

Film Capacitors - AC Capacitors

Motor run capacitors

Series/Type: CBB65A-1 Ordering code: B3333*

Date: DEC 2019

Version: 2

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B3333*

Motor run capacitors

CBB65A-1

Construction

- Metallized polypropylene film
- Aluminum can and 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

Typical applications

For general sine wave application, mainly as motor run

Terminals

■ 2+2 fast-on terminal 6.3 x 0.8mm #250 style, others on request

Mounting Parts (optional)

■ Threaded stud at bottom of can (M8, Max torque= 5 Nm for 50 mm diameter)

Technical data and specifications							
Reference standards	DIN EN 60252-1:2014-07, IEC 60252-1 (ed 2) am1						
	UL 810, GB/T3667.1						
Safety class to IEC 60252-1 2013	S2						
Life expectancy to IEC 60252-1 2013	450 V : 30000 h (Class A)						
Rated capacitance C _R	See Table ordering code, page 5						
Tolerance T _x	+/- 5%						
Rated voltage V _{RMS}	450 V, others on request						
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)						





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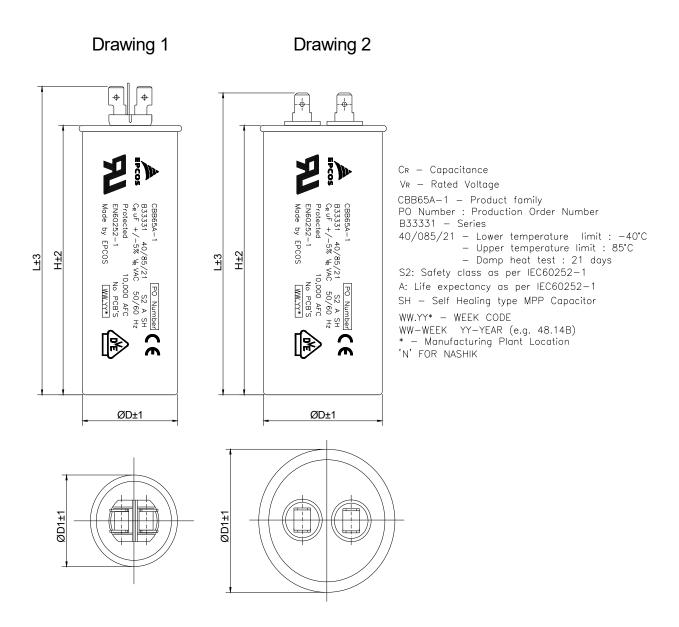
Test data							
AC test voltage terminal to terminal V_{TT}	20.47 25						
Insulation voltage terminals to case	2.0 • V _R , 2 s 3000 V AC, 2 s						
	10000 s						
Insulation resistance R _{ins} or time constant at +20 °C, rel. Humidity≤65% (minimum as-delivered values)	10000 \$						
Dissipation factor tan δ at +20 °C	≤ 7 • 10 ⁻³ (1 kHz)						
Maximum rate of voltage rise dv/dt _{max}	10 V/µs						
Climatic data							
Climatic category	40/085/21 to IEC 60068-1						
Lower category T _{min}	-40 °C						
Upper category T _{max}	+85 °C						
Damp heat test t _{test}	21 days						
Mechanical and thermal properties of terminal insulator material							
Terminal material ■ UL 94 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						
Compatibility to RoHS							
Compliance to directive 2011/65/EU	RoHS						
Approvals: See table for approved ratings							
N US UL File E 238746	Approved component 10000 AFC						
VDE EN 60252-1	Approved up to 65 μ F, 450 V / 85 $^{\circ}$ C : 30000 h (Class A)						
cac	Approval on request						
CE	Compliance to LV directive 2014/35/EU						

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Dimensional drawing and marking





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Ordering codes and packing unit

V _R	C _R	Case dimensions (D × H)	D1	L	Drawing No.	Ordering code	Packing unit	Approval
V AC	μF	mm	mm	mm				
450	2	30 x 55	33	73	1	B3333*B6205J0#X	100	VDE/UL
	4	35 x 55	38	68	2	B3333*B6405J0#X	64	VDE/UL
	6	30 x 65	33	83	1	B3333*B6605J0#X	100	VDE/UL
	8	35 x 65	38	78	2	B3333*B6805J0#X	64	VDE/UL
	10	30 x 75	33	93	1	B3333*B6106J0#X	100	VDE/UL
	12	40.5 x 65	43.5	78	2	B3333*B6126J0#X	49	VDE/UL
	14	45 x 55	48	68	2	B3333*B6146J0#X	49	VDE/UL
	16	40.5 x 75	43.5	88	2	B3333*B6166J0#X	49	VDE/UL
	20	40.5 x 85	43.5	98	2	B3333*B6206J0#X	49	VDE/UL
	25	40.5 x 100	43.5	113	2	B3333*B6256J0#X	49	VDE/UL
	25	45 x 85	48	98	2	B3333*B6256J0#X	49	VDE/UL
	30	50 x 85	53	98	2	B3333*B6306J0#X	36	VDE/UL
	40	50 x 100	53	113	2	B3333*B6406J0#X	36	VDE/UL
	50	50 x 100	53	113	2	B3333*B6506J0#X	36	VDE/UL

Composition of ordering code

*: Terminals:

B33331: 2+2 fast-on terminals

B3333x: Other terminal configuration on request

#:construction

6 Aluminium Can Flat type8 Aluminium Can with M8 bolt

X: 0 as per this dimension and properties 1-9 special dimension and properties

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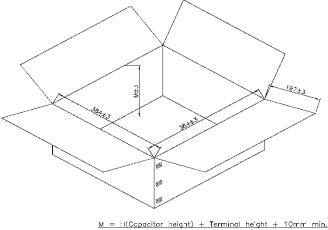


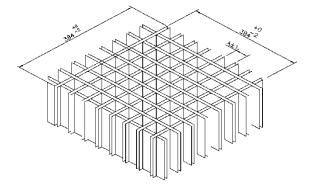
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Packing box





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.tdkelectronics.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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