

# Film capacitors - AC capacitors Motor run capacitors

# Series/Type: B32328

The following products presented in this data sheet are being withdrawn.

Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B32328A4256J037		2013-02-08	2013-05-08	2013-08-08

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.



#### **Motor Run Capacitors**

### Construction

- Dielectric: polypropylene film
- Plastic can and top UL 94 V2 material
- Dry type

### Features

- Self-healing properties
- Low dissipation factor
- P0 as per IEC 60252-1 2001-02
- High insulation resistance
- Case IP 53 protected
- IEC/EN 60335-1 compatible on request

### **Typical applications**

 For general sine wave applications, mainly as motor run capacitor

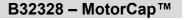
### Terminals

- Twin core cable type PP 2 × 0.50 mm<sup>2</sup>, 600 V, 95 °C
- Connectors on request

### Mounting parts (optional)

- Threaded stud at bottom of can (max. torque = 5 Nm)
- Fast fixation for mounting into a hole of Ø 8 mm

Technical data and specifications			
Reference standards	IEC 60252-1 2001-02 / EN 60252 2001		
Safety class to IEC 60252-1 2001-02	P0		
Life expectancy to IEC 60252 2001	250 V/85 °C: 10,000 h (class B)   400 V/85 °C: 10,000 h (class B)   480 V/85 °C: 3,000 h (class C)		
Rated capacitance C <sub>R</sub>	See dimensions table		
Tolerance	±5%		
Rated voltage V <sub>R</sub>	250 V, 400 V, 480 V		
Rated frequency f <sub>R</sub>	50/60 Hz		
Maximum ratings			
Maximum permissible voltage V <sub>max</sub>	1.1 × $V_R$ ( $V_R$ = Rated voltage)		
Maximum permissible current I <sub>max</sub>	1.3 x $I_R$ ( $I_R$ = Rated current)		







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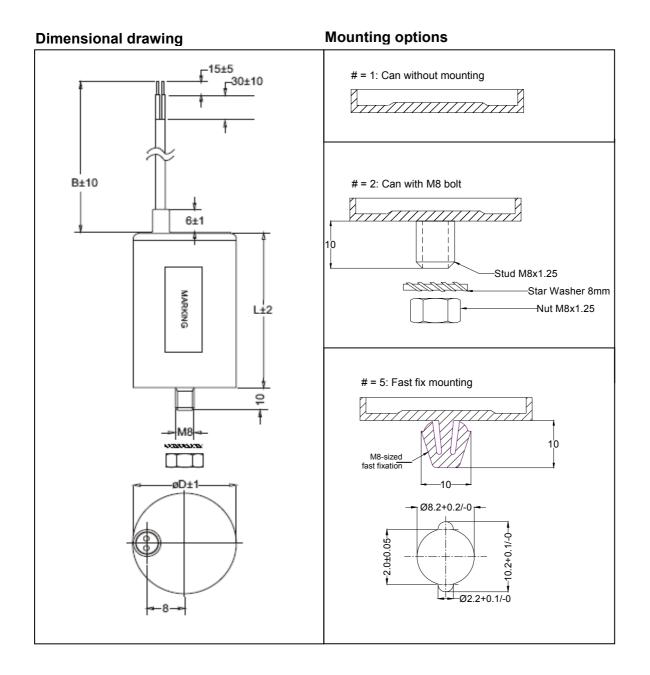
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Test data		
AC test voltage terminal to terminal $V_{TT}$	2 · V <sub>R</sub> , 2 s (routine test)	
	2 · V <sub>R</sub> , 60 s (type test)	
Insulation resistance $R_{ins}$ or time constant $\tau$ at 20 °C, rel. humidity $\leq 65\%$ (minimum as-delivered values)	3,000 s	
Dissipation factor tan $\delta$ at 20 °C	$\leq$ 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 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 EN 60252	
UL 94 V2 compatible		
■ Glow wire test to IEC 60695-2-1/0 and $-2-1/1$ Test temp 550 °C for $I_R \le 0.5 \text{ A}$ Test temp 750 °C for $I_R > 0.5 \text{ A}$	Self extinguish within 30 seconds of withdrawing the glow wire and without igniting wrapping tissue.	
Tracking test to IEC 60112 solution A	> 250 V	
Protection class to IEC 60529 2001	IP 53	
Compatibility to RoHS		
Compliance to directive 2002/95/EC	RoHS	
Approvals		
VDE		
400 V/85 °C: 10,000 h (class B) for 1,5 $\mu F$ 50 $\mu F$	Approved	
480 V/85 °C: 3,000 h (class C) for 3 μF 35 μF	Approved	



