

Motor run capacitors

Series/Type: B32321/B32323 - MotorCap Ordering code: B32321/B32323

2

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B32321/B32323

B32321/B32323 - MotorCap

### Film Capacitors – AC Capacitors

#### Motor run capacitors

#### 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
- IEC/EN 60335-1 compliance on request

#### **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)
- Locking clip for mounting into a hole of Ø 8 mm

EN60252-1: 2014-07 IEC60252-1: Ed 2,2013-8,amendment 1		
250 V/85 °C: 10000 h (class B)		
400 V/85 °C: 10000 h (class B)		
See table ordering code		
±5%		
250 V AC, 400 V AC		
50/60 Hz		
1.1 • $V_R$ ( $V_R$ = Rated voltage)		
1.3 • $I_R$ ( $I_R$ = Rated current)		





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Test data	
AC test voltage terminal to terminal $V_{\text{TT}}$	$2 \bullet V_R, 2 \text{ s (routine test)} 2 \bullet V_R, 60 \text{ s (type test)}$
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	$\leq 7.0 \bullet 10^{-3} (1 \text{ kHz})$
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 IEC 60252-1
Option A:	
<ul> <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 I<sub>R</sub> ≤ 0.5 A Test temp 850 °C for I<sub>R</sub> &gt; 0.5 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	RoHS
Approvals	
VDE,IEC 60252-1	Approved
DVE	400 V/85 °C: 10000 h (class B) for 1.5 μF to 50 μF
UL 810 files E183224 (Construction only)	Approved
(6	Compliance to LV directive 2014/35/EU

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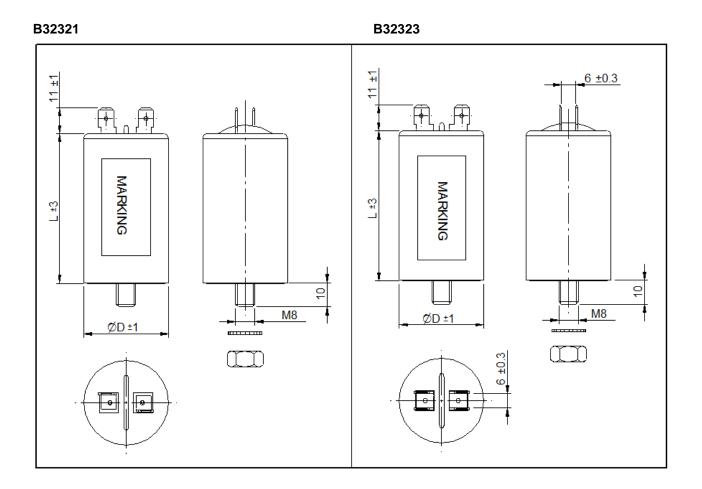


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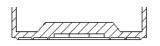
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#### **Dimensional drawings**

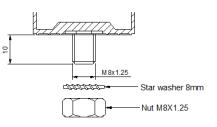


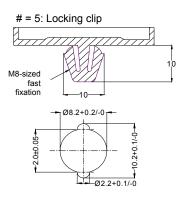
#### **Mounting options**

# = 1: Can without mounting



# =3: Can with M8 bolt





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## Film Capacitors – AC Capacitors

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#### Ordering codes and packing units

