

## PRODUCT DATA SHEET

### SURGE PROTECTIVE DEVICES (SPDs)

**Code: 68 52 315 (without remote contacts) / 68 52 316 (with remote contacts)**

Ed. 03/2021

**Brand Name: PVTron T2 1500 Y**

**Application: Photovoltaic systems**

#### Description

Three 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. Its main advantage is that no back up fuse is required for up to 11 kA<sub>DC</sub> expected short circuit current.



#### Protection type EN 50539-11

- T2 / Class II

#### Technical characteristics

Number of Poles	3
Connection between terminals	-ve ÷ +ve / -ve ÷ PE / +ve ÷ PE
Nominal operating voltage, U <sub>N</sub>	Up to 1500 V DC
Maximum operating voltage, U <sub>C</sub>	1500 V DC
I <sub>max</sub> , "class II" test, (8/20µs), 1P	30 kA
I <sub>n</sub> , "class II" test, (8/20µs), 1P	20 kA
U <sub>p</sub> , (at I <sub>n</sub> )	<5 kV
Response time, t <sub>A</sub>	<25 ns
Maximum back up fuse	Not required for up to 11 kA <sub>DC</sub> expected short circuit current
Short circuit withstand, I <sub>SCCR</sub>	11 kA
Thermal protection	YES
Residual current, I <sub>PE</sub>	<100 µA
Monitoring indication	YES
Installation location	Indoor
Protection level of housing	IP20 (built in)
Dimensions WxHxD	54x95x70 mm
Operating temperature, θ	-40°C ÷ +80°C
Relative humidity	5% ÷ 95%
Maximum conductor for terminal	35 mm <sup>2</sup>
Conductor terminals tightening torque	2,5 Nm
Maximum conductor for remote contacts	1,5 mm <sup>2</sup>
	(only for ELEMKO code 68 52 316)
Rail mounting	DIN-3 (TS-35/EN50022)
Housing material	Polycarbonate halogen free
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

#### Country of Origin

Greece

**Unit: piece / Package: 1 piece**

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