

Film Capacitors – AC Capacitors

Motor run capacitors

 Series/Type:
 450 V

 Ordering code:
 B32330 / B32332

 Date:
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 Version:
 6

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Construction

- Metallized polypropylene film
- Aluminum can with plastic top
- 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

- B32330 Single fast-on 6.3 x 0.8 mm / Single fast-on 4.8 x 0.5 mm on request
- B32332 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	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			
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}	$1.1 \bullet V_R$ (V _R = Rated voltage)			
Maximum permissible current I _{max}	$1.3 \bullet I_R$ (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 ℃, rel. humidity≤65% (minimum as-delivered values)	3000 s			
Dissipation factor tan δ at +20 $^{\circ}\!$	≤7 • 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 insulat	or material			
Ball pressure test to IEC 60309-1 sec. 27.3	At +125 °C			
Plastic can and top disk material	UL 94 V2 minimum			
 UL 94 V2/V0 compatible Glow wire test to IEC60335-1 / IEC 60695-2-1/1 Test temperature +750 °C Part is compatible to EN 60335-1 	Self-extinguish within 2 seconds of withdrawing glow wire without igniting wrapping tissue of GWT			
Tracking test to IEC 60112 solution A	> 250 V			
Compatibility to RoHS				
Compliance to directive 2011/65/EU	RoHS compatible			
Approvals: see table for approved ratings				
UL 810 E106388				
	Approved component 10000 AFC, protected up to 450 V			
VDE EN 60252-1				
DE	Approved up to 20 uF, 450 V / +85 °C : 30000 h (Class A)			



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TÜV EN 60252-1	Approved up to 50 uF, 450 V / +85 °C : 30000 h (Class A) Approval on request			
CQC				
CE	Compliance to LV directive 2014/35/EU			
Logistics				
Delivery mode	EU palette as standard			
	Cardboard tape on palettePack unit, see dimension table			

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Dimensional drawing



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Ordering codes

Rated voltage V _R	Rated capacitance C _R	Dimensions D x H	Ordering code	Approv	Packing unit			
V AC	μF	mm		VDE	ΤÜV	UL	CQC	pcs
	1	30 x 52	B3233*I6105J0#0	А	А	•	•	49
	1.5	30 x 52	B3233*I6155J0#0	А	А	•	•	49
	2	30 x 52	B3233*I6205J0#0	А	А	•	•	49
	2.5	30 x 52	B3233*I6255J0#1	А	А	•	•	49
	3	30 x 52	B3233*I6305J0#0	А	А	•	•	49
	3.5 3	30 x 52	B3233*I6355J0#0	А	А	•	•	49
4 5	4	30 x 52	B3233*I6405J0#0	А	А	•	•	49
	5	30 x 52	B3233*I6505J0#1	А	А	•	•	49
	6	30 x 52	B3233*I6605J0#0	А	А	•	•	49
7 7.5 8 9 10 11 12 15 17 18	7	30 x 52	B3233*I6705J0#0	А	А	•	•	49
	7.5	30 x 68	B3233*I6755J0#0	А	А	•	•	49
	8	30 x 68	B3233*I6805J0#0	А	А	•	•	49
	9	30 x 68	B3233*I6905J0#0	А	А	•	•	49
	10	30 x 68	B3233*I6106J0#0	А	А	•	•	49
	11	30 x 78	B3233*I6116J0#0	А	А	•	•	49
	12	30 x 78	B3233*I6126J0#0	А	А	•	•	49
	15	30 x 78	B3233*I6156J0#0	А	А	•	•	49
	17	30 x 93	B3233*I6176J0#0	А	А	•	•	49
	18	30 x 93	B3233*I6186J0#0	А	А	•	•	49
	20 30 x	30 x 93	B3233*I6206J0#1	А	А	•	•	49
22 25 30 35 36	22	35 x 93	B3233*l6226J0#2		Α	•	•	36
	25	35 x 93	B3233*l6256J0#0		Α	•	•	36
	30	35 x 93	B3233*l6306J0#0		Α	•	•	36
	35	35 x 103	B3233*I6356J0#1		Α	•	•	36
	36	40 x 103	B3233*l6366J0#1		Α	•	•	36
	40 40 x 103 45 40 x 103	B3233*l6406J0#1		Α	•	•	36	
		40 x 103	B3233*l6456J0#1		Α	•	•	36
50 45 x 103 55 45 x 103 60 45 x 103	45 x 103	B3233*I6506J0#1		Α	•	•	25	
	55	45 x 103	B3233*l6556J0#2			•	•	25
	60	45 v 103	B3233*l6606J0#2			•	•	25

Composition of ordering code

*: Terminals

- 0 Single fast-on terminals
- 2 Double fast-on terminals

Construction of can and plastic top

Aluminum can: UL 94 V2/V0 top/IEC 60335-1

Aluminum can with M 8 bolt: UL 94 V2/V0 top/IEC 60335-1

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Packing box



M = H(Capacitor height) - Terminal height + 10mm min.



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