



Motor run capacitors

Series/Type: Dual MotorCap - 450 V

Ordering code: B32335
Date: July 2016

Version: 6

© EPCOS AG 2016. Reproduction, publication and dissemination of this publication, enclosures hereto and the information contained therein without EPCOS' prior express consent is prohibited.

EPCOS AG is a TDK Group Company.

Tel: 027-87886630 Fax: 027-87886620 www.maserac.com





B32335

Motor run capacitors

Dual MotorCap - 450 V

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

- Single fast-on 6.3 x 0.8 mm for FAN (F)
- Double fast-on 6.3 x 0.8 mm for HERM (H)
- Quadruple fast-on 6.3 x 0.8 mm for COMMON (C)
- Other terminations on request

Mounting parts (optional)

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

Technical data and specifications			
Reference standards	EN60252-1: 2011/A1: 2013 , 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 : 10000 h (Class B)		
UL 810 file E106388	Approved Component, 10000 AFC protected up to 450 V		
Rated capacitance C _R	10+1uF to 60+10uF		
Tolerance Tx	+/- 5%		
Rated voltage V _{rms}	450 V AC		
Rated frequency f _R	50/60 Hz		
Maximum ratings			
Maximum permissible voltage V _{max}	$1.1 \cdot V_R$ (V_R = Rated voltage)		
Maximum permissible current I _{max}	$1.3 \cdot I_R$ (I_R = Rated current)		

CAP FILM T RD PD AC July 2016





Film Capacitors – AC Capacitors B32335 Motor run capacitors Dual MotorCap - 450 V

Test data			
AC test voltage terminal to terminal V _{TT}	2 • V _R , 2 s (routine test) 2 • 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 ℃	≤ 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 insulator mat	erial		
Ball pressure test to IEC 60309-1 sec. 27.3	At +125 °C		
Plastic can and top disk material	UL 94 V2 minimum		
Option A:			
 UL 94 V2 compatible Glow wire test to IEC 60695-2-10/11 Test temperature +550 °C for I_R ≤ 0.5A Test temperature +850 °C for I_R > 0.5A 	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-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		





Film Capacitors – AC Capacitors	B32335
Motor run capacitors	Dual MotorCap - 450 V

Approvals see table for approved ratings			
UL 810 E106388 c	Approved component 10000 AFC, protected up to 450V		
TÜV 450 V / +85°C : 10000 h (Class B)	Approved, 450 V / +85°C : 10000 h (Class B)		
(€	Compliance to LV directive 2014/35/EU		
Logistics			
Delivery mode	 EU palette as standard Cardboard tape on palette Pack unit, see dimension table 		

Display of ordering codes for EPCOS products

The ordering code for one and the same EPCOS product can be represented differently in data sheets, data books, other publications, on the EPCOS website, or in order-related documents such as shipping notes, order confirmations and product labels. The varying representations of the ordering codes are due to different processes employed and do not affect the specifications of the respective products. Detailed information can be found on the Internet under www.epcos.com/orderingcodes

