Surge arrester POLIM-C..LB



Overvoltage protection of

- Cable sheath
- Motors

Application

- Alternating current (AC)
- Indoor

Technical data

Surge arrester with metal oxide resistors without spark gaps (MO surge arrester), direct molded silicone housing, grey color, designed and tested according to IEC 60099-4.

Nominal discharge current / _n 8/20 µs	10 kA peak
Line discharge class (LD)	2
High current impulse I _{hc} 4/10 µs	100 kA peak
Long duration current impulse	550 A / 2000 µs

The thermal stability of the MO surge arrester is proved in the operating duty test according to LD 2, which gives an energy input of 5.5 kJ/kV (U_c).

Power frequency voltage versus time characteristic (TOV) with prior energy input

t = 1 s	$U_{\rm TOV} = 1.31 \times U_{\rm c}$
t = 3 s	$U_{\rm TOV} = 1.28 \times U_{\rm c}$
<i>t</i> = 10 s	$U_{\rm TOV} = 1.25 \times U_{\rm c}$

Mechanical loads

Torque moment	30 Nm
Tensile strength axial	1000 N

General data

Ambient air temperature	-60 to +40 °C (for higher values				
	contact manufacturer)				
Altitude	up to 1800 m (for higher values				
	contact manufacturer)				
Frequency of system voltage	16.7/50/60 Hz				



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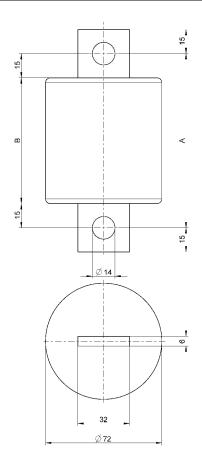
Electrical data

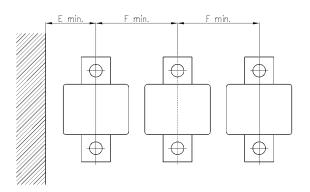
Uc	U r	Residu	Residual voltage U _{res} in kV peak at specified impulse current									
Continuous	Rated											
operating	voltage											
voltage												
		wave 1/	µs	wave 8/2	20 µs		wave 30/60 µs					
kV	kV	5 kA	10 kA	1.0 kA	2.5 kA	5 kA	10 kA	20 kA	125 A	250 A	500 A	
rms	rms	peak	peak	peak	peak	peak	peak	peak	peak	peak	peak	
2.3	2.88	8.7	9.7	6.8	7.2	7.5	7.9	9.1	5.9	6.1	6.4	
3.0	3.75	11.2	12.3	8.8	9.3	9.8	10.3	11.8	7.7	8.0	8.3	
4.0	5.0	14.8	16.1	11.8	12.5	13.1	13.8	15.8	10.3	10.7	11.1	
4.8	6.0	17.5	19.0	14.1	14.9	15.6	16.5	18.9	12.3	12.8	13.2	

Housing

Uc	Creepage	Flashover	Recon	nmended	Height	Height	Weight	Insulation with	g		
Continuous	distance	distance	minimum clearances		A	В		1.2/50 μs		1 min dry	
operating voltage								required values acc. to IEC	guaranteed	required values acc. to IEC	guaranteed
			E _{min}	F _{min}							•
kV rms	mm	mm	mm	mm	mm	mm	kg	kV peak	kV peak	kV rms	kV rms
2.3	93	93	42	77	85.5	55.5	< 0.62	11.9	60	4.8	14
3.0	93	93	49	77	85.5	55.5	< 0.65	15.4	60	6.3	14
4.0	115	115	60	92	108	78	< 0.87	21.0	60	8.4	14
4.8	115	115	69	104	108	78	< 0.91	25.0	60	9.9	14

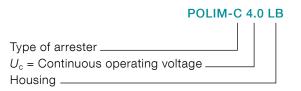
Dimensions (mm)





Standard dimensions without accessories (may be subject to changes) Dimensions according outline drawing 1HC0020135 Outline drawings with accessories on request

Structure of type designation



For further information please contact:

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Our products are certified according ISO 9001, 14001, 18001 and IRIS

For detailed information regarding the dimensioning of our products see the following ABB documents:

- Application guidelines Overvoltage protection Metal oxide surge arresters in medium voltage systems - Application guidelines
- Overvoltage protection Metal oxide surge arresters in railway facilities

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