Film capacitors – AC capacitors

Motor run capacitors

250 V; class B; 85 °C

Series/Type: **B32335 – Dual MotorCap™**

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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 UL file E 106388

Typical applications

- 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

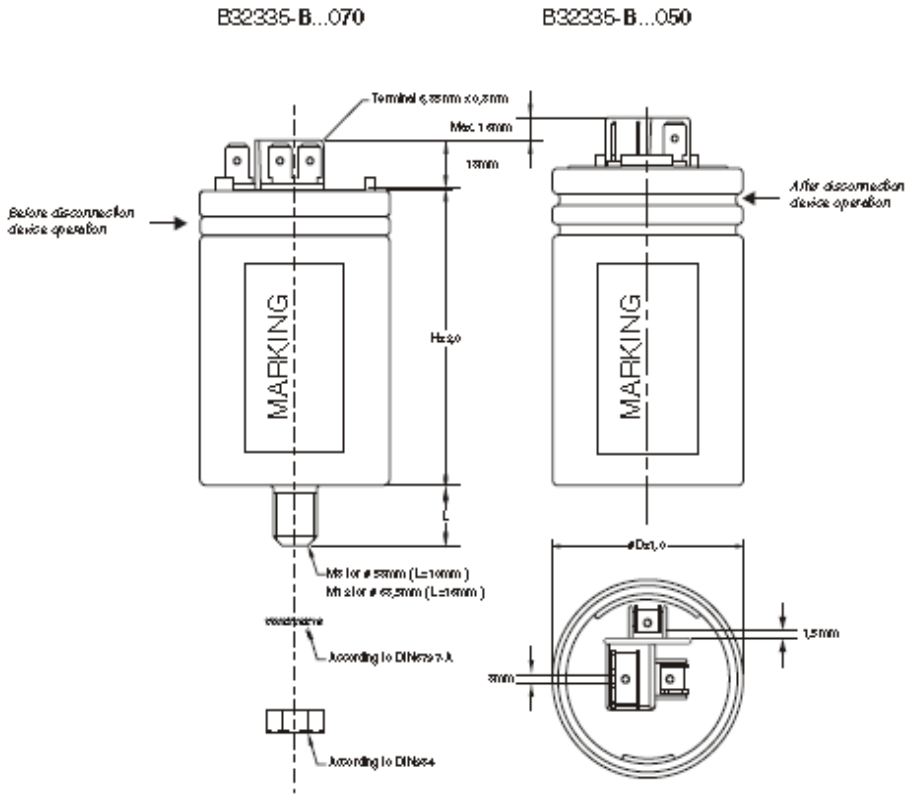
Mounting parts (optional)

- 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	250 V: 10000 h (class B)
UL 810 file E 106388 for Nashik and Gravatai plant	Approved component 10000 AFC protected
Rated capacitance C_R	15+2 ... 30+8 µF
Tolerance	±5%
Rated voltage V_R	250 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)
Test data	
AC test voltage terminal to terminal V_{TT}	$2 \cdot V_R$, 60 s (type test) $2 \cdot V_R$, 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_{ins} or time constant τ at 20 °C, rel. humidity ≤ 65% (minimum as-delivered values)	3000 s
Dissipation factor tan δ at 20 °C	$\leq 1.0 \cdot 10^{-3}$ (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 terminal top disk 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 Test temp 550 °C for $I_R \leq 0.5$ A Test temp 850 °C for $I_R > 0.5$ A	Self-extinguishing within 30 seconds of withdrawing glow wire
Tracking Test to IEC 60112 solution A	> 250 V
Compatibility to RoHS	
Compliance to directive 2002/95/EC	RoHS compatible

Dimensional drawings



Ordering codes and packing units

V_R V AC	C_R µF	Max. dimensions d × l mm	Ordering code	Packing units pcs.
250	15+2	53 × 70	B32335B1020J0*0	32
	15+2.5	53 × 70	B32335B1076J0*0	32
	15+3	53 × 70	B32335B1021J0*0	32
	15+4	53 × 70	B32335B1022J0*0	32
	15+5	53 × 70	B32335B1023J0*0	32
	17.5+2.5	53 × 70	B32335B1077J0*0	32
	17.5+4	53 × 70	B32335B1024J0*0	32
	17.5+5	53 × 70	B32335B1025J0*0	32
	20+2	53 × 70	B32335B1027J0*0	32
	20+2.5	53 × 70	B32335B1057J0*0	32
	20+3	53 × 70	B32335B1028J0*0	32
	20+4	53 × 70	B32335B1050J0*0	32
	20+5	53 × 70	B32335B1029J0*0	32
	22+5	53 × 82	B32335B1030J0*0	32
	25+2	63.5 × 70	B32335B1031J0*0	32
	25+2.5	53 × 82	B32335B1054J0*0	32
	25+3	53 × 82	B32335B1032J0*0	32
	25+4	53 × 82	B32335B1033J0*0	32
	25+5	53 × 82	B32335B1034J0*0	32
	25+7.5	53 × 82	B32335B1019J0*0	28
	25+8	53 × 82	B32335B1051J0*0	32
	25+9.5	53 × 82	B32335B1053J0*0	32
	25+10	53 × 82	B32335B1056J0*0	32
	25+15	53 × 107	B32335B1098J0*0	28
	30+2	53 × 82	B32335B1035J0*0	30
	30+3	53 × 82	B32335B1073J0*0	30
	30+4	53 × 82	B32335B1036J0*0	30
	30+5	53 × 82	B32335B1037J0*0	30
	30+7.5	53 × 82	B32335B1066J0*0	30
	30+10	53 × 107	B32335B1038J0*0	30

V_R V AC	C_R µF	Max. dimensions d × l mm	Ordering code	Packing units pcs.
250	30+12	53 × 107	B32335B1072J0*0	30
	30+15	53 × 107	B32335B1067J0*0	30
	35+2	63.5 × 70	B32335B1081J0*0	28
	35+3	53 × 82	B32335B1059J0*0	30
	35+5	53 × 107	B32335B1040J0*0	30
	35+6	53 × 107	B32335B1085J0*0	30
	35+8	53 × 107	B32335B1058J0*0	30
	35+9.5	53 × 107	B32335B1052J0*0	30
	35+10	53 × 107	B32335B1041J0*0	30
	35+12	53 × 107	B32335B1079J0*0	30
	35+15	53 × 107	B32335B1074J0*0	30
	40+4	53 × 107	B32335B1090J0*0	30
	40+5	53 × 107	B32335B1042J0*0	30
	40+7.5	53 × 107	B32335B1086J0*0	30
	40+8	53 × 107	B32335B1047J0*0	30
	40+10	53 × 107	B32335B1043J0*0	30
	40+12	53 × 107	B32335B1075J0*0	30
	40+15	53 × 107	B32335B1078J0*0	30
	45+4	53 × 107	B32335B1106J0*0	30
	45+5	53 × 107	B32335B1044J0*0	30
	45+8	53 × 107	B32335B1071J0*0	30
	45+10	53 × 107	B32335B1045J0*0	30
	50+4	63.5 × 82	B32335B1046J0*0	28
	50+5	53 × 107	B32335B1048J0*0	30
	50+8	53 × 107	B32335B1049J0*0	30

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 fixing threaded bolt for diameter ≤ 63.5 mm

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