PRODUCT DATA SHEET

Surge Protective devices

SPDs for power systems

Code: 6832304-70

Description: SPD T2 M spec 300 3+1, code 6832304-70



Description

Four poles SPD T2 (class II), 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. It is providing protection against surge currents up to 50 kA (8/20 μs) per pole, 65 kA (8/20 μs) per 2 poles. 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

Protection type EN / IEC 61643-11	T2 (Class II)
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, Un	230/400 V, 50 Hz
Maximum operating voltage, Uc	300 V (L–N) / 305 V (N–PE), 50 Hz
Imax, “class II” test, (8/20μs), 1P	50 kA (L–N) / 65 kA (N–PE)
In, “class II” test, (8/20μs), 1P	20 kA (L–N) / 40 kA (N–PE)
Up, (at In)	1,5 kV (L–N) / 1,5 kV (N–PE)
Responce time, ta	25 ns (L–N) / 100 ns (N–PE)
Maximum back up fuse	315 A gG (@ Isccr 25 kA) / 250 A gG (@ Isccr 50 kA)
Short circuit withstand, Isccr	25 kA (@ 315 A fuse gG) /50 kA (@250 A fuse gG)

Follow current interrupt rating (N–PE), Ifi	100 A rms
Temporary overvoltage (TOV) 120min L-N	440 V fail safe
Temporary overvoltage (TOV) 5s L-N	335 V withstand
Temporary overvoltage (TOV) 200ms N-PE	1200 V withstand
Monitoring indication	YES
Residual current, IPE	5 µA
Installation location	indoor
Protection level of housing	IP20 (built in)
Dimensions WxHxD (mm)	72x90x78 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
Combined equivalent protection as per EN / IEC 61643-11	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