



Film Capacitors – AC Capacitors

Motor run capacitors

Series/Type: B32356 – MotorCap S3 Compact

Ordering code: B32356

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Version: 8

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Construction

- Metallized polypropylene film
- Plastic can with plastic top
- Dry type resin

Features

- Self-healing properties
- Low dissipation factor
- Highest safety level S3 safety class to IEC60252-1 (ed.2) am1
- Case IP53 protected
- **Ş** file E 106388, component approval mark, on request
- EN 60335-1 compatible



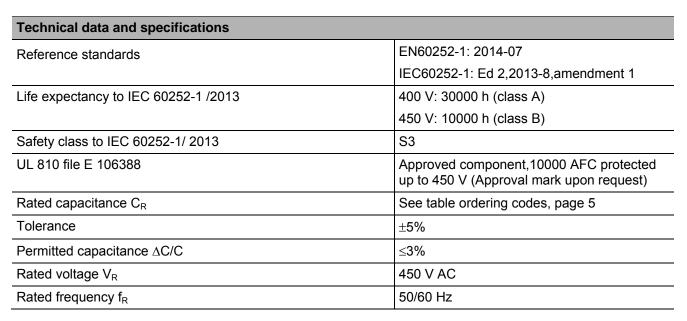
 For general sine wave applications, mainly as motor run capacitor



- Twin core cable, double insulated, 2 x 0.5 mm² minimum, 90 °C, H05-V2-V2-F as standard.
- Twin core cable UL style on request
- Receptacles on request

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









Film Capacitors – AC Capacitors B32356 B32356 - MotorCap S3 Compact Motor run capacitors Maximum ratings Maximum permissible voltage V_{max} $1.1 \cdot V_R$ $(V_R = rated voltage)$ Maximum permissible current I_{max} $1.3\ I_R$ (I_R = rated current) Test data AC test voltage terminal to terminal U_{TT} 2 V_R, 2 s (routine test) 2 V_R, 60 s (type test) 2 kV AC, 2 s (routine test) AC test voltage terminals to can U_{TC} 2 kV AC, 60 s (type test) 3000 s Insulation resistance R_{ins} or time constant τ at +20 °C, Rel. humidity max. value 85%, annual means ≤ 65% ≤1.0 ·10⁻³ (120 Hz) Dissipation factor tan δ at +20 °C Maximum rate of voltage rise dv/dt_{max} 10 V/μs Climatic data 25/085/21 to IEC 60068-1 Climatic category -25 °C Lower category T_{min} +85 °C Upper category T_{max} 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 UL 94 V2 min/ Compliant to EN60252-1/ EN60335-1 Glow wire test to IEC 60695 - 2 - 1 / 1 Self-extinguish within 2 s of withdrawing glow wire without igniting wrapping tissue to GWIT Test temp 550 °C for $I_R \le 0.5 A$ Test temp 750 °C for I_R ≥ 0.5 A Self extinguish within 2 s with GWT 750 °C and Part compliant to EN 60335-1 within 60 s with GWFI 850 °C of withdrawing Glow wire test acc. to EN60335-1:2002 +A11+A1 the glow wire and without igniting the wrapping +A12+Corr.+A2:2006, IEC60335-1 ed 4+A1+A2 tissue Tracking test to IEC 60112 solution A >250 V Compatibility to RoHS Compliance to directive 2002/95/EC





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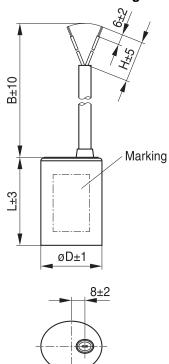
B32356

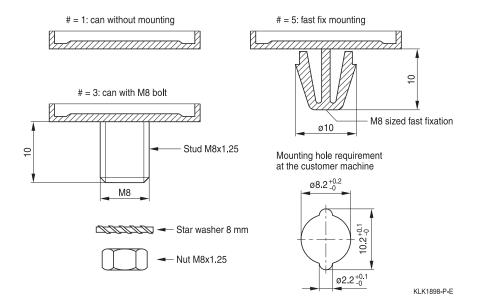
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Approvals		
VDE – 400 V/85 °C: 30000 h (class A)	Approved	
VDE – 450 V/85 °C: 10000 h (class B)	Approved	
UL 810 E106388 Approved component 10000 AFC, protected up to 450 V		
((Compliance to LV directive 2014/35/EU	
Logistics		
Delivery mode	■ EU pallet as standard	
•	Cardboard tape on pallet	
	Pack unit, see dimension table	

Dimensional drawings





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Ordering codes & Packaging units

V_R	C _R	Dimensions D × L	Ordering code	Packing units
V AC	μF	mm		pcs.
400/450	2	25 × 58	B32356B4205J0#x	112
	2.5	25 × 58	B32356B4255J0#x	112
	3	30 × 62	B32356B4305J0#x	112
	3.15	30 × 62	B32356B4315J5#x	112
	4	30 × 62	B32356B4405J0#x	112
	5	35 × 62 ¹	B32356B4505J0#x	84
	6	35 × 62	B32356B4605J0#x	84
	6.3	35 × 62	B32356B4635J0#x	84
	7	35 × 62	B32356B4705J0#x	84
	7.5	35 × 71	B32356B4755J0#x	84
	8	35 × 71	B32356B4805J0#x	84
	9	35 × 71	B32356B4905J0#x	84
	10	35 × 71	B32356B4106J0#x	84
	11	40 × 71	B32356B4116J0#x	60
	12	40 × 71	B32356B4126J0#x	60
	12.5	40 × 71	B32356B4126J5#x	60
	14	45 × 71	B32356B4146J0#x	45
	15	45 × 71	B32356B4156J0#x	45
	16	45 × 96	B32356B4166J0#x	45
	17.5	45 × 96	B32356B4176J5#x	45
	18	50 × 96	B32356B4186J0#x	32
	20	50 × 96	B32356B4206J0#x	32

In construction type, with Fast fixation device, the dimension will change to 32 x 62. For Plain can construction and Plastic can with M8 construction the dimension will remain as 35 x 62

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

x: cable length (dimension 'B', "H' in drawing) up on request.





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Cautions and warnings

⚠ 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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