



Film Capacitors- AC Capacitors

Motor run capacitors

Series/Type: Super MotorCap™, 450 V
Ordering code: B32332B6205J071
Date: Feb 2024
Version: 0

Construction

- Metallized polypropylene film
- Aluminum can with plastic top
- Soft polyurethane resin

Applications

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

Features

- Self-healing properties
- Low dissipation factor
- Safety level P2/ S2
- Overpressure disconnection device
- High insulation resistance
- EN 60335-1 compliance on request



Picture only for reference

Terminals


- B32332 – Double Fast-on: 6.3 x 0.8 mm

Mounting parts

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

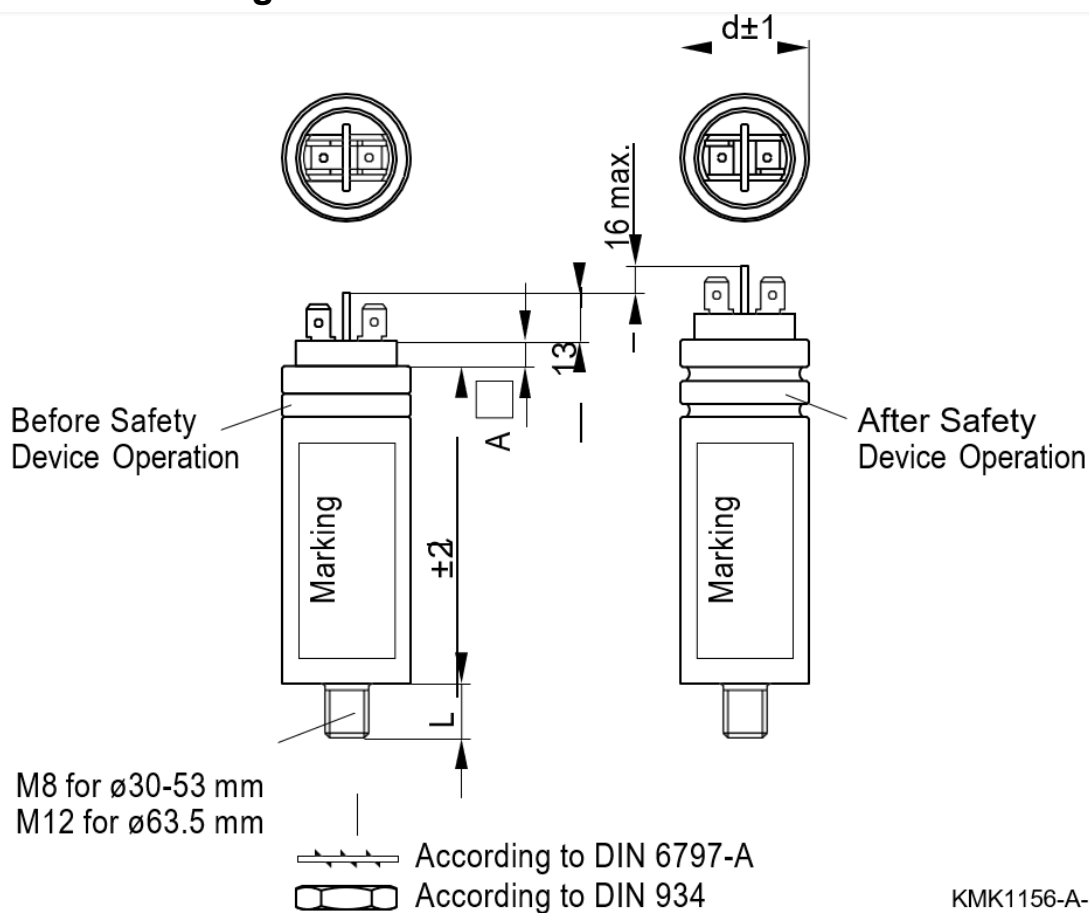
Technical data and specifications

Reference standards	IEC 60252-1+A1:2013
Life expectancy to IEC 60252-1+A1:2013	450 V: 10000 h (Class B)
Safety class	S2
Rated capacitance C_R	2.0uF
Tolerance	±5%
Permitted capacitance $\Delta C/C$	≤3%
Rated voltage V_R	450 VAC
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) 2 V_R , 60 s (type test)
AC test voltage terminals to can V_{TC}	2 kV AC, 2 s (routine test) 2 kV 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%	3000 s
Dissipation factor $\tan \delta$ at +20 °C	$\leq 1.0 \cdot 10^{-3}$ (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	At 125 °C
Plastic can and top disk material	UL 94 V2 minimum
<ul style="list-style-type: none"> ■ UL 94 V2/V0 compatible ■ Glow wire test to IEC 60335-1 / IEC 60695-2-1/1 Test temperature +550 °C / +750 °C ■ Part is compatible to EN 60335-1 	Self-extinguish within 2 seconds of withdrawing glow wire
Tracking test to IEC 60112 solution A	>250 V
Compatibility to RoHS	
Compliance to directive 2011/65/EU	

Approvals	
	Approved up to 20 μ F 450 V / 85 °C: 10000 h (class B)
Marking	
Marking Specifications	Cx μ F ww.yyN Tx % Vrms VAC PO Number No PCB's 50/60Hz PART NUMBER S2 B PROTECTED 10000AFC EN 60252 MKP 'SH' 25/085/21 MADE BY EPCOS
	Where, Cx- Capacitance value Tx- Tolerance Vrms- Rated voltage WW.YY*- WW: Week code, YY: Year code * - Manufacturing Location, Nashik PO No.- Internal traceability number

Dimensional drawing



Ordering codes

Voltage VAC	Stud	Capacitance μF	Dimensions d x l mm	Ordering code	Packaging Unit
450	Yes	2.0	30 x 52	B32332B6205J071	49

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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.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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