



Type CBB60

1. Scope

The capacitors are made of metallized polypropylene film and filled with flame retardant epoxy resin in a round plastic case and leaded with cable or quick connecting terminals. It is suitable for starting and running of AC single-phase motors.

2. Service conditions

The capacitor should be prevented from exposing in sunlight directly and rain or snow will cause fall of insulation between terminals and terminals to case of the capacitor. Followings are detailed service conditions.

2.1 Altitude:

Not exceeding 2000 meter.

2.2 Residual voltage while loading:

Not exceeding 10% rated voltage.

2.3 Pollution:

The capacitors are suitable to operating in lightly polluted atmospheres.

3.Overloads

3.1 Maximum permissible voltage

Not exceeding 1.1 times the rated voltage.

3.2 Maximum permissible current

Not exceeding 1.3 times the current that occurs at rated sinusoidal voltage and rated frequency.

3.3 Maximum permissible reactive output

The overloads resulting from operation at voltage and current exceeding the rated values (even though within the limits indicated in 3.1 and 3.2) should be less than 1.35 times the rated output.

4.Capacitor certificates

This capacitor has certificates of CQC、TUV、UL/CUL、VDE.

5. Properties

Rated voltage	200VAC;220VAC; 250VAC; 270VAC; 300VAC; 330VAC; 370VAC; 400VAC; 420VAC; 440VAC; 450VAC; 470VAC; 480VAC; 500VAC
Rated frequency	50/60Hz
Capacitance Tolerance	±5%
Test voltage between Terminals, (Ut-t)	1.5Un, 2s 1.5Un, 60s



Test voltage between Terminal to case (Ut-c)	3000Vac, 2s 3000 Vac, 60s
Dissipation factor (tgδ)	≤0.0020 (100Hz)
Insulation resistance	$R \cdot C \geq 3000 M\Omega \cdot \mu F(s)$
Operating temperature range	-40°C ~ +70/+85°C
Hot and humid harsh degrees	21 days
Class of operation	A: 30000h: 1.25Un、70/85±2°C、6000h B: 10000h: 1.25Un、70/85±2°C、2000h C: 3000h: 1.25Un、70/85±2°C、600h
Class of safety protection	P0/S0: No special protection. P2/S3: The capacitor is designed and manufactured with segment or T-pattern metalized film as function of anti-explosion protection.
Cooling	Naturally air

6. Packing and storing

The capacitor is packed in double corrugated paperboard box, which is able to guarantee the capacitor in conveyance and deposited at forty degrees below zero. The capacitors should be damp-proofed, discharged gently, stacked in less than eight floors and upwards when they are conveyance and storing. Please open the box as the direction indicating on the box.

The Capacitor must be stored under the temperature between 10~38°C and relative humidity less than 70% for less than six months.

7. Capacitor materials`

No	Component name	Materials and Specifications	Note
1	Terminal	Multi strand copper wire/ Terminals are Tinned Copper and quick-connect terminals/ cable	UL certification
2	Shell	ABS/PBT	UL 94V—0
3	Metallized polypropylene film	Safety metallized polypropylene Film/ metallized polypropylene film	SH



4	Filling material	Black flame-retardant epoxy resin	UL 94V—0
5	Spraying layer	zinc	RoHS

8. Others

Please refer to IEC60252 and UL810 for matters not covered above or contact with our sales office or representatives in your location for special requests.

9. Capacitor dimensions

Rated Voltage	Capacitance (μF)	φD		H	
		in	mm	in	mm
250	1.5	0.98	25	1.50	38
250	2	0.98	25	1.50	38
250	2.5	0.98	25	1.50	38
250	3	0.98	25	1.50	38
250	3.5	0.98	25	1.50	38
250	4	1.18	30	1.97	50
250	4.5	1.18	30	1.97	50
250	5	1.18	30	1.97	50
250	8	1.22	31	2.40	61
250	10	1.30	33	2.40	61
250	12	1.38	35	2.40	61
450	2.0	1.18	30	1.85	47
450	2.5	1.18	30	1.85	47
450	3	1.18	30	1.85	47
450	3.5	1.18	30	1.85	47
450	4	1.18	30	1.97	50
450	5	1.18	30	2.36	60
450	6	1.18	30	2.36	60
450	7.5	1.38	35	2.28	58
450	8	1.38	35	2.28	58
450	10	1.38	35	2.28	58
450	12	1.38	35	2.56	65
450	14	1.38	35	2.95	75
450	15	1.38	35	2.95	75
450	18	1.57	40	2.76	70



450	20	1.57	40	2.76	70
450	1	1.02	26	1.77	45
450	2	1.02	26	1.77	45
450	3	1.02	26	2.05	52
450	4	1.10	28	2.32	59
450	5	1.18	30	2.32	59
450	6	1.30	33	2.32	59
450	7	1.38	35	2.32	59
450	8	1.38	35	2.32	59
450	9	1.49	38	2.32	59
450	10	1.49	38	2.32	59
450	11	1.57	40	2.56	65
450	12	1.57	40	2.56	65
450	13	1.57	40	2.56	65
450	14	1.57	40	2.56	65
450	15	1.38	35	3.74	95
450	16	1.38	35	3.74	95
450	17	1.38	35	3.74	95
450	18	1.38	35	3.74	95
450	19	1.38	35	3.74	95
450	20	1.77	45	3.66	93
450	21	1.77	45	3.66	93
450	22	1.77	45	3.66	93
450	23	1.77	45	3.66	93
450	24	1.77	45	3.66	93
450	25	1.77	45	3.66	93
450	26	1.77	45	3.66	93
450	27	1.77	45	3.66	93
450	28	1.77	45	3.66	93
450	29	1.77	45	3.66	93
450	30	1.77	45	3.66	93
500	1	1.02	26	1.77	45
500	2	1.02	26	1.77	45
500	3	1.10	28	2.32	59



500	4	1.18	30	2.32	59
500	5	1.30	33	2.32	59
500	6	1.38	35	2.32	59
500	7	1.49	38	2.32	59
500	8	1.49	38	2.32	59
500	9	1.57	40	2.56	65
500	10	1.57	40	2.56	65
500	11	1.57	40	2.56	65
500	12	1.38	35	3.74	95
500	13	1.38	35	3.74	95
500	14	1.38	35	3.74	95
500	15	1.38	35	3.74	95
500	16	1.38	35	3.74	95
500	17	1.77	45	3.66	93
500	18	1.77	45	3.66	93
500	19	1.77	45	3.66	93
500	20	1.77	45	3.66	93
500	21	1.77	45	3.66	93
500	22	1.77	45	3.66	93
500	23	1.77	45	3.66	93
500	24	1.77	45	3.66	93
500	25	1.77	45	3.66	93