

# Motor run capacitors

400 V; class B; 85 °C / 450 V; class C; 85 °C

Series/Type: B32335 - Dual MotorCap™

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#### Motor run capacitors

B32335 - Dual MotorCap™

#### Construction

- Dielectric: polypropylene film
- Aluminum can
- Soft polyurethane resin

#### **Features**

- Self-healing properties
- Low dissipation factor
- Overpressure disconnection device
- Highest safety level P2 to IEC 60252-1 2001-02
- High insulation resistance
- **c N** UL file E 106388



■ For general sine wave applications, mainly as motor run capacitor, air conditioner



#### **Terminals**

■ Double fast-on terminals: 6.3 × 0.8 mm and quadruple fast-on terminals: 6.3 × 0.8 mm

#### **Mounting parts (optional)**

■ Threaded stud at bottom of can (M8, max. torque = 5 Nm)

Technical data and specifications				
Reference standards	IEC 60252-1 2001-02, EN 60252 2001, UL 810			
Safety class to IEC 60252-1 2001-02	P2			
Life expectancy to IEC 60252 2001	400 V: 10000 h (class B) 450 V: 3000 h (class C)			
UL 810 file E 106388 for Nashik and Gravatai plant	Approved component 10000 AFC protected			
Rated capacitance C <sub>R</sub>	15+2 50+8			
Tolerance	±5%			
Rated voltage V <sub>R</sub>	400 V AC, 450 V AC			
Rated frequency f <sub>R</sub>	50 / 60 Hz			



## **Motor run capacitors**

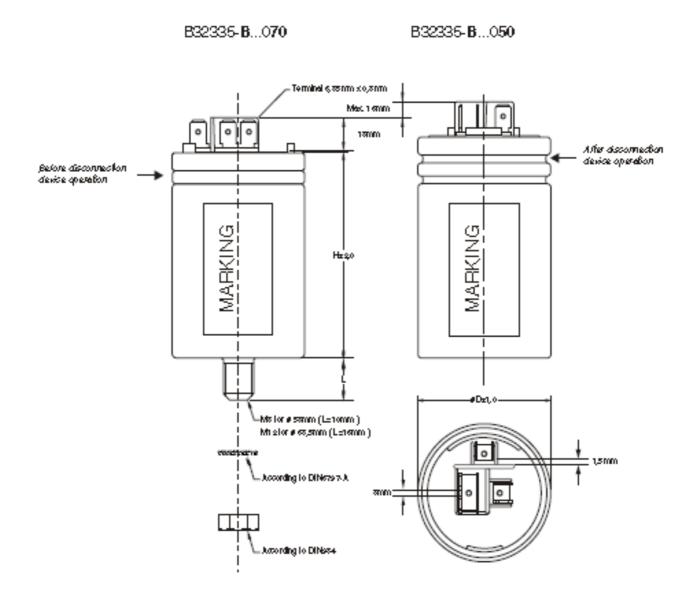
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Maximum ratings			
Maximum permissible voltage V <sub>max</sub>	1.1 · V <sub>R</sub> (V <sub>R</sub> = Rated voltage)		
Maximum permissible current I <sub>max</sub>	1.3 · I <sub>R</sub> (I <sub>R</sub> = Rated current)		
Test data			
AC test voltage terminal to terminal V <sub>TT</sub>	2 · V <sub>R</sub> , 60 s (type test) 2 · V <sub>R</sub> , 2 s (routine test)		
Insulation voltage terminals to case	2000 V AC, 60 s (type test) 2000 V AC, 2 s (routine test)		
Insulation resistance $R_{\text{ins}}$ or time constant $\tau$ at 20 °C, rel. humidity $\leq$ 65% (minimum as-delivered values)	3000 s		
Dissipation factor tan $\delta$ at 20 °C	≤ 1.0 · 10 <sup>-3</sup> (120 Hz)		
Maximum rate of voltage rise dV/dt <sub>max</sub>	10 V/μs		
Climatic data			
Climatic category	25/085/21 to IEC 60068-1		
Lower category T <sub>min</sub>	−25 °C		
Upper category T <sub>max</sub>	+85 °C		
Damp heat test t <sub>test</sub>	21 days		
Mechanical and thermal properties of terminal top dis	sk material		
Ball pressure test to IEC 60309-1 sec. 27.3	20 N at 125 °C		
Top disk material			
■ UL 94 V2 compatible			
■ Glow wire test to IEC 60695-2-11	Self-extinguishing within 30 seconds of		
Test temp 550 °C for $I_R \le 0.5$ A Test temp 850 °C for $I_R > 0.5$ A	withdrawing glow wire		
Tracking test to IEC 60112 solution A	> 250 V		
Compatibility to RoHS			
Compliance to directive 2002/95/EC	RoHS		

