

Motor run capacitors

Series/Type: B32320/B32322 - MotorCap Ordering code: B32320/B32322

3

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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

Typical applications

For general sine wave applications,
Mainly as motor run capacitor

Terminals

- B32320 single fast-on: 6.3 × 0.8 mm
- B32322 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

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	SO		
Life expectancy to IEC 60252-1 /2013	250 V/85 °C: 10000 h (class B) 400 V/85 °C: 10000 h (class B) 480 V/85 °C: 3000 h (class C)		
Rated capacitance C _R	See table ordering code		
Tolerance Tx	±5%		
Rated voltage V _{rms}	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 • V_R (V _R = Rated voltage)		
Maximum permissible current I _{max}	$1.3 \bullet I_R$ (I _R = Rated current)		



CAP RD FILM PD AC

B32320/B32322

B32320/B32322 – MotorCap



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Test data				
AC test voltage terminal to terminal $V_{\ensuremath{T}\ensuremath{T}\xspace}$	$2 \bullet V_R$, 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)	3000 s			
Dissipation factor tan δ at 20 °C	$\leq 7.0 \bullet 10^{-3} (1 \text{ kHz})$			
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			
astic can and top disk material Compliant to IEC 60252-1				
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 850 °C for $I_R > 0.5 \text{ A}$	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 EN 60252-1	Approved			
DVE	400 V/85 °C: 10000 h (class B) for 1.5 μF to 50 μF 480 V/85 °C: 3000 h (class C) for 3 μF to 35 μF			
CE	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

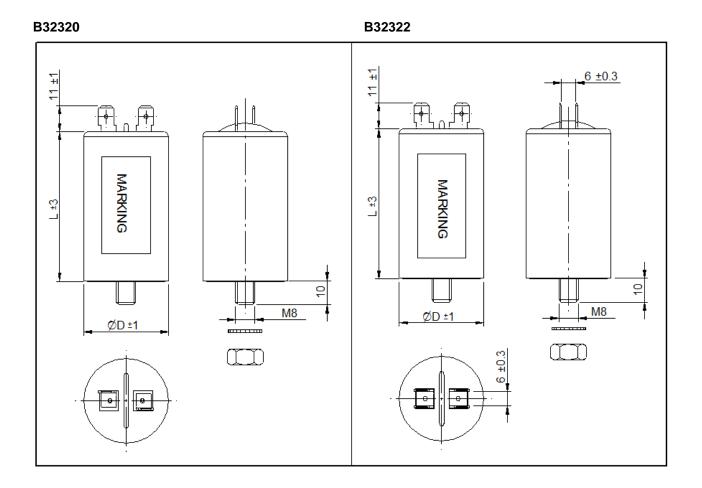


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B32320/B32322

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Dimensional drawings



Mounting options

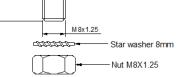
= 1: Can without mounting

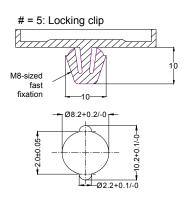




= 3: Can with M8 bolt

1





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Film Capacitors – AC Capacitors

B32320/B32322

Motor run capacitors

B32320/B32322 – MotorCap

Ordering codes and packing units

Rated voltage	Rated capacitance	Dimensions D × L	Dimensions D × L	Ordering code	Approvals	Packing unit
V _R	C _R	B32320	B32322			
V AC	μF	mm	mm			pcs.
	1.5	25 × 58	30 × 62	B3232*C1155J0#0		112
	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
	7.5	25 × 58	30 × 62	B3232*C1755J0#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
250	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 × 96	40 × 96	B3232*C1506J0#0		60
	55	40 × 96	40 × 96	B3232*C1556J0#0		60
	60	40 × 96	40 × 96	B3232*C1606J0#0		60
		1	1			

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Rated voltage	Rated capacitance	Dimensions D × L	Dimensions D × L	Ordering code	Approvals	Packing unit
V _R	C _R	B32320	B32322			
V AC	μF	mm	mm			pcs.
	1.5	25 × 58	30 × 62	B3232*B4155J0#0	VDE	112
	2	25 × 58	30 × 62	B3232*B4205J0#0	VDE	112
	3	25 × 58	30 × 62	B3232*B4305J0#0	VDE	112
	4	25 × 58	30 × 62	B3232*B4405J0#0	VDE	112
	5	30 × 62	30 × 62	B3232*B4505J0#0	VDE	112
	6	30 × 62	30 × 62	B3232*B4605J0#0	VDE	112
	7	35 × 62	35 × 62	B3232*B4705J0#0	VDE	84
	8	35 × 62	35 × 62	B3232*B4805J0#0	VDE	84
	9	35 × 62	35 × 62	B3232*B4905J0#0	VDE	84
	10	35 × 62	35 × 62	B3232*B4106J0#0	VDE	84
	12	35 × 71	35 × 71	B3232*B4126J0#0	VDE	84
400	14	35 × 71	35 × 71	B3232*B4146J0#0	VDE	84
	15	40 × 71	40 × 71	B3232*B4156J0#0	VDE	60
	16	40 × 71	40 × 71	B3232*B4166J0#0	VDE	60
	18	40 × 71	40 × 71	B3232*B4186J0#0	VDE	60
	20	40 × 71	40 × 71	B3232*B4206J0#0	VDE	60
	22	40 × 96	40 × 96	B3232*B4226J0#0	VDE	60
	25	40 × 96	40 × 96	B3232*B4256J0#0	VDE	60
	30	40 × 96	40 × 96	B3232*B4306J0#0	VDE	60
	35	45 × 96	45 × 96	B3232*B4356J0#0	VDE	45
	40	45 × 96	45 × 96	B3232*B4406J0#0	VDE	45
	45	50 × 96	50 × 96	B3232*B4456J0#0	VDE	32
	50	50 × 96	50 × 96	B3232*B4506J0#0	VDE	32
	55	50 × 96	50 × 96	B3232*B4556J0#0		32
	60	50 × 96	50 × 96	B3232*B4606J0#0		32



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Rated voltage	Rated capacitance	Dimensions D × L	Dimensions D × L	Ordering code	Approvals	Packing unit
V _R	C _R	B32320	B32322			
V AC	μF	mm	mm			pcs.
	3	30 × 62	30 × 62	B3232*B7305J0#0	VDE	112
	4	30 × 62	30 × 62	B3232*B7405J0#0	VDE	112
480	5	30 × 62	30 × 62	B3232*B7505J0#0	VDE	112
	6	35 × 62	35 × 62	B3232*B7605J0#0	VDE	84
	7.5	35 × 71	35 × 71	B3232*B7755J0#0	VDE	84
	8	35 × 71	35 × 71	B3232*B7805J0#0	VDE	84
	10	40 × 71	40 × 71	B3232*B7106J0#0	VDE	60
	12	40 × 71	40 × 71	B3232*B7126J0#0	VDE	60
	15	45 × 71	45 × 71	B3232*B7156J0#0	VDE	45
	16	45 × 71	45 × 71	B3232*B7166J0#0	VDE	45
	20	45 × 71	45 × 71	B3232*B7206J0#0	VDE	45
	22	45 × 71	45 × 71	B3232*B7226J0#0	VDE	45
	25	45 × 96	45 × 96	B3232*B7256J0#0	VDE	45
	30	45 × 96	45 × 96	B3232*B7306J0#0	VDE	45
	35	50 × 96	50 × 96	B3232*B7356J0#0	VDE	32

Composition of ordering code:

- *: Terminals
 - 0 single fast-on terminals
 - 2 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.

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