



Film Capacitors – AC Capacitors

Motor run capacitors

Series/Type: B32328 – MotorCap

Ordering code: B32328

Date: September 2016

Version: 2

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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
- Case IP 53 protected

Typical applications

- For general sine wave applications,
Mainly as motor run capacitor





Terminals

- Twin core cable, double insulated,(H05V2V2F),0.5mm² ,600V, 90°C

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

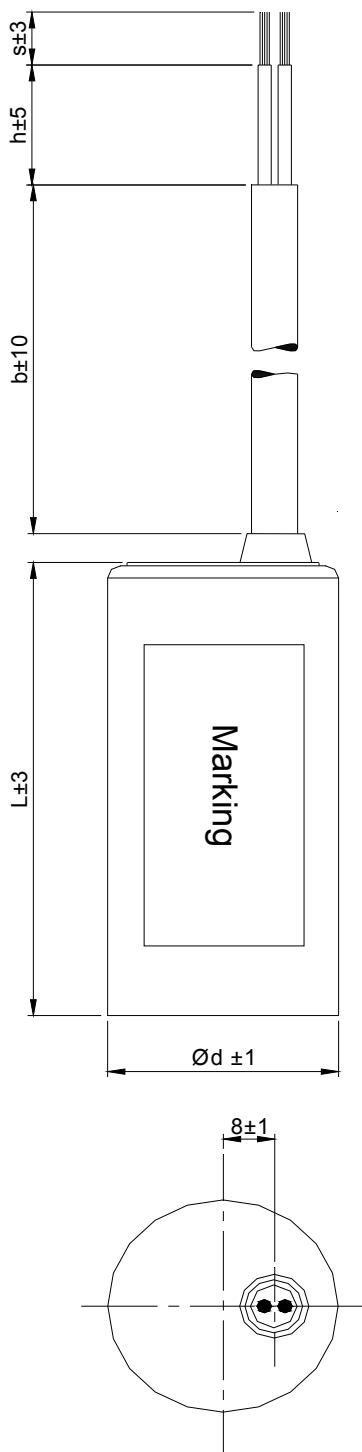
Technical data and specifications	
Reference standards	EN60252-1: 2014-07 IEC60252-1: Ed 2,2013-8,amendment 1
Safety class to IEC 60252-1/ 2013	S0
Life expectancy to IEC 60252-1 /2013	250 V/85 °C: 10000 h (class B) 400 V/85 °C: 10000 h (class B) 480 V/85 °C: 3000 h (class C)
Rated capacitance C _R	See 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)

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 $\tan \delta$ at 20 °C	$\leq 7.0 \cdot 10^{-3}$ (1 kHz)
Maximum rate of voltage rise dV/dt_{max}	10 V/ μ s
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
Option A: <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 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
Protection class to IEC 60529 2001	IP 53
Compatibility to RoHS	
Compliance to directive 2002/95/EC	
Approvals	
VDE IEC 60252-1 	Approved 400 V/85 °C: 10000 h (class B) for 1.5 μ F to 50 μ F 480 V/85 °C: 3000h (class C)for 3 μ F to 35 μ F
	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

