



Film Capacitors – AC Capacitors

Motor run capacitors

Series/Type: B32332 – Super MotorCap™, 450 V
Ordering code: B32332
Date: Nov 2012
Version: 9

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
- Highest safety level P2 to IEC 60252-1 2001-02
- Overpressure disconnection device
- High insulation resistance
- EN 60335-1 compliance on request



Terminals


- B32332 – Double Fast on: 6.3 × 0.8 mm



Mounting part

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


Technical data and specifications

Reference standards	IEC 60252-1 2001-02, EN 60252 2001 UL 810
Life expectancy to IEC 60252 2001	450 V: 30,000 h (class A)
Safety class according to IEC 60252-1 2001-02	P2
UL 810 file E 106388	Approved Component 10000 AFC protected up to 450 V
Rated capacitance C_R	See table ordering codes, page 6, 7
Tolerance	±5%
Permitted capacitance $\Delta C/C$	≤3 %
Rated voltage V_R	450 V AC
Rated frequency f_R	50 / 60 Hz

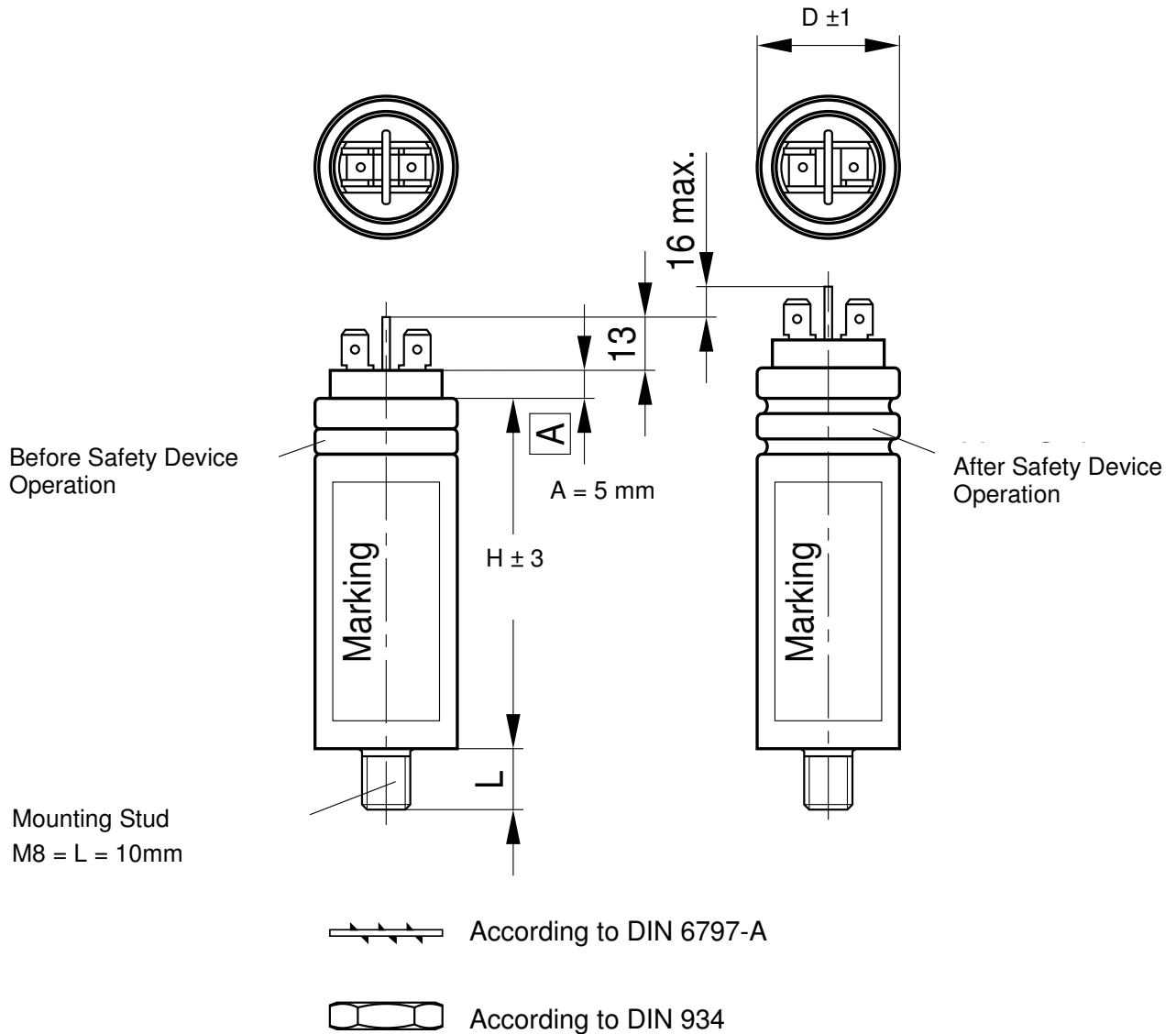
Maximum ratings	
Maximum permissible voltage V_{\max}	$1.1 \cdot V_R$ (V_R = Rated voltage)
Maximum permissible current I_{\max}	$1.3 \cdot I_R$ (I_R = Rated current)
Test data	
AC test voltage terminal to terminal V_{TT}	$2 \cdot V_R$, 2 s (routine test) $2 \cdot V_R$, 60 s (type test)
AC test voltage 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 $\leq 65\%$	3,000 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 2002/95/EC	

Approvals		
VDE EN 60252-1		
450 V / 85 °C:	30,000 h (class A)	Approved Up to 20µF
TÜV EN 60252-1		
450 V / 85 °C:	30,000 h (class A)	Approved up to 50µF
UL 810 E106388		Approved Component 10000 AFC, protected up to 450 V
		
		Approved on request
Logistics		
Delivery mode		<ul style="list-style-type: none"> ■ EU palett as standard ■ Cardboard tape on palett ■ Pack unit, see dimension table

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.epcos.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 your specification before ordering.

Dimensional drawing



Important notes
Ordering codes

V _R V AC	C _R μF	Dimensions D x H mm	Ordering code	Approvals / Life Class				Packaging Unit
				VDE	TUV	UL	CQC	
450	2.5	30 x 52	B32332I6255J081	A	A	●	●	49
	5	30 x 52	B32332I6505J082	A	A	●	●	49
	7.5	30 x 68	B32332I6755J080	A	A	●	●	49
	10	30 x 68	B32332I6106J080	A	A	●	●	49
	15	30 x 78	B32332I6156J080	A	A	●	●	49
	20	30 x 93	B32332I6206J081	A	A	●	●	49
	25	35 x 93	B32332I6256J080	--	A	●	●	36
	30	35 x 93	B32332I6306J080	--	A	●	●	36
	35	35 x 103	B32332I6356J082	--	A	●	●	36
	40	40 x 103	B32332I6406J081	--	A	●	●	36
	50	45 x 103	B32332I6506J082	--	A	●	●	25
	60	45 x 103	B32332I6606J082	--	--	●	●	25

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