



Film capacitors – AC capacitors

Motor Run Capacitors

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

Series/Type: **B32328**

Date: July 2007
Version: 1.0

Construction

- Dielectric: polypropylene film
- Plastic can and top UL 94 V2 material
- Dry type

Features

- Self-healing properties
- Low dissipation factor
- P0 as per IEC 60252-1 2001-02
- High insulation resistance
- Case IP 53 protected
- IEC/EN 60335-1 compatible on request

Typical applications

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

Terminals

- Twin core cable type PP 2 × 0.50 mm², 600 V, 95 °C
- Connectors on request

Mounting parts (optional)

- Threaded stud at bottom of can (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 / EN 60252 2001
Safety class to 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)
Rated capacitance C _R	See dimensions table
Tolerance	±5%
Rated voltage V _R	250 V, 400 V, 480 V
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 x I _R (I _R = Rated current)

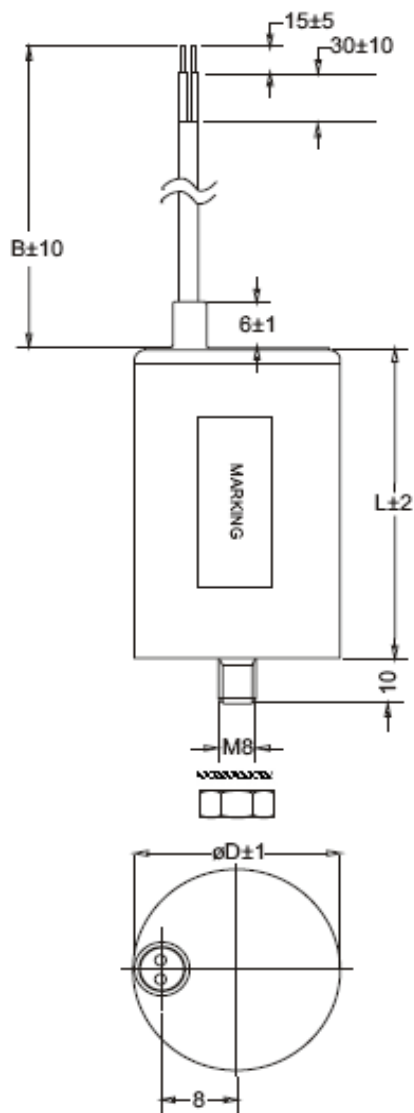
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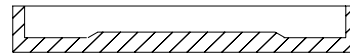
Test data	
AC test voltage terminal to terminal V_{TT}	$2 \cdot V_R$, 2 s (routine test) $2 \cdot V_R$, 60 s (type test)
Insulation resistance R_{ins} or time constant τ at 20 °C, rel. humidity $\leq 65\%$ (minimum as-delivered values)	3,000 s
Dissipation factor $\tan \delta$ at 20 °C	$\leq 1,0 \cdot 10^{-3}$ (120 Hz)
Maximum rate of voltage rise dV/dt_{max}	10 V/ 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 EN 60252
■ 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
Protection class to IEC 60529 2001	IP 53
Compatibility to RoHS	
Compliance to directive 2002/95/EC	
Approvals	
VDE 400 V/85 °C: 10,000 h (class B) for 1,5 μ F ... 50 μ F 480 V/85 °C: 3,000 h (class C) for 3 μ F ... 35 μ F	Approved Approved

