



Motor Run Capacitor

Series/Type: B32320_22_24
Ordering code: B32320_22_24 Series

Date: December 2011
Version: 2

Power Capacitors
Motor Run Capacitors
Construction:

- Dielectric: polypropylene film
- Plastic case
- Polyurethane resin

Features

- Self-healing properties
- Low dissipation factor
- High insulation resistance

Typical applications

For general sine wave applications,
mainly as motor run capacitor



illustrative picture

Terminals

- Single / Double faston 6,3 x 0,8 mm

Technical data and Specifications

Reference standards	IEC 60252-1
Safety class according IEC 60252-1 2001-02	P0 (Unprotected)
Life expectancy according IEC 60252 2001	10.000 Hrs.(class B)
Rated capacitance C_N	According to table
Tolerance	$\pm 5\%$
Rated voltage U_N	According to table
Rated frequency f_N	50...60Hz




Maximum ratings

Maximum permissible voltage U_{max}	$1,1 \times V_R$	(V_R = Rated Voltage)
Maximum permissible current I_{max}	$1,3 \times I_R$	(I_R = Rated Current)

Test data

AC test voltage terminal to terminal U_{TT}	$2 \times V_R$, 2s
Insulation voltage terminals to case	2000 VAC, 2s
Insulation resistance R_H or time constant τ at 20 °C	$3000 \text{ s } V_R$
Relative Humidity	$\leq 65 \text{ }^\circ\text{C}$ (minimum value)

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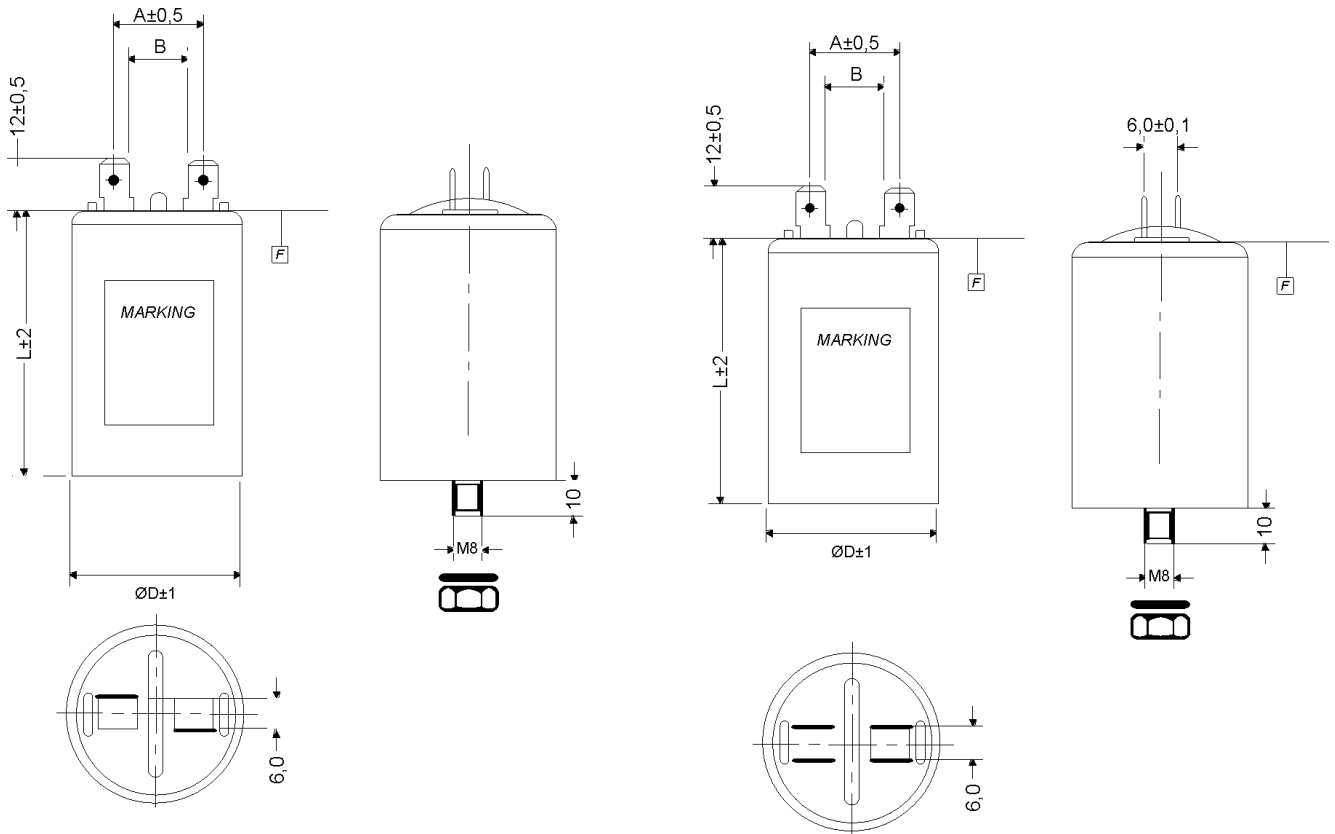
Dissipation factor $\tan\delta$ at 20 °C	$\leq 1,0 \times 10^{-3}$ (120 Hz)
Maximum rate of voltage rise dv/dt_{\max}	10 V/ μ s
Climatic data	
Climatic category	25/085/21 (according to IEC 60068-1)
Lower category T_{\min}	-25 °C
Upper category T_{\max}	+85 °C
Damp heat test t_{test}	21 days
Compatibility to RoHs	
Compliance to directive 2002/95/EC	
Approval - VDE	
250/400 V/85 °C 10,000 h (class B) 1,5 μ F...50 μ F	Approved (For 250Vac – VDE approval please refer to 400Vac case size)
450/480 V/85 °C 3,000 h (class C) 3 μ F... 35 μ F	Approved 
Approval - IRAM	
250/400 V/85 °C 10,000 h (class B) 1 μ F...60 μ F	Approved (For 250Vac – VDE approval please refer to 400Vac case size)
450 V/85 °C 10,000 h (class B) 1 μ F... 60 μ F	Approved 
Date of manufacture	
Printed on the body of the capacitor:	mm.yy.G – mm: month of manufacture yy: year of manufacture G: plant Gravataí Brazil mm.dd.hh – mm: minute of manufacture dd: day of manufacture hh: hour of manufacture

