



Film Capacitors – AC Capacitors

Motor run capacitors

Series/Type:	MotorCap S3 Compact, 100 °C
Ordering code:	B32355C
Date:	May 2024
Version:	3

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.

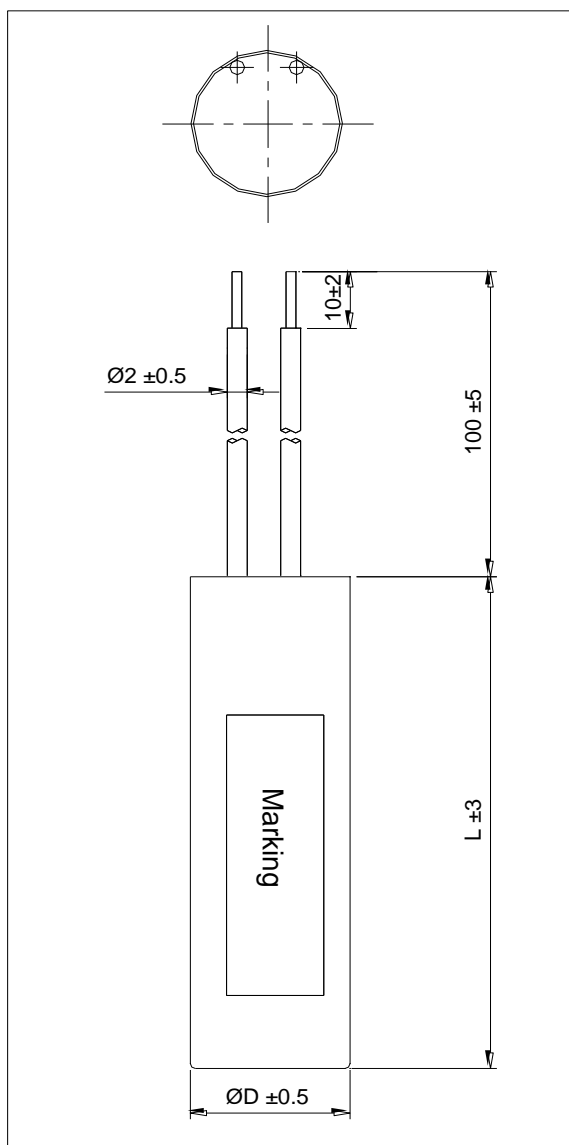
Mounting parts (optional)

- Plain can

Technical data and specifications	
Reference standards	IEC 60252-1+A1:2013
Life expectancy to IEC 60252-1+A1:2013	400 V: 10000 h (class B)
Safety class to IEC 60252-1+A1:2013	S3
Rated capacitance C _R	See table ordering codes, page 5
Tolerance	±5%
Permitted capacitance ΔC/C	≤3%
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)

Test data	
AC test voltage terminal to terminal V_{TT}	2 V_R , 2 s (routine test)
AC test voltage terminals to can V_{TC}	2 kV AC, 2 s (routine 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 $\tan \delta$ at 20 °C	$\leq 7 \cdot 10^{-3}$ (1kHz)
Maximum rate of voltage rise dv/dt_{max}	10 V/ μ s
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 @ 40°C, 93% RH
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
<ul style="list-style-type: none"> ■ Glow wire test to IEC 60695 – 2 – 1 / 1 Test temp 550 ° C for $I_R \leq 0.5$ A Test temp 850 ° C for $I_R \geq 0.5$ 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 30 s of withdrawing glow wire without igniting wrapping tissue
Tracking test to IEC 60112 solution A	>250 V
Compatibility to RoHS	
Compliance to directive 2002/95/EC	
Approvals	
VDE – 400 V/100 °C: 10000 h (class B)	Approved
	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

Dimensional drawing




Ordering codes & Packaging units

V _R V AC	C _R μF	Dimensions D × L mm	Ordering code	Packing units 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
	3.5	25 × 60.5	B32355C4355J015	198
	4	25 × 75	B32355C4405J015	180
	5	25 × 75	B32355C4505J015	180
	8	30 × 78	B32355C4805J015	108

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