

Film Capacitors – AC Capacitors

Motor run capacitors

B32350/52 - MotorCap™ P2 Compact

Series/Type: Ordering code: B32350/52

October 2010 Date:

Version:

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B32350/52 - MotorCap™ P2 Compact

Construction

- Dielectric polypropylene film
- Electrode: segmented metallized film
- Dry type

Features

- Self-healing properties
- Low dissipation factor
- P2 safety class to IEC 60252-1 2001-02
- High insulation resistance
- **SL** UL file E 106388 (component approval)
- IEC/EN 60335-1 compliant



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
- Mounting in any position possible

Technical data and specifications				
Reference standards	IEC 60252-1 2001-02 / EN 60252 2001			
Safety class to IEC 60252-1 2001-02	P2			
Life expectancy to IEC 60252 2001	400 V/85 °C: 30 000 h (class A)			
	450 V/85 °C: 10 000 h (class B)			
Rated capacitance C _R	See dimensions table			
Tolerance	±5%			
Rated voltage V _R	400, 450 V AC			
Permitted capacitance ΔC/C	≤ 3 %			
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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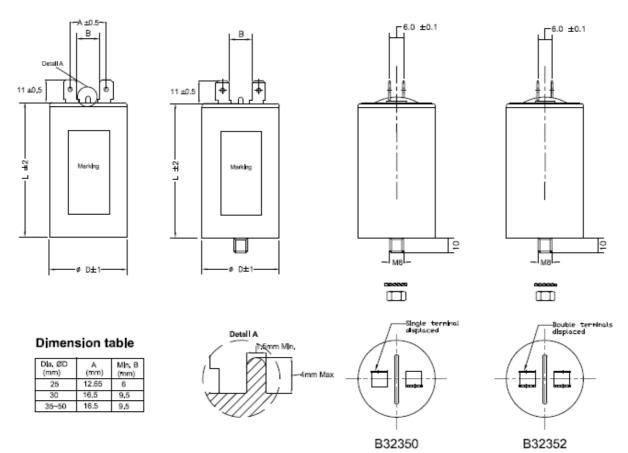
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Test data	
AC test voltage terminal to terminal V _{TT}	2 · V _R , 2 s (routine test)
	2 · V _R , 60 s (type test)
AC test voltage terminals to can V_{TC}	2 kV AC, 2 s (routine test)
	2 kV AC, 60 s (type test)
Insulation resistance R_{ins} or time constant τ at 20 °C, rel. humidity \leq 65% (minimum as-delivered values)	3 000 s
Dissipation factor tan δ at 20 °C	≤ 1.0 · 10 ⁻³ (120 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 60252/60335-1
■ 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	Self-extinguish within 2 seconds of withdrawing glow wire without igniting wrapping tissue to GWIT
Part is compatible to EN 60335-1	
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
C N US UL 810 files E106388	Approved Component 10000 AFC up to 450 V

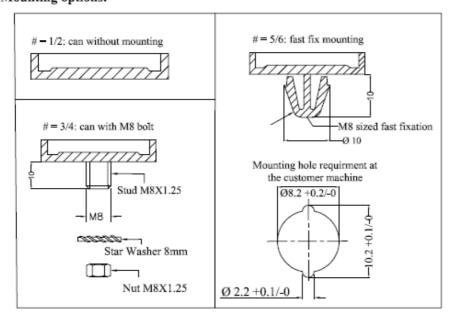


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Dimensional drawings



Mounting options:





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Ordering codes and packing units for B32350-Series (singe fast-on connector)

V_R	C_R	Dimensions d × h	Ordering code	Packing units
V AC	μF	mm		
400 / 450	2	25 × 58	B32350A4205J0#0	112
	2.5	25 × 58	B32350A4255J0#0	112
	3	30 × 56*	B32350A4305J0#0	112
	3.15	30 × 56*	B32350A4315J5#0	112
	4	30 × 56*	B32350A4405J0#0	112
	5	30 × 56*	B32350A4505J0#0	112
	6	35 × 56*	B32350A4605J0#0	84
	6.3	35 × 56*	B32350A4635J0#0	84
	7	35 × 56*	B32350A4705J0#0	84
	7.5	35 × 56*	B32350A4755J0#0	84
	8	35 × 71	B32350A4805J0#0	84
	9	35 × 71	B32350A4905J0#0	84
	10	35 × 71	B32350A4106J0#0	84
	11	40 × 72	B32350A4116J0#0	60
	12	40 × 72	B32350A4126J0#0	60
	12.5	40 × 72	B32350A4126J5#0	60
	14	45 × 72	B32350A4146J0#0	45
	15	45 × 72	B32350A4156J0#0	45
	16	45 × 96	B32350A4166J0#0	45
	17.5	45 × 96	B32350A4176J5#0	45
	18	50 × 96	B32350A4186J0#0	32
	20	50 × 96	B32350A4206J0#0	32

^{*} In case of construction with M8, bolt and locking clip height (dimension L) will be increased by 6 mm

Composition of ordering code

#: construction

- 1 plastic can
- 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



B32350/52 - MotorCap™ P2 Compact

Ordering codes and packing units for B32352-Series (double fast-on connector)

V_R	C_R	Dimensions d × h	Ordering code	Packing units
V AC	μF	mm		
3	2	30 × 56*	B32352A4205J0#0	112
	2.5	30 × 56*	B32352A4255J0#0	112
	3	30 × 56*	B32352A4305J0#0	112
	3.15	30 × 56*	B32352A4315J5#0	112
	4	30 × 56*	B32352A4405J0#0	112
	5	30 × 56*	B32352A4505J0#0	112
	6	35 × 56*	B32352A4605J0#0	84
	6.3	35 × 56*	B32352A4635J0#0	84
	7	35 × 56*	B32352A4705J0#0	84
	7.5	35 × 56*	B32352A4755J0#0	84
	8	35 × 71	B32352A4805J0#0	84
	9	35 × 71	B32352A4905J0#0	84
	10	35 × 71	B32352A4106J0#0	84
	11	40 × 72	B32352A4116J0#0	60
	12	40 × 72	B32352A4126J0#0	60
	12.5	40 × 72	B32352A4126J5#0	60
	14	45 × 72	B32352A4146J0#0	45
	15	45 × 72	B32352A4156J0#0	45
	16	45 × 96	B32352A4166J0#0	45
	17.5	45 × 96	B32352A4176J5#0	45
	18	50 × 96	B32352A4186J0#0	32
	20	50 × 96	B32352A4206J0#0	32

^{*} In case of construction with M8 bolt height (dimension L) will be increased by 6 mm

Composition of ordering code

#: 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

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