

Motor run capacitors

Series/Type: B32321/B32323 – MotorCap™

The following products presented in this data sheet are being withdrawn.

Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B32323B7306J030		2013-02-08	2013-03-08	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.



7 UdUVJhcfgiZcfi57 'AchcfiFi bi5 ddi]WUhjcbg

Series/Type: "6' &' &% 6' &' &' A chcf7 Ud!

The following products presented in this data sheet are being withdrawn.

Ordering Code	Oubotituto i iouuot		Deadline Last Orders	Last Shipments
B32321B7206J030	On request	2011-04-15	2011-07-29	2011-10-31

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Motor run capacitors

B32321/B32323 MotorCap™

UL type (construction only)

Construction

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

Features

- Self-healing properties
- Low dissipation factor
- P0 safety class to IEC 60252-1 2001-02
- High insulation resistance
- **N** UL file E 183224 (construction only)

Typical applications

 For general sine wave applications, mainly as motor run capacitor

Terminals

B32321 – Single Fast on: 6.3 × 0.8 mm
B32323 – Double Fast on: 6.3 × 0.8 mm

Mounting parts (optional)

- Threaded stud at bottom of can (M8, 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 / UL 810					
Safety class according 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)					
UL 810 file E 183224 for Nashik and Gravatai plant	Construction only					
Rated capacitance C _R	See dimensions table					
Tolerance	±5%					
Rated voltage V _R	250 V AC, 400 V AC, 480 V AC					
Rated frequency f _R	50 / 60 Hz					







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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)		
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 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	20 N at 125 °C		
Plastic can and top disk material	UL 94 V2 minimum		
■ UL 94 V2 compatible			
Glow wire test to IEC 60695-2-1/0 and -2-1/1 Test temp 550 °C for I _R ≤ 0.5 A Test temp 750 °C for I _R > 0.5 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		
Compatibility to RoHS			
Compliance to directive 2002/95/EC	RoHS		



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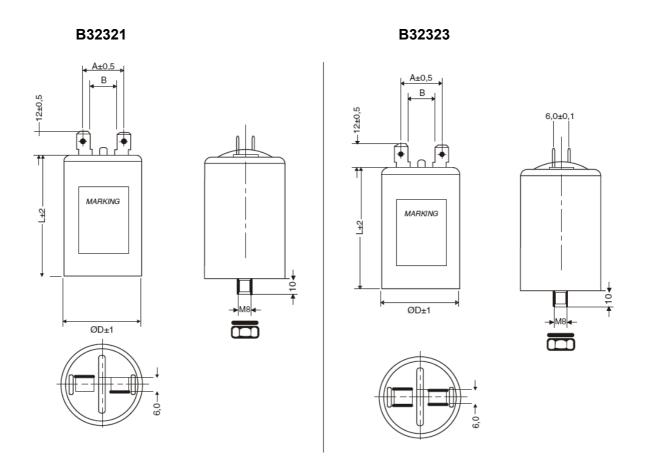
Approvals		
VDE EN 60252		
400 V / 85 °C:	10,000 h (class B)	Approved
480 V / 85°C:	3,000 h (class C)	Approved
UL 810 E183224		
250 V		Approved
400 V		Approved
480 V		Approved



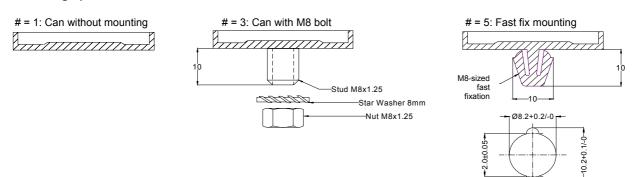
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Dimensional drawings



Mounting options





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Ordering codes and packing units

