

## Film Capacitors – AC Capacitors

### Motor run capacitors

**Series/Type:** B32329 – MotorCap  
**Ordering code:** B32329

**Date:** September 2016  
**Version:** 2

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## Film Capacitors – AC Capacitors

B32329

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#### Construction

- Metallized polypropylene film
- Plastic can and top UL 94 V2 material minimum
- Dry type

#### Features

- Self-healing properties
- Low dissipation factor
- S0 safety class to IEC60252-1 (ed.2) am1:
- High insulation resistance

#### Typical applications

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

#### Terminals

- Insulated copper wire, 0.5mm<sup>2</sup> minimum

#### Mounting parts (optional)

- Threaded stud at bottom of can (M8, max. torque = 5 Nm)
- Locking clip for mounting into a hole of Ø 8 mm



#### Technical data and specifications





Reference standards	EN60252-1: 2014-07 IEC60252-1: Ed 2,2013-8,amendment 1	
Safety class to IEC 60252-1/ 2013	S0	
Life expectancy to IEC 60252-1 /2013	250 V/85 °C: 10000 h (class B) 400 V/85 °C: 10000 h (class B)	
Rated capacitance C <sub>R</sub>	See table ordering code	
Tolerance Tx	±5%	
Rated voltage V <sub>rms</sub>	250 V AC, 400 V AC	
Rated frequency f <sub>R</sub>	50/60 Hz	
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)	

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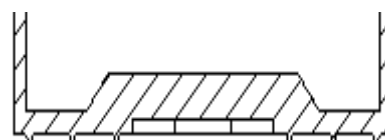
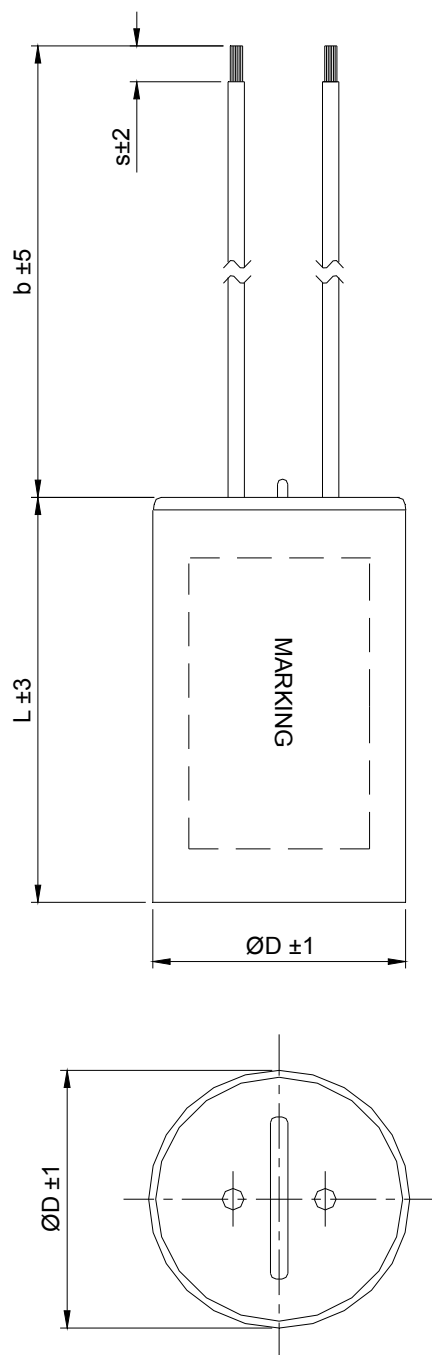
Test data	
AC test voltage terminal to terminal $V_{TT}$	$2 \bullet V_R$ , 2 s (routine test) $2 \bullet V_R$ , 60 s (type test)
Insulation resistance $R_{ins}$ or time constant $\tau$ at 20 °C, rel. humidity $\leq 65\%$ (minimum as-delivered values)	3000 s
Dissipation factor $\tan \delta$ at 20 °C	$\leq 7.0 \bullet 10^{-3}$ (1 kHz)
Maximum rate of voltage rise $dV/dt_{max}$	10 V/ $\mu$ s
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	20 N at 125 °C
Plastic can and top disk material	Compliant to IEC 60252-1
Option A: <ul style="list-style-type: none"> <li>■ UL 94 V2 compatible</li> <li>■ Glow wire test to IEC 60695-2-1/0 and -2-1/1            Test temp 550 °C for <math>I_R \leq 0.5</math> A            Test temp 850 °C for <math>I_R &gt; 0.5</math> A         </li> </ul>	Self-extinguishing within 30 seconds of withdrawing the glow wire and without igniting wrapping tissue.
Tracking test to IEC 60112 solution A	> 250 V
Compatibility to RoHS	
Compliance to directive 2002/95/EC	
Approvals	
<b>VDE EN 60252-1</b> 	Approved 400V/85 °C: 10000h(class B) for 1.5 $\mu$ F to 50 $\mu$ F 480 V/85 °C: 3000h (class C) for 3 $\mu$ F to 35 $\mu$ F
 UL 810 files E183224 (Construction only)	Approved
	Compliance to LV directive 2014/35/EU

### Display of ordering codes for EPCOS products

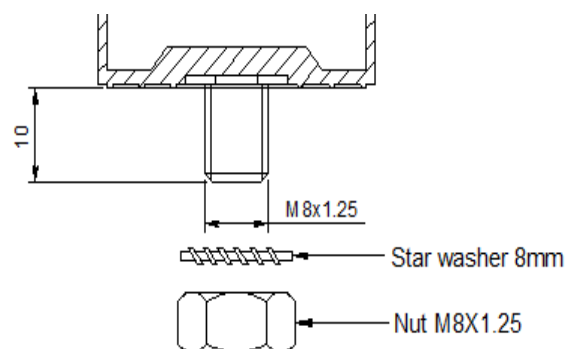
The ordering code for one and the same EPCOS product can be represented differently in data sheets, data books, other publications, on the EPCOS website, or in order-related documents such as shipping notes, order confirmations and product labels. **The varying representations of the ordering codes are 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](http://www.epcos.com/orderingcodes)

