

HCBB65





Metallized polypropylene film AC motor capacitor
(Cylindrical, aluminum case, anti-explosion)



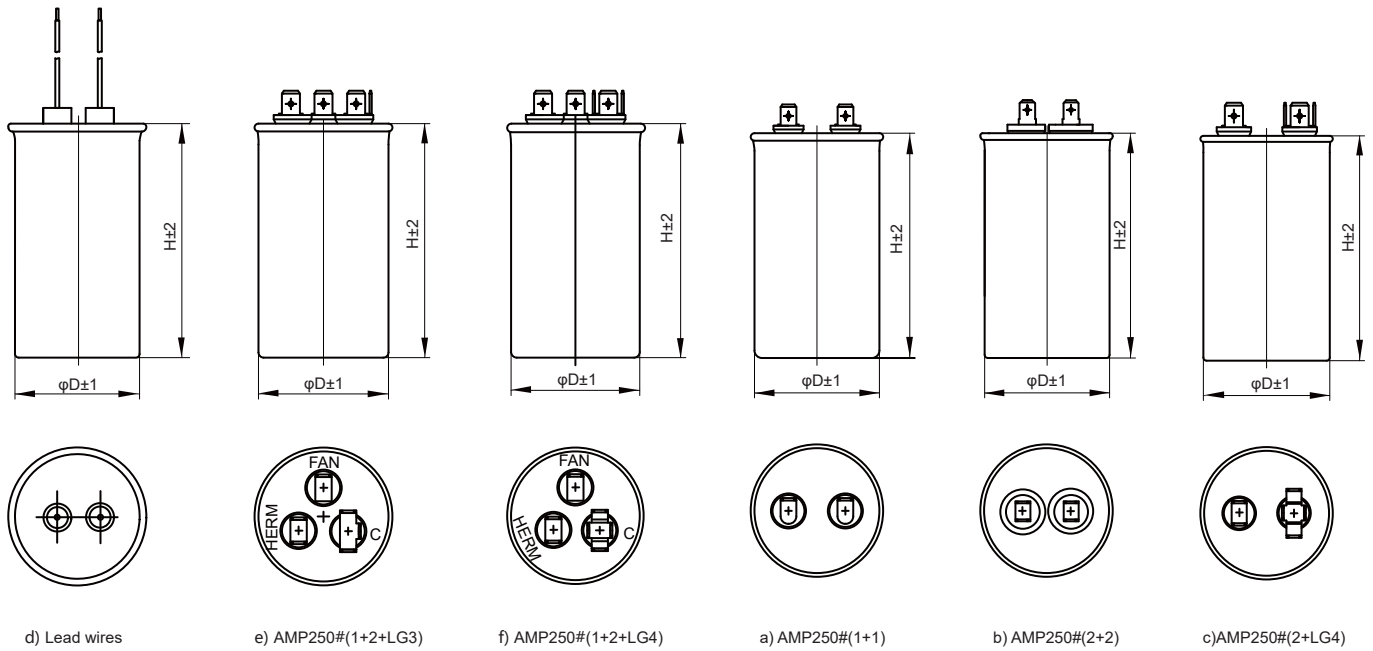
Features

- Widely applied to starting and running of AC single-phase motors at 50Hz/60Hz frequency power
- Self-healing property
- Excellent stable performance and reliability
- Explosion-proof design and more safety
- long lifetime

Safety Approvals

	CQC	GB/T 3667.1	<p>(x+y)μF, x=1μF-85μF,y=0μF-15μF,±5%,450Va.c. 40/70/21,40/85/21,B,S2,SH,50/60Hz File No.: CQC15006131261</p> <p>(x+y)μF, x=1μF-85μF,y=0μF-15μF,±5%,250Va.c.-300Va.c. 40/70/21,40/85/21,B,S2,SH,50/60Hz File No.: CQC16006150526</p> <p>1μF-30μF,±5%,400Va.c.-450Va.c. inductor:0-50μH,resistor:0-200Ω 40/70/21,40/85/21,B/C,S2,SH,50/60Hz File No.: CQC17002174922</p> <p>(x+y)μF, x=1μF-60μF,450Va.c.; y=1μF-15μF,560Va.c. 40/70/21,40/85/21,B/C,S2,SH,50/60Hz File No.: CQC17002174948</p>
	VDE	EN 60252-1	<p>1μF-80μF,±5%,250Va.c.-450Va.c. 25/70/21,25/85/21,40/70/21,40/85/21,B,S2,SH,50/60Hz File No.: 40044475</p>
	TUV	EN 60252-1	<p>1μF-85μF;(x+y)μF, x=1μF-85μF,y=1μF-15μF,1.5μF,2.5μF,±5%,400Va.c.-450Va.c. 40/70/21,40/85/21,B/C,S2,SH,50/60Hz File No.: R 50314716</p> <p>1μF-85μF;(x+y)μF, x=1μF-85μF,y=1μF-15μF,1.5μF,2.5μF,±5%,250Va.c.-300Va.c. 40/70/21,40/85/21,B/C,S2,SH,50/60Hz File No.: R 50355632</p>
	UL/CUL	UL810 CSA C22.2 N0.190	<p>max 450Va.c. max 100°C,50/60Hz,"Protected",10000AFC File No.: E481493,CCN:CYWT2/8</p>