V_R	C _R	Max. dimensions d × I (mm)	Max. dimensions d × I (mm)	Ordering code	Packing units
V AC	μF	B32321	B32323		pcs.
250	2	25 × 58	30 × 62	B3232*C1205J0#0	112
	3	25 × 58	30 × 62	B3232*C1305J0#0	112
	4	25 × 58	30 × 62	B3232*C1405J0#0	112
	5	25 × 58	30 × 62	B3232*C1505J0#0	112
	6	25 × 58	30 × 62	B3232*C1605J0#0	112
	7	25 × 58	30 × 62	B3232*C1705J0#0	112
	8	25 × 58	30 × 62	B3232*C1805J0#0	112
	9	30 × 62	30 × 62	B3232*C1905J0#0	112
	10	30 × 62	30 × 62	B3232*C1106J0#0	112
	12	30 × 62	30 × 62	B3232*C1126J0#0	112
	14	30 × 62	30 × 62	B3232*C1146J0#0	112
	15	30 × 62	30 × 62	B3232*C1156J0#0	112
	16	35 × 62	35 × 62	B3232*C1166J0#0	84
	18	35 × 62	35 × 62	B3232*C1186J0#0	84
	20	35 × 62	35 × 62	B3232*C1206J0#0	84
	22	35 × 62	35 × 62	B3232*C1226J0#0	84
	25	35 × 71	35 × 71	B3232*C1256J0#0	84
	30	35 × 71	35 × 71	B3232*C1306J0#0	84
	35	40 × 71	40 × 71	B3232*C1356J0#0	60
	40	40 × 71	40 × 71	B3232*C1406J0#0	60
	45	40 × 71	40 × 71	B3232*C1456J0#0	60
	50	40 × 95	40 × 98	B3232*C1506J0#0	60
	55	40 × 95	40 × 98	B3232*C1556J0#0	60
	60	40 × 95	40 × 98	B3232*C1606J0#0	60



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V _R	C _R	Max. dimensions d × I (mm)	Max. dimensions d × I (mm)	Ordering code	Packing units
V AC	μF	B32321	B32323		pcs.
400	2	25 × 58	30 × 62	B3232*B4205J0#0	112
	3	25 × 58	30 × 62	B3232*B4305J0#0	112
	4	25 × 58	30 × 62	B3232*B4405J0#0	112
	5	30 × 62	30 × 62	B3232*B4505J0#0	112
	6	30 × 62	30 × 62	B3232*B4605J0#0	112
	7	35 × 62	35 × 62	B3232*B4705J0#0	84
	8	35 × 62	35 × 62	B3232*B4805J0#0	84
	9	35 × 62	35 × 62	B3232*B4905J0#0	84
	10	35 × 62	35 × 62	B3232*B4106J0#0	84
	12	35 × 71	35 × 71	B3232*B4126J0#0	84
	14	35 × 71	35 × 71	B3232*B4146J0#0	84
	15	40 × 71	40 × 71	B3232*B4156J0#0	60
	16	40 × 71	40 × 71	B3232*B4166J0#0	60
	18	40 × 71	40 × 71	B3232*B4186J0#0	60
	20	40 × 71	40 × 71	B3232*B4206J0#0	60
	22	40 × 71	40 × 71	B3232*B4226J0#0	60
	25	40 × 95	40 × 95	B3232*B4256J0#0	60
	30	40 × 95	40 × 95	B3232*B4306J0#0	60
	35	45 × 95	45 × 95	B3232*B4356J0#0	45
	40	45 × 95	45 × 95	B3232*B4406J0#0	45
	45	45 × 95	45 × 95	B3232*B4456J0#0	45
	50	45 × 95	45 × 98	B3232*B4506J0#0	45
	55	45 × 95	45 × 98	B3232*B4556J0#0	45
	60	45 × 95	45 × 98	B3232*B4606J0#0	45



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VR	CR	Max. dimensions d × I (mm)	Max. dimensions d × I (mm)	Ordering code	Packing units
V AC	μF	B32321	B32323		pcs.
480	3	30 × 62	30 × 62	B3232*B7305J0#0	112
	4	30 × 62	30 × 62	B3232*B7405J0#0	112
	5	30 × 62	30 × 62	B3232*B7505J0#0	112
	6	35 × 62	35 × 62	B3232*B7605J0#0	84
	7	35 × 71	35 × 71	B3232*B7705J0#0	84
	8	35 × 71	35 × 71	B3232*B7805J0#0	84
	9	35 × 71	35 × 71	B3232*B7905J0#0	84
	10	40 × 71	40 × 71	B3232*B7106J0#0	45
	12	40 × 71	40 × 71	B3232*B7126J0#0	45
	15	45 × 71	45 × 71	B3232*B7156J0#0	45
	18	45 × 71	45 × 71	B3232*B7186J0#0	45
	20	45 × 71	45 × 71	B3232*B7206J0#0	45
	22	45 × 71	45 × 71	B3232*B7226J0#0	45
	25	45 × 95	45 × 95	B3232*B7256J0#0	45
	30	45 × 95	45 × 95	B3232*B7306J0#0	45
	35	45 × 95	45 × 95	B3232*B7356J0#0	45
	40	45 × 95	45 × 95	B3232*B7406J0#0	45

Composition of ordering code:

- *: Terminals
 - 21 single fast on terminals
 - 23 double fast on terminals

#: 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

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.

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