

Surge arrester

2-electrode arrester

 Series/Type:
 EF1500X

 Ordering code:
 B88069X4301xxxx ^{a)}

 Version/Date:
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2-electrode arrester

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Features	Applications
 Standard size High follow current capability Very fast response time Stable performance over life Very low capacitance High insulation resistance RoHS-compatible 	 Application with high follow current Power supply

Electrical specifications

DC spark-over voltage ^{1) 2)}	1500 ± 20	V %
Impulse spark-over voltage at 100 V/µs - for 99 % of measured values - typical values of distribution	< 1800 < 1700	V V
at 1 kV/µs - for 99 % of measured values - typical values of distribution	< 2000 < 1800	V V
Service life		
10 operations 50 Hz, 1 s	5	А
1 operation 50 Hz, 0.18 s (9 cycles)	35	А
10 operations 8/20 µs	5	kA
1 operation 8/20 µs	10	kA
DC holdover voltage at 135 V _{dc}	< 150	ms
Insulation resistance at 100 V _{dc}	> 10	GΩ
Capacitance at 1 MHz	< 1.5	pF
Arc voltage at 1 A Glow to arc transition current Glow voltage	~ 22 < 0.5 ~ 140	V A V
Weight	~ 1.5	g
Operation and storage temperature	-40 +125	°C
Climatic category (IEC 60068-1)	40/ 125/ 21	
Marking, red positive EF - Series 1500 - Nominal voltag YY - Year of produc O - Non radioactive		le tion

^{a)} xxxx = S102 (100 pcs on 5 stripes)

= T502 (500 pcs on tape and reel)

¹⁾ At delivery AQL 0.65 level II, DIN ISO 2859

²⁾ In ionized mode

Terms in accordance with ITU-T Rec. K.12 and DIN 57845/VDE0845

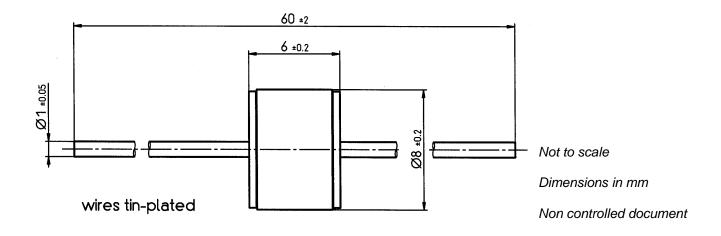
KB PD AB E / KB PD AB PM



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Dimensional drawing



Cautions and warnings

- Surge arrester must be selected so that the maximum expected follow current can be quenched.
- The follow current must be limited so that the arrester can be properly extinguished when the surge has decayed. The arrester might otherwise heat up and ignite adjacent components.
- Surge arresters must not be operated directly in power supply networks.
- Surge arresters may become hot in case of longer periods of current stress (danger of burning).
- Surge arresters may be used only within their specified values. In case of overload, the head contacts may fail or the component may be destroyed.
- Damaged surge arresters must not be re-used.

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