

PRODUCT DATA SHEET

SURGE PROTECTIVE DEVICES (SPDs)

Code: 68 01 046

Ed. 03/2021

Brand Name: PSDC 20/48
Application: 48 V AC or DC electrical networks

Description

PSDC (T3 / Class III) surge protective device, suitable for AC & DC applications up to 48 V. It is providing protection between L–N, L–PE and N–PE in AC systems and between (+) – (-), (+) – PE and (-) – PE in DC systems. It is ideal for the selective protection (at the input of the equipment) of sensitive electronic equipment such as PLCs, power supplies, alarm systems, cameras, BUS systems etc. It is capable of discharging combined wave of surge current 8/20 μ s and voltage 1,2/50 μ s, providing protection against small inductive surge currents.



Protection type EN / IEC 61643–11

- T3 / Class III

Technical characteristics

Number of Poles	2 + PE
Connection between terminals	L–N, L–PE & N – PE or (-ve)–(+ve), (-ve)–PE, (+ve)–PE
Installation in	AC & DC
Nominal operating voltage, U_o	34 V AC, 48 V DC
Maximum operating voltage, U_c	48 V AC, 60 V DC
I_{sc} , “class III” test, (8/20 μ s), 1P	1,2 kA
U_{oc} , “class III” test (1,2/50 μ s)	2,4 kV
U_p , (at I_{sc}), L–N	<500 V
U_p , (at I_{sc}), L–PE & N–PE	<800 V
Response time, t_A , L–N	<25 ns
Response time, t_A , L–PE & N–PE	<100 ns
Maximum back up fuse	32 A gG
Short circuit withstand, $I_{sc cr}$ AC	2 kA / 50 Hz
Temporary Overvoltage (TOV), 5 s	148 V withstand
Thermal protection	YES
Monitoring indication	Green LED
Protection level of housing	IP20 (built in)
Dimensions WxHxD	18x90x66 mm
Operating temperature, ϑ	-40°C ÷ +80°C
Relative humidity	5% ÷ 95%
Maximum conductor for terminal	4 mm ²
Maximum conductor for remote contacts	4 mm ²
Conductor terminals tightening torque	1 Nm
Rail mounting	DIN-3 (TS-35/EN50022)
Housing material	Polycarbonate halogen free
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

Country of Origin

Greece

Unit: piece / Package: 1 piece

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