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### **Dimensional drawings**





## **Motor run capacitors**

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## Ordering codes and packing units

$V_R$	$C_{R}$	Max. dimensions d × I	Ordering code	Packing units
V AC	μF	mm		pcs.
400 / 450	15+2	53 × 70	B32335B4020J0*0	on request
	15+2.5	53 × 70	B32335B4076J0*0	on request
	15+3	53 × 70	B32335B4021J0*0	on request
	15+4	53 × 70	B32335B4022J0*0	on request
	15+5	53 × 70	B32335B4023J0*0	on request
	17.5+2.5	53 × 70	B32335B4077J0*0	on request
	17.5+4	53 × 70	B32335B4024J0*0	on request
	17.5+5	53 × 70	B32335B4025J0*0	on request
	20+2	53 × 70	B32335B4027J0*0	on request
	20+2.5	53 × 70	B32335B4057J0*0	on request
	20+3	53 × 70	B32335B4028J0*0	on request
	20+4	53 × 70	B32335B4050J0*0	on request
	20+5	53 × 70	B32335B4029J0*0	on request
	22+5	53 × 80	B32335B4030J0*0	on request
	25+2	63.5 × 70	B32335B4031J0*0	on request
	25+3	53 × 80	B32335B4032J0*0	on request
	25+4	53 × 80	B32335B4033J0*0	on request
	25+5	53 × 80	B32335B4034J0*0	on request
	25+7.5	53 × 80	B32335B4019J0*0	on request
	25+8	53 × 80	B32335B4051J0*0	on request
	25+9.5	53 × 80	B32335B4053J0*0	on request
	25+10	53 × 80	B32335B4056J0*0	on request
	25+15	53 × 105	B32335B4098J0*0	on request
	30+2	53 × 80	B32335B4035J0*0	on request
	30+3	53 × 80	B32335B4073J0*0	on request
	30+4	53 × 80	B32335B4036J0*0	on request
	30+5	53 × 80	B32335B4037J0*0	on request
	30+7.5	53 × 80	B32335B4066J0*0	on request
	30+10	53 × 105	B32335B4038J0*0	on request



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V <sub>R</sub>	C <sub>R</sub>	Max. dimensions d x l	Ordering code	Packing units
V AC	μF	mm		pcs.
400 / 450	30+12	53 × 105	B32335B4072J0*0	on request
	30+15	53 × 105	B32335B4067J0*0	on request
	35+2	63.5 × 70	B32335B4081J0*0	on request
	35+3	53 × 80	B32335B4059J0*0	on request
	35+5	53 × 105	B32335B4040J0*0	on request
	35+6	53 × 105	B32335B4085J0*0	on request
	35+8	53 × 105	B32335B4058J0*0	on request
	35+9.5	53 × 105	B32335B4052J0*0	on request
	35+10	53 × 105	B32335B4041J0*0	on request
	35+12	53 × 105	B32335B4079J0*0	on request
	35+15	53 × 105	B32335B4074J0*0	on request
	40+4	53 × 105	B32335B4090J0*0	on request
	40+5	53 × 105	B32335B4042J0*0	on request
	40+7.5	53 × 105	B32335B4086J0*0	on request
	40+8	53 × 105	B32335B4047J0*0	on request
	40+10	53 × 105	B32335B4043J0*0	on request
	40+12	53 × 105	B32335B4075J0*0	on request
	40+15	53 × 105	B32335B4078J0*0	on request
	45+4	53 × 105	B32335B4106J0*0	on request
	45+5	53 × 105	B32335B4044J0*0	on request
	45+8	53 × 105	B32335B4071J0*0	on request
	45+10	53 × 105	B32335B4045J0*0	on request
	50+4	63.5 × 80	B32335B4046J0*0	on request
	50+5	53 × 105	B32335B4048J0*0	on request
	50+8	53 × 105	B32335B4049J0*0	on request

#### Composition of ordering code:

- \*: Construction of can and plastic top
  - 5 Aluminum can, UL 94 V2 top
  - 7 Aluminum can with M8 / M12 bolt:
    M8 fixing threaded bolt for diameter = 53 mm, M12 bolt for diameter = 63.5 mm

A 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 <a href="www.epcos.com/ac\_capacitors">www.epcos.com/ac\_capacitors</a>, 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.



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