



Motor run capacitors

Series/Type: B32333 - 450V Ordering code: B32333*

Date: July 2016

Version: 9

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B32333*

Motor run capacitors

B32333 - 450V

Construction

- Metallized polypropylene film
- Aluminum can with protective aluminum cover
- Filling material: soft polyurethane resin

Features

- Self-healing properties
- Low dissipation factor
- Overpressure disconnection safety device
- S2 safety class as per IEC-60252-1(ed-2) am1
- High insulation resistance
- EN 60335-1 compliance on request

Applications

For general sine wave application, mainly as motor run

Terminals

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

Mounting Parts (Optional)

■ Threaded stud at bottom of can (M8, Max torque= 5 Nm) as option



Technical data and specifications						
Reference standards	DIN EN 60252-1:2014-07, IEC 60252-1 (ed 2) am1					
	UL 810					
Safety class to IEC 60252-1 2013	S2					
Life expectancy to IEC 60252-1 2013	450 V : 30000 h (Class A)					
UL 810 file E106388	Approved component 10000 AFC					
Rated capacitance C _R	See table ordering code , page 6					
Tolerance Tx	+/- 5%					
Rated voltage V _{rms}	450 V AC					
Rated frequency f _R	50/60 Hz					

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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}	2.0 • V _R , 2 s (routine test) 2.0 • V _R , 60 s (type test)
AC test voltage terminal to can V_{TC}	2 kVAC , 2 s (routine test) 2 kVAC , 60 s (type test)
Insulation resistance R_{ins} or time constant at +20 $^{\circ}$ C, rel. humidity ≤65% (minimum as-delivered values)	3000 s
Dissipation factor tan δ at +20 ℃	≤ 10 • 10 ⁻³ (1 kHz)
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 of terminal insulato	r material
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 60695-2-10/11 Test temperature +550 °C for I _R ≤ 0.5 A Test temperature +850 °C for I _R > 0.5 A	Self-extinguish within 30 seconds of withdrawing glow wire without igniting wrapping tissue of GWT
Option B: UL 94 V2/V0 compatible Glow wire test to IEC60335-1 Test temperature +750 °C Part is compatible to EN 60335-1	Self-extinguishing within 2 seconds of withdrawing glow wire without igniting wrapping tissue of GWT
Tracking test to IEC 60112 solution A	> 250 V
Protection class acc. IEC 60529 2001	IP 55
Compatibility to RoHS	
Compliance to directive 2011/65/EU	RoHS





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Approvals: See table for approved ratings					
UL 810 E106388	Approved component 10000AFC Protected up to 450V				
VDE EN 60252-1	Approved up to 20 uF , 450 V / 85°C : 30000 h (Class A)				
TÜV EN 60252-1	Approved up to 50 uF , 450 V / 85°C : 30000 h (Class A)				
cac	Approval on request				
(€	Compliance to LV directive 2014/35/EU				
Logistics					
Delivery mode	EU palette as standardCardboard tape on palettePack unit, see dimension table				



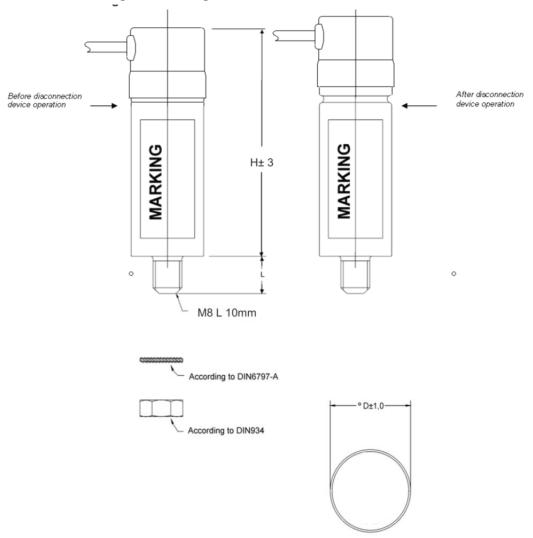


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Dimensional drawing and marking







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Ordering codes and packing unit

Rated voltage V _R	Rated current C _R	Dimension D x H	Ordering code	VDE	TUV	UL	CQC	Packing unit
V AC	μF	mm						pcs
	1	30 x 74	B32333I6105J0#X	Α	Α	•	•	49
	1.5	30 x 74	B32333I6155J0#X	Α	Α	•	•	49
	2	30 x 74	B32333I6205J0#X	Α	Α	•	•	49
	2.5	30 x 74	B32333I6255J0#X	Α	Α	•	•	49
	3	30 x 74	B32333I6305J0#X	Α	Α	•	•	49
	3.5	30 x 74	B32333I6355J0#X	Α	Α	•	•	49
	4	30 x 74	B32333I6405J0#X	Α	Α	•	•	49
	5	30 x 74	B32333I6505J0#X	Α	Α	•	•	49
	6	30 x 74	B32333I6605J0#X	Α	Α	•	•	49
	7	30 x 74	B32333I6705J0#X	Α	Α	•	•	49
-	7.5	30 x 90	B32333I6755J0#X	Α	Α	•	•	49
	8	30 x 90	B32333I6805J0#X	Α	Α	•	•	49
	9	30 x 90	B32333I6905J0#X	Α	Α	•	•	49
450	10	30 x 90	B32333I6106J0#X	Α	Α	•	•	49
	12	30 x 100	B32333I6126J0#X	Α	Α	•	•	49
	15	30 x 100	B32333I6156J0#X	Α	Α	•	•	49
	17	30 x 115	B32333I6176J0#X	Α	Α	•	•	49
	20	30 x 115	B32333I6206J0#X	Α	Α	•	•	49
	25	35 x 115	B32333I6256J0#X		Α	•	•	36
	30	35 x 115	B32333I6306J0#X		Α	•	•	36
	35	35 x 125	B32333I6356J0#X		Α	•	•	36
	36	40 x 125	B32333I6366J0#X		Α	•	•	36
	40	40 x 125	B32333I6406J0#X		Α	•	•	36
	45	40 x 125	B32333I6456J0#X		Α	•	•	36
	50	45 x 125	B32333I6506J0#X		Α	•	•	25
	55	45 x 125	B32333I6556J0#X			•	•	25
	60	45 x 125	B32333I6606J0#X			•	•	25

Composition of ordering code

#: construction

- 5 Aluminum can flat type, option A: UL 94 V2 top
- 6 Aluminum can flat type, option B: UL 94 V2/V0 top/IEC 60335-1
- 7 Aluminum can with M8 bolt, option A: UL 94 V2 top
- 8 Aluminum can with M8 bolt, option B: UL 94 V2/V0 top/IEC 60335-1

X: 0 as per this dimension and properties

1-9 special dimension and properties





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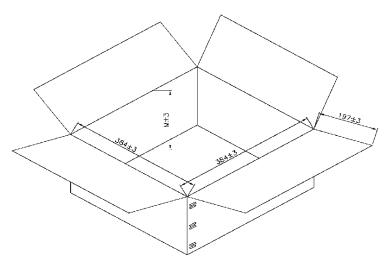
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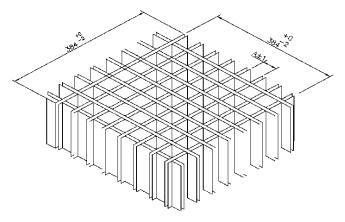
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Packing box



<u>M = 11(Capacitor height) + Terminal height + 10mm min.</u>



A Please read "Applications warning, installation and maintenance instructions" and the "ZVEI -General safety recommendations for power capacitors", 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.





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