

## 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 mm<sup>2</sup>,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 <sub>R</sub>	See table ordering codes, page 5	
Tolerance	±5%	
Permitted capacitance $\Delta C/C$	< <u>3%</u>	
Rated voltage V <sub>R</sub>	400 V AC	
Rated frequency f <sub>R</sub>	50/60 Hz	
Maximum ratings		
Maximum permissible voltage V <sub>max</sub>	1.1 · V <sub>R</sub> (V <sub>R</sub> = rated voltage)	
Maximum permissible current I <sub>max</sub>	1.3 $I_R$ ( $I_R$ = rated current)	



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Test data				
AC test voltage terminal to terminal $U_{TT}$	2 V <sub>R</sub> , 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 $\tau$ at 20 °C,	3000 s			
Rel. humidity max. value 85%, annual means $\leq$ 65%				
Dissipation factor tan $\delta$ at 20 $^{\circ}\text{C}$	≤30.0 ·10 <sup>-3</sup> (1K Hz)			
Maximum rate of voltage rise dv/dt <sub>max</sub>	10 V/µs			
Climatic data				
Climatic category	25/100/21 to IEC 60068-1			
Lower category T <sub>min</sub>	–25 °C			
Upper category T <sub>max</sub>	+100 °C			
Damp heat test t <sub>test</sub>	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 $I_R \ge 0.5 A$				
<ul> <li>Part compliant to IEC 60335-1</li> <li>Glow wire test acc. to EN60335-1:2002</li> <li>+A11+A1 +A12+Corr.+A2:2006, IEC60335-1</li> <li>ed 4+A1+A2</li> </ul>	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				
<b>VDE</b> – 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 <sub>R</sub>	C <sub>R</sub>	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

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