



## Film Capacitors – AC Capacitors

Motor run capacitors

**Series/Type:** B32333 – Super MotorCap™, 250 V

**Ordering code:** B32333





**Date:** October 2010

**Version:** 4

### Construction

- Metallized polypropylene film
- Aluminum can with protective aluminum cover
- Soft polyurethane resin

### Features

- Self-healing properties
- Low dissipation factor
- Overpressure disconnection device safety class P2
- Enclosure IP54
- High insulation resistance
- EN 60335 compliant
- Capacitor    UL files E106388
- VDE approval 



### Typical applications

- For general sine wave applications, mainly as motor run capacitor


### Terminals

- Twin Core Cable type – 18 AWG, 600 V, 90° C
- Connectors: Straight or flag with 4.8 or 6.3 mm


### Mounting parts

- Threaded M8 stud on bottom of can as option

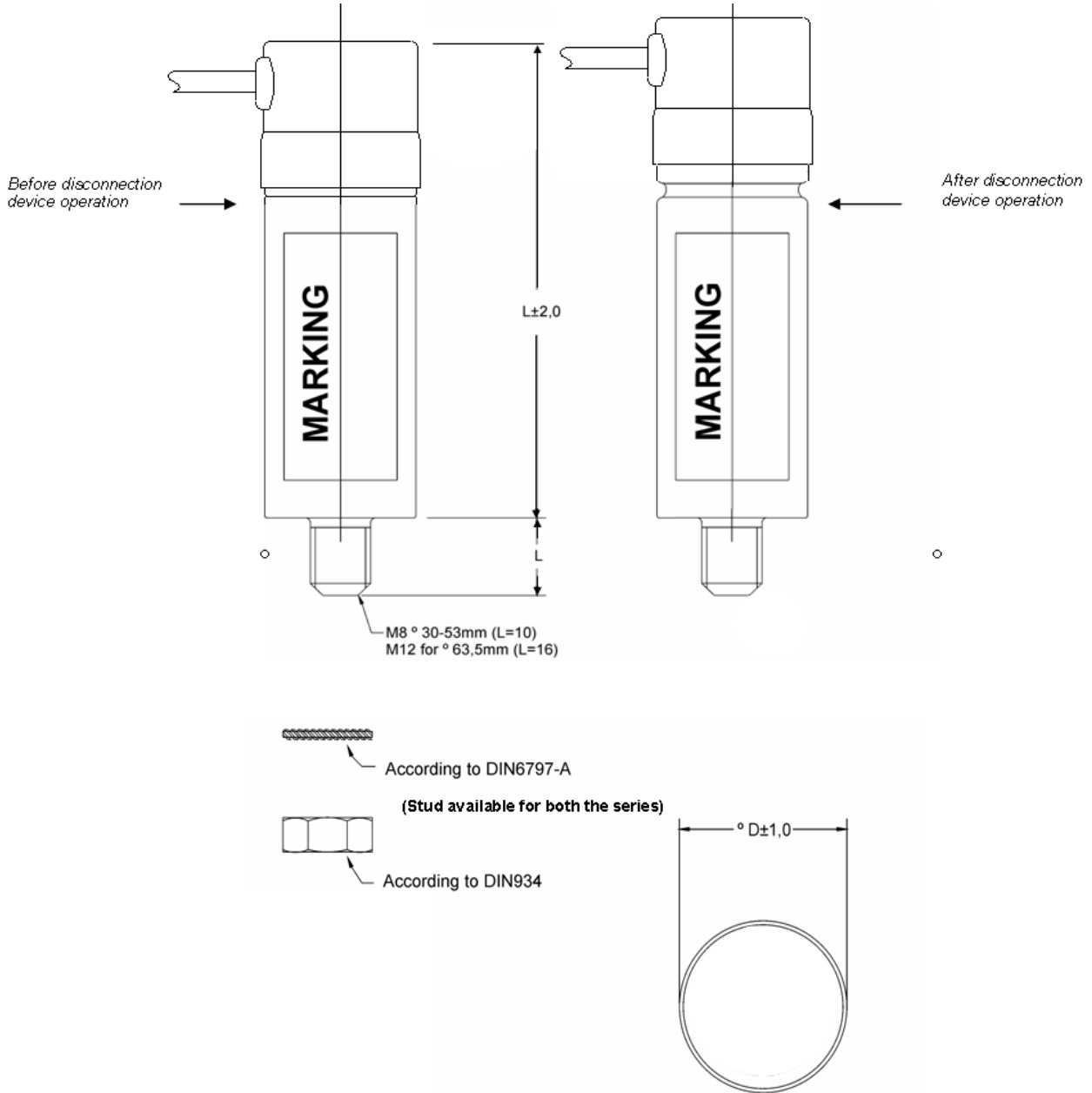
Technical data and specifications	
Reference standards	IEC 60252-1 2001-02 EN 60252 2001 UL 810 5th edition
Safety class according IEC 60252-1 2001-02	P2 protected
VDE testing & certification institute approval for Nashik & Gravatai plant.	250 V 10 000 h class B
Maximum fault current according UL 810 5 <sup>th</sup> edition approval	AFC 10000 A
Rated capacitance $C_R$	1...35 $\mu$ F
Tolerance	$\pm 5\%$ , $\pm 6\%$ , $\pm 10\%$ ,
Rated voltage $V_R$	250 V
Rated frequency $f_R$	50 / 60 Hz

