

PRODUCT DATA SHEET

SURGE PROTECTIVE DEVICES (SPDs)

Code: 68 10 305

Ed. 10/2021

Application: Photovoltaic systems

Description

Two poles SPD especially designed for surge protection of (DC / AC) inverters which are widely used in photovoltaic applications. It is made out of varistor (MOV) elements and have successfully passed the requirements of European standard EN 50539 – 11 class II and it is classified as type 2, providing protection to electrical systems of insulation level, category III and category IV according to IEC 60364-4-44. It is suitable for direct installation exactly at the input terminals of the inverter just after the entrance of the DC current arriving from the photovoltaic panels.



Protection type EN 50539-11

- T2 / Class II

Technical characteristics

Number of Poles	2
Connection between terminals	-ve ÷ PE / +ve ÷ PE
Nominal operating voltage, U_N	Up to 1000 V DC
Maximum operating voltage, U_c	1000 V DC
I_{max} , "class II" test, (8/20 μ s), 1P	40 kA
I_n , "class II" test, (8/20 μ s), 1P	20 kA
U_p , (at I_n)	<4 kV
Response time, t_A	<25 ns
Maximum back up fuse	Not required for up to 9 kA _{DC} expected short circuit current
Short circuit withstand, I_{scCR}	9 kA
Thermal protection	YES
Monitoring indication	YES
Protection level of housing	IP20
Dimensions WxHxD	64x90x52,5 mm
Operating temperature, ϑ	-40°C ÷ +80°C
Relative humidity	5% ÷ 95%
Maximum conductor for terminal	35 mm ²
Conductor terminals tightening torque	4,5 Nm
Rail mounting	DIN-3 (TS-35/EN50022)
Housing material	Polycarbonate halogen free
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.