## Dimensional drawings

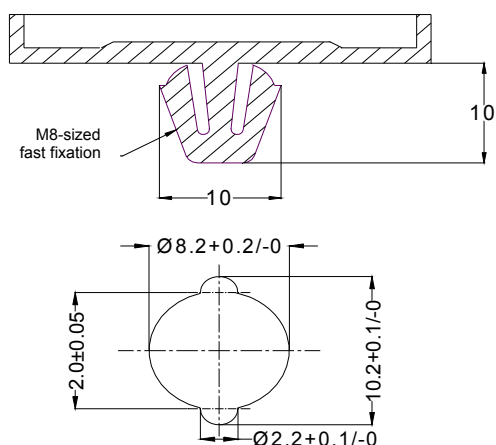
# = 1: Can without mounting



# = 1: Can with M8 bolt



# = 5: Locking clip



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**B32329**
**Motor run capacitors**
**B32329 – MotorCap**
**Ordering codes and packing units**

Rated voltage $V_R$ V AC	Rated capacitance $C_R$ $\mu F$	Dimensions D × L mm	Ordering code	Approvals	Packing unit pcs.
250	1.5	25 × 58	B32329C1155J0#*	UL	112
	2	25 × 58	B32329C1205J0#*	UL	112
	3	25 × 58	B32329C1305J0#*	UL	112
	4	25 × 58	B32329C1405J0#*	UL	112
	5	25 × 58	B32329C1505J0#*	UL	112
	6	25 × 58	B32329C1605J0#*	UL	112
	7	25 × 58	B32329C1705J0#*	UL	112
	7.5	25 × 58	B32329C1755J0#*	UL	112
	8	25 × 58	B32329C1805J0#*	UL	112
	9	30 × 62	B32329C1905J0#*	UL	112
	10	30 × 62	B32329C1106J0#*	UL	112
	12	30 × 62	B32329C1126J0#*	UL	112
	14	30 × 62	B32329C1146J0#*	UL	112
	15	30 × 62	B32329C1156J0#*	UL	112
	16	35 × 62	B32329C1166J0#*	UL	84
	18	35 × 62	B32329C1186J0#*	UL	84
	20	35 × 62	B32329C1206J0#*	UL	84
	22	35 × 62	B32329C1226J0#*	UL	84
	25	35 × 71	B32329C1256J0#*	UL	84
	30	35 × 71	B32329C1306J0#*	UL	84
	35	40 × 71	B32329C1356J0#*	UL	60
	40	40 × 71	B32329C1406J0#*	UL	60
	45	40 × 71	B32329C1456J0#*	UL	60
	50	40 × 96	B32329C1506J0#*	UL	60
	55	40 × 96	B32329C1556J0#*	UL	60
	60	40 × 96	B32329C1606J0#*	UL	60

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Rated voltage $V_R$ V AC	Rated capacitance $C_R$ $\mu F$	Dimensions D × L mm	Ordering code	Approvals	Packing unit pcs.
400	1.5	25 × 58	B32329B4155J0#*	VDE,UL	112
	2	25 × 58	B32329B4205J0#*	VDE,UL	112
	3	25 × 58	B32329B4305J0#*	VDE,UL	112
	4	25 × 58	B32329B4405J0#*	VDE,UL	112
	5	30 × 62	B32329B4505J0#*	VDE,UL	112
	6	30 × 62	B32329B4605J0#*	VDE,UL	112
	7	35 × 62	B32329B4705J0#*	VDE,UL	84
	8	35 × 62	B32329B4805J0#*	VDE,UL	84
	9	35 × 62	B32329B4905J0#*	VDE,UL	84
	10	35 × 62	B32329B4106J0#*	VDE,UL	84
	12	35 × 71	B32329B4126J0#*	VDE,UL	84
	14	35 × 71	B32329B4146J0#*	VDE,UL	84
	15	40 × 71	B32329B4156J0#*	VDE,UL	60
	16	40 × 71	B32329B4166J0#*	VDE,UL	60
	18	40 × 71	B32329B4186J0#*	VDE,UL	60
	20	40 × 71	B32329B4206J0#*	VDE,UL	60
	22	40 × 96	B32329B4226J0#*	VDE,UL	60
	25	40 × 96	B32329B4256J0#*	VDE,UL	60
	30	40 × 96	B32329B4306J0#*	VDE,UL	60
	35	45 × 96	B32329B4356J0#*	VDE,UL	45
	40	45 × 96	B32329B4406J0#*	VDE,UL	45
	45	50 × 96	B32329B4456J0#*	VDE,UL	32
	50	50 × 96	B32329B4506J0#*	VDE,UL	32
	55	50 × 96	B32329B4556J0#*	UL	32
	60	50 × 96	B32329B4606J0#*	UL	32

**Composition of ordering code:**

#: construction

- 1 plastic can
- 3 plastic can with M8 bolt
- 5 plastic can with locking clip, available for diameters 30 mm, 32 mm and 35 mm,  
others on request

\*: Wire length (dimension 'b', s in drawing)

Note: Dimension "b" and "s" will vary as per requirement.

**Cautions and warnings**

Please read "Applications warning, installation and maintenance instructions" and the "ZVEI - General safety recommendations for power capacitors", 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.

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