Datasheet

Surge arrester
POLIM 4.5 ID

Document ID 1HC0075852 E01 AB

Protection of
- Rolling Stock & railroad installations
- other medium voltage equipment

Application
- DC
- Indoor

Technical Data

Metal oxide surge arrester without spark gaps. Direct moulded silicone housing, grey color.
Designed and tested according to IEC 60099-4

Nominal discharge current I_n 8/20 µs	40 kA (pk)
Line discharge class	> 5
High current operating duty test I_{hc} 4/10 µs	400 kA (pk)
Long duration current impulse	4860 A / 2000 µs
Rated short circuit current I_s DC	40 kA DC for 0.2 s

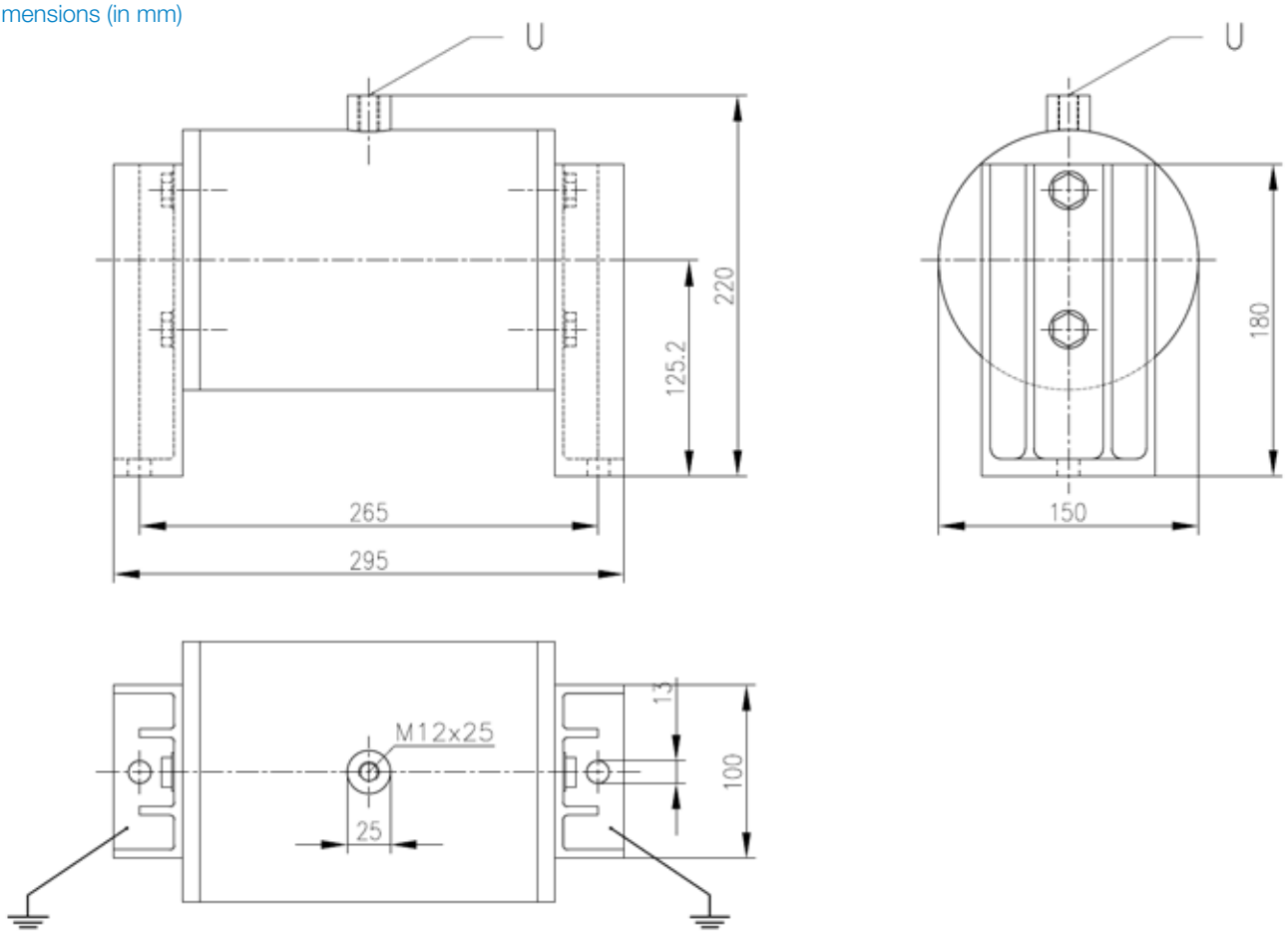
The thermal stability of the MO-surge arrester is proved in the operating duty test according to LD4 which gives an energy input 37.8 kJ/kV (U_c DC).

Ambient air temperature	-60 to +40 °C	(for higher values contact manufacturer)
Altitude	up to 1800 m	(for higher values contact manufacturer)
Frequency	DC	
Weather ageing	tested according to series A (1000 h salt fog)	

Typ POLIM 4.5 ID	U_c Continuous operating voltage kV (DC)	Residual voltage (U_{res}) in kV (pk) at specified impulse current									
		wave 1/ ... µs		wave 8/20 µs					wave 30/60 µs		
		20 kA (pk)	40 kA (pk)	4kA (pk)	10 kA (pk)	20 kA (pk)	40 kA (pk)	80 kA (pk)	1 kA (pk)	2 kA (pk)	4 kA (pk)
4.5	4.5	12.9	13.6	10.8	11.3	11.7	12.7	13.6	10.1	10.3	10.7

Dimensions and Weight

Dimensions (in mm)



Weight 11.5 kg

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Detailed information for dimensioning of our products see following ABB documents:

Application Guidelines Overvoltage Protection in medium voltage systems
Application Guidelines Overvoltage Protection in railway facilities

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