



Film capacitors – AC capacitors

Motor run capacitors

250 V; class B; 85 °C

Series/Type: B32330/B32332 – MotorCap™

Date: July 2007

Version: 1.0

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 **CALUS** 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_R	See dimensions table
Tolerance	±5%
Rated voltage V_R	250 V
Rated frequency f_R	50/60 Hz

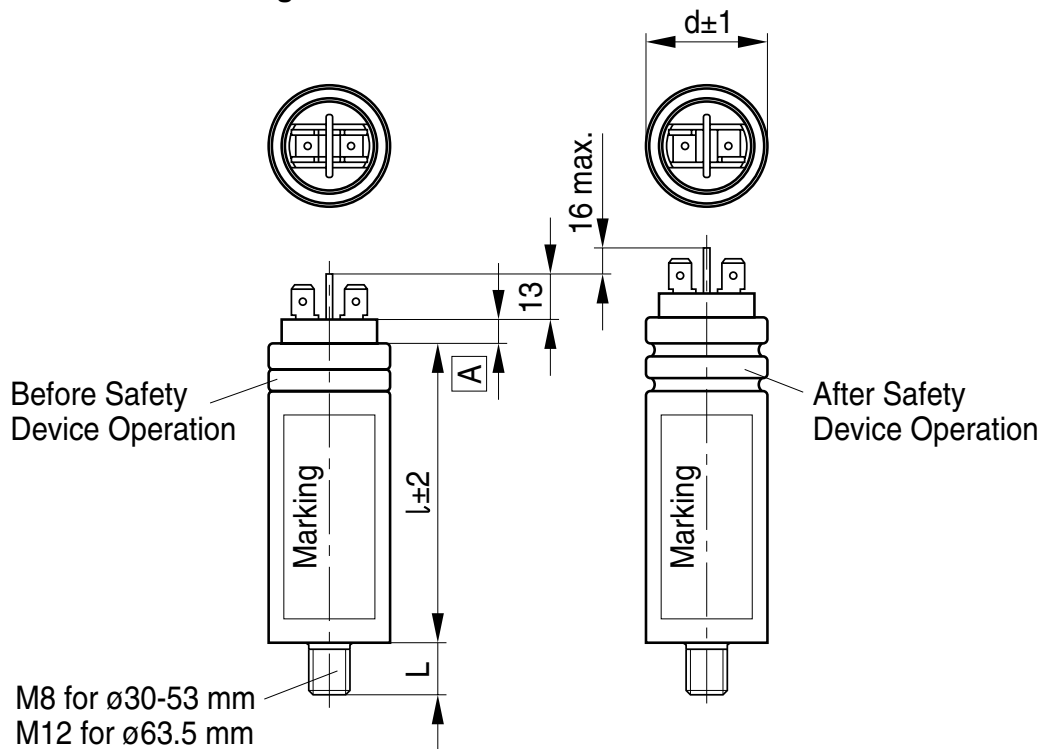
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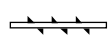
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Maximum ratings	
Maximum permissible voltage $V_{\max}$	$1.1 \cdot V_R$ (V_R = rated voltage)
Maximum permissible current $I_{\max}$	$1.3 \cdot I_R$ (I_R = rated current)
Test data	
AC test voltage terminal to terminal V_{TT}	$2 \cdot V_R$, 2 s (routine test) $2 \cdot V_R$, 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_{ins} or time constant τ at 20 °C; rel. humidity $\leq 65\%$ (minimum as-delivered values)	3,000 s
Dissipation factor $\tan \delta$ at 20 °C	$\leq 1,0 \cdot 10^{-3}$ (120 Hz)
Maximum rate of voltage rise $dV/dt_{\max}$	10 V/ μs
Climatic data	
Climatic category	25/085/21 to IEC 60068-1
Lower category $T_{\min}$	-25 °C
Upper category $T_{\max}$	+85 °C
Damp heat test t_{test}	21 days
Mechanical and electrical properties of terminal top disk 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 $I_R \leq 0.5$ 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 ■ Glow wire test to IEC 60335-1 & IEC 60695-2-11 Test temp 550 °C / 750 °C ■ Part is compatible to EN 60335-1	Self-extinguish within 2 seconds of withdrawing glow wire
Tracking test to IEC 60112 solution A	> 250 V
Compatibility to RoHS	
Compliance to directive 2002/95/EC	

Dimensional drawings B32330/B32332



 According to DIN 6797-A

 According to DIN 934

KMK1156-A-E

M 8 bolt: $L = 12$ mm

M 12 bolt: $L = 16$ mm

$A = 5$ mm for diameters $d = 30, 35, 40, 45$ mm

$A = 0$ mm for diameters $d = 50, 53, 63.5$ mm

Ordering codes and packing units

V _R V AC	C _R μF	Max. dimensions d x l mm	Ordering code	Packing units
250	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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