HCBB60S

Metallized Polypropylene Film AC Motor Capacitor
(S3 Safety Protection, Cylindrical,Plastic Case)



Features

- Metallized polypropylene film
- Flame-resistant plastic housing, epoxy resin sealing
- Excellent self-healing performance
- Stable performance and high reliability
- Segmented film design, S3 safety protection

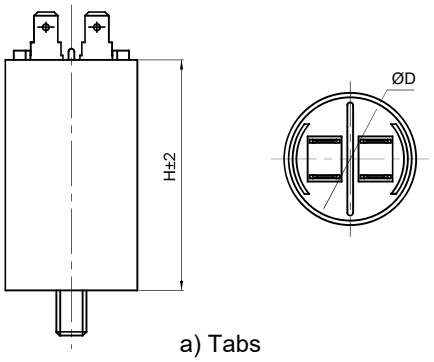
Typical Applications

- Widely applied to starting and running of AC single-phase motors at 50Hz/60Hz frequency power

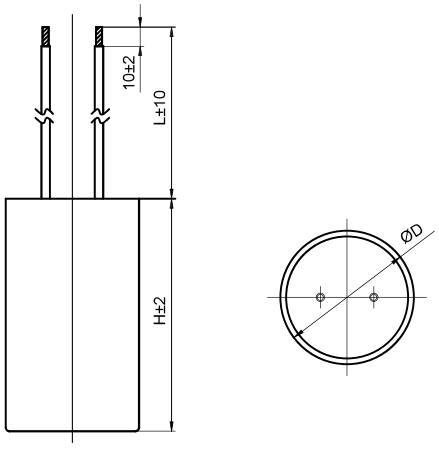
Safety Approvals

cqc	CQC	GB/T 3667.1	1μF-60μF,±5%,250Va.c.-300Va.c. 40/70/21,40/85/21,B/C,S3,SH,50/60Hz File No.: CQC16006150760 1μF-60μF,±5%,450Va.c.-500Va.c. 40/70/21,40/85/21,B/C,S3,SH,50/60Hz File No.: CQC16006150762
	TÜV	EN 60252-1	1μF-60μF,±5%,220Va.c.-500Va.c. 40/70/21, 40/85/21,B,S3,SH,50/60Hz File No.: R 50258744
CE	CE	2014/35/EU	1μF-60μF,±5%,220Va.c.-500Va.c. 40/70/21, 40/85/21,B,S3,SH,50/60Hz File No.: AN 50508680 0001
	UL	UL810	1μF-90μF,±5%,max 500Va.c. max 85℃,50/60Hz,“Protected”,10000AFC File No.: E481493,CCN:CYWT2

Outline Drawing



a) Tabs



b) Lead wires

Specifications

Reference standards		GB/T 3667.1, IEC60252-1	
Rated voltage	U_N	250Va.c.~500Va.c.(50Hz/60Hz)	
Class of operation		Class B(10000h)	
Capacitance range	C_N	1μF~60μF	
Capacitance tolerance		±5%(J)	
Dissipation factor(DF)	tanδ	⩽0.0020(100Hz,20℃)	
Insulation resistance (20℃,100V,1min)	IR×C_N	⩾3000s	
Climatic category		40/70/21,40/85/21	
Class of safety protection		S3	
Operating temperature range	T_{OP}	-40℃~70℃/-40℃~85℃	
Voltage proof	U_{t-t}	Between terminals	$2U_N$(2s)
	U_{t-c}	Between terminals and case	2000Va.c.(60s)
Max permissible voltage		$1.1U_N$	
Max permissible current		$1.3I_N$	

Ordering Information

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
H	C	B	B	6	0	S	/	S	2	4	0	5	J	2	6	B	6	0	0	0	(	X	X	X	)

Series code

Class of safety protection
S3

Rated voltage

E2=250V
S2=450V
H2=500V

Rated capacitance
For example:
405=40×10^5pF
=4μF

Capacitance tolerance
J=±5%

Outline dimension
See Table 1

Class of operation
B-10000h
C-3000h

Terminal code
See Table 2

Internal code
0=Standard

Special code
To identify when special requirements needed

Table 1: Outline Dimension Code

Digit 15		Digit 16			
Code	D(mm)	Code	H(mm)	Code	H(mm)
1	25	1	38	E	75
2	28	2	43	F	76
3	30	3	48	G	80
4	32	4	50	H	85
5	35	5	52	J	90
6	40	6	53	K	95
7	41	7	54	L	100
8	45	8	55	M	110
9	50	9	57	N	115
A	55	A	58	P	120
B	60	B	62	R	30
		C	65	S	40
		D	70	Q	72

Table 2: Terminal Code

Digit 18		Digit 19		Digit 20			
Code	Terminal form	Code	Fixed style	Code	Lead wires(mm) +10mm	Code	Lead wires(mm) +10mm
1	AMP250# (1+1)	0	No bottom-bolt	0	140	D	200
2	AMP250# (2+2)	2	With bottom-bolt	1	50	E	210
6	Lead wires			2	60	F	230
				3	80	G	250
				4	90	H	160
				5	100	J	300
				6	120	K	310
				7	130	M	350
				8	150	N	380
				9	160	P	400
				A	170	Q	450
				S	180	R	500
				C	190		

Notes: If the terminal type is AMP250# tab, the 20th digit shall default to 0.