Outline Drawing



d) Lead wires

e) AMP250#(1+2+LG3)

f) AMP250#(1+2+LG4)

a) AMP250#(1+1)

b) AMP250#(2+2)

c) AMP250#(2+LG4)

Specifications

Reference standard		GB/T 3667.1 (IEC 60252-1)
Rated voltage		250Va.c. ~ 450Va.c. (50Hz/60Hz)
Class of operation		Class B(10000h), Class C(3000h)
Capacitance range		1 μ F ~ 85 μ F, 1+0 μ F ~ 85 μ F+15 μ F
Climatic category		40/70/21, 40/80/21, 40/85/21
Class of safety protection		S2
Operation temperature range		-40°C~85°C
Capacitance tolerance		±5%(J)
Voltage proof	Between terminals	2U _{NAC} (2s)
	Between terminals and case	2000Va.c. (60s)
Insulation resistance(IR×C _N)		≥3000s(20°C, 100V, 60s)
Dissipation factor		≤0.0020(100Hz, 20°C)
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
H	C	B	B	6	5	/													(x	x	x)
Series code						AC rated voltage		Rated capacitance value Dual value capacitance code			Capacitance tolerance	Outline dimension code	Class of operation	Terminal code	Internal code								
						<div> E2=250V Q1=300V R8=370V S1=440V S2=450V </div>		For example: 505=50×10 ⁵ pF =5.0μF (Dual value capacitance code, See table 1)			J=±5%	See table 2	B-10000h C-3000h	See table 3	To identify when the special requirements needed								

Note: 1) "****" means the lead-out code of the socket. We can provide a variety of installation methods. Please select according to Table 3 and contact us for specific installation requirements;
2) The 16th place is the product operation level. Class B means running for 10000h continuously; Class C means running for 3000 hours in a row.

Table 1 Dual value capacitance code

Code	C _N (μF)	Code	C _N (μF)	Code	C _N (μF)
1	1	C	3.5	P	35
2	2	D	5.5	Q	40
3	3	E	7.5	R	45
4	4	F	10	S	50
5	5	G	11	T	55
6	6	H	12	U	60
7	7	J	15	V	65
8	8	K	17	W	70
9	9	L	20	X	75
A	1.5	M	25	Y	80
B	2.5	N	30	Z	85

Note: CF1=10μF+1μF capacitor, C = dual value capacitance, F=10μF, 1=1μF.

Table 2 Dimension code

Digit 14		Digit 15			
Code	D(mm)	Code	H(mm)	Code	H(mm)
1	30	1	50	F	90
2	35	2	55	G	100
3	40	3	57	H	102
4	45	4	60	J	105
5	50	5	65	K	110
6	55	6	67	L	120
7	60	7	70	M	125
8	63.5	8	71	N	130
		9	75	P	135
		A	77	Q	63.5
		B	78	R	91
		C	80	S	127
		D	81	T	95
		E	85	U	87

Table 3 Terminal code

Digit 17		Digit 18		Digit 19	
Code	Terminal form	Code	Fixed style	Code	other
1	AMP250#(1+1)	0	No Bottom-bolt, No bracket	0	No inductance
2	AMP250#(2+2)	1	No Bottom-bolt, With bracket	1	With inductance
3	AMP250#(2+LG4)	2	With Bottom-bolt, No bracket		
6	Lead wires	3	With Bottom-bolt, With bracket		
8	AMP250#(1+2+LG3)				
9	AMP250#(1+2+LG4)				

Note: (1+1)=2 electrodes, each electrode has one AMP250# tab;
 (2+2)=2 electrodes, each electrode has two AMP250# tabs;
 (2+LG4)=2 electrodes, 2 AMP250# on one electrode and 4 AMP250# with large distance on the other electrode;
 (1+2+LG3)=3 electrodes, the corresponding number of AMP250# is 1, 2 and 3;
 (1+2+LG4)=3 electrodes, the corresponding number of AMP250# is 1, 2 and 4.

