

PRODUCT DATA SHEET

Surge Protective devices

SPDs for power systems

Code: 6825305-70

Description: SPD Mini T3, code 6825305-70

Description

Three poles SPD suitable for installation in TT, TN S, TN CS & TN C systems, providing protection between L – N & N – PE, to sensitive electronic equipment. Its small size makes it ideal for protection of PLCs, power supplies, personal computers, telecom centres, alarm systems etc, as it can be installed very close to the equipment

under protection. It is capable of discharging combined wave of surge current up to 3 kA (8/20 μ s) per pole and voltage up to 6 kV (1,2/50 μ s) per pole. The residual voltage per pole is less than 1,5kV (@ 3 kA) providing complete protection to equipment of category I of insulation level, according to IEC 60364-4-44. Mini T3 should be protected by a T2 or T1 SPD which should precede, in order to limit the incoming surge voltages to values below 6 kV.



Technical characteristics

Protection type EN / IEC 61643-11	T3 (Class III)
Number of poles	3
Connection between terminals	L-N, N-PE
Installation in	TN S, TN CS, TN C, TT
Nominal operating voltage, Un	230/400 V, 50 Hz
Maximum operating voltage, Uc	275 V (L-N) / 255 V (N-PE), 50 Hz
Isc, "class III" test, (8/20 μ s), 1P	3 kA (L-N, N-PE) / 5 kA (L+N / PE)
Uoc "class III" test, (1,2/50 μ s), 1P	6 kV (L-N, N-PE) / 10 kV (L+N / PE)
Up, (at Isc)	<1,5 kV (L-N) / <1,5 kV (N-PE)
Response time, ta	<25 ns (L-N) / <100 ns (N-PE)
Maximum back up fuse	16 A MCB Type B + 30 mA RCD type A
Short circuit withstand, Isccr	1 kA / 50 Hz
Temporary overvoltage (TOV) 120min L-N	442 V fail safe

Temporary overvoltage (TOV) 5s L-N	337 V withstand
Temporary overvoltage (TOV) 200ms N-PE	1200 V fail safe
Thermal protection	YES
Residual current, IPE	<5 μ A
Installation location	indoor
Protection level of housing	IP20 (built in)
Dimensions WxHxD (mm)	35x25x12 mm
Operating temperature	-40 oC ÷ +80 oC
Relative humidity	5% ÷ 95%
Connection conductors	3 built-in, 1 mm ² cross sectional area, 114 mm length of colors brown, blue and green/yellow
Housing material	Polycarbonate halogen free
Status indication	Buzzer in case of failure
Combined equivalent protection as per TS 61643-12 & IEC 61643-12	T3 (CAT I)
Certification	CE
Conformity with	LVD 2014/35/EU
Installation only by qualified electrician	IEC 60417-6182
ELEMKO management systems	ISO 9001, ISO 14001, ISO 45001