



## 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

### 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

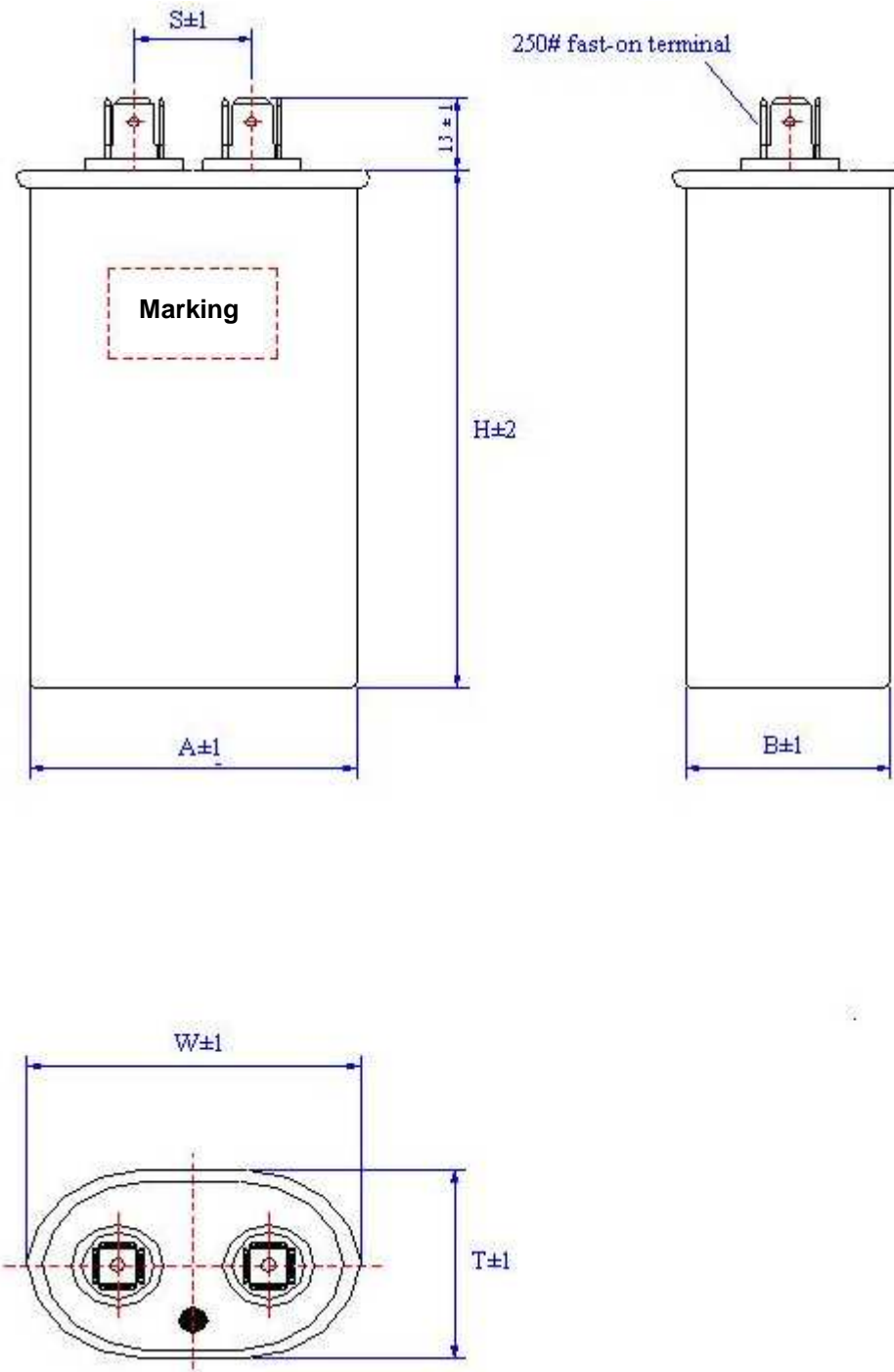
### Terminals

- 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)

