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勝 特 力 材 料 886-3-5753170 胜特力电子(上海) 86-21-34970699

胜特力电子(深圳) 86-755-83298787 Http://www.100y.com.tw

WWW.100Y.COM.TW COM.TW Surge arrester

3-electrode arrester

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שנייטאכע **UB502** ייטאני: Issue 03 / 2007-11-22 WWW.100Y.COM.TW Ordering code: WWW.100Y.COM.TW Version/Date:

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B88069X8430B502 Surge arrester

3-electrode arrester

T83-A90XF1

Features	Applications
Standard size	■ Branch exchange (MDF)
 Fast response time 	 Line protection
 High current rating 	 Station protection
 Stable performance over life 	M.TV WYW.10011 COM.11
 Very low capacitance 	OM.TO WW.100X.COM.TW
 High insulation resistance 	WWW.TOOY.CO.M.TW
Reliable failsafe device	COMMENTAL WWW. TOWN. TW
 RoHS-compatible 	COM. TW

Electrical specifications

DC spark-over voltage 1) 2) 4)	1.100X.COM.TW	90 ± 20	V %
	measured values es of distribution	< 400 < 300	V
	measured values es of distribution	< 450 < 350	V
Service life 10 operations 1 operation 10 operations (5x (+) & 5x (-)) 1 operation 1 operation	50 Hz, 1 s ⁵⁾ 50 Hz, 0.18 s (9 cycles) ⁵⁾ 8/20 μs ⁵⁾ 8/20 μs ⁵⁾ 10/350 μs ⁵⁾	10 40 10 15 5	A A kA kA
Insulation resistance at 50 V _{dc} ⁴⁾	WWW.100Y.CO	> 10	$G\Omega$
Capacitance at 1 MHz 4)	WW.1007.CO	< 1.5	pF co
Transverse delay time 3)	M. 100x.C	< 0.2	μs
Arc voltage at 1 A Glow to arc transition current Glow voltage	TM MMM.100X.C	~ 10 < 1 ~ 60	V A V
Weight	V.TM MM. 100	~ 2.2	g _{N.100} Y.C
Storage temperature	M.TW WW.100	-40 + 90	°C
Climatic category (IEC 60068-1)	ON.TW WWW.1	40/ 90/ 21	WW.1003
Marking, red negative	COM.TW WWW.	EPCOS 90 YY O 90 - Nominal voltage YY - Year of production O - Non radioactive	MMM.100

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Surge arrester B88069X8430B502

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3-electrode arrester T83-A90XF1

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

2) In ionized mode

3) Test according to ITU-T Rec. K.12

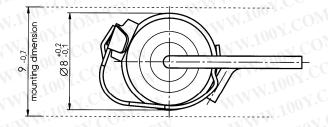
4) Tip or ring electrode to center electrode

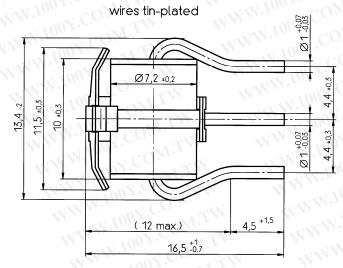
Total current through center electrode, half value through tip respectively ring electrode.

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

The arrester failsafe mechanism contains a solder pellet with a melting temperature range from 193 to 203 °C.

Dimensional Drawing





Not to scale

Dimensions in mm

Non controlled document

Cautions and warnings

- The short-circuit spring does not trigger until 190 °C is reached depending on the material. Care
 must be taken to limit the thermal radiation onto adjacent parts to safe values.
- Depending on the incorporation position, the surge arrester may have to be additionally secured by mechanical means.
- 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.
- Surge arrester with triggered short-circuit mechanisms must not be re-used.

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