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The following products presented in this data sheet are being withdrawn.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

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_R	See table ordering codes, page 6
Tolerance	±5%
Permitted capacitance $\Delta C/C$	≤3%
Rated voltage V_R	450 V AC
Rated frequency f_R	50/60 Hz

Maximum ratings	
Maximum permissible voltage V_{max}	1.1 V_R (V_R= Rated voltage)
Maximum permissible current I_{max}	1.3 I_R (I_R= Rated current)
Test data	
AC test voltage terminal to terminal V_{TT}	2 V_R, 2 s (routine test) 2 V_R, 60 s (type test)
AC test voltage terminals to can V_{TC}	2 kV AC, 2 s (routine test) 2 kV AC, 60 s (type test)
Insulation resistance R_{ins} or time constant τ at 20 °C, Rel. humidity max. value 85%, annual means ≤ 65%	3000 s
Dissipation factor tan δ at 20 °C	≤1.0 ·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 thermal properties	
Ball pressure test to IEC 60309-1 sec. 27.3	At 125 °C
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 ■ 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	RoHS compatible

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 °C:	30000 h (class A)	Approved up to 50 µF
UL 810 E106388 C UL US		Approved component 10000 AFC, protected up to 450 V
CQC		Approved on request
Logistics		
Delivery mode		■ EU pallet as standard ■ Cardboard tape on pallet ■ Pack unit, see dimension table

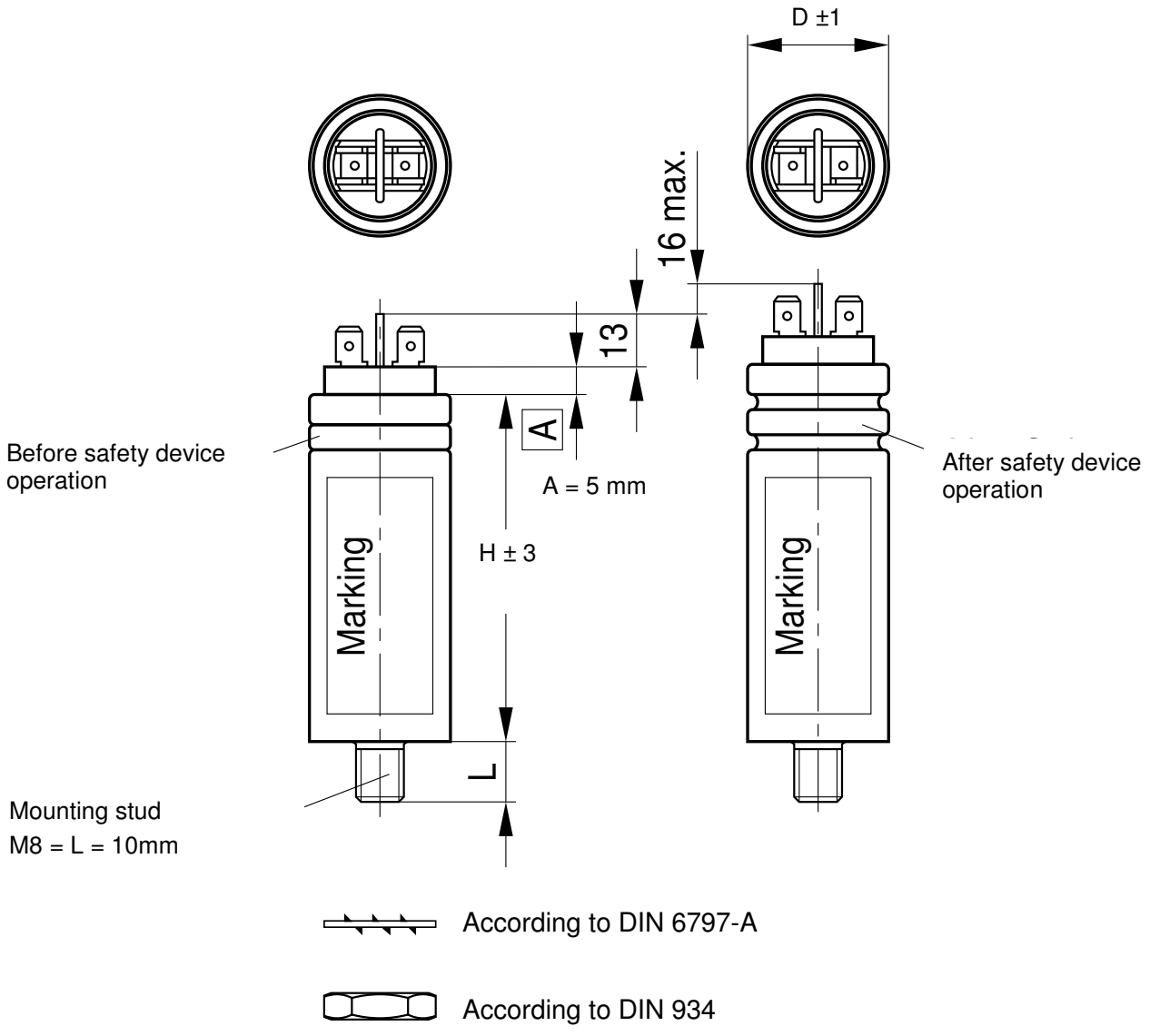
Display of ordering codes for EPCOS products

The ordering code for one and the same product can be represented differently in data sheets, data books, other publications and the website of EPCOS, or in order-related documents such as shipping notes, order confirmations and product labels. **The varying representations of the ordering codes are due to different processes employed and do not affect the specifications of the respective products**. Detailed information can be found on the Internet under www.epcos.com/orderingcodes

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**, 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

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

Composition of ordering code

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

: construction of can and plastic top
6 aluminum can: UL 94 V2/V0 top/IEC 60335-1
8 aluminum can with M 8 bolt: UL 94 V2/V0 top/IEC 60335-1

Important notes

The following applies to all products named in this publication:

1. Some parts of this publication contain **statements about the suitability of our products for certain areas of application**. These statements are based on our knowledge of typical requirements that are often placed on our products in the areas of application concerned. We nevertheless expressly point out **that such statements cannot be regarded as binding statements about the suitability of our products for a particular customer application.** As a rule, EPCOS is either unfamiliar with individual customer applications or less familiar with them than the customers themselves. For these reasons, it is always ultimately incumbent on the customer to check and decide whether an EPCOS product with the properties described in the product specification is suitable for use in a particular customer application.
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3. **The warnings, cautions and product-specific notes must be observed.**
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