CAP FILM T RD PD AC July 2016



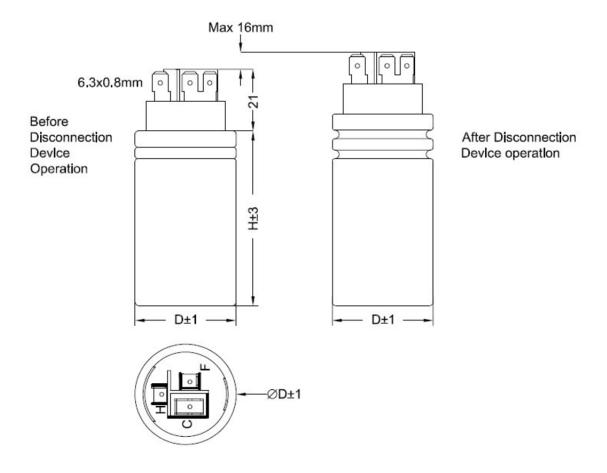


B32335

Motor run capacitors

Dual MotorCap - 450 V

Dimensional drawing







B32335

Motor run capacitors

Dual MotorCap - 450 V

Ordering codes

Rated voltage V _R	Rated capacitance C _R	Dimensions D x H	Ordering code	Packing unit
V AC	μF	mm		
	10+1	40 x 70	B32335I6116J0#0	36
	10+1.5	40 x 70	B32335I6116J5#0	36
	10+2	40 x 70	B32335I6126J0#0	36
	12+1.5	40 x 70	B32335I6136J5#0	36
	12+2	40 x 70	B32335I6146J0#0	36
	12+5	40 x 70	B32335I6176J0#0	36
	13+1.5	40 x 70	B32335I6146J5#0	36
	13+1.8	40 x 70	B32335I6146J8#0	36
	13+2	40 x 70	B32335I6156J0#0	36
	13+5	40 x 70	B32335I6186J0#0	36
	15+1.5	40 x 70	B32335I6166J5#0	36
	15+2	40 x 70	B32335I6176J0#1	36
	15+2.5	40 x 70	B32335I6176J5#0	36
	15+3	40 x 70	B32335I6186J0#1	36
	15+4	40 x 70	B32335I6196J0#0	36
	15+5	40 x 70	B32335I6206J0#0	36
	17+1.8	40 x 80	B32335I6186J8#0	36
450	20+ 1.5	40 x 80	B32335I6216J5#0	36
20+2	20+2	40 x 80	B32335I6226J0#0	36
	20+4	40 x 80	B32335I6246J0#0	36
20+5	20+5	40 x 80	B32335I6256J0#0	36
	25+1.5	40 x 80	B32335I6266J5#0	36
	25+2	40 x 80	B32335I6276J0#0	36
	25+2.5	40 x 80	B32335I6276J5#0	36
	25+3	40 x 80	B32335I6286J0#0	36
25+4 25+5 25+7.5 25+8 25+10 30+1.5	40 x 80	B32335I6296J0#0	36	
	40 x 80	B32335I6306J0#0	36	
	40 x 94	B32335I6326J5#0	36	
	25+8	40 x 94	B32335I6336J0#0	36
	25+10	40 x 94	B32335I6356J0#0	36
	30+1.5	40 x 103	B32335I6316J5#0	36
	30+1.8	40 x 103	B32335I6316J8#0	36
	30+2	40 x 103	B32335I6326J0#1	36
	35+1.5	40 x 103	B32335I6366J5#0	36
	35+2	40 x 103	B32335I6376J0#1	36





B32335

Motor run capacitors

Dual MotorCap - 450 V

Rated voltage V _R	Rated capacitance C _R	Dimensions D x H	Ordering code	Packing unit
V AC	μF	mm		pcs
	35+3	40 x 103	B32335I6386J0#0	36
	35+5	40 x 103	B32335I6406J0#0	36
35+6 35+8 35+10 40+5 45+4 45+5 46+6 45+10 50+4 50+5 50+10 55+5 60+10	35+6	40 x 103	B32335I6416J0#0	36
	35+8	40 x 103	B32335I6436J0#0	36
	35+10	40 x 103	B32335I6456J0#0	36
	40+5	45 x 103	B32335I6456J0#1	36
	45+4	45 x 103	B32335I6496J0#0	25
	45+5	45 x 103	B32335I6506J0#0	25
	46+6	45 x 103	B32335I6526J0#0	25
	45+10	45 x 103	B32335I6556J0#0	25
	50+4	45 x 103	B32335I6546J0#0	25
	50+5	45 x 103	B32335I6556J0#1	25
	50+10	53 x 80	B32335I6606J0#0	25
	53 x 105	B32335I6606J0#1	25	
	60+10	53 x 105	B32335I6706J0#0	25

Composition of ordering code

- #: Construction of can and plastic top
 - Aluminum can, option A: UL94V2 Top disc
 - 6 Aluminum can, option B: UL94V2/V0 Top disc / IEC60335-1

