



Film AC Capacitors

Motor Run Capacitors

Series/Type: B32352-Cap S3
Ordering code: B32352A*

Date: June 2025
Version: 00

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+A1:2013
- High insulation resistance

Applications

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

Terminals

- B32352 – Double Fast-on 6.3 x 0.8 mm

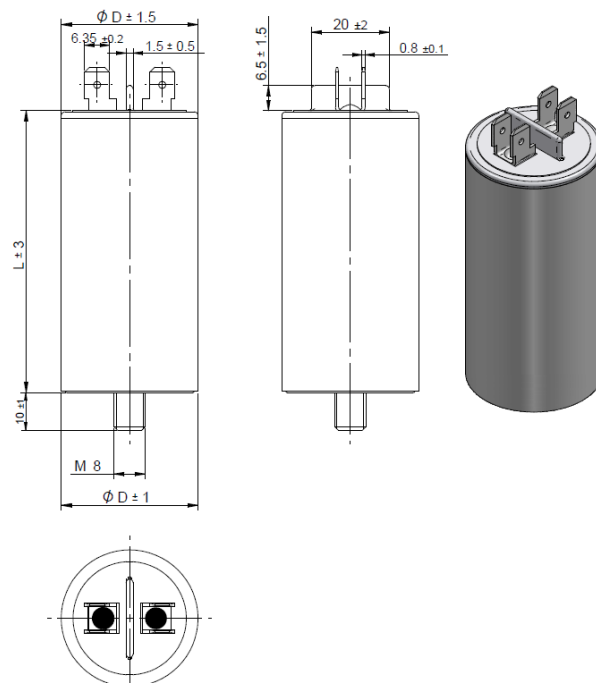
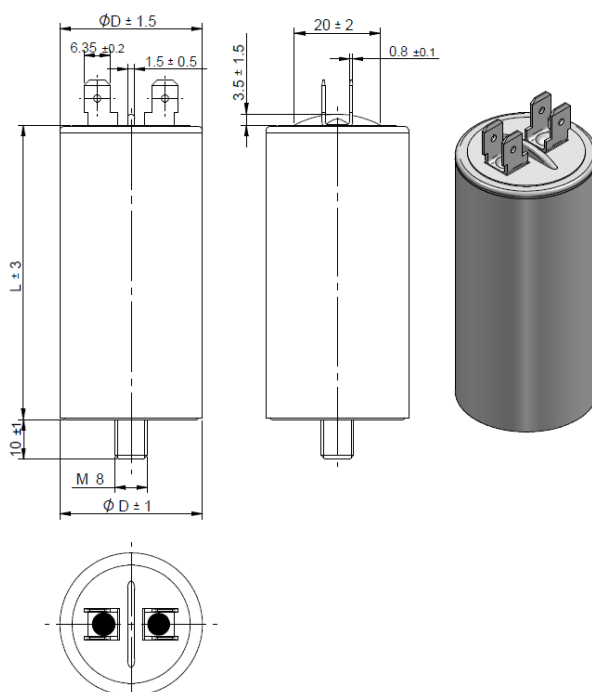
Mounting parts (optional)

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

Technical data and specifications	
Reference standards	IEC 60252-1+A1 :2013 EN60252-1 : 2014-07
Life expectancy to IEC 60252-1+A1 :2013	400 V: 30000 h (class A) 450 V: 10000 h (class B)
Safety class according to IEC 60252-1+A1 :2013	S3
Rated capacitance C _x	See "Ordering codes table"
Tolerance T _x	±5%
Permitted capacitance $\Delta C/C$	≤3%
Rated voltage V _{rms}	400/450 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	
Insulation resistance R _{ins} or time constant τ at 20 °C, Rel. humidity max. value 85%, annual means ≤ 65%	3000 s

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Dissipation factor $\tan \delta$ at 20 °C	$\leq 1.0 \times 10^{-3}$ (1 kHz)
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
Compatibility to RoHS	
Compliance to directive 2011/65/EU, Annex II, amended by Directive (EU) 2015/863	
Approvals	
VDE – 400 V/85 °C: 30000 h (class A)	Approved
VDE – 450 V/85 °C: 10000 h (class B)	Approved
	Compliance to LV directive 2014/35/EU
Marking	<div style="border: 1px solid black; padding: 5px;"> CxμF Vrms Tx% VAC COP S3 Series </div> <p> MKP 'SH' 50/60Hz 25/085/21 IEC60252-1 No PCB's Made by EPCOS P.O.No. ww.yyN </p> <p> Where, Cx- Capacitance value Tx- Tolerance ($\pm 5\%$) Vrms- Rated Voltage (400/450 VAC) COP- Class of operation (A/B) Series- B32352A SH- Self healing type capacitor S3- Safety class 25/85/21- Climatic category ww.yyN – Week code and year of manufacturing, N : Nashik P.O No. – Internal traceability number </p>

Drawings :
Type A:

Type B:


Note: a) All dimensions are in mm

Ordering codes table :

Vrms (V AC)	Cx (μF)	Dimensions (D × L) mm	Ordering code	Type of design	Packing units (pcs)
400/450	2	30X60	B32352A4205J 30	Type A	112
	5	35X62	B32352A4505J 30	Type B	84
	7.5	35X71	B32352A4755J 30	Type B	84
	10	35X71	B32352A4106J 30	Type B	84
	12	40X71	B32352A4126J 30	Type A	60
	15	45X71	B32352A4156J 30	Type A	45
	20	50X96	B32352A4206J 30	Type B	32

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.tdk-electronics.tdk.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 our specification before ordering.

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Important notes

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