Outline Dimensions

250V.a.c.							
C _N (μF)	D (mm)	H (mm)	Ordering Information	C _N (μF)	D (mm)	H (mm)	Ordering Information
2.0	30	50	HCBB65/E2205J11B**0	14.0	40	55	HCBB65/E2146J32B**0
2.5	30	50	HCBB65/E2255J11B**0	15.0	40	55	HCBB65/E2156J32B**0
3.0	30	50	HCBB65/E2305J11B**0	16.0	40	55	HCBB65/E2166J32B**0
4.0	30	50	HCBB65/E2405J11B**0	18.0	40	65	HCBB65/E2186J35B**0
5.0	30	50	HCBB65/E2505J11B**0	20.0	40	65	HCBB65/E2206J35B**0
5.5	30	50	HCBB65/E2555J11B**0	25.0	40	65	HCBB65/E2256J35B**0
6.0	30	50	HCBB65/E2605J11B**0	30.0	45	65	HCBB65/E2306J45B**0
6.5	30	55	HCBB65/E2655J12B**0	35.0	45	65	HCBB65/E2356J45B**0
7.0	30	55	HCBB65/E2705J12B**0	40.0	45	75	HCBB65/E2406J49B**0
7.5	30	55	HCBB65/E2755J12B**0	45.0	45	85	HCBB65/E2456J4EB**0
8.0	35	55	HCBB65/E2805J22B**0	50.0	45	85	HCBB65/E2506J4EB**0
8.5	35	55	HCBB65/E2855J22B**0	50.0	50	75	HCBB65/E2506J59B**0
9.0	35	55	HCBB65/E2905J22B**0	55.0	50	75	HCBB65/E2556J59B**0
10.0	35	55	HCBB65/E2106J22B**0	60.0	50	85	HCBB65/E2606J5EB**0
11.0	35	55	HCBB65/E2116J22B**0	65.0	50	85	HCBB65/E2656J5EB**0
12.0	35	55	HCBB65/E2126J22B**0	70.0	50	90	HCBB65/E2706J5FB**0
13.0	40	55	HCBB65/E2136J32B**0	75.0	50	100	HCBB65/E2756J5GB**0
300V.a.c.							
C _N (μF)	D (mm)	H (mm)	Ordering Information	C _N (μF)	D (mm)	H (mm)	Ordering Information
2.0	30	50	HCBB65/Q1205J11B**0	14.0	40	55	HCBB65/Q1146J32B**0
2.5	30	50	HCBB65/Q1255J11B**0	15.0	40	55	HCBB65/Q1156J32B**0
3.0	30	50	HCBB65/Q1305J11B**0	16.0	40	65	HCBB65/Q1166J35B**0
4.0	30	50	HCBB65/Q1405J11B**0	18.0	40	65	HCBB65/Q1186J35B**0
5.0	30	50	HCBB65/Q1505J11B**0	20.0	40	65	HCBB65/Q1206J35B**0
5.5	30	50	HCBB65/Q1555J11B**0	25.0	45	65	HCBB65/Q1256J45B**0
6.0	30	55	HCBB65/Q1605J12B**0	30.0	45	75	HCBB65/Q1306J49B**0
6.5	30	55	HCBB65/Q1655J12B**0	35.0	45	75	HCBB65/Q1356J49B**0
7.0	30	55	HCBB65/Q1705J12B**0	40.0	45	85	HCBB65/Q1406J4EB**0
7.5	35	55	HCBB65/Q1755J22B**0	45.0	45	90	HCBB65/Q1456J4FB**0

Notes:1) "****"= terminal code and installation methods. Various installations can be provided. Please choose the type according to table 3 and contact us for specific installation requirements.