Note :

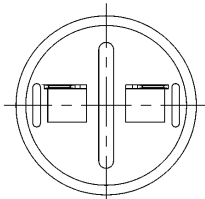
- 1) It should be noted that presence of harmonics produces over voltage & over current on capacitors. Resonance may cause serious damage to installation if a significant level of total harmonic distortion level exists for voltage or current. In such cases, series reactors must be considered.
- 2) Operating temperature class: In accordance with the reference standards, these temperatures are those measured on the surface on the capacitor

Dimensional drawings

All dimension in mm.



B32324-.. (fast-on same side)



. **A** = mín.16,15 mm. For **D** = 25mm, **A** = mín.12,65 mm.

. **B** = mín. 9,5 mm. For **D** = 25mm, **B** = mín. 6,0 mm.

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Ordering codes and packing units

U_n Vac	C_n μ F	Max. dimensions $D \times l$ (mm) B32320	Max. Dimensions $D \times l$ (mm) B32322	Ordering code	Packing unit (pcs.)
250	4	25 x 58	30 x 62	B323##-C1405-+0\$0	112
	5	25 x 58	30 x 62	B323##-C1505-+0\$0	112
	6	25 x 58	30 x 62	B323##-C1605-+0\$0	112
	7	25 x 58	30 x 62	B323##-C1705-+0\$0	112
	8	25 x 58	30 x 62	B323##-C1805-+0\$0	112
	9	30 x 62	30 x 62	B323##-C1905-+0\$0	112
	10	30 x 62	30 x 62	B323##-C1103-+0\$0	112
	12	30 x 62	30 x 62	B323##-C1126-+0\$0	112
	15	30 x 62	30 x 62	B323##-C1156-+0\$0	112
	18	35 x 62	35 x 62	B323##-C1206-+0\$0	84
	20	35 x 62	35 x 62	B323##-C1206-+0\$0	84
	25	35 x 73	35 x 73	B323##-C1256-+0\$0	84
	30	35 x 72	35 x 73	B323##-C1306-+0\$0	84
	35	40 x 72	40 x 72	B323##-C1356-+0\$0	60
	40	40 x 72	40 x 72	B323##-C1406-+0\$0	60
	45	40 x 72	40 x 72	B323##-C1456-+0\$0	60
	50	40 x 72	40 x 72	B323##-C1506-+0\$0	60
	55	40 x 98	40 x 98	B323##-C1556-+0\$0	60
	60	40 x 98	40 x 98	B323##-C1606-+0\$0	60