Outline Dimensions

Unit: mm

250Va.c.(Class B)						
C_N(μF)	Tabs			Lead wires		
	D±1	H±1	Ordering Information	D±1	H±1	Ordering Information
2.5	25	43	HCBB60S/E2255J12B**00	25	38	HCBB60S/E2255J11B6**0
3.0	25	43	HCBB60S/E2305J12B**00	25	38	HCBB60S/E2305J11B6**0
4.0	25	43	HCBB60S/E2405J12B**00	25	38	HCBB60S/E2405J11B6**0
5.0	25	54	HCBB60S/E2505J17B**00	25	48	HCBB60S/E2505J13B6**0
5.5	25	54	HCBB60S/E2555J17B**00	25	48	HCBB60S/E2555J13B6**0
6.0	25	54	HCBB60S/E2605J17B**00	25	48	HCBB60S/E2605J13B6**0
6.5	25	54	HCBB60S/E2655J17B**00	25	48	HCBB60S/E2655J13B6**0
7.0	28	53	HCBB60S/E2705J26B**00	28	48	HCBB60S/E2705J23B6**0
7.5	28	53	HCBB60S/E2755J26B**00	28	48	HCBB60S/E2755J23B6**0
8.0	28	53	HCBB60S/E2805J26B**00	28	48	HCBB60S/E2805J23B6**0
8.5	28	53	HCBB60S/E2855J26B**00	28	48	HCBB60S/E2855J23B6**0
9.0	28	53	HCBB60S/E2905J26B**00	28	48	HCBB60S/E2905J23B6**0
10.0	32	57	HCBB60S/E2106J49B**00	32	50	HCBB60S/E2106J44B6**0
12.0	32	57	HCBB60S/E2126J49B**00	32	50	HCBB60S/E2126J44B6**0
14.0	32	57	HCBB60S/E2146J49B**00	32	50	HCBB60S/E2146J44B6**0
15.0	32	57	HCBB60S/E2156J49B**00	32	50	HCBB60S/E2156J44B6**0
16.0	35	70	HCBB60S/E2166J5DB**00	35	62	HCBB60S/E2166J5BB6**0
18.0	35	70	HCBB60S/E2186J5DB**00	35	62	HCBB60S/E2186J5BB6**0
20.0	35	70	HCBB60S/E2206J5DB**00	35	62	HCBB60S/E2206J5BB6**0
24.0	35	75	HCBB60S/E2246J5EB**00	35	70	HCBB60S/E2246J5DB6**0
25.0	35	75	HCBB60S/E2256J5EB**00	35	70	HCBB60S/E2256J5DB6**0
28.0	40	70	HCBB60S/E2286J6DB**00	41	65	HCBB60S/E2286J7CB6**0
30.0	40	70	HCBB60S/E2306J6DB**00	41	65	HCBB60S/E2306J7CB6**0
35.0	41	80	HCBB60S/E2356J7GB**00	41	76	HCBB60S/E2356J7FB6**0
40.0	41	80	HCBB60S/E2406J7GB**00	41	76	HCBB60S/E2406J7FB6**0
42.0	41	80	HCBB60S/E2426J7GB**00	41	76	HCBB60S/E2426J7FB6**0
45.0	45	80	HCBB60S/E2456J8GB**00	45	75	HCBB60S/E2456J8EB6**0
48.0	45	80	HCBB60S/E2486J8GB**00	45	75	HCBB60S/E2486J8EB6**0
48.0	45	80	HCBB60S/E2486J8GB**00	45	75	HCBB60S/E2486J8EB6**0
50.0	45	80	HCBB60S/E2506J8GB**00	45	75	HCBB60S/E2506J8EB6**0

Notes: In the ordering information, “**0” or “6**” represents the terminal code. Multiple mounting options are available. Please refer to Table 2 and contact us with your specific installation requirements.