Outline Dimensions

300Va.c.							
C _N (μF)	D (mm)	H (mm)	Ordering Information	C _N (μF)	D (mm)	H (mm)	Ordering Information
8.0	35	55	HCBB65/Q1805J22B**0	50.0	50	85	HCBB65/Q1506J5EB**0
8.5	35	55	HCBB65/Q1855J22B**0	55.0	50	85	HCBB65/Q1556J5EB**0
9.0	35	55	HCBB65/Q1905J22B**0	60.0	50	90	HCBB65/Q1606J5FB**0
10.0	35	55	HCBB65/Q1106J22B**0	65.0	50	90	HCBB65/Q1656J5FB**0
11.0	40	55	HCBB65/Q1116J32B**0	70.0	50	100	HCBB65/Q1706J5GB**0
12.0	40	55	HCBB65/Q1126J32B**0	75.0	50	100	HCBB65/Q1756J5GB**0
13.0	40	55	HCBB65/Q1136J32B**0				
370Va.c.							
C _N (μF)	D (mm)	H (mm)	Ordering Information	C _N (μF)	D (mm)	H (mm)	Ordering Information
5.0	35	50	HCBB65/R8505J21B**0	18.0	45	65	HCBB65/R8186J45B**0
6.0	35	50	HCBB65/R8605J21B**0	20.0	45	65	HCBB65/R8206J45B**0
6.5	35	50	HCBB65/R8655J21B**0	25.0	45	75	HCBB65/R8256J49B**0
7.0	35	55	HCBB65/R8705J22B**0	30.0	45	75	HCBB65/R8306J49B**0
7.5	35	55	HCBB65/R8755J22B**0	35.0	45	85	HCBB65/R8356J4EB**0
8.0	35	55	HCBB65/R8805J22B**0	40.0	50	85	HCBB65/R8406J5EB**0
9.0	40	55	HCBB65/R8905J32B**0	45.0	50	85	HCBB65/R8456J5EB**0
10.0	40	55	HCBB65/R8106J32B**0	50.0	50	90	HCBB65/R8506J5FB**0
11.0	40	55	HCBB65/R8116J32B**0	55.0	50	100	HCBB65/R8556J5GB**0
12.0	40	55	HCBB65/R8126J32B**0	60.0	50	100	HCBB65/R8606J5GB**0
15.0	40	65	HCBB65/R8156J35B**0	65.0	55	100	HCBB65/R8656J6GB**0
16.0	40	65	HCBB65/R8166J35B**0	70.0	55	100	HCBB65/R8706J6GB**0
450Va.c.							
C _N (μF)	D (mm)	H (mm)	Ordering Information	C _N (μF)	D (mm)	H (mm)	Ordering Information
1.0	30	50	HCBB65/S2105J11B**0	11.0	40	71	HCBB65/S2116J38B**1
1.5	30	50	HCBB65/S2155J11B**0	12.0	40	71	HCBB65/S2126J38B**1
2.0	30	50	HCBB65/S2205J11B**0	13.0	40	81	HCBB65/S2136J3DB**1
2.5	30	50	HCBB65/S2255J11B**0	14.0	40	81	HCBB65/S2146J3DB**1
3.0	30	50	HCBB65/S2305J11B**0	15.0	40	81	HCBB65/S2156J3DB**1

Notes:1) “**0”= terminal code and installation methods. Various installations can be provided. Please choose the type according to table 3 and contact us for specific installation requirements.