For 250V-VDE and IRAM approval please refer to 400V case size.

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U_n Vac	C_n μ F	Max. dimensions $D \times l$ (mm) B32320	Max. Dimensions $D \times l$ (mm) B32322	Ordering code	Packing unit (pcs.)
380/400	2	25 x 58	30 x 62	B323##-B4205-+0\$0	112
	3	25 x 58	30 x 62	B323##-B4305-+0\$0	112
	4	25 x 58	30 x 62	B323##-B4405-+0\$0	112
	5	30 x 62	30 x 62	B323##-B4505-+0\$0	112
	6	30 x 62	30 x 62	B323##-B4605-+0\$0	112
	7	35 x 62	35 x 62	B323##-B4705-+0\$0	84
	8	35 x 62	35 x 62	B323##-B4805-+0\$0	84
	10	35 x 62	35 x 62	B323##-B4106-+0\$0	84
	12	35 x 71	35 x 71	B323##-B4126-+0\$0	84
	15	40 x 73	40 x 73	B323##-B4156-+0\$0	60
	20	40 x 71	40 x 71	B323##-B4206-+0\$0	60
	25	45 x 71	45 x 71	B323##-A4256-+0\$0	45
	30	45 x 71	45 x 71	B323##-A4306-+0\$0	45
	35	45 x 95	45 x 95	B323##-A4356-+0\$0	45
	40	45 x 95	45 x 95	B323##-A4406-+0\$0	45
	45	50 x 95	50 x 95	B323##-A4456-+0\$0	32
	50	50 x 95	50 x 95	B323##-A4506-+0\$0	32

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U_n Vac	C_n μF	Max. dimensions $D \times l$ (mm) B32320	Max. Dimensions $D \times l$ (mm) B32322	Ordering code	Packing unit (pcs.)
440/450	3	30 x 62	30 x 62	B323##-B6305-+0\$0	112
	6	35 x 62	35 x 62	B323##-B6605-+0\$0	84
	8	35 x 73	35 x 73	B323##-B6805-+0\$0	84
	10	40 x 73	40 x 73	B323##-B6106-+0\$0	60
	12	40 x 73	40 x 73	B323##-B6126-+0\$0	60
	15	45 x 73	45 x 73	B323##-A6156-+0\$0	45
	20	45 x 73	45 x 73	B323##-A6206-+0\$0	45
	25	45 x 95	45 x 95	B323##-A6256-+0\$0	45
	30	45 x 95	45 x 95	B323##-A6306-+0\$0	45
	35	50 x 95	50 x 95	B323##-A6356-+0\$0	32
	40	45 x 120	45 x 120	B323##-A6406-+0\$0	45
	45	50 x 120	50 x 120	B323##-A6456-+0\$0	32

Notes for Ordering Code:
1) Replace the symbol '#' for the construction

- 0 – single terminal
- 2 – double terminal
- 4 – double terminal

2) Replace the symbol '+' for the tolerance on capacitance.

- J - $\pm 5\%$
- K - $\pm 10\%$

3) \$ Replace for construction

- 1 – Plastic case
- 3 – Plastic case with stud

Please read information about AC Motor Run Capacitors and cautions as well as Applications, warning installation and maintenance instructions (Application warning installation and Maintenance Instructions for AC Motor Run Capacitors, available in the Internet) to ensure optimum performance and 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.

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