

Film capacitors - AC capacitors

Motor run capacitors

400 V; class A; 85 °C / 450 V; class B; 85 °C

Series/Type: B32350/B32352 – MotorCap P2 Compact

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Construction

■ Dielectric: polypropylene film

■ Electrode: segmented metallized film

■ Plastic can and top material to IEC 60335-1

Dry type

Features

Self-healing properties

Low dissipation factor

P2 safety class to IEC 60252-1 2001-02

High insulation resistance

■ IEC/EN 60335-1 compatible

Typical applications

 For general sine wave applications, mainly as motor run capacitor

Terminals

B32350 – single fast-on: 6.3 × 0.8 mm
 B32352 – double fast-on: 6.3 × 0.8 mm

Mounting parts (optional)

■ Threaded stud at bottom of can (M8, 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
	P2
Life expectancy to IEC 60252 2001	400 V/85 °C: 30000 h (class A)
	450 V/85 °C: 10000 h (class B)
Rated capacitance C _R	See dimensions table
Tolerance	±5%
Rated voltage V _R	400, 450 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)



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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)	3,000 s		
Dissipation factor tan δ at 20 °C	$\leq 1.0 \cdot 10^{-3} (120 \text{ Hz})$		
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 EN 60252		
■ UL 94 V2 compatible			
 Glow wire test to IEC 60695-2-1/0 and -2-1/1 Test temperature 550 °C for I_R ≤ 0.5 A Test temperature 750 °C for I_R > 0.5 A Part is compatible to EN 60335-1 	Self-extinguish within 2 seconds of withdrawing glow wire without igniting wrapping tissue to GWIT		
Tracking Test to IEC 60112 solution A	> 250 V		
Compatibility to RoHS			
Compliance to directive 2002/95/EC	RoHS		
Approvals			
VDE – 400 V/85 °C: 30,000 h (class A)	Approved		
VDE – 450 V/85 °C: 10,000 h (class B)	Approved		

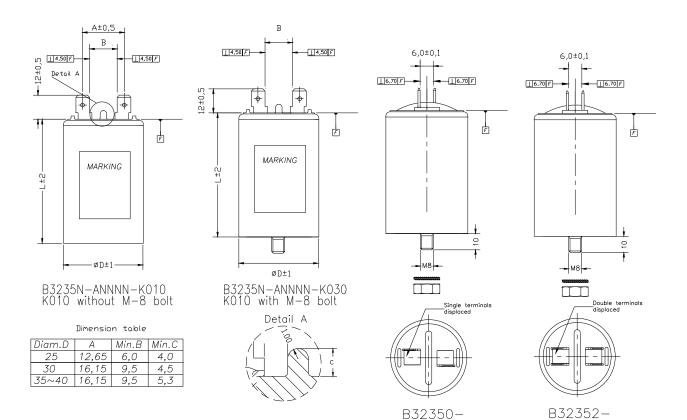


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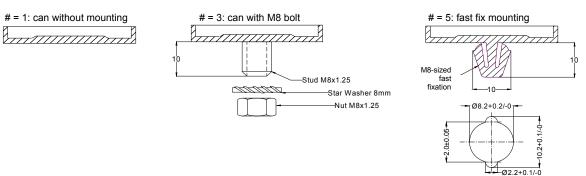
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Dimensional drawings



Mounting options





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Ordering codes and packing units

V_R	C_R	Max. dimensions d × I (mm)	Max. dimensions d × I (mm)	Ordering code (composition see	Packing units
V AC	μF	B32350	B32352	below)	pcs.
400 / 450	2.0	25 × 50	30 × 62	B3235*A4205J0#0	112
	2.5	25 × 50	30 × 62	B3235*A4255J0#0	112
	3.0	25 × 50	30 × 62	B3235*A4305J0#0	112
	3.5	30 × 56	30 × 56	B3235*A4405J0#0	112
	4.0	30 × 56	30 × 56	B3235*A4405J0#0	112
	5.0	30 × 56	30 × 56	B3235*A4505J0#1	112
	6.0	30 × 62	30 × 71	B3235*A4605J0#0	112
	7.0	35 × 56	35 × 56	B3235*A4705J0#0	84
	7.5	35 × 56	35 × 56	B3235*A4755J0#0	84
	8.0	35 × 56	35 × 56	B3235*A4805J0#0	84
	9.0	35 × 71	35 × 71	B3235*A4905J0#0	84
	10	35 × 71	35 × 71	B3235*A4106J0#0	84
	11	40 × 72	40 × 72	B3235*A4116J0#0	60
	12	35 × 96	35 × 96	B3235*A4126J0#0	84
	12	40 × 72	40 × 72	B3235*A4126J0#0	60
	15	40 × 72	40 × 72	B3235*A4156J0#0	60
	16	40 × 72	40 × 72	B3235*A4166J0#0	60
	20	50 × 96	50 × 96	B3235*A4206J0#0	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 fast fixation device, available for diameter 30 mm, 32 mm and 35 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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