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: 1

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

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

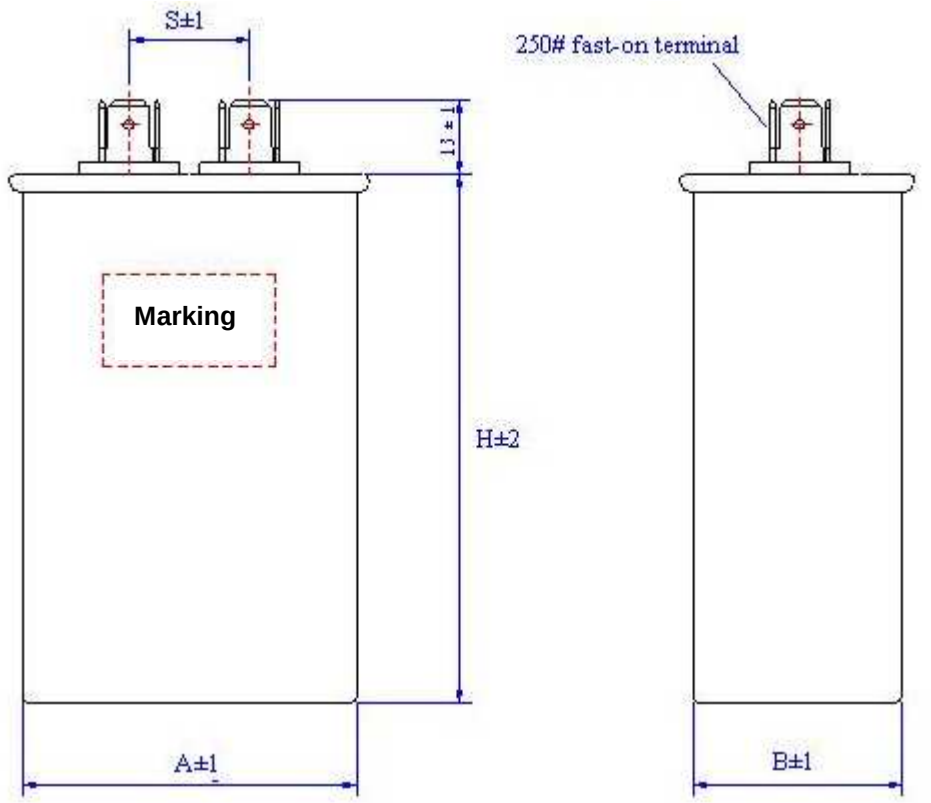
Terminals

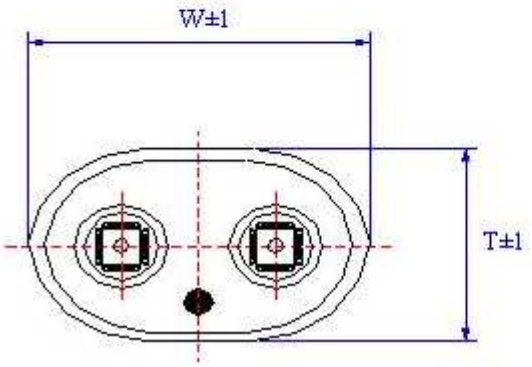
- 4+4 fast-on terminal #250 style

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	3…..50µF
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}	$1.3 \cdot I_R$ (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 ℃, rel. Humidity ≤ 65% (minimum as-delivered values)	10000 MΩ • μF
Dissipation factor tan δ at 20 ℃	≤ 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 ℃ for $I_R \leqslant 0.5A$ and 750 ℃ for $I_R > 0.5A$	Self-extinguishing within 2 seconds of withdrawing glow wire
Compatibility to RoHS	
Compliance to directive 2002/95/EC	RoHS compatible
Approvals: See table for approved ratings	
C US UL 810 files E241095 **250/300/370/400450Vac**	Protected up to 5000 AFC -10,000 AFC under approval

Dimensional drawings CBB 66 (B33364) series





Ordering codes and packing units

V_R V AC	C_R µF	W mm	T mm	S mm	Dimensions B×A×H mm	Ordering code	Packing units pcs	UL
370	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	
	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	

	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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