 - Aluminum can, with M 8 bolt, option A: UL 94 V2 top disc Aluminum can, with M 8 bolt, option B: UL 94 V2/V0 top disc / IEC 60335-1



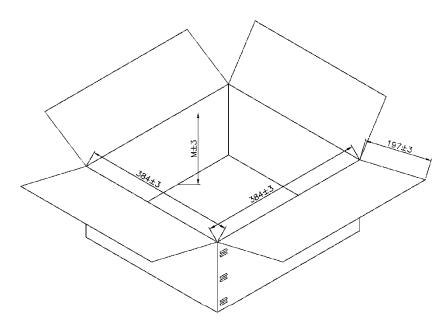


B32335

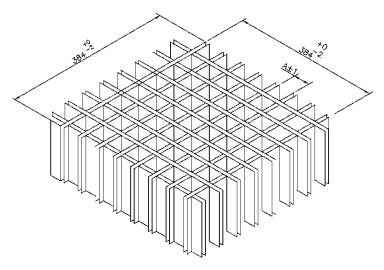
Motor run capacitors

Dual MotorCap - 450 V

Packing box



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



Δ

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.





Important notes

The following applies to all products named in this publication:

- 1. Some parts of this publication contain statements about the suitability of our products for certain areas of application. These statements are based on our knowledge of typical requirements that are often placed on our products in the areas of application concerned. We nevertheless expressly point out that such statements cannot be regarded as binding statements about the suitability of our products for a particular customer application. As a rule, EPCOS is either unfamiliar with individual customer applications or less familiar with them than the customers themselves. For these reasons, it is always ultimately incumbent on the customer to check and decide whether an EPCOS product with the properties described in the product specification is suitable for use in a particular customer application.
- 2. We also point out that in individual cases, a malfunction of electronic components or failure before the end of their usual service life cannot be completely ruled out in the current state of the art, even if they are operated as specified. In customer applications requiring a very high level of operational safety and especially in customer applications in which the malfunction or failure of an electronic component could endanger human life or health (e.g. in accident prevention or life-saving systems), it must therefore be ensured by means of suitable design of the customer application or other action taken by the customer (e.g. installation of protective circuitry or redundancy) that no injury or damage is sustained by third parties in the event of malfunction or failure of an electronic component.
- 3. The warnings, cautions and product-specific notes must be observed.
- 4. In order to satisfy certain technical requirements, some of the products described in this publication may contain substances subject to restrictions in certain jurisdictions (e.g. because they are classed as hazardous). Useful information on this will be found in our Material Data Sheets on the Internet (www.epcos.com/material). Should you have any more detailed questions, please contact our sales offices.
- 5. We constantly strive to improve our products. Consequently, the products described in this publication may change from time to time. The same is true of the corresponding product specifications. Please check therefore to what extent product descriptions and specifications contained in this publication are still applicable before or when you place an order. We also reserve the right to discontinue production and delivery of products. Consequently, we cannot guarantee that all products named in this publication will always be available. The aforementioned does not apply in the case of individual agreements deviating from the foregoing for customer-specific products.
- 6. Unless otherwise agreed in individual contracts, all orders are subject to the current version of the "General Terms of Delivery for Products and Services in the Electrical Industry" published by the German Electrical and Electronics Industry Association (ZVEI).
- 7. The trade names EPCOS, Alu-X, CeraDiode, CeraLink, CeraPad, CeraPlas, CSMP, CSSP, CTVS, DeltaCap, DigiSiMic, DSSP, ExoCore, FilterCap, FormFit, LeaXield, MiniBlue, MiniCell, MKD, MKK, MotorCap, PCC, PhaseCap, PhaseCube, PhaseMod, PhiCap, PQSine, SIFERRIT, SIFI, SIKOREL, SilverCap, SIMDAD, SiMic, SIMID, SineFormer, SIOV, SIP5D, SIP5K, TFAP, ThermoFuse, WindCap are trademarks registered or pending in Europe and in other countries. Further information will be found on the Internet at www.epcos.com/trademarks.

Tel: 027-87886630 Fax: 027-87886620 www.maserac.com