

PRODUCT DATA SHEET

SURGE PROTECTIVE DEVICES (SPDs)

Code: 68 32 302
Ed.07/2025
Brand name: T1 M spec 300 3+1
Application: 230/400 V AC electrical networks

Description

Four poles SPD T1 (class I), in 3+1 (P + N) wiring, suitable for installation in TT, TN S & TN CS systems. It is equipped with heavy duty varistors (protection between phases–neutral) and a spark gap (protection between neutral–protective earth). This wiring is preventing any leakage current to the earthing system, thus allowing their installation before the RCD, even in TT systems. Additionally they are especially designed to provide high protection against temporary overvoltages (TOV) caused even by medium voltage faults. They are capable to withstand high energy lightning currents up to 12,5 kA (10/350 μ s) per pole, 50 kA (10/350 μ s) per 4 poles, providing protection to structures with external lightning protection system of classes III & IV and to equipment supplied by overhead electrical network exposed to direct lightning strikes. The residual voltage is less than 1,5kV (@ 20 kA) providing complete protection to equipment of all categories of insulation level (category IV up to category I) according to IEC 60364-4-44.



Protection type EN / IEC 61643 – 11

- T1 / Class I

Technical characteristics

Number of Poles	4
Connection between terminals	L1 – N, L2 – N, L3 – N, N – PE
Installation in	TN S, TN CS, TT
Nominal operating voltage, U_N	230/400 V, 50Hz
Maximum operating voltage, U_c	300V (L–N) / 305V (N–PE), 50Hz
I_{imp} , “class I” test, (10/350 μ s), 1P	12,5kA (L–N) / 50kA (N–PE)
I_{max} , “class II” test, (8/20 μ s), 1P	50kA (L–N) / 100kA (N–PE)
I_n , “class II” test, (8/20 μ s), 1P	20kA (L–N) / 50kA (N–PE)
U_p , (at I_n)	<1,5kV (L–N) / <1,5kV (N–PE)
Response time, t_A	<25ns (L–N) / <100ns (N–PE)
Maximum back up fuse	<160 A gG
Short circuit withstand, I_{scrr}	50 kA / 50 Hz
Follow current interrupt rating (N–PE), I_{fi}	100A rms
Temporary Overvoltage (TOV), 5 s	335 V withstand
Temporary Overvoltage (TOV), 120 min	440 V fail safe
Temporary Overvoltage TOV 200ms N-PE	1200V withstand
Residual current, I_{PE}	< 5 μ A
Monitoring indication	YES
Installation location	Indoor
Protection level of housing	IP20 (built in)
Dimensions WxHxD	72x90x78 mm
Operating temperature, ϑ	-40°C ÷ +80°C
Relative humidity	5% ÷ 95%
Maximum conductor for terminal	35 mm ²
Rail mounting	DIN-3 (TS-35/EN50022)
Housing material	Polycarbonate halogen free
Combined equivalent protection as per EN / IEC 61643 – 11	T1 (CAT IV) + T2 (CAT II & CAT III) + T3 (CAT I)
Certification	VDE, CE
Conformity with	LVD 2014/35/EU
Installation only by qualified electrician	IEC 60417 – 6182

ELEMKO management systems

- ISO 9001
- ISO 14001
- ISO 45001

Country of Origin

Greece

Unit: piece / Package: 1 piece

We reserve the right to introduce changes in the component due to technical evolution.