

Motor run capacitors

Series/Type: B32335 − Dual MotorCapTM, 450 V

Ordering code: B32335

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Version: 4

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Motor run capacitors

B32335 - Dual MotorCap™, 450 V

Construction

- Metallized polypropylene film
- Aluminum can with plastic top
- Soft polyurethane resin

Applications

 For general sine wave applications, mainly as motor run capacitor for air condition application

Features

- Self-healing properties
- Low dissipation factor
- Highest safety level P2 to IEC 60252-1 2001-02
- Overpressure disconnection device
- High insulation resistance
- EN 60335 compliance on request

Terminals

- Single fast on 6.3 x 0.8 mm for FAN (F)
- Double fast on 6.3 x 0.8 mm for HERM (H)
- Quadruple fast on 6.3 x 0.8 Common (C)
- Other terminations on request

Mounting parts

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

Technical data and specifications			
Reference standards	IEC 60252-1 2001-02		
	EN 60252 2001		
	UL 810		
Life expectance to IEC 60252 2001	450 V: 10,000 h (class B)		
Safety class according to IEC 60252-1 2001-02	P2		
UL 810 file E 106388	Approved Component 10000 AFC protected up to 450 V		
Rated capacitance C _R	10+1 to 60+10μF		
Tolerance	±5%		
Permitted capacitance ΔC/C	≤3 %		
Rated voltage V _R	450 V AC		
Rated frequency f _R	50 / 60 Hz		





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Maximum ratings				
Maximum perm	nissible voltage V _{max}	1.1 · V _R	(V _R = Rated voltage)	
Maximum perm	nissible current I _{max}	1.3 · I _R	(I _R = Rated current)	
Test data				
AC test voltage terminal to terminal V _{TT}		2 · V _R , 2 s (routine test)		
AC test voltage terminals to can V_{TC}		2 · V _R , 60 s (type test)		
		2 kV AC, 2	s (routine test)	
		2 kV AC, 60 s (type test)		
Insulation resistance R_{ins} or time constant τ at 20 °C, Rel. humidity max. value 85%, annual means \leq 65%		3,000 s		
Dissipation fact	or 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 catego	ry	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 an	d thermal properties			
Ball pressure to	est to IEC 60309-1 sec. 27.3	At 125 °C		
Plastic can and top disk material		UL 94 V2 minimum		
Option A:				
■ UL 94 \	V2 compatible			
Test te	vire test to IEC 60695-2-1/1 mperature 550 °C for $I_R \le 0.5$ A mperature 850 °C for $I_R > 0.5$ A	Self extinguish within 30 seconds of withdrawing the glow		
Option B:				
■ UL 94 \	V2/V0 compatible			
	rire test to IEC 60335-1 / IEC 60695-2-1/1 mperature 550 °C / 750 °C	Self-extings withdrawing	uish within 2 seconds of g glow wire	
■ Part is	compatible to EN 60335-1			
Tracking test to IEC 60112 solution A		>250 V		
Compatibility t	to RoHS			
Compliance to directive 2002/95/EC		Ro	HS atible	



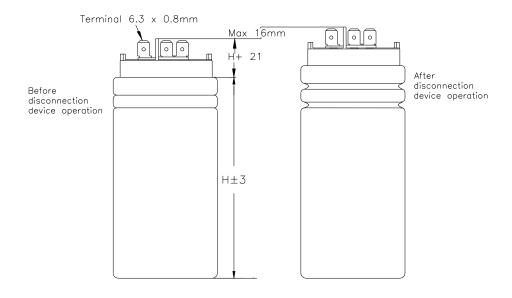
B32335

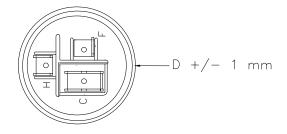
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Approvals		
TÜV		
450 V / 85 °C:	10,000 h (class B)	Approved
UL 810 E106388		Approved Component 10000 AFC, protected
_C Al _{US}		up to 450 V
Logistics		
Delivery mode		■ EU palett as standard
-		Cardboard tape on palett
		■ Pack unit, see dimension table