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# Ordering codes and packing units

V <sub>R</sub> V AC	C <sub>R</sub> μF	Max. dimensions d × l	Ordering code	Packing units
V AG	μι	mm		pcs.
250	1,5	25 × 58	B32328A1155J0#*	112
-	2	25 × 58	B32328A1205J0#*	112
	3	25 × 58	B32328A1305J0#*	112
	4	25 × 58	B32328A1405J0#*	112
	5	25 × 58	B32328A1505J0#*	112
-	6	25 × 58	B32328A1605J0#*	112
-	7	25 × 58	B32328A1705J0#*	112
-	7,5	25 × 58	B32328A1755J0#*	112
-	8	25 × 58	B32328A1805J0#*	112
-	9	30 × 62	B32328A1905J0#*	112
	10	30 × 62	B32328A1106J0#*	112
	12	30 × 62	B32328A1126J0#*	112
	14	30 × 62	B32328A1146J0#*	112
	15	30 × 62	B32328A1156J0#*	112
	16	30 × 62	B32328A1166J0#*	112
	18	30 × 62	B32328A1186J0#*	112
	20	35 × 62	B32328A1206J0#*	84
	22	35 × 62	B32328A1226J0#*	84
	25	35 × 71	B32328A1256J0#*	84
	30	35 × 71	B32328A1306J0#*	84
ľ	35	40 × 71	B32328A1356J0#*	60
	40	40 × 71	B32328A1406J0#*	60
ľ	45	40 × 71	B32328A1456J0#*	60
ľ	50	40 × 95	B32328A1506J0#*	60
	55	40 × 95	B32328A1556J0#*	60
-	60	40 × 95	B32328A1606J0#*	60

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V <sub>R</sub>	C <sub>R</sub>	Max. dimensions d × l	Ordering code	Packing units
V AC	μF	mm		pcs.
400	1,5	25 × 58	B32328A4155J0#*	112
	2	25 × 58	B32328A4205J0#*	112
	3	25 × 58	B32328A4305J0#*	112
	4	25 × 58	B32328A4405J0#*	112
	5	30 × 62	B32328A4505J0#*	112
	6	30 × 62	B32328A4605J0#*	112
	7	35 × 62	B32328A4705J0#*	84
	7,5	35 × 62	B32328A4755J0#*	84
	8	35 × 62	B32328A4805J0#*	84
	9	35 × 62	B32328A4905J0#*	84
	10	35 × 62	B32328A4106J0#*	84
	12	35 × 71	B32328A4126J0#*	84
	14	35 × 71	B32328A4146J0#*	84
	15	40 × 71	B32328A4156J0#*	60
	16	40 × 71	B32328A4166J0#*	60
	18	40 × 71	B32328A4186J0#*	60
	20	40 × 71	B32328A4206J0#*	60
	22	40 × 71	B32328A4226J0#*	60
	25	40 × 95	B32328A4256J0#*	60
	30	40 × 95	B32328A4306J0#*	60
	35	45 × 95	B32328A4356J0#*	45
	40	45 × 95	B32328A4406J0#*	45
	45	50 × 95	B32328A4456J0#*	32
	50	50 × 95	B32328A4506J0#*	32
	55	50 × 95	B32328A4556J0#*	32
	60	50 × 95	B32328A4606J0#*	32

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V <sub>R</sub>	C <sub>R</sub>	Max. dimensions	Ordering code	Packing units
V AC	μF	d × l		
		mm		pcs.
480	3	30 × 62	B32328A8305J0#*	112
	4	30 × 62	B32328A8405J0#*	112
	6	35 × 62	B32328A8605J0#*	84
	7,5	35 × 62	B32328A8755J0#*	84
	8	35 × 71	B32328A8805J0#*	84
	10	40 × 71	B32328A8106J0#*	60
	12	40 × 71	B32328A8126J0#*	60
	15	45 × 71	B32328A8156J0#*	45
	16	45 × 71	B32328A8166J0#*	45
	20	45 × 71	B32328A8206J0#*	45
	22	45 × 71	B32328A8226J0#*	45
	25	45 × 95	B32328A8256J0#*	45
	30	45 × 95	B32328A8306J0#*	45
	35	45 × 95	B32328A8356J0#*	32
	40	45 × 120	B32328A8406J0#*	45
	45	50 × 120	B32328A8456J0#*	32
	50	50 × 120	B32328A8506J0#*	32

#### Composition of ordering code:

#### #: Construction

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

#: Wire length (dimension 'b' in drawing)

- 7 200 mm
- 9 300 mm
  - others on request

A 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.

#### FK PC PM AC

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