

Film capacitors – AC capacitors

EPCOS Feida Motor Run Capacitors

Series/Type: CBB66 - Single Capacitor P2 Aluminum Can Oval

Ordering code: B33364

Date: March. 2010

Version:



Construction

■ Dielectric: polypropylene film ■ Electrode: Metallized film Aluminum can, metal top

Filling material: Vegetable oil, PCB free ■ Insulator material as per IEC 60335-1

Features

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



Typical applications

For general sine wave applications, mainly as motor run capacitor

Terminals

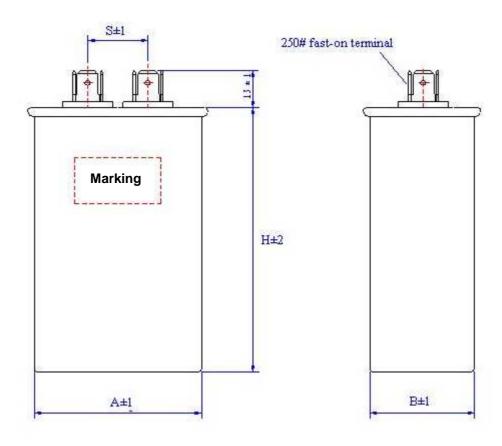
■ 4+4 fast-on terminal #250 style

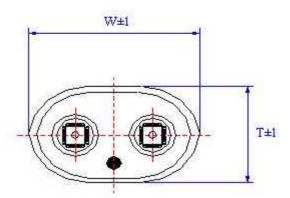
Technical data and specifications					
Reference standards	UL 810 / IEC 60252-1 / EIA 456 A Jan.89				
Safety class to IEC 60252-1 2001-02	P2				
Life expectancy to IEC 60252 2001	370V, 440V: 10 000h (Class B)				
Life expectancy to EIA 456 A Jan. 89 60 000 hours at 95% survival rate					
Rated capacitance C _R	350µF				
Tolerance	±5% other tolerances on request				
Rated voltage V _R	370Vac, 440 Vac				
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 · I _R (I _R = Rated current)				

Test data			
AC test voltage terminal to terminal V _{TT}	2.0 · V _R , 10 s		
Insulation voltage terminals to case	3000 V AC, 2 s		
Insulation resistance R_{ins} or time constant τ at 20 °C, rel. Humidity \leq 65% (minimum as-delivered values)	10000 ΜΩ • μ F		
Dissipation factor tan δ at 20 °C	≤ 2.0 · 10 ⁻³ (100 Hz)		
Maximum rate of voltage rise dV/dt _{max}	10 V/μs		
Climatic data			
Climatic category	40/070/21		
Lower category T _{min}	-40 ℃		
Upper category T _{max}	+70 ℃		
Damp heat test t _{test}	21 days		
Mechanical and thermal properties of insulation terminal	material		
Ball pressure test to IEC 60309-1 sec. 27.3	20 N at 125℃		
UL 94 specification	V0 compatible		
Glow wire test to IEC60335-1 / IEC 60695-2-1/1 Test temperature 550 °C for I $_R{<}0.5A$ and 750 °C for I $_R{>}0.5A$	Self-extinguishing within 2 seconds of withdrawing glow wire		
Compatibility to RoHS			
Compliance to directive 2002/95/EC	RoHS		
Approvals: See table for approved ratings			
C N US UL 810 files E241095	Protected up to 5000 AFC		
250/300/370/400450Vac	-10,000 AFC under approval		



Dimensional drawings CBB 66 (B33364) series







Ordering codes and packing units

VR V AC	Cr µF	W mm	T mm	S mm	Dimensions B×A×H mm	Ordering code	Pack- ing units pcs	UL
	3	54.5	34.5	20	31.5×51.5×55	B33364-A3305-J050	120	
	4	54.5	34.5	20	31.5×51.5×55	B33364-A3405-J050	120	
	5	54.5	34.5	20	31.5×51.5×55	B33364-A3505-J050	120	
	6	54.5	34.5	20	31.5×51.5×55	B33364-A3605-J050	120	
	7	54.5	34.5	20	31.5×51.5×55	B33364-A3705-J050	120	
	7.5	54.5	34.5	20	31.5×51.5×55	B33364-A3755-J050	120	
	8	54.5	34.5	20	31.5×51.5×55	B33364-A3805-J050	120	
	10	54.5	34.5	20	31.5×51.5×65	B33364-A3106-J050	120	
	12	54.5	34.5	20	31.5×51.5×65	B33364-A3126-J050	120	
	12.5	54.5	34.5	20	31.5×51.5×75	B33364-A3126-J550	120	
	15	54.5	34.5	20	31.5×51.5×75	B33364-A3156-J050	120	
370	20	73	48	20	45×70×65	B33364-A3206-J050	60	
	25	73	48	20	45×70×65	B33364-A3256-J050	60	
	30	73	48	20	45×70×75	B33364-A3306-J050	60	
	35	73	48	20	45×70×75	B33364-A3356-J050	60	
	40	73	48	20	45×70×85	B33364-A3406-J050	60	
	45	73	48	20	45×70×100	B33364-A3456-J050	60	
	50	73	48	20	45×70×100	B33364-A3506-J050	60	
440	3	54.5	34.5	20	31.5×51.5×55	B33364-A5305-J050	120	
	4	54.5	34.5	20	31.5×51.5×55	B33364-A5405-J050	120	
	5	54.5	34.5	20	31.5×51.5×55	B33364-A5505-J050	120	
	6	54.5	34.5	20	31.5×51.5×55	B33364-A5605-J050	120	
	7	54.5	34.5	20	31.5×51.5×65	B33364-A5705-J050	120	
	7.5	54.5	34.5	20	31.5×51.5×65	B33364-A5755-J050	120	
	8	54.5	34.5	20	31.5×51.5×65	B33364-A5805-J050	120	
	10	54.5	34.5	20	31.5×51.5×75	B33364-A5106-J050	120	
	12	54.5	34.5	20	31.5×51.5×75	B33364-A5126-J050	120	
	12.5	54.5	34.5	20	31.5×51.5×75	B33364-A5126-J550	120	
	15	73	48	20	45×70×65	B33364-A5156-J050	60	
	20	73	48	20	45×70×65	B33364-A5206-J050	60	
	25	73	48	20	45×70×75	B33364-A5256-J050	60	
	30	73	48	20	45×70×85	B33364-A5306-J050	60	
	35	73	48	20	45×70×100	B33364-A5356-J050	60	
	40	73	48	20	45×70×100	B33364-A5406-J050	60	



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EPCOS Feida Motor Run CapacitorsCBB66 - Single Capacitor P2 Aluminum Can Oval

45	93	51	20	48×90×75	B33364-A5456-J050	45	
50	93	51	20	48×90×85	B33364-A5506-J050	45	

U Please read "Applications warning, installation and maintenance instructions" and the "ZVEI - General safety recommendations for power capacitors", which are available on the Internet at **www.epcos.com/ac_capacitors**, 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.



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