<b>Test data</b>	
AC test voltage terminal to terminal $V_{TT}$	$2.0 \cdot V_R, 10 \text{ s}$
Insulation voltage terminals to case	3000 V AC, 2 s
Insulation resistance $R_{ins}$ or time constant $\tau$ at 20 °C, rel. Humidity $\leq 65\%$ (minimum as-delivered values)	10000 M $\Omega \cdot \mu\text{F}$
Dissipation factor $\tan \delta$ at 20 °C	$\leq 2.0 \cdot 10^{-3}$ (100 Hz)
Maximum rate of voltage rise $dV/dt_{max}$	10 V/ $\mu\text{s}$
<b>Climatic data</b>	
Climatic category	40/070/21
Lower category $T_{min}$	-40 °C
Upper category $T_{max}$	+70 °C
Damp heat test $t_{test}$	21 days
<b>Mechanical and thermal properties of insulation terminal material</b>	
Ball pressure test to IEC 60309-1 sec. 27.3	20 N at 125°C
UL 94 specification	V0 compatible
Glow wire test to IEC60335-1 / IEC 60695-2-1/1 Test temperature 550 °C for $I_R \leq 0.5\text{A}$ and 750 °C for $I_R > 0.5\text{A}$	Self-extinguishing within 2 seconds of withdrawing glow wire
<b>Compatibility to RoHS</b>	
Compliance to directive 2002/95/EC	
<b>Approvals: See table for approved ratings</b>	
<b>C</b>  <b>US UL 810 files E241095</b> <b>250/300/370/400450Vac</b>	Protected up to 5000 AFC -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
370	3	54.5	34.5	20	31.5x51.5x55	B33364-A3305-J050	120	
	4	54.5	34.5	20	31.5x51.5x55	B33364-A3405-J050	120	
	5	54.5	34.5	20	31.5x51.5x55	B33364-A3505-J050	120	
	6	54.5	34.5	20	31.5x51.5x55	B33364-A3605-J050	120	
	7	54.5	34.5	20	31.5x51.5x55	B33364-A3705-J050	120	
	7.5	54.5	34.5	20	31.5x51.5x55	B33364-A3755-J050	120	
	8	54.5	34.5	20	31.5x51.5x55	B33364-A3805-J050	120	
	10	54.5	34.5	20	31.5x51.5x65	B33364-A3106-J050	120	
	12	54.5	34.5	20	31.5x51.5x65	B33364-A3126-J050	120	
	12.5	54.5	34.5	20	31.5x51.5x75	B33364-A3126-J550	120	
	15	54.5	34.5	20	31.5x51.5x75	B33364-A3156-J050	120	
	20	73	48	20	45x70x65	B33364-A3206-J050	60	
	25	73	48	20	45x70x65	B33364-A3256-J050	60	
	30	73	48	20	45x70x75	B33364-A3306-J050	60	
	35	73	48	20	45x70x75	B33364-A3356-J050	60	
	40	73	48	20	45x70x85	B33364-A3406-J050	60	
	45	73	48	20	45x70x100	B33364-A3456-J050	60	
50	73	48	20	45x70x100	B33364-A3506-J050	60		
440	3	54.5	34.5	20	31.5x51.5x55	B33364-A5305-J050	120	
	4	54.5	34.5	20	31.5x51.5x55	B33364-A5405-J050	120	
	5	54.5	34.5	20	31.5x51.5x55	B33364-A5505-J050	120	
	6	54.5	34.5	20	31.5x51.5x55	B33364-A5605-J050	120	
	7	54.5	34.5	20	31.5x51.5x65	B33364-A5705-J050	120	
	7.5	54.5	34.5	20	31.5x51.5x65	B33364-A5755-J050	120	
	8	54.5	34.5	20	31.5x51.5x65	B33364-A5805-J050	120	
	10	54.5	34.5	20	31.5x51.5x75	B33364-A5106-J050	120	
	12	54.5	34.5	20	31.5x51.5x75	B33364-A5126-J050	120	
	12.5	54.5	34.5	20	31.5x51.5x75	B33364-A5126-J550	120	
	15	73	48	20	45x70x65	B33364-A5156-J050	60	
	20	73	48	20	45x70x65	B33364-A5206-J050	60	
	25	73	48	20	45x70x75	B33364-A5256-J050	60	
	30	73	48	20	45x70x85	B33364-A5306-J050	60	
	35	73	48	20	45x70x100	B33364-A5356-J050	60	
40	73	48	20	45x70x100	B33364-A5406-J050	60		



	45	93	51	20	48x90x75	B33364-A5456-J050	45	
	50	93	51	20	48x90x85	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](http://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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