PRODUCT DATA SHEET
Surge Protective devices
SPDs for power systems

Code: 6881006-70
Description: Medium voltage SPD ZHP MV 6, code 6881006-70

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.

Technical characteristics

Protection type EN / IEC 60099-4	Class I
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 µs	100 kA
Switching impulse 250/2000 µs	15,1 kV
Nominal current, I_n, (IEC) 8/20µs	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, 8/20µs)	20,7 kV
Residual voltage (at 3 kA, 8/20µs)	17,7 kV

Residual voltage (at 5 kA, 8/20μs)	18,8 kV
Residual voltage (at 20 kA, 8/20μs)	23,6 kV
Residual voltage (at 40 kA, 8/20μs)	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	-20 oC ÷ +60 oC
Maximum conductor for terminal	50 mm2
Certification	REA listed
Installation only by qualified electrician	IEC 60417–6182
ELEMKO management systems	ISO 9001, ISO 14001, ISO 45001