



Motor run capacitors

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

Date: July 2016

Version:

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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 Tx	+/- 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}	2.0 • V _R , 2 s						
Insulation voltage terminals to case	3000 V AC, 2 s						
Insulation resistance R_{ins} or time constant at +20 $^{\circ}$ C, rel. Humidity ≤65% (minimum as-delivered values)	10000 s						
Dissipation factor $\tan \delta$ at +20 $^{\circ}$ 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 uF , 450 V / 85°C : 30000 h (Class A)						
COC	Approval on request						
CE	Compliance to LV directive 2014/35/EU						





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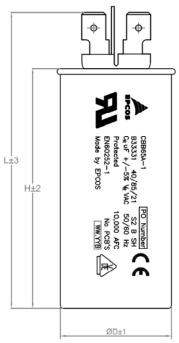
Motor run capacitors

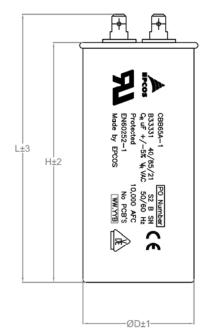
CBB65A-1

Dimensional drawing and marking

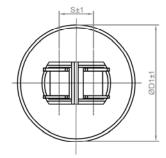
Drawing 1

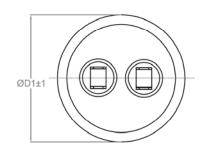






CR - Capacitance VR - Rated Voltage Ve - Rated Voltage
CBB65A-1 - Product family
PO Number: Production Order Number
B33331 - Series
40/085/21 - Lower temperature limit: -40°C
- Upper temperature limit: 85°C
- Damp heat test: 21 days
S2: Safety class as per IEC60252-1
B: Life expectancy as per IEC60252-1
SH - Self Healing type MPP Capacitor WW.YYB - WEEK CODE WW-WEEK YY-YEAR (e.g. 48.14) B- FOR BAWAL





CAP FILM T RD PD AC July 2016





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Ordering codes and packing unit

V _R	C _R	Case dimensions (D × H) mm	D1	L	Drawing No.	Ordering code	Packing unit	Approval
-	2	30 x 55	33	73	1	B3333*B6205-J0#X	100	VDE/UL
450		30 X 33		73	<u> </u>			
	4	35 x 55	38	68	2	B3333*B6405-J0#X	64	VDE/UL
	6	30 x 65	33	83	1	B3333*B6605-J0#X	100	VDE/UL
	8	35 x 65	38	78	2	B3333*B6805-J0#X	64	VDE/UL
	10	30 x 75	33	93	1	B3333*B6106-J0#X	100	VDE/UL
	12	40.5 x 65	43.5	78	2	B3333*B6126-J0#X	49	VDE/UL
	14	45 x 55	48	68	2	B3333*B6146-J0#X	49	VDE/UL
	16	40.5 x 75	43.5	88	2	B3333*B6166-J0#X	49	VDE/UL
	20	40.5 x 85	43.5	98	2	B3333*B6206-J0#X	49	VDE/UL
	25	40.5 x 100	43.5	113	2	B3333*B6256-J0#X	49	VDE/UL
	25	45 x 85	48	98	2	B3333*B6256-J0#X	49	VDE/UL
	30	50 x 85	53	98	2	B3333*B6306-J0#X	36	VDE/UL
	40	50 x 100	53	113	2	B3333*B6406-J0#X	36	VDE/UL
	50	50 x 100	53	113	2	B3333*B6506-J0#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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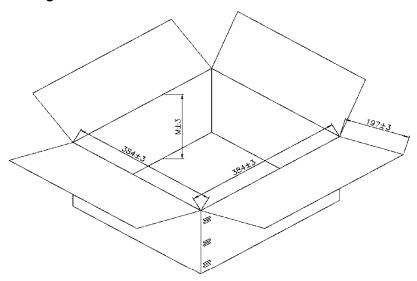


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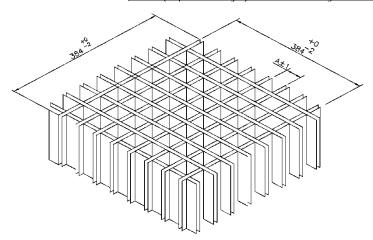
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Packing box



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



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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