

Motor run capacitors

Series/Type: B32355 – MotorCap S3 Compact

Ordering code: B32355

Date: September 2016

Version:

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B32355

Motor run capacitors

B32355 – MotorCap S3 Compact

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:
- High insulation resistance
- **Şu** file E 106388 ,component approval mark, on request
- EN 60335-1 compatible

Applications

 For general sine wave applications, mainly as motor run capacitor

Terminals

- Insulated stranded copper wire, 0.5 mm² minimum as standard
- Insulated solid copper wire, 0.5 mm² minimum 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



Technical data and specifications				
Reference standards	EN60252-1: 2014-07			
	IEC60252-1: Ed 2,2013-8,amendment 1			
Life expectancy to IEC 60252-1 /2013	400 V: 30000 h (class A)			
	450 V: 10000 h (class B)			
Safety class to IEC 60252-1/ 2013	S3			
UL 810 file E 106388	Approved component,10000 AFC protected up to 450 V (Approval mark upon request)			
Rated capacitance C _R	See table ordering codes, page 5			
Tolerance	±5%			
Permitted capacitance ΔC/C	≤3%			
Rated voltage V _R	450 V AC			
Rated frequency f _R	50/60 Hz			



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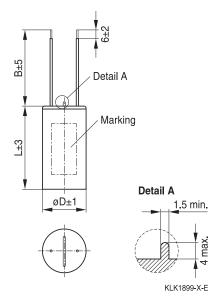
Maximum ratings						
Maximum permissible voltage V _{max}	1.1 · V _R (V _R = rated voltage)					
Maximum permissible current I _{max}	1.3 l _R (l _R = rated current)					
Test data						
AC test voltage terminal to terminal U _{TT}	2 V _R , 2 s (routine test)					
	2 V _R , 60 s (type test)					
AC test voltage terminals to can U_{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 max. value 85%, annual means \leq 65%	3000 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	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					
Test temp 550 ° C for $I_R \le 0.5$ A	wire without igniting wrapping tissue to GWIT					
Test temp 750 ° C for I _R ≥ 0.5 A						
 Part compliant to EN 60335-1 Glow wire test acc. to EN60335-1:2002 +A11+A1 +A12+Corr.+A2:2006, IEC60335-1 ed 4+A1+A2 	Self extinguish within 2 s with GWT 750 °C and within 60 s with GWFI 850 °C of withdrawing the glow wire & without igniting the wrapping tissue					
Tracking test to IEC 60112 solution A	>250 V					
Compatibility to RoHS						
Compliance to directive 2002/95/EC	RoHS					

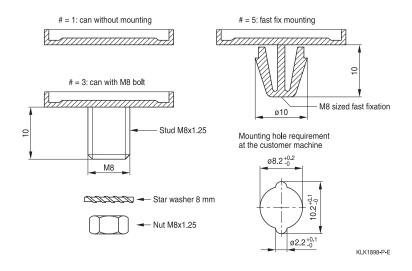


Film Capacitors – AC Capacitors	B32355
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Approvals			
VDE – 400 V/85 °C: 30000 h (class A)	Approved		
VDE – 450 V/85 °C: 10000 h (class B)	Approved		
FL UL 810 E106388	Approved component 10000 AFC, protected up to 450 V		
CE	Compliance to LV directive 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 ¹	B32355A4205J0*x	112
	2.5	25 × 58 ¹	B32355A4255J0*x	112
	3	30 × 62	B32355A4305J0*x	112
	3.15	30 × 62	B32355A4315J5*x	112
	4	30 × 62	B32355A4405J0*x	112
	5	35 × 62	B32355A4505J0*x	84
	6	35 × 62	B32355A4605J0*x	84
	6.3	35 × 62	B32355A4635J0*x	84
	7	35 × 62	B32355A4705J0*x	84
	7.5	35 × 71	B32355A4755J0*x	84
	8	35 × 71	B32355A4805J0*x	84
	9	35 × 71	B32355A4905J0*x	84
	10	35 × 71	B32355A4106J0*x	84
	11	40 × 71	B32355A4116J0*x	60
	12	40 × 71	B32355A4126J0*x	60
	12.5	40 × 71	B32355A4126J5*x	60
	14	45 × 71	B32355A4146J0*x	45
	15	45 × 71	B32355A4156J0*x	45
	16	45 × 96	B32355A4166J0*x	45
	17.5	45 × 96	B32355A4176J5*x	45
	18	50 × 96	B32355A4186J0*x	32
	20	50 × 96	B32355A4206J0*x	32

¹ With M8 bolt construction the dimension (L) will increase by 8mm

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 and 35 mm, others on request
- x: Wire length (dimension 'b' in drawing) up on request.

CAP RD FILM PD AC

September 2016



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⚠ 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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