Dimensional drawing

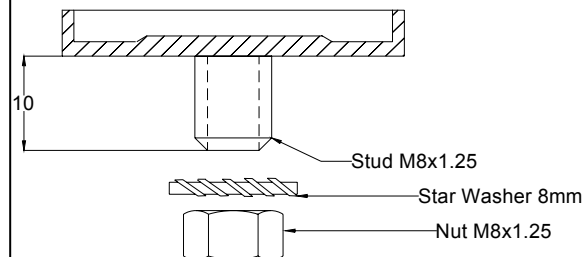


Mounting options

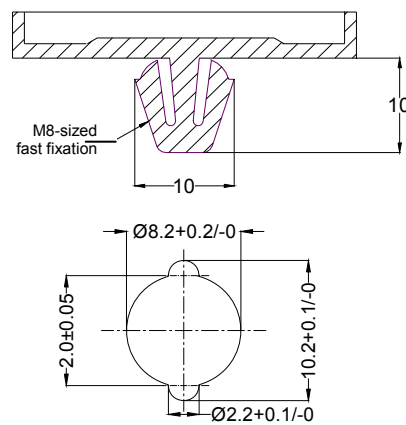
= 1: Can without mounting



= 2: Can with M8 bolt



= 5: Fast fix mounting



Ordering codes and packing units

V _R V AC	C _R μF	Max. dimensions d × l mm	Ordering code	Packing units pcs.
250	1,5	25 × 58	B32328A1155J0#*	112
	2	25 × 58	B32328A1205J0#*	112
	3	25 × 58	B32328A1305J0#*	112
	4	25 × 58	B32328A1405J0#*	112
	5	25 × 58	B32328A1505J0#*	112
	6	25 × 58	B32328A1605J0#*	112
	7	25 × 58	B32328A1705J0#*	112
	7,5	25 × 58	B32328A1755J0#*	112
	8	25 × 58	B32328A1805J0#*	112
	9	30 × 62	B32328A1905J0#*	112
	10	30 × 62	B32328A1106J0#*	112
	12	30 × 62	B32328A1126J0#*	112
	14	30 × 62	B32328A1146J0#*	112
	15	30 × 62	B32328A1156J0#*	112
	16	30 × 62	B32328A1166J0#*	112
	18	30 × 62	B32328A1186J0#*	112
	20	35 × 62	B32328A1206J0#*	84
	22	35 × 62	B32328A1226J0#*	84
	25	35 × 71	B32328A1256J0#*	84
	30	35 × 71	B32328A1306J0#*	84
	35	40 × 71	B32328A1356J0#*	60
	40	40 × 71	B32328A1406J0#*	60
	45	40 × 71	B32328A1456J0#*	60
	50	40 × 95	B32328A1506J0#*	60
	55	40 × 95	B32328A1556J0#*	60
	60	40 × 95	B32328A1606J0#*	60

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V _R V AC	C _R μF	Max. dimensions d × l mm	Ordering code	Packing units pcs.
400	1,5	25 × 58	B32328A4155J0#*	112
	2	25 × 58	B32328A4205J0#*	112
	3	25 × 58	B32328A4305J0#*	112
	4	25 × 58	B32328A4405J0#*	112
	5	30 × 62	B32328A4505J0#*	112
	6	30 × 62	B32328A4605J0#*	112
	7	35 × 62	B32328A4705J0#*	84
	7,5	35 × 62	B32328A4755J0#*	84
	8	35 × 62	B32328A4805J0#*	84
	9	35 × 62	B32328A4905J0#*	84
	10	35 × 62	B32328A4106J0#*	84
	12	35 × 71	B32328A4126J0#*	84
	14	35 × 71	B32328A4146J0#*	84
	15	40 × 71	B32328A4156J0#*	60
	16	40 × 71	B32328A4166J0#*	60
	18	40 × 71	B32328A4186J0#*	60
	20	40 × 71	B32328A4206J0#*	60
	22	40 × 71	B32328A4226J0#*	60
	25	40 × 95	B32328A4256J0#*	60
	30	40 × 95	B32328A4306J0#*	60
	35	45 × 95	B32328A4356J0#*	45
	40	45 × 95	B32328A4406J0#*	45
	45	50 × 95	B32328A4456J0#*	32
	50	50 × 95	B32328A4506J0#*	32
	55	50 × 95	B32328A4556J0#*	32
	60	50 × 95	B32328A4606J0#*	32

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V _R V AC	C _R μF	Max. dimensions d × l mm	Ordering code	Packing units pcs.
480	3	30 × 62	B32328A8305J0#*	112
	4	30 × 62	B32328A8405J0#*	112
	6	35 × 62	B32328A8605J0#*	84
	7,5	35 × 62	B32328A8755J0#*	84
	8	35 × 71	B32328A8805J0#*	84
	10	40 × 71	B32328A8106J0#*	60
	12	40 × 71	B32328A8126J0#*	60
	15	45 × 71	B32328A8156J0#*	45
	16	45 × 71	B32328A8166J0#*	45
	20	45 × 71	B32328A8206J0#*	45
	22	45 × 71	B32328A8226J0#*	45
	25	45 × 95	B32328A8256J0#*	45
	30	45 × 95	B32328A8306J0#*	45
	35	45 × 95	B32328A8356J0#*	32
	40	45 × 120	B32328A8406J0#*	45
	45	50 × 120	B32328A8456J0#*	32
	50	50 × 120	B32328A8506J0#*	32

Composition of ordering code:

#: 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

#: Wire length (dimension 'b' in drawing)

- 7 200 mm
- 9 300 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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