Rated voltage	Rated capacitance	Dimension D × L	Dimension D × L	Ordering code	Approvals	Packing unit
V <sub>R</sub>	C <sub>R</sub>	B32321	B32323			
V AC	μF	mm	mm			pcs.
	1.5	25 × 58	30 × 62	B3232*C1155J0#0	UL	112
	2	25 × 58	30 × 62	B3232*C1205J0#0	UL	112
	3	25 × 58	30 × 62	B3232*C1305J0#0	UL	112
	4	25 × 58	30 × 62	B3232*C1405J0#0	UL	112
	5	25 × 58	30 × 62	B3232*C1505J0#0	UL	112
	6	25 × 58	30 × 62	B3232*C1605J0#0	UL	112
	7	25 × 58	30 × 62	B3232*C1705J0#0	UL	112
	7.5	25 × 58	30 × 62	B3232*C1755J0#0	UL	112
	8	25 × 58	30 × 62	B3232*C1805J0#0	UL	112
	9	30 × 62	30 × 62	B3232*C1905J0#0	UL	112
	10	30 × 62	30 × 62	B3232*C1106J0#0	UL	112
250	12	30 × 62	30 × 62	B3232*C1126J0#0	UL	112
	14	30 × 62	30 × 62	B3232*C1146J0#0	UL	112
	15	30 × 62	30 × 62	B3232*C1156J0#0	UL	112
	16	35 × 62	35 × 62	B3232*C1166J0#0	UL	84
	18	35 × 62	35 × 62	B3232*C1186J0#0	UL	84
	20	35 × 62	35 × 62	B3232*C1206J0#0	UL	84
	22	35 × 62	35 × 62	B3232*C1226J0#0	UL	84
	25	35 × 71	35 × 71	B3232*C1256J0#0	UL	84
	30	35 × 71	35 × 71	B3232*C1306J0#0	UL	84
	35	40 × 71	40 × 71	B3232*C1356J0#0	UL	60
	40	40 × 71	40 × 71	B3232*C1406J0#0	UL	60
	45	40 × 71	40 × 71	B3232*C1456J0#0	UL	60
	50	40 × 96	40 × 96	B3232*C1506J0#0	UL	60
	55	40 × 96	40 × 96	B3232*C1556J0#0	UL	60
	60	40 × 96	40 × 96	B3232*C1606J0#0	UL	60

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V <sub>R</sub>	C <sub>R</sub>	B32321	B32323			
V AC	μF	mm	mm			pcs.
	1.5	25 × 58	30 × 62	B3232*B4155J0#0	UL,VDE	112
	2	25 × 58	30 × 62	B3232*B4205J0#0	UL,VDE	112
	3	25 × 58	30 × 62	B3232*B4305J0#0	UL,VDE	112
	4	25 × 58	30 × 62	B3232*B4405J0#0	UL,VDE	112
	5	30 × 62	30 × 62	B3232*B4505J0#0	UL,VDE	112
	6	30 × 62	30 × 62	B3232*B4605J0#0	UL,VDE	112
	7	35 × 62	35 × 62	B3232*B4705J0#0	UL,VDE	84
	8	35 × 62	35 × 62	B3232*B4805J0#0	UL,VDE	84
	9	35 × 62	35 × 62	B3232*B4905J0#0	UL,VDE	84
	10	35 × 62	35 × 62	B3232*B4106J0#0	UL,VDE	84
	12	35 × 71	35 × 71	B3232*B4126J0#0	UL,VDE	84
400	14	35 × 71	35 × 71	B3232*B4146J0#0	UL,VDE	84
	15	40 × 71	40 × 71	B3232*B4156J0#0	UL,VDE	60
	16	40 × 71	40 × 71	B3232*B4166J0#0	UL,VDE	60
	18	40 × 71	40 × 71	B3232*B4186J0#0	UL,VDE	60
	20	40 × 71	40 × 71	B3232*B4206J0#0	UL,VDE	60
	22	40 × 96	40 × 96	B3232*B4226J0#0	UL,VDE	60
	25	40 × 96	40 × 96	B3232*B4256J0#0	UL,VDE	60
	30	40 × 96	40 × 96	B3232*B4306J0#0	UL,VDE	60
	35	45 × 96	45 × 96	B3232*B4356J0#0	UL,VDE	45
	40	45 × 96	45 × 96	B3232*B4406J0#0	UL,VDE	45
	45	50 × 96	50 × 96	B3232*B4456J0#0	UL,VDE	32
	50	50 × 96	50 × 96	B3232*B4506J0#0	UL,VDE	32
	55	50 × 96	50 × 96	B3232*B4556J0#0	UL	32
	60	50 × 96	50 × 96	B3232*B4606J0#0	UL	32



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#### Composition of ordering code:

- \*: Terminals
  - 1 single fast-on terminals
  - 3 double fast-on terminals

#: 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

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**, 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. The following applies to all products named in this publication:

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