

## PRODUCT DATA SHEET

### SURGE PROTECTIVE DEVICES (SPDs)

**Code: 68 81 006**

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**Brand Name: ZHP MV 6**
**Application: Medium voltage electrical networks**

#### Description

Heavy duty surge arrester suitable for indoor and outdoor installation in medium voltage systems. It is providing optimum protection and can be installed inside MV transformer's switchgear or distribution boards. It is containing a disconnection mechanism which disconnects the arrester from the network at the end of its lifetime. Its external housing is made out of a blended ethylene, propylene and polymeric synthetic material, which is resistant to water, ultraviolet radiation and contamination. All the raw materials and the final product are 100% tested before approval for final use. Mounting is achieved using an insulating bracket, which provides insulation between the arrester and the earthing system after the disconnection mechanism has operated.



#### Protection type EN / IEC 60099-4 & IEEE C62.11

- Class 1 (IEC 60099-4)

#### Technical characteristics

Number of Poles	1
Connection between terminals	L – GND (PE)
Nominal operating voltage, $U_r$	6 kV, 50 Hz
Maximum operating voltage, MCOV, $U_c$	5,1 kV, 50 Hz
High current short duration 4/10 $\mu$ s	100 kA
Switching impulse 250/2000 $\mu$ s	15,1 kV
Nominal current, $I_n$ , (IEC) 8/20 $\mu$ s	10 kA
Duty cycle (IEC)	10 kA
Short circuit withstand	20 kA / 50 Hz
Disconnection time of internal fuse at 5 A, 50 Hz	2 s
Disconnection time of internal fuse at 1000 A, 50 Hz	8 ms
Residual voltage (at $I_n$ : 10 kA, 8/20 $\mu$ s)	20,7 kV
Residual voltage (at 3 kA, 8/20 $\mu$ s)	17,7 kV
Residual voltage (at 5 kA, 8/20 $\mu$ s)	18,8 kV
Residual voltage (at 20 kA, 8/20 $\mu$ s)	23,6 kV
Residual voltage (at 40 kA, 8/20 $\mu$ s)	27,7 kV
Creepage distance	303 mm
Dimensions without bracket, WxH	109x195 mm
Dimensions with bracket, WxHxD	109x195x175,35 mm
Weight	1,37 kg
Installation location	Indoor / Outdoor
Operating temperature, $\vartheta$	-20°C ÷ +60°C
Maximum conductor for terminal	50 mm <sup>2</sup>
Certification	REA Listed
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.