



Film Capacitors – AC Capacitors

Motor run capacitors

Series/Type:	B32356 – MotorCap™ S3 Compact
Ordering code:	B32356
Date:	August 2020
Version:	4

Construction

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

Features

- Self-healing properties
- Low dissipation factor
- Highest safety level S3 to IEC 60252-1 2013-08
- High insulation resistance

Typical applications

- For general sine wave applications, mainly as motor run capacitor

Terminals


- Twin core cable, double insulated, minimum 2 × 0.5 mm², 105°C, (H05-V2-V2-F)
- Receptacles: As per dimensional drawing

Mounting parts

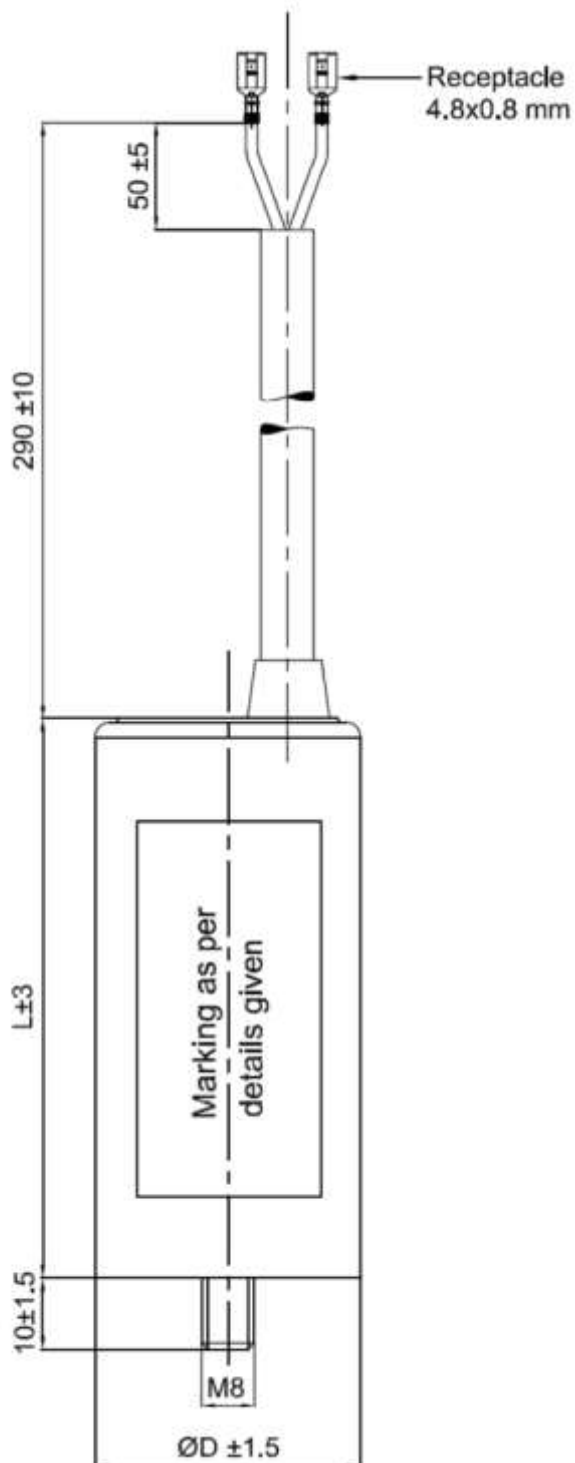
- Threaded stud at bottom of can (M8, max. torque = 5 Nm)



Technical data and specifications		
Reference standards	IEC 60252-1 2013 – 08	
Life expectancy to IEC 60252-1	450 V/85 °C: 10,000 h (class B)	
Safety class to IEC 60252-1 2013-08	S3	
Rated capacitance C _N	See dimensions table	
Tolerance	± 5%,	
Permitted capacitance ΔC/C	≤ 3%	
Rated voltage U _N	450 V AC	
Rated frequency f _N	50/60 Hz	
Maximum ratings		
Maximum permissible voltage U _{max}	1.1 · U _N	(U _N = rated voltage)
Maximum permissible current I _{max}	1.3 · I _N	(I _N = rated current)

Test data	
AC test voltage terminal to terminal V_{TT}	$2 \cdot U_N$, 2 s (routine test) $2 \cdot U_N$, 60 s (type test)
AC Test voltage terminals to case V_{TC}	2kV AC, 2 s (routine test) 2kV AC, 60 s (type test)
Insulation resistance R_{ins} or time constant τ at 20 °C, Rel. Humidity max. value 85%, annual means $\leq 65\%$	3,000 s
Dissipation factor $\tan \delta$ at 20 °C	$\leq 1.0 \times 10^{-3}$ (120 Hz)
Maximum rate of voltage rise dV/dt_{max}	10 V/ μ s
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 case and top disk material, filling material	Compliant to IEC 60252/60335-1, UL 94 – V0
■ Glow wire test to IEC 60695-2-1/0 and -2-1/1 Test temperature 550 °C for $I_R \leq 0.5$ A Test temperature 750 °C for $I_R > 0.5$ A	Self-extinguish within 2 seconds of withdrawing glow wire without igniting wrapping tissue to GWIT
Tracking Test to IEC 60112 solution A	> 250 V
Compatibility to RoHS	
Compliance to directive 2011/65/EU	
Approvals	
VDE – 450 V/85 °C: 10,000 h (class B)	Approved

Dimensional drawing: B32356B6XXXXJ XX



Marking Label

	Cx μ F +/-5%	450 VAC	
EPCOS	B	S3 B32356	
MKP 'SH'	50/60Hz	25/085/21	IEC60252-1
RoHS compliance		P.O.No.	WW.YYN

Ordering codes and packing units

U_N V AC	C_N μF	Max. dimensions ØD × L (mm)	Ordering code	Packing units pcs.
450	2	30 × 60	B32356B6205J 32	112
	2.5	30 × 60	B32356B6255J 32	112
	3	30 × 60	B32356B6305J 32	112
	3.5	30 × 60	B32356B6355J 32	112
	4	30 × 60	B32356B6405J 22	112
	5	35 × 62	B32356B6505J 22	84
	6	35 × 62	B32356B6605J 22	84

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