

# CBB60 S0 Plastic Can with Insulated Wire Terminals

**DATA SHEET** 

Series C100

# **Applications:** Reference Standards:

AC motor run capacitor and for general sine wave applications IEC 60252-1- 2013-Ed.2 / IEC 60335-1 / GB /T 3667-1 / UL 810



#### Construction

Dielectric Polypropylene Film
Electrode ZnAl Metallized Film (self-healing properties)
Can Plastic UL 94 V0

Top Resin top or Plastic top UL 94 V0
Filling Material Epoxy resin UL 94 V0

Filling Material Epoxy resin UL 94 VO
Terminals Insulated copper wire
Safety Class South Protect

Safety Class
SO Class – Not protected – As per IEC 60252-1
RoHS
Compatible with directive 2011/65/EU

#### **Electrical technical specification**

•	Capacitance	$C_R$	3.0 42.0μF
•	Tolerance	%	± 5 (other tolerance upon request)
•	Rated Voltage	$V_R(Vac)$	250VAC and 450VAC
•	Frequency	Hz	50/60
•	Maximum voltage	Vac (max)	1.1 V <sub>R</sub>
•	Maximum current	Imax (A)	$1.3.I_R$ ( $I_R$ = rated current)
•	Max. rate of voltage rise	dv/dt <sub>(max</sub> )	10 V/μs
•	Dissipation Factor	Tan δ	≤ 1.0 x 10 <sup>-3</sup> at 100Hz
•	Insulation Resistance R <sub>ins</sub> or constant τ	τ (s)	≥4000s ( $R_{ins.} = \tau/C$ ) at 20°C / $RH \le 65\%$

#### Thermal characteristics

•	Lowest operating temperature	Θ min.	-40°C
•	Maximum operating temperature	Ө тах.	+70°C
•	Climatic category as per IEC 60068-1		40/70/21
•	Damp heat test		21 days

#### **Routine test parameters**

•	Test voltage between terminals	UTT(Vac)	2.0 V <sub>R</sub> , 2s
•	Test voltage between terminals and case	UTC (Vac)	2000Vac, 2s

Life Expectation as per IEC 60252-1 Class C (3,000h)

#### **Approval and Certification**

CQC / TUV / VDE / UL (Construction only)

We reserve the right to make technical changes without prior notice to improve reliability, function or design or otherwise. The Data Sheet has only typical specifications. Please, approve the specifications before ordering and use our products.

Ph.: +86 574 28836048 - FAX: +86 574 88345777 E-mail: <u>bicai@bicai.com.cn</u> www.bicai.com.cn

Series C100

## **Capacitor ordering codes and dimensions:**

Ordering code (1)	Capacitance	Rated Voltage	Dimensions	Certification
	(μF)	(Vac)	ФD x H (mm)	
C100-A451305-J0NNN	3		30×35	CQC / TUV / VDE / UL
C100-A451405-J0NNN	4		25×45	CQC / TUV / VDE / UL
C100-A451405-J5NNN	4.5		30×41	CQC / TUV / VDE / UL
C100-A451505-J0NNN	5		30×45	CQC / TUV / VDE / UL
C100-A451605-J0NNN	6		30×45	CQC / TUV / VDE / UL
C100-A451705-J0NNN	7		36×48	CQC / TUV / VDE / UL
C100-A451805-J0NNN	8		30×45	CQC / TUV / VDE / UL
C100-A451905-J0NNN	9	450	34×45	CQC / TUV / VDE / UL
C100-A451106-J0NNN	10		34×45	CQC / TUV / VDE / UL
C100-A451126-J0NNN	12		34×50	CQC / TUV / VDE / UL
C100-A451146-J0NNN	14		34×60	CQC / TUV / VDE / UL
C100-A451166-J0NNN	16		34×60	CQC / TUV / VDE / UL
C100-A451186-J0NNN	18		40×60	CQC / TUV / VDE / UL
C100-A451206-J0NNN	20		40×60	CQC / TUV / VDE / UL
C100-B451206-J0NNN	20		39×69	CQC / TUV / VDE / UL
C100-A451226-J0NNN	22		40×60	CQC / TUV / VDE / UL
C100-A451256-J0NNN	25		45×80	CQC / TUV / VDE / UL
C100-A451286-J0NNN	28		45×80	CQC / TUV / UL
C100-A451306-J0NNN	30		45×80	CQC / TUV / UL
C100-A451356-J0NNN	35		45×80	CQC / TUV / UL
C100-A251426-J0NNN	42	250	45 x 80	UL