Dimensional drawing







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Ordering codes

V _R	C _R	Dimensions D x H	Ordering code	Packing unit
V AC	μF	mm		
	10+1	40 x 70	B32335I6116J0*0	36
	10+1.5	40 x 70	B32335I6116J5*0	36
	10+2	40 x 70	B32335I6126J0*0	36
	12+1.5	40 x 70	B32335I6136J5*0	36
	12+2	40 x 70	B32335I6146J0*0	36
	12+5	40 x 70	B32335I6176J0*0	36
	13+1.5	40 x 70	B32335I6146J5*0	36
	13+1.8	40 x 70	B32335I6146J8*0	36
	13+2	40 x 70	B32335I6156J0*0	36
	13+5	40 x 70	B32335I6186J0*0	36
	15+1.5	40 x 70	B32335I6166J5*0	36
	15+2	40 x 70	B32335I6176J0*1	36
	15+2.5	40 x 70	B32335I6176J5*0	36
	15+3	40 x 70	B32335I6186J0*1	36
	15+4	40 x 70	B32335I6196J0*0	36
	15+5	40 x 70	B32335I6206J0*0	36
	17+1.8	40 x 80	B32335I6186J8*0	36
450	20+1.5	40 x 80	B32335I6216J5*0	36
	20+2	40 x 80	B32335I6226J0*0	36
	20+4	40 x 80	B32335I6246J0*0	36
	20+5	40 x 80	B32335I6256J0*0	36
	25+1.5	40 x 80	B32335I6266J5*0	36
	25+2	40 x 80	B32335I6276J0*0	36
	25+2.5	40 x 80	B32335I6276J5*0	36
	25+3	40 x 80	B32335I6286J0*0	36
25+4	25+4	40 x 80	B32335I6296J0*0	36
	25+5	40 x 80	B32335I6306J0*0	36
25+7.5 25+8 25+10 30+1.5 30+1.8 30+2 35+1.5	25+7.5	40 x 94	B32335I6326J5*0	36
	25+8	40 x 94	B32335I6336J0*0	36
	25+10	40 x 94	B32335I6356J0*0	36
	30+1.5	40 x 94	B32335I6316J5*0	36
	30+1.8	40 x 94	B32335I6316J8*0	36
	30+2	40 x 94	B32335I6326J0*0	36
	35+1.5	40 x 105	B32335I6366J5*0	36
	35+2	40 x 105	B32335I6376J0*0	36



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V_R	C_R	Dimensions	Ordering code	Packing unit
V AC	μF	D x H mm		
	35+3	40 x 105	B32335I6386J0*0	36
	35+5	40 x 105	B32335I6406J0*0	36
	35+6	40 x 105	B32335I6416J0*0	36
	35+8	40 x 105	B32335I6436J0*0	36
	35+10	40 x 105	B32335I6456J0*0	36
	40+5	40 x 105	B32335I6456J0*1	36
450	45+4	45 x 105	B32335I6496J0*0	25
450	45+5	45 x 105	B32335I6506J0*0	25
	46+6	45 x 105	B32335I6526J0*0	25
	45+10	45 x 105	B32335I6556J0*0	25
	50+4	45 x 105	B32335I6546J0*0	25
	50+5	45 x 105	B32335I6556J0*1	25
	55+5	53 x 105	B32335I6606J0*0	25
	60+10	53 x 105	B32335I6706J0*0	25

Composition of ordering code:

* : construction of can and plastic top

5 aluminum can, without mounting, V2 Top disc

6 aluminum can, without mounting, V0 Top disc, IEC60335 compliance

7 aluminum can, with M 8 bolt, UL 94 V2 top disc

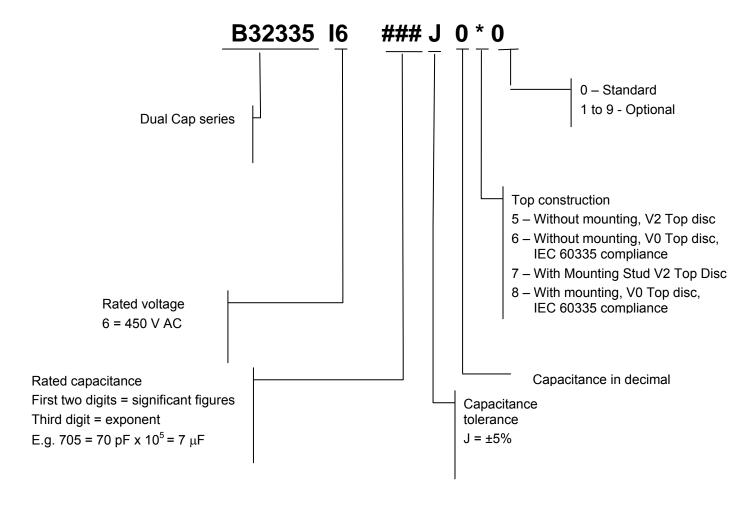
8 aluminum can, with M 8 bolt, UL 94 V2/V0 top disc / IEC 60335-1



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Ordering code structure:





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