Film Capacitors – AC Capacitors

AC Motor Run Capacitors

Series/Type:	**Plastic box S3 capacitor**
Ordering code:	**B33352B4305J081**
Date:	2017-08-07
Version:	2

EPCOS AG is a TDK Group Company.

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

Preliminary data

Construction

- Dielectric: polypropylene film
- Electrode: segmented metalized film
- Filling material: epoxy resin (blue)

Features

- Self-healing properties
- Low dissipation factor
- High insulation resistance
- S3 safety class acc. IEC 60252-1

Typical applications

- For general sine wave applications and motor run applications

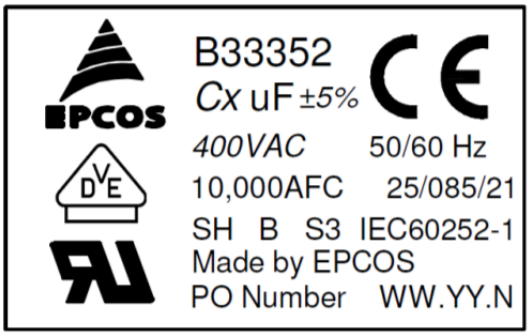
Terminals

- 1+1, Fast-on terminal, # 187 style (4.75 x 0.5)

Technical data and specifications		
Reference standards	IEC 60252-1, (ed-2) am 1/ EN 60252, UL 810	
Safety class to IEC 60252-1, (ed-2) am 1	S3	
Life expectancy to IEC 60252-1, (ed-2) am 1	10000 h (Class B)	
Rated capacitance C_R	3 µF	
Tolerance	+5%	
Rated voltage V_R	400 VAC	
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)

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

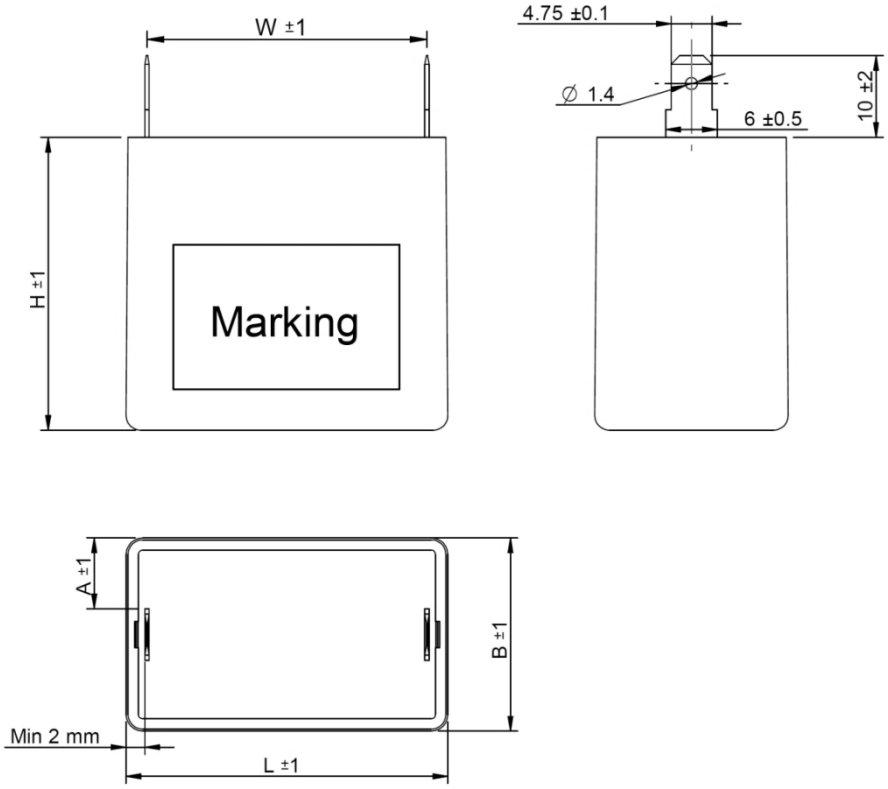
Preliminary data

Test data	
AC test voltage terminal to terminal V_{TT}	2.0 V_R, 2 s
Insulation resistance R_{ins} or time constant τ at +20 °C, rel. Humidity ≤ 65% (minimum as-delivered values)	10000 s
Dissipation factor tan δ at +20 °C	≤ 1.0 • 10^{-3} (120 Hz)
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 resin material	
Ball pressure test to IEC 60309-1 sec. 27.3	20 N at +125 °C
Flammability acc. UL 94 VO	compatible
Resistance to head and fire as per IEC 60335-1 • Glow wire test to IEC60695-2-1 and -2-2/1 • Test temperature 750 °C for IR>0.5A or material < 3mm distance to terminal	
Compatibility to RoHS	
Compliance to directive 2002/95/EC	RoHS compatible
Approvals	
VDE – 400 V/85 °C: 10000 h (class B)-files 40046351	Approved
CE	Compliance to LV directive 2014/35/EU
C UL US UL 810 files E238746	Protected up to 10000 AFC
Marking	
	

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

Preliminary data

Dimensional drawing



Ordering code

V_R V AC	C_R µF	Dimensions mm				Packing units Qty	Ordering code
		B	H	L	A		
400	3	18	30	37	6	130	B33352B4305J081

Other ratings on request

⚠ 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.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. You are kindly requested to approve our product specifications or request our approval for your specification before ordering

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

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, CeraCharge, CeraDiode, CeraLink, CeraPad, CeraPlas, CSMP, CTVS, DeltaCap, DigiSiMic, ExoCore, FilterCap, FormFit, LeaXield, MiniBlue, MiniCell, MKD, MKK, MotorCap, PCC, PhaseCap, PhaseCube, PhaseMod, PhiCap, PowerHap, PQSine, PQvar, SIFERRIT, SIFI, SIKOREL, SilverCap, SIMDAD, SiMic, SIMID, SineFormer, SIOV, 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