

# AC Film Capacitors, Motor Run Capacitors

Series/Type: B32332

The following products presented in this data sheet are being withdrawn.

Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B32332I6505J081	B32332I6505J080	2014-11-28	2015-02-28	2015-05-31

For further information please contact your nearest EPCOS sales office, which will also support you in selecting a suitable substitute. The addresses of our worldwide sales network are presented at www.epcos.com/sales.

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# Film Capacitors – AC Capacitors

B32330/B32332

## Motor run capacitors

B32330/B32332 - Super MotorCap™, 450 V

#### Construction

- Metallized polypropylene film
- Aluminum can with plastic top
- Soft polyurethane resin

#### **Applications**

 For general sine wave applications, mainly as motor run capacitor

#### **Features**

- Self-healing properties
- Low dissipation factor
- Highest safety level P2 to IEC 60252-1 2001-02
- Overpressure disconnection device
- High insulation resistance
- EN 60335-1 compliance on request

#### **Terminals**

- B32330 Single Fast-on: 6.3 x .8 mm / Single Fast-on 4.8 x 0.5
- B32332 Double Fast-on: 6.3 x 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		
Life expectance to IEC 60252 2001	450 V: 30,000 h (class A)		
Safety class according to IEC 60252-1 2001-02	P2		
UL 810 file E 106388	Approved component 10000 AFC protected up to 450 V		
Rated capacitance C <sub>R</sub>	See table ordering codes, page 6		
Tolerance	±5%		
Permitted capacitance ΔC/C	≤3%		
Rated voltage V <sub>R</sub>	450 V AC		
Rated frequency f <sub>R</sub>	50/60 Hz		



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Film	Capacitors -	- AC	Canacitors
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**Motor run capacitors** 

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Maximum ratings					
Maximum permissible voltage V <sub>max</sub>	1.1 V <sub>R</sub> (V <sub>R</sub> = Rated voltage)				
Maximum permissible current I <sub>max</sub>	1.3 I <sub>R</sub> (I <sub>R</sub> = Rated current)				
Test data					
AC test voltage terminal to terminal V <sub>TT</sub>	2 V <sub>R</sub> , 2 s (routine test)				
	2 V <sub>R</sub> , 60 s (type test)				
AC test voltage terminals to can $V_{\text{TC}}$	2 kV AC, 2 s (routine test)				
	2 kV AC, 60 s (type test)				
Insulation resistance $R_{\text{ins}}$ or time constant $\tau$ at 20 °C, Rel. humidity max. value 85%, annual means $\leq$ 65%	3000 s				
Dissipation factor tan δ at 20 ℃	≤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 ℃				
Upper category T <sub>max</sub>	+85 ℃				
Damp heat test t <sub>test</sub>	21 days				
Mechanical and thermal properties					
Ball pressure test to IEC 60309-1 sec. 27.3	At 125 ℃				
Plastic can and top disk material	UL 94 V2 minimum				
■ UL 94 V2/V0 compatible					
■ Glow wire test to IEC 60335-1 / IEC 60695-2-1/1 Test temperature 550 °C / 750 °C	Self-extinguish within 2 seconds of withdrawing				
Part is compatible to EN 60335-1	glow wire				
Tracking test to IEC 60112 solution A	>250 V				
Compatibility to RoHS					
Compliance to directive 2002/95/EC	RoHS				

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Approvals		
VDE EN 60252-1		
450 V / 85 °C:	30000 h (class A)	Approved up to 20 μF
TÜV EN 60252-1		
450 V / 85 ℃:	30000 h (class A)	Approved up to 50 μF
UL 810 E106388		Approved component 10000 AFC,
<sub>C</sub> <b>AL</b> <sub>US</sub>		protected up to 450 V
cec		Approved on request
Logistics		
Delivery mode		■ EU pallet as standard
		Cardboard tape on pallet
		■ Pack unit, see dimension table

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## **Cautions and warnings**