Outline Dimensions

Unit: mm

250Va.c.(Class B)						
C_N(μF)	Tabs			Lead wires		
	D±1	H±1	Ordering Information	D±1	H±1	Ordering Information
52.0	45	80	HCBB60S/E2526J8GB**00	45	75	HCBB60S/E2526J8EB6**0
55.0	45	80	HCBB60S/E2556J8GB**00	45	75	HCBB60S/E2556J8EB6**0
60.0	45	90	HCBB60S/E2606J8JB**00	45	85	HCBB60S/E2606J8HB6**0
65.0	50	90	HCBB60S/E2656J9JB**00	50	85	HCBB60S/E2656J9HB6**0
70.0	50	90	HCBB60S/E2706J9JB**00	50	85	HCBB60S/E2706J9HB6**0
75.0	50	90	HCBB60S/E2756J9JB**00	50	85	HCBB60S/E2756J9HB6**0
80.0	50	95	HCBB60S/E2806J9KB**00	50	90	HCBB60S/E2806J9JB6**0
85.0	55	95	HCBB60S/E2856JAKB**00	55	95	HCBB60S/E2856JAKB6**0
90.0	55	95	HCBB60S/E2906JAKB**00	55	95	HCBB60S/E2906JAKB6**0
100.0	55	100	HCBB60S/E2107JALB**00	55	95	HCBB60S/E2107JAKB6**0

450Va.c.(Class B)						
C_N(μF)	Tabs			Lead wires		
	D±1	H±1	Ordering Information	D±1	H±1	Ordering Information
1.5	25	43	HCBB60S/S2155J12B**00	25	38	HCBB60S/S2155J11B6**0
2.0	25	43	HCBB60S/S2205J12B**00	25	38	HCBB60S/S2205J11B6**0
2.25	25	53	HCBB60S/S22N4J16B**00	25	48	HCBB60S/S22N4J13B6**0
2.5	25	53	HCBB60S/S2255J16B**00	25	48	HCBB60S/S2255J13B6**0
3.0	28	58	HCBB60S/S2305J2AB**00	28	43	HCBB60S/S2305J22B6**0
3.5	28	58	HCBB60S/S2355J2AB**00	28	53	HCBB60S/S2355J26B6**0
4.0	28	58	HCBB60S/S2405J2AB**00	28	53	HCBB60S/S2405J26B6**0
4.5	28	58	HCBB60S/S2455J2AB**00	28	53	HCBB60S/S2455J26B6**0
5.0	32	50	HCBB60S/S2505J44B**00	32	53	HCBB60S/S2505J46B6**0
5.5	32	57	HCBB60S/S2555J49B**00	32	53	HCBB60S/S2555J46B6**0
6.0	32	57	HCBB60S/S2605J49B**00	32	53	HCBB60S/S2605J46B6**0
6.5	32	57	HCBB60S/S2655J49B**00	32	53	HCBB60S/S2655J46B6**0
7.0	32	57	HCBB60S/S2705J49B**00	32	53	HCBB60S/S2705J46B6**0
8.0	35	57	HCBB60S/S2805J59B**00	35	55	HCBB60S/S2805J58B6**0
9.0	35	57	HCBB60S/S2905J59B**00	35	55	HCBB60S/S2905J58B6**0
10.0	35	70	HCBB60S/S2106J5DB**00	35	62	HCBB60S/S2106J5BB6**0

Notes: In the ordering information, “**0” or “6**” represents the terminal code. Multiple mounting options are available. Please refer to Table 2 and contact us with your specific installation requirements.

Outline Dimensions

Unit: mm

450Va.c.(Class B)						
C_N(μF)	Tabs			Lead wires		
	D±1	H±1	Ordering Information	D±1	H±1	Ordering Information
12.0	35	75	HCBB60S/S2126J5EB**00	35	70	HCBB60S/S2126J5DB6**0
12.5	35	75	HCBB60S/S212EJ5EB**00	35	70	HCBB60S/S212EJ5DB6**0
13.0	35	75	HCBB60S/S2136J5EB**00	35	70	HCBB60S/S2136J5DB6**0
14.0	35	75	HCBB60S/S2146J5EB**00	35	70	HCBB60S/S2146J5DB6**0
15.0	40	70	HCBB60S/S2156J6DB**00	41	65	HCBB60S/S2156J7CB6**0
16.0	40	70	HCBB60S/S2166J6DB**00	41	65	HCBB60S/S2166J7CB6**0
18.0	41	76	HCBB60S/S2186J7FB**00	41	76	HCBB60S/S2186J7FB6**0
20.0	41	76	HCBB60S/S2206J7FB**00	41	76	HCBB60S/S2206J7FB6**0
25.0	45	80	HCBB60S/S2256J8GB**00	45	70	HCBB60S/S2256J8DB6**0
30.0	45	90	HCBB60S/S2306J8JB**00	45	85	HCBB60S/S2306J8HB6**0
35.0	45	95	HCBB60S/S2356J8KB**00	45	90	HCBB60S/S2356J8JB6**0
40.0	50	100	HCBB60S/S2406J9LB**00	50	95	HCBB60S/S2406J9KB6**0
45.0	50	100	HCBB60S/S2456J9LB**00	50	95	HCBB60S/S2456J9KB6**0
50.0	55	100	HCBB60S/S2506JALB**00	55	95	HCBB60S/S2506JAKB6**0
55.0	55	100	HCBB60S/S2556JALB**00	55	95	HCBB60S/S2556JAKB6**0
60.0	55	110	HCBB60S/S2606JAMB**00	55	100	HCBB60S/S2606JALB6**0