Dimensional drawings

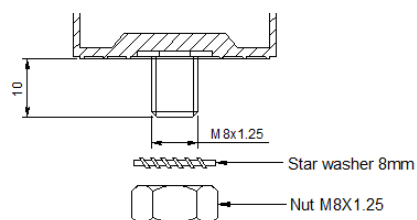


Mounting options

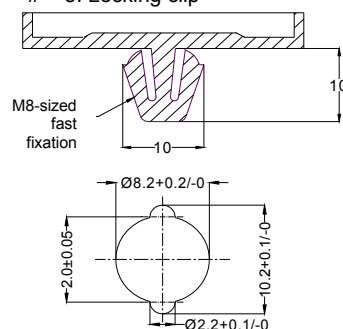
= 1: Can without mounting



= 3: Can with M8 bolt



= 5: Locking clip



Ordering codes and packing units

Rated voltage V_R V AC	Rated capacitance C_R μF	Dimensions D x L mm	Ordering code	Approvals	Packing unit pcs.
250	1.5	25 x 58	B32328A1155J0#*	---	112
	2	25 x 58	B32328A1205J0#*	---	112
	3	25 x 58	B32328A1305J0#*	---	112
	4	25 x 58	B32328A1405J0#*	---	112
	5	25 x 58	B32328A1505J0#*	---	112
	6	25 x 58	B32328A1605J0#*	---	112
	7	25 x 58	B32328A1705J0#*	---	112
	7.5	25 x 58	B32328A1755J0#*	---	112
	8	25 x 58	B32328A1805J0#*	---	112
	9	30 x 62	B32328A1905J0#*	---	112
	10	30 x 62	B32328A1106J0#*	---	112
	12	30 x 62	B32328A1126J0#*	---	112
	14	30 x 62	B32328A1146J0#*	---	112
	15	30 x 62	B32328A1156J0#*	---	112
	16	35 x 62	B32328A1166J0#*	---	84
	18	35 x 62	B32328A1186J0#*	---	84
	20	35 x 62	B32328A1206J0#*	---	84
	22	35 x 62	B32328A1226J0#*	---	84
	25	35 x 71	B32328A1256J0#*	---	84
	30	35 x 71	B32328A1306J0#*	---	84
	35	40 x 71	B32328A1356J0#*	---	60
	40	40 x 71	B32328A1406J0#*	---	60
45	40 x 71	B32328A1456J0#*	---	60	
50	40 x 96	B32328A1506J0#*	---	60	
55	40 x 96	B32328A1556J0#*	---	60	
60	40 x 96	B32328A1606J0#*	---	60	

Rated voltage V_R V AC	Rated capacitance C_R μF	Dimensions D × L mm	Ordering code	Approvals	Packing unit pcs.
400	1.5	25 × 58	B32328A4155J0#*	VDE	112
	2	25 × 58	B32328A4205J0#*	VDE	112
	3	25 × 58	B32328A4305J0#*	VDE	112
	4	25 × 58	B32328A4405J0#*	VDE	112
	5	30 × 62	B32328A4505J0#*	VDE	112
	6	30 × 62	B32328A4605J0#*	VDE	112
	7	35 × 62	B32328A4705J0#*	VDE	84
	8	35 × 62	B32328A4805J0#*	VDE	84
	9	35 × 62	B32328A4905J0#*	VDE	84
	10	35 × 62	B32328A4106J0#*	VDE	84
	12	35 × 71	B32328A4126J0#*	VDE	84
	14	35 × 71	B32328A4146J0#*	VDE	84
	15	40 × 71	B32328A4156J0#*	VDE	60
	16	40 × 71	B32328A4166J0#*	VDE	60
	18	40 × 71	B32328A4186J0#*	VDE	60
	20	40 × 71	B32328A4206J0#*	VDE	60
	22	40 × 96	B32328A4226J0#*	VDE	60
	25	40 × 96	B32328A4256J0#*	VDE	60
	30	40 × 96	B32328A4306J0#*	VDE	60
	35	45 × 96	B32328A4356J0#*	VDE	45
40	45 × 96	B32328A4406J0#*	VDE	45	
45	50 × 96	B32328A4456J0#*	VDE	32	
50	50 × 96	B32328A4506J0#*	VDE	32	
55	50 × 96	B32328A4556J0#*	---	32	
60	50 × 96	B32328A4606J0#*	—	32	

Rated voltage V_R V AC	Rated capacitance C_R μF	Dimensions D × L mm	Ordering code	Approvals	Packing unit pcs.
480	3	30 × 62	B32328A7305J0#*	VDE	112
	4	30 × 62	B32328A7405J0#*	VDE	112
	5	30 × 62	B32328A7505J0#*	VDE	112
	6	35 × 62	B32328A7605J0#*	VDE	84
	7.5	35 × 71	B32328A7755J0#*	VDE	84
	8	35 × 71	B32328A7805J0#*	VDE	84
	10	40 × 71	B32328A7106J0#*	VDE	60
	12	40 × 71	B32328A7126J0#*	VDE	60
	15	45 × 71	B32328A7156J0#*	VDE	45
	16	45 × 71	B32328A7166J0#*	VDE	45
	20	45 × 71	B32328A7206J0#*	VDE	45
	22	45 × 71	B32328A7226J0#*	VDE	45
	25	45 × 96	B32328A7256J0#*	VDE	45
	30	45 × 96	B32328A7306J0#*	VDE	45
35	50 × 96	B32328A7356J0#*	VDE	32	

Composition of ordering code:

#: 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

*: Wire length (dimension 'b', h, s in drawing)

Note: Dimension "b" "h" and "s" will vary as per requirement.

Cautions and warnings


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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