

Motor run capacitors

Series/Type: B32320/B32322 – MotorCap

Ordering code: B32320/B32322

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B32320/B32322

Motor run capacitors

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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	S0
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 • I _R (I _R = Rated current)



Film Capacitors – AC Capacitors	B32320/B32322
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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)	3000 s		
Dissipation factor tan δ at 20 °C	≤ 7.0 • 10 ⁻³ (1 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		
Plastic 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 $I_R \le 0.5$ A Test temp 850 °C for $I_R > 0.5$ 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		
(€	Compliance to LV directive 2014/35/EU		

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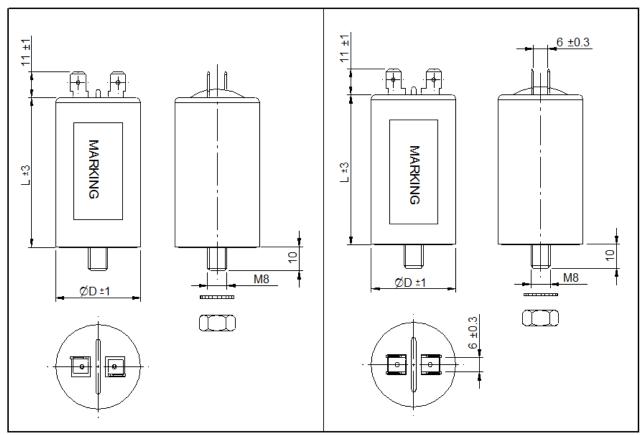
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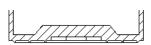
Dimensional drawings

B32320 B32322



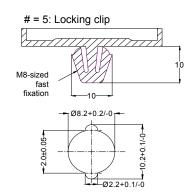
Mounting options

= 1: Can without mounting





= 3: Can with M8 bolt



CAP RD FILM PD AC



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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



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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	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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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
	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
480	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

single fast-on terminals 0

2 double fast-on terminals

#: construction

- 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



A 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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