



Film capacitors – AC capacitors

Motor run capacitors

250 V; class B; 85 °C / 400 V; class B; 85 °C / 480 V; class C; 85 °C

Series/Type: B32321/B32323 MotorCap™

Date: July 2007
Version: 1.0


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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
-  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

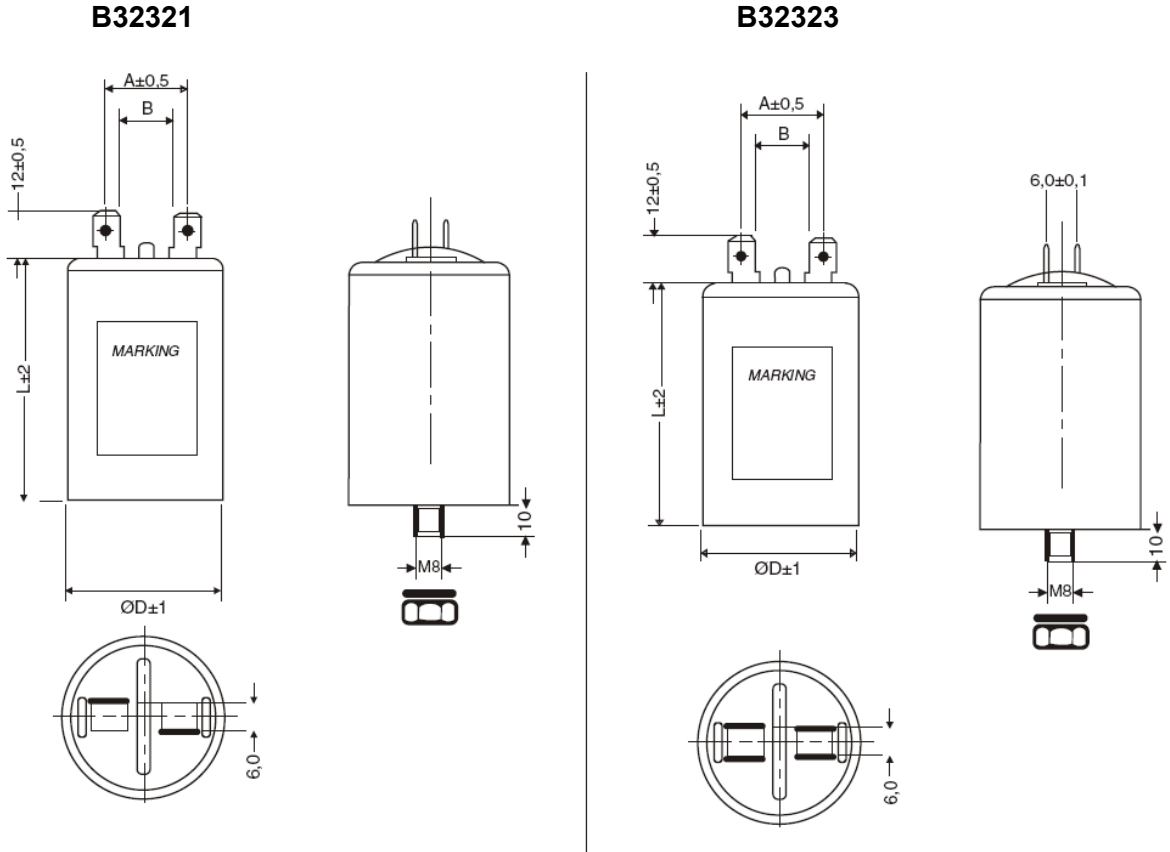


Technical data and specifications	
Reference standards	IEC 60252-1 2001-02 / UL 810
Safety class according IEC 60252-1 2001-02	P0
Life expectancy to IEC 60252 2001	250 V / 85 °C: 10,000 h (class B) 400 V / 85 °C: 10,000 h (class B) 480 V / 85 °C: 3,000 h (class C)
UL 810 file E 183224 for Nashik and 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

Maximum ratings	
Maximum permissible voltage V_{\max}	$1.1 \cdot V_R$ (V_R = Rated voltage)
Maximum permissible current I_{\max}	$1.3 \cdot I_R$ (I_R = Rated current)
Test data	
AC test voltage terminal to terminal V_{TT}	$2 \cdot V_R$, 2 s (routine test) $2 \cdot V_R$, 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 $\tan \delta$ at 20 °C	$\leq 1.0 \cdot 10^{-3}$ (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 style="list-style-type: none"> ■ UL 94 V2 compatible ■ Glow wire test to IEC 60695-2-1/0 and -2-1/1 Test temp 550 °C for $I_R \leq 0.5$ 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	

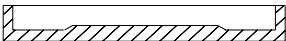
Approvals		
VDE EN 60252		
400 V / 85 °C:	10,000 h (class B)	Approved
480 V / 85°C:	3,000 h (class C)	Approved
UL 810 E183224		
250 V		Approved
400 V		Approved
480 V		Approved

Dimensional drawings

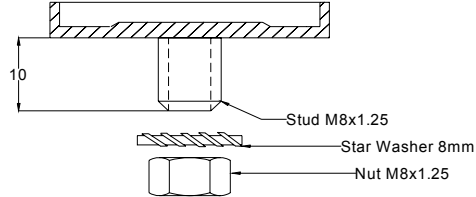


Mounting options

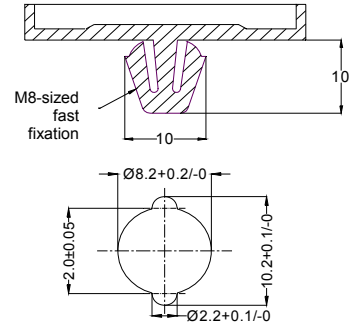
= 1: Can without mounting



= 3: Can with M8 bolt



= 5: Fast fix mounting



Ordering codes and packing units

V _R	C _R	Max. dimensions d × l (mm)		Ordering code	Packing units pcs.
		B32321	B32323		
V AC	μF				
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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B32321/B32323 MotorCap™

V _R V AC	C _R μF	Max. dimensions d × l (mm)		Ordering code	Packing units pcs.
		B32321	B32323		
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	

VR	CR	Max. dimensions d × l (mm)	Max. dimensions d × l (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

⚠ 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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