500Va.c.(Class B)						
C_N(μF)			Tabs			Lead wires
	D±1	H±1	Ordering Information	D±1	H±1	Ordering Information
1.5	25	43	HCBB60S/H2155J12B**00	25	38	HCBB60S/H2155J11B6**0
2.0	25	48	HCBB60S/H2205J13B**00	25	43	HCBB60S/H2205J12B6**0
2.5	30	48	HCBB60S/H2255J33B**00	30	48	HCBB60S/H2255J33B6**0
3.0	30	48	HCBB60S/H2305J33B**00	30	48	HCBB60S/H2305J33B6**0
3.5	30	55	HCBB60S/H2355J38B**00	30	48	HCBB60S/H2355J33B6**0
4.0	30	55	HCBB60S/H2405J38B**00	30	48	HCBB60S/H2405J33B6**0
4.5	32	57	HCBB60S/H2455J49B**00	32	50	HCBB60S/H2455J44B6**0
5.0	32	57	HCBB60S/H2505J49B**00	32	50	HCBB60S/H2505J44B6**0
5.5	35	57	HCBB60S/H2555J59B**00	35	55	HCBB60S/H2555J58B6**0
6.0	35	57	HCBB60S/H2605J59B**00	35	55	HCBB60S/H2605J58B6**0

Notes: In the ordering information, “**0” or “6**” represents the terminal code. Multiple mounting options are available. Please refer to Table 2 and contact us with your specific installation requirements.

Outline Dimensions

Unit: mm

500Va.c.(Class B)						
C_N(μF)	Tabs			Lead wires		
	D±1	H±1	Ordering Information	D±1	H±1	Ordering Information
6.5	35	57	HCBB60S/H2655J59B**00	35	55	HCBB60S/H2655J58B6**0
7.0	35	57	HCBB60S/H2705J59B**00	35	55	HCBB60S/H2705J58B6**0
7.5	35	62	HCBB60S/H2755J5BB**00	35	55	HCBB60S/H2755J58B6**0
8.0	35	62	HCBB60S/H2805J5BB**00	35	55	HCBB60S/H2805J58B6**0
9.0	40	70	HCBB60S/H2905J6DB**00	41	65	HCBB60S/H2905J7CB6**0
10.0	40	70	HCBB60S/H2106J6DB**00	41	65	HCBB60S/H2106J7CB6**0
12.0	40	70	HCBB60S/H2126J6DB**00*	41	65	HCBB60S/H2126J7CB6**0
12.5	45	72	HCBB60S/H212EJ8QB**00	45	72	HCBB60S/H212EJ8QB6**0
13.0	45	72	HCBB60S/H2136J8QB**00	45	72	HCBB60S/H2136J8QB6**0
14.0	45	72	HCBB60S/H2146J8QB**00	45	72	HCBB60S/H2146J8QB6**0
15.0	45	72	HCBB60S/H2156J8QB**00	45	72	HCBB60S/H2156J8QB6**0
16.0	45	72	HCBB60S/H2166J8QB**00	45	72	HCBB60S/H2166J8QB6**0
18.0	45	85	HCBB60S/H2186J8HB**00	45	80	HCBB60S/H2186J8GB6**0
20.0	45	85	HCBB60S/H2206J8HB**00	45	80	HCBB60S/H2206J8GB6**0
25.0	50	85	HCBB60S/H2256J9HB**00	50	85	HCBB60S/H2256J9HB6**0
30.0	50	95	HCBB60S/H2306J9KB**00	50	85	HCBB60S/H2306J9HB6**0
35.0	50	100	HCBB60S/H2356J9LB**00	50	95	HCBB60S/H2356J9KB6**0
40.0	55	100	HCBB60S/H2406JALB**00	55	95	HCBB60S/H2406JAKB6**0
45.0	55	110	HCBB60S/H2456JAMB**00	55	100	HCBB60S/H2456JALB6**0
50.0	55	120	HCBB60S/H2506JAPB**00	55	110	HCBB60S/H2506JAMB6**0
55.0	60	120	HCBB60S/H2556JBPB**00	60	115	HCBB60S/H2556JBNB6**0
60.0	60	120	HCBB60S/H2606JBPB**00	60	115	HCBB60S/H2606JBNB6**0

Notes: In the ordering information, “**0” or “6**” represents the terminal code. Multiple mounting options are available. Please refer to Table 2 and contact us with your specific installation requirements.