

Motor run capacitors

Series/Type: B32333 − Super MotorCap™, 450 V

Ordering code: B32333

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B32333

Motor run capacitors

B32333 - Super MotorCap™, 450 V

Construction

- Metallized polypropylene film
- Aluminum can with protective aluminum cover
- Soft polyurethane resin

Applications

 For general sine wave applications, mainly as motor run capacitor, e.g. compressor motor application

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

- Twin core cable, double insulated, (H05V2V2F)
- Twin core cable UL style on request
- Receptacles on request
- Compliance to IEC60112

Mounting parts (optional)

■ 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 expectance 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				
Tolerance	±5%				
Permitted capacitance ΔC/C	≤3 %				
Rated voltage V _R	450 V AC				
Rated frequency f _R	50 / 60 Hz				





Film Capacitors – AC Capacitors B32333 Motor run capacitors B32333 – Super MotorCap™, 450 V

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 _□	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%	3,000 s
Dissipation factor tan δ at 20 °C	≤1.0 ·10 ⁻³ (120 Hz)
Maximum rate of voltage rise dV/dt _{max}	10 V/μs
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	See option A or option B
Option A:	
■ UL 94 V2 compatible	
■ Glow wire test to IEC 60695-2-1/1 Test temperature 550 °C for $I_R \le 0.5$ A Test temperature 850 °C for $I_R > 0.5$ A	Self extinguish within 30 seconds of withdrawing the glow
Option B:	
■ UL 94 V2/V0 compatible	
■ Glow wire test to IEC 60335-1 / IEC 60695-2-1/7 Test temperature 550 °C / 750 °C	Self-extinguish within 2 seconds of withdrawing glow wire
■ Part is compatible to EN 60335-1	
Tracking test to IEC 60112 solution A	>250 V
Protection class acc. IEC 60529 2001	IP 55

Compliance to directive 2002/95/EC





Film Capacitors – AC Capacitors	B32333
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Approvals						
VDE EN 60252-1						
450 V / 85 °C:	30,000 h (class A)	Approved up to 20μF				
TÜV						
450 V / 85 °C:	30,000 h (class A)	Approved up to 50µF				
UL 810 E106388		Approved Component 10000 AFC, protected				
_C Al _{US}		up to 450 V				
cec		Approved on request				
Logistics						
Delivery mode		■ EU palette as standard				
		Cardboard tape on palette				
		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.

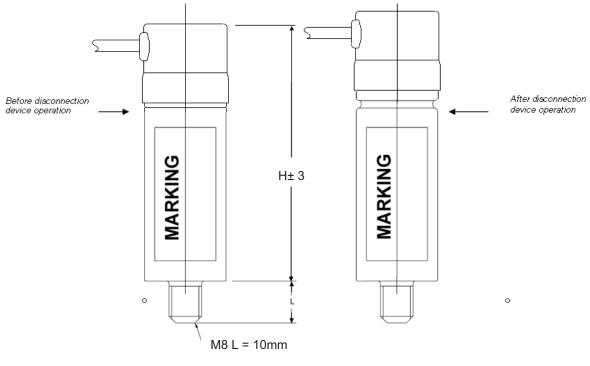


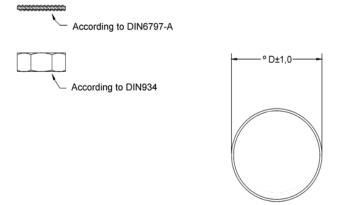
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Dimensional drawing







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Ordering codes:

Rated Voltage V _R VAC	C _R μF	Max. dimensions D x H mm	Ordering code	VDE	TUV	UL	CQC	Packing units
	1	25 x 72	B32333I6105J0#X	Α	Α	•	•	108
	1,5	25 x 72	B32333I6155J0#X	Α	А	•	•	108
	2	25 x 72	B32333I6205J0#X	Α	Α	•	•	108
	2,5	25 x 72	B32333I6255J0#X	Α	Α	•	•	108
	3	25 x 72	B32333I6305J0#X	Α	Α	•	•	108
	3,5	25 x 72	B32333I6355J0#X	Α	Α	•	•	108
	4	25 x 72	B32333I6405J0#X	Α	Α	•	•	108
	5	25 x 88	B32333I6505J0#X	Α	Α	•	•	108
	6	30 x 74	B32333I6605J0#X	Α	Α	•	•	80
	7	30 x 74	B32333I6705J0#X	Α	Α	•	•	80
	7,5	30 x 90	B32333I6755J0#X	Α	Α	•	•	80
	8	30 x 90	B32333I6805J0#X	Α	Α	•	•	80
	9	30 x 90	B32333I6905J0#X	Α	А	•	•	80
450	10	30 x 90	B32333I6106J0#X	Α	Α	•	•	80
	12	30 x 100	B32333I6126J0#X	Α	Α	•	•	80
	15	30 x 100	B32333I6156J0#X	Α	Α	•	•	80
	17	30 x 115	B32333I6176J0#X	Α	А	•	•	80
	20	30 x 115	B3233316206J0#X	Α	Α	•	•	80
	25	35 x 115	B3233316256J0#X		Α	•	•	63
	30	35 x 115	B32333I6306J0#X		Α	•	•	63
	35	35 x 125	B32333I6356J0#X		А	•	•	63
	36	40 x 125	B32333I6366J0#X		Α	•	•	48
	40	40 x 125	B32333I6406J0#X		А	•	•	48
	45	40 x 125	B32333I6456J0#X		Α	•	•	48
	50	45 x 125	B32333I6506J0#X		А	•	•	36
	55	45 x 125	B32333I6556J0#X			•	•	36
	60	45 x 125	B32333I6606J0#X			•	•	36

Composition of ordering code:

#: construction

5 aluminum can, Option A: UL 94 V2 top

6 aluminum can, Option B: UL 94 V2/V0 top/IEC 60335-1

7 aluminum can with M 8 bolt, Option A: UL 94 V2 top

8 aluminum can with M 8 bolt, Option B: UL 94 V2/V0 top/IEC 60335-1

X: Ordering codes will be created based on cable length and receptacles on request



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