<b>Maximum ratings</b>	
Maximum permissible voltage $V_{max}$	$1.1 \times V_R$ ( $V_R =$ Rated voltage)
Maximum permissible current $I_{max}$	$1.3 \times I_R$ ( $I_R =$ Rated current)
<b>Test data</b>	
AC test voltage terminal to terminal $V_{TT}$	$2 \times V_R, 60 \text{ s}$
Insulation voltage terminals to case	$2\,000 \text{ Vac}, 60 \text{ s}$
Insulation resistance $R_H$ or time constant $\tau$ at $20 \text{ }^\circ\text{C}$ Rel. Humidity $\leq 65 \text{ }^\circ\text{C}$ (minimum value)	$3\,000 \text{ s}$
Dissipation factor $\tan\delta$ at $20 \text{ }^\circ\text{C}$	$\leq 1,0 \times 10^{-3}$ (120 Hz)
Maximum rate of voltage rise $dv/dt_{max}$	$10 \text{ V}/\mu\text{s}$
<b>Climatic data</b>	
Climatic category	25/085/21 according to IEC 60068-1
Lower category $T_{min}$	$-25 \text{ }^\circ\text{C}$
Upper category $T_{max}$	$+85 \text{ }^\circ\text{C}$
Damp heat test $t_{test}$	21 days
Permitted capacitance $\Delta C/C$	$\leq 3 \%$
<b>Mechanical and electrical properties of terminal material</b>	
Ball pressure test acc. IEC 60309-1 sec. 27.3	At $125 \text{ }^\circ\text{C}$
Glow wire test acc. IEC 60695-2-1/0 and –2-1/1 Test temp $550 \text{ }^\circ\text{C}$ for $I_R \leq 0.5 \text{ A}$ Test temp $850 \text{ }^\circ\text{C}$ for $I_R > 0.5 \text{ A}$	Self extinguish within 30 seconds of withdrawing any flame or glow wire without igniting wrapping tissue
Plastic top disk material	UL 94 V0 compliant / IEC 60335-1 on requirement
Tracking test acc. IEC 60112 solution A	At $250 \text{ V}$
<b>Compatibility to RoHS</b>	
Compliance to directive 2002/95/EC	

### Cautions and warnings

 Please read “Applications warning, installation and maintenance instructions” and the “General Safety Data Sheet for Power Capacitors” issued by ZVEI, which are available on the internet at [www.epcos.com/ac\\_capacitors](http://www.epcos.com/ac_capacitors), to ensure optimum performance and to prevent products from failing, and in worst case, bursting and fire. Information given in the data sheet reflects typical specifications. You are kindly requested to approve our product specifications or request our approval for your specification before ordering.

Dimensional drawing



**Ordering codes and packing units**

V <sub>R</sub> Vac	C <sub>R</sub> μF	Dimensions d x h mm	Approval VDE / UL	Ordering Code	Packing Unit
250	5.0	30 x 90	VDE & UL	B32333B1505J0#*	80
	10.0	30 x 90	VDE & UL	B32333B1106J0#*	80
	12.0	35 x 100	VDE & UL	B32333B1126J0#*	63
	15.0	35 x 100	VDE & UL	B32333B1156J0#*	63
	20.0	40 x 100	VDE & UL	B32333B1206J0#*	48
	25.0	40 x 100	VDE & UL	B32333B1256J0#*	48

**Composition of ordering code:**
**#: construction**

- 5 aluminum can, Option A: UL 94 V2 top
- 6 aluminum can, Option B: UL 94 V2/V0 top/IEC 60335-1
- 7 aluminum can with M 8 bolt, Option A: UL 94 V2 top
- 8 aluminum can with M 8 bolt, Option B: UL 94 V2/V0 top/IEC 60335-1

\*: Ordering codes will be created based on cable length and receptacles on request

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