PRODUCT DATA SHEET

Surge Protective devices

SPDs for power systems

Code: 6825050-70

Description: SPD TrigeTron T1 H NPE 0+1, code 6825050-70

Description



Single pole SPD T1 (class I), equipped with a heavy duty spark gap sealed into a noble gas filled cylinder. It is intended to be connected between N–PE and is suitable for installation in TT, TN S & TN CS systems. It should be combined with module(s) suitable for connection between L–N. In this combination 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 50 kA (10/350 μs), 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 100 kA (8/20 μs). 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*.

* Combined with module(s) suitable for connection between L–N.

Technical characteristics

Protection type EN / IEC 61643-11	T1 (Class I)
Number of poles	1
Connection between terminals	N-PE
Installation in	TN S, TN CS, TT
Nominal operating voltage, Un	230/400 V, 50 Hz
Maximum operating voltage, Uc	305 V, 50 Hz
Iimp, “class I” test, (10/350μs), 1P	50 kA
Imax, “class II” test, (8/20μs), 1P	100 kA
In, “class II” test, (8/20μs), 1P	50 kA
Up, (at In)	1,5 kV
Responce time, ta	100 ns
Follow current interrupt rating, Ifi	100 A rms

Temporary overvoltage (TOV) 200ms N-PE	1200 V withstand
Thermal protection & monitoring indication	YES
Residual current, IPE	5 µA
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