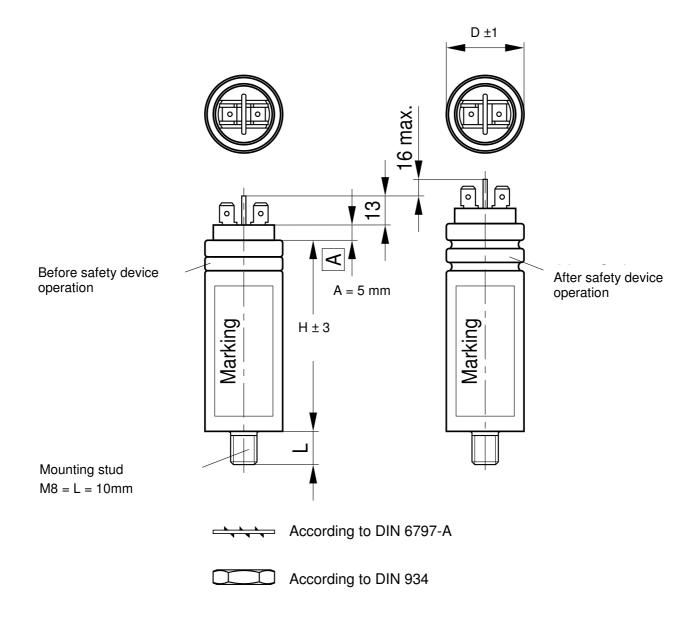
Please read "Applications warning, installation and maintenance instructions" and the "General Safety Data Sheet for Power Capacitors" issued by ZVEI, which are available on the internet at <a href="www.epcos.com/ac\_capacitors">www.epcos.com/ac\_capacitors</a>, to ensure optimum performance and to prevent 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.

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## **Dimensional drawing**





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**Motor run capacitors** 

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## **Ordering codes**

V <sub>R</sub> V AC	CR	Dimensions	Ordering code	App	rovals	Class	Packaging	
	μF	D x H mm		VDE	TUV	UL	CQC	unit
	1	30 x 52	B3233*I6105J0#0	Α	Α	•	•	49
	1.5	30 x 52	B3233*I6155J0#0	Α	Α	•	•	49
	2	30 x 52	B3233*I6205J0#0	Α	Α	•	•	49
	2.5	30 x 52	B3233*I6255J0#1	Α	Α	•	•	49
	3	30 x 52	B3233*I6305J0#0	Α	Α	•	•	49
	3.5	30 x 52	B3233*I6355J0#0	Α	Α	•	•	49
	4	30 x 52	B3233*I6405J0#0	Α	Α	•	•	49
	5	30 x 52	B3233*I6505J0#1	Α	Α	•	•	49
	6	30 x 52	B3233*I6605J0#0	Α	Α	•	•	49
	7	30 x 52	B3233*I6705J0#0	Α	Α	•	•	49
	7.5	30 x 68	B3233*I6755J0#0	Α	Α	•	•	49
	8	30 x 68	B3233*I6805J0#0	Α	Α	•	•	49
	9	30 x 68	B3233*I6905J0#0	Α	Α	•	•	49
	10	30 x 68	B3233*I6106J0#0	Α	Α	•	•	49
450	11	30 x 78	B3233*I6116J0#0	Α	Α	•	•	49
450	12	30 x 78	B3233*I6126J0#0	Α	Α	•	•	49
	15	30 x 78	B3233*I6156J0#0	Α	Α	•	•	49
	17	30 x 93	B3233*I6176J0#0	Α	Α	•	•	49
	18	30 x 93	B3233*I6186J0#0	Α	Α	•	•	49
<u> </u>	20	30 x 93	B3233*I6206J0#1	Α	Α	•	•	49
	22	35 x 93	B3233*I6226J0#2		Α	•	•	36
	25	35 x 93	B3233*I6256J0#0		Α	•	•	36
	30	35 x 93	B3233*I6306J0#0		Α	•	•	36
	35	35 x 103	B3233*I6356J0#1		Α	•	•	36
	36	40 x 103	B3233*I6366J0#1		Α	•	•	36
	40	40 x 103	B3233*I6406J0#1		Α	•	•	36
	45	40 x 103	B3233*I6456J0#1		Α	•	•	36
	50	45 x 103	B3233*I6506J0#1		Α	•	•	25
	55	45 x 103	B3233*I6556J0#2			•	•	25
	60	45 x 103	B3233*I6606J0#2			•	•	25

#### Composition of ordering code

\*: terminals

construction of can and plastic top #:

0 single fast-on terminals 6 aluminum can: UL 94 V2/V0 top/IEC 60335-1

2 double fast-on terminals aluminum can with M 8 bolt: UL 94 V2/V0 top/IEC 60335-1

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