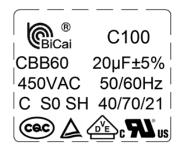
E-mail: bicai@bicai.com.cn www.bicai.com.cn



**CBB60 S0 Plastic Can with Insulated Wire Terminals** 

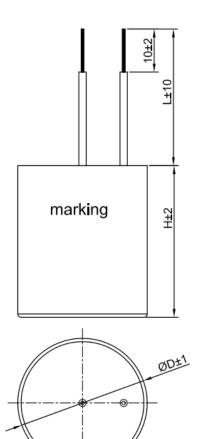
Series C100

## **Capacitor Marking**



C100	Capacitor series	<b>∞</b> <u>&amp;</u> <u></u> <u> </u>	Approvals /Certification
20μF	Capacitance value	С	Class as per IEC 60252-1
± 5%	Capacitance	S0	Safety Class as per IEC
	tolerance		60252-1
SH	Self-healing	CBB60	Construction type
450Vac	Rated Voltage		
50/60Hz	Frequency		
40/70/21	Climatic category		

## **Capacitor dimensions:**



Ph.: +86 574 28836048 - FAX: +86 574 88345777 E-mail: bicai@bicai.com.cn www.bicai.com.cn

#### Series C100

# Capacitor Insulated Wire Length (L) (1)

Wire Length (L)	CODE (1)
110mm	-J0 <b>1</b> NN
150mm	-J0 <b>2</b> NN
180mm	-J0 <b>3</b> NN
200mm	-J0 <b>4</b> NN
450mm	-J0 <b>5</b> NN

## **Capacitor constructions**

CODE: JON10	Code: J0N20	Code: J0N30
3 C S S S S S S S S S S S S S S S S S S	Control of the state of the sta	
Epoxy top	Plastic top 2 holes	Plastic top 1 hole

Ph.: +86 574 28836048 - FAX: +86 574 88345777 E-mail: <u>bicai@bicai.com.cn</u> www.bicai.com.cn



#### **CBB60 S0 Plastic Can with Insulated Wire Terminals**

**DATA SHEET** 

Series C100

#### **Environments of application:**

Capacitors may not be stored or operated in corrosive atmospheres, particularly not when chlorides, sulfides, acids, alkalis, salts, organic solvents or similar substances are present. In dust and dirt-prone environments, regular checks and maintenance (particularly of the terminals and insulators) are absolutely necessary to prevent creation of creepage distances between live parts and /or to the protective conductor / ground.

The storage of capacitor for long period may cause oxidation of terminals, resulting in an increase in the contact resistance in the connection area. Unless otherwise agree, the maximum storage period shall not exceed 1 year.

All materials used in this product comply RoHS directive 2011/65/EU and (EU)2015/863. However, in certain jurisdictions may classify some substances as hazardous. Therefore, we recommend to check our Material Data Sheet on the Internet (<a href="www.bicai.com.cn">www.bicai.com.cn</a>) or contact our Sales-offices <a href="mailto:bicai@bicai.com.cn">bicai@bicai.com.cn</a>.

#### End of use and disposal

The materials used in Metallized Polypropylene Film AC Motor Run Capacitors from Bicai do not exceed the limits of chemical substances specified in national waste disposal regulations and it can be treated as industrial waste. In any case it is advisable to consult a local regulation in force.

### Legal Disclaimer Notice <a>A</a>

Bicai disclaim any and all liability for any errors, inaccuracies or incompleteness contained in this Data Sheet. All information given herein is believed to be accurate and reliable, but it is presented without guarantee, warranty, or responsibility of any kind, expressed or implied.

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 place 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, BICAI is either unfamiliar with individual customer applications or less familiar with them than the customer themselves. For these reasons, it is always ultimately incumbent on the customer to check and decide whether an BICAI product with the properties described the product specification is suitable for use in a particular customer application.

Bicai makes no warranty, representation or guarantee regarding the suitability of the products for any particular purpose or the continuing production of any product. To the maximum extent permitted by applicable law, Bicai disclaims (1) any and all liability arising out of the application or use of any product, (2) any and all liability, including without limitation special, consequential or incidental damages, and (3) any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.

Ph.: +86 574 28836048 - FAX: +86 574 88345777 E-mail: <u>bicai@bicai.com.cn</u> www.bicai.com.cn