

# Film capacitors – AC capacitors

# Motor run capacitors

250 V; class B; 85 °C

Series/Type: B32330/B32332 - MotorCap™

Date: July 2007

Version: 1.0

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### Construction

- Dielectric: polypropylene film
- Aluminum can
- Soft polyurethane resin

### **Features**

- Self-healing properties
- Low dissipation factor
- Overpressure disconnection device
- Highest safety level P2 to IEC 60252-1 2001-02
- High insulation resistance
- Capacitor C N US UL files E106388

## **Typical applications**

 For general sine wave applications, mainly as motor run capacitor

#### **Terminals**

B32330 – single fast-on: 6.3 × 0.8 mm
 B32332 – double fast-on: 6.3 × 0.8 mm

### **Mounting parts (optional)**

■ Threaded stud at bottom of can (M8; max. torque = 5 Nm)

Technical data and specifications				
Reference standards	IEC 60252-1 2001-02			
	EN 60252 2001			
	UL 810			
Safety class to IEC 60252-1 2001-02	P2			
Life expectancy to IEC 60252 2001	250 V: 10,000 h (class B)			
UL 810 file E106388	Approved component 10000 AFC			
Rated capacitance C <sub>R</sub>	See dimensions table			
Tolerance	±5%			
Rated voltage V <sub>R</sub>	250 V			
Rated frequency f <sub>R</sub>	50/60 Hz			





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Maximum ratings				
Maximum permissible voltage V <sub>max</sub>	$1.1 \cdot V_R$ (V <sub>R</sub> = rated voltage)			
Maximum permissible current I <sub>max</sub>	$1.3 \cdot I_R$ ( $I_R$ = rated current)			
Test data				
AC test voltage terminal to terminal V <sub>TT</sub>	$2 \cdot V_R$ , 2 s (routine test) 2 · $V_R$ , 60 s (type test)			
Insulation voltage terminals to case	2,000 V AC, 60 s (type test) 2,000 V AC, 2 s (routine test)			
Insulation resistance $R_{\text{ins}}$ or time constant $\tau$ at 20 °C; rel. humidity $\leq$ 65% (minimum as-delivered values)	3,000 s			
Dissipation factor tan $\delta$ at 20 °C	≤ 1,0 · 10 <sup>-3</sup> (120 Hz)			
Maximum rate of voltage rise dV/dt <sub>max</sub>	10 V/μs			
Climatic data				
Climatic category	25/085/21 to IEC 60068-1			
Lower category T <sub>min</sub>	–25 °C			
Upper category T <sub>max</sub>	+85 °C			
Damp heat test t <sub>test</sub>	21 days			
Mechanical and electrical properties of terminal top d	isk material			
Ball pressure test to IEC 60309-1 sec. 27.3	at 125°C			
Top disk material				
Option A:				
■ UL 94 V2 compatible				
Glow wire test to IEC 60695-2-11  Test temp 550 °C for $I_R \le 0.5$ A  Test temp 850 °C for $I_R > 0.5$ A	Self-extinguish within 30 seconds of withdrawing glow wire			
Option B:				
■ UL 94 V2/V0 compatible				
<ul> <li>Glow wire test to IEC60335-1 &amp; IEC 60695-2-11</li> <li>Test temp 550 °C / 750 °C</li> </ul>	Self-extinguish within 2 seconds of withdrawing glow wire			
■ Part is compatible to EN 60335-1				
Tracking test to IEC 60112 solution A	> 250 V			
Compatibility to RoHS				
Compliance to directive 2002/95/EC	RoHS			

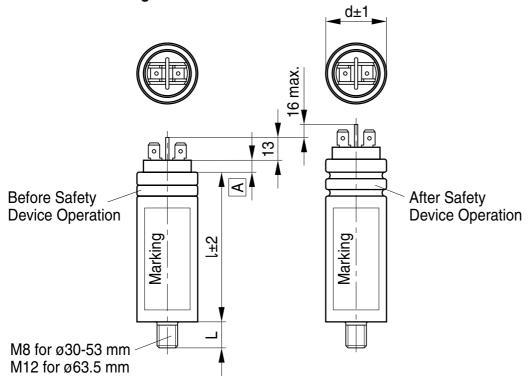


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### Dimensional drawings B32330/B32332



According to DIN 6797-A

According to DIN 934

KMK1156-A-E

M 8 bolt: **L** = 12 mm M 12 bolzt: **L** = 16 mm

A = 5 mm for diameters d =30, 35, 40, 45 mm A = 0 mm for diameters d = 50, 53, 63.5 mm



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### Ordering codes and packing units

V <sub>R</sub>	C <sub>R</sub>	Max. dimensions d x l	Ordering code	Packing units
V AC	μF	mm		
250 4 5 6 7 8 10 12 15 20 25 30 35 40 45 50 55 60	4	30 × 68	B3233*B1405J0#0	150
	5	30 × 68	B3233*B1505J0#0	150
	6	30 × 68	B3233*B1605J0#0	150
	7	30 × 68	B3233*B1705J0#0	150
	8	30 × 68	B3233*B1805J0#0	150
	10	30 × 68	B3233*B1106J0#0	150
	12	30 × 68	B3233*B1126J0#0	150
	15	35 × 68	B3233*B1156J0#0	50
	20	35 × 68	B3233*B1206J0#0	50
	25	35 × 78	B3233*B1256J0#0	50
	30	40 × 78	B3233*B1306J0#0	50
	35	40 × 78	B3233*B1356J0#0	50
	40	40 × 78	B3233*B1406J0#0	50
	45	40 × 78	B3233*B1456J0#0	50
	50	40 × 103	B3233*B1506J0#0	50
	55	40 × 103	B3233*B1556J0#0	50
	60	40 × 103	B3233*B1606J0#0	50

#### Composition of ordering code:

- \*: terminals
- 0 single fast-on terminals
- 2 double fast-on terminals

#: construction of can and plastic top

- 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

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