN-S, TN-C, TT (Single-phase)

