



PRODUCT DATA SHEET

Surge Protective devices SPDs for power systems

Code: 6825112-70 Description: SPD TrigeTron T1 H 1+0, code 6825112-70

Description

Single pole SPD T1 (class I), for connection between L-N & L-PEN, suitable for installation in TT, TN S, TN CS & TN C systems. It is equipped with 1 protection module of innovative design, which combines in series a heavy duty varistor (MOV) and a spark gap, thus providing high protection against temporary overvoltages (TOV) and



limiting the leakage current between phase and neutral. Combined with a module containing spark gap for connection between N-PE it can be installed before the RCD, even in TT systems, providing optimum protection against temporary overvoltages (TOV) caused even by faults in medium voltage. It is 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. Additionally it is providing protection against surge currents up to 65 kA (8/20 μ s). 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.

Technical characteristics

T1 (Class I)
1
L-N, L-PEN
TN S, TN CS, TN C, TT
230/400 V, 50 Hz
300 V, 50 Hz
12,5 kA
65 kA
20 kA
<1,5 kV

Responce time, ta	<25 ns
Maximum back up fuse	<315 A gG
Short circuit withstand, Isccr	25 kA / 50 Hz
Temporary overvoltage (TOV) 120min L-N	442 V withstand
Thermal protection & monitoring indication	YES
Residual current, IPE	<5 μΑ
Installation location	indoor
Protection level of housing	IP20 (built in)
Dimensions WxHxD (mm)	17,5x106x87 mm
Operating temperature	-40 oC ÷ +80 oC
Relative humidity	5% ÷ 95%
Rail mounting	DIN-3 (TS-35/EN50022)
Housing material	Polycarbonate halogen free
Maximum conductor for terminal	35 mm2
Conductor terminals tightening torque	2,5 Nm
Maximum conductor for remote contacts	1,5 mm2
Combined equivalent protection as per TS 61643-12 & IEC 61643-12	T1 (CAT IV) + T2 (CAT III & CAT II) + 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
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