

Film Capacitors – AC Capacitors

Motor run capacitors

 Series/Type:
 B32355C – MotorCap™ S3 Compact, 100 °C

 Ordering code:
 B32355C

 Date:
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 Version:
 1

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Construction

- Metallized polypropylene film
- Plastic can with resin 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
- IEC 60335-1 compatible
- Higher operating temperature class,100 °C.

Applications

 For general sine wave applications, mainly as motor run capacitor

Terminals

■ Insulated solid copper wire, 0.5 mm²,105°C.

Mounting parts (optional)

Plain can

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: 10000 h (class B)	
Safety class to IEC 60252-1/ 2013	S3	
Rated capacitance C _R	See table ordering codes, page 5	
Tolerance	±5%	
Permitted capacitance $\Delta C/C$	< <u>3%</u>	
Rated voltage V _R	400 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 U_{TT}	2 V _R , 2 s (routine test)			
AC test voltage terminals to can $U_{\ensuremath{TC}}$	2 kV AC, 2 s (routine test)			
Insulation resistance R_{ins} or time constant τ at 20 °C,	3000 s			
Rel. humidity max. value 85%, annual means \leq 65%				
Dissipation factor tan δ at 20 $^{\circ}\text{C}$	≤30.0 ·10 ⁻³ (1K Hz)			
Maximum rate of voltage rise dv/dt _{max}	10 V/µs			
Climatic data				
Climatic category	25/100/21 to IEC 60068-1			
Lower category T _{min}	–25 °C			
Upper category T _{max}	+100 °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 EN60252-1/ IEC60335-1			
■ Glow wire test to IEC 60695 – 2 – 1 / 1	Self-extinguish within 30 s of withdrawing glow wire			
Test temp 550 ° C for $I_R\!\le 0.5~\text{A}$	without igniting wrapping tissue			
Test temp 850 ° C for $I_R \ge 0.5 A$				
 Part compliant to IEC 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 30 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 compatible			
Approvals				
VDE – 400 V/100 °C: 10000 h (class B)	Approved			
CE	Compliance to LV directive 2014/35/EU			
Marking	Cx uF +/-Tx% 400 VAC 10000h/Cl.B 25/100/21 MKP 'SH' 50/60Hz S3 B32355C IEC60252-1 P.O. No. WW.YYN			

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Dimensional drawing:





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V _R	C _R	Dimensions D × L	Ordering code	Packing units
V AC	μF	mm		pcs
400	1.5	25 × 51	B32355C4155J019	231
	2.0	25 × 51	B32355C4205J019	231
	2.5	25 × 51	B32355C4255J019	231
	3	25 × 60.5	B32355C4305J015	198
	4	25 × 75	B32355C4405J015	To be defined
	5	25 × 75	B32355C4505J015	To be defined

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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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