Outline Dimensions

450V.a.c.							
C _N (μF)	D (mm)	H (mm)	Ordering Information	C _N (μF)	D (mm)	H (mm)	Ordering Information
3.5	35	55	HCBB65/S2355J22B**0	16.0	45	65	HCBB65/S2166J45B**0
4.0	35	55	HCBB65/S2405J22B**0	17.0	45	75	HCBB65/S2176J49B**0
4.5	35	55	HCBB65/S2455J22B**0	20.0	45	85	HCBB65/S2206J4EB**0
5.0	35	55	HCBB65/S2505J22B**0	25.0	45	85	HCBB65/S2256J4EB**0
6.0	35	55	HCBB65/S2605J22B**0	30.0	50	85	HCBB65/S2306J5EB**0
6.5	40	55	HCBB65/S2655J32B**0	30.0	50	90	HCBB65/S2306J5FB**0
7.0	40	55	HCBB65/S2705J32B**0	35.0	50	100	HCBB65/S2356J5GB**0
7.5	40	55	HCBB65/S2755J32B**0	40.0	50	100	HCBB65/S2406J5GB**0
8.0	40	55	HCBB65/S2805J32B**0	40.0	50	110	HCBB65/S2406J5KB**0
9.0	40	55	HCBB65/S2905J32B**0	45.0	50	110	HCBB65/S2456J5KB**0
10.0	40	65	HCBB65/S2106J35B**0	40.0	50	125	HCBB65/S2406J5MB**0
11.0	40	65	HCBB65/S2116J35B**0	45.0	50	125	HCBB65/S2456J5MB**0
12.0	40	65	HCBB65/S2126J35B**0	50.0	50	125	HCBB65/S2506J5MB**0
12.5	40	65	HCBB65/S212EJ35B**0	40.0	55	100	HCBB65/S2406J6GB**0
13.0	45	65	HCBB65/S2136J45B**0	45.0	55	100	HCBB65/S2456J6GB**0
14.0	45	65	HCBB65/S2146J45B**0	55.0	55	125	HCBB65/S2556J6MB**0
15.0	45	65	HCBB65/S2156J45B**0	60.0	55	125	HCBB65/S2606J6MB**0
7.0	40	71	HCBB65/S2705J38B**1	65.0	55	125	HCBB65/S2656J6MB**0
8.0	40	71	HCBB65/S2805J38B**1	70.0	60	125	HCBB65/S2706J7MB**0
9.0	40	71	HCBB65/S2905J38B**1	75.0	60	125	HCBB65/S2756J7MB**0
10.0	40	71	HCBB65/S2106J38B**1	80.0	60	125	HCBB65/S2806J7MB**0
250V.a.c.							
C _N (μF)	D (mm)	H (mm)	Ordering Information	C _N (μF)	D (mm)	H (mm)	Ordering Information
30+15	50	80	HCBB65/E2CNJJ5CB**0	45+6	50	90	HCBB65/E2CR6J5FB**0
35+6	50	80	HCBB65/E2CP6J5CB**0	45+10	50	90	HCBB65/E2CRFJ5FB**0
35+8	50	80	HCBB65/E2CP8J5CB**0	45+15	50	90	HCBB65/E2CRJJ5FB**0
35+10	50	80	HCBB65/E2CPFJ5CB**0	50+15	50	90	HCBB65/E2CSJJ5FB**0
35+12	50	80	HCBB65/E2CPHJ5CB**0	55+6	50	90	HCBB65/E2CT6J5FB**0
35+15	50	80	HCBB65/E2CPJJ5CB**0	55+15	50	105	HCBB65/E2CTJJ5JB**0

Notes:1) "****"= terminal code and installation methods. Various installations can be provided. Please choose the type according to table 3 and contact us for specific installation requirements.

Outline Dimensions

450Va.c.(S1=440Va.c.)							
C _N (μF)	D (mm)	H (mm)	Ordering Information	C _N (μF)	D (mm)	H (mm)	Ordering Information
10+4	50	65	HCBB65/S2CF4J55B**0	40+10	50	110	HCBB65/S2CQFJ5KB**0
10+5	50	65	HCBB65/S2CF5J55B**0	45+3	63.5	85	HCBB65/S2CR3J8EB**0
15+5	50	65	HCBB65/S2CJ5J55B**0	45+5	63.5	85	HCBB65/S2CR5J8EB**0
17+6	50	80	HCBB65/S2CK6J5CB**0	45+7.5	63.5	85	HCBB65/S2CREJ8EB**0
20+2.5	50	90	HCBB65/S2CLBJ5FB**0	45+8	55	110	HCBB65/S2CR8J6KB**0
20+5	50	75	HCBB65/S2CL5J59B**0	45+10	63.5	85	HCBB65/S2CRFJ8EB**0
25+3	50	85	HCBB65/S2CM3J5EB**0	50+4	50	125	HCBB65/S2CS4J5MB**0
25+5	50	85	HCBB65/S2CM5J5EB**0	50+5	63.5	85	HCBB65/S2CS5J8EB**0
25+7.5	50	85	HCBB65/S2CMEJ5EB**0	50+7.5	55	120	HCBB65/S2CSEJ6LB**0
25+10	50	100	HCBB65/S2CMFJ5GB**0	50+8.0	55	120	HCBB65/S2CS8J6LB**0
30+3	50	90	HCBB65/S2CN3J5FB**0	50+10	55	130	HCBB65/S2CSFJ6NB**0
30+4	50	105	HCBB65/S2CN4J5JB**0	55+5	63.5	100	HCBB65/S2CT5J8GB**0
30+5	60	85	HCBB65/S2CN5J7EB**0	55+7.5	63.5	100	HCBB65/S2CTEJ8GB**0
30+7.5	50	100	HCBB65/S2CNEJ5GB**0	55+10	63.5	100	HCBB65/S2CTFJ8GB**0
30+10	50	100	HCBB65/S2CNFJ5GB**0	60+5	55	130	HCBB65/S2CU5J6NB**0
35+2.5	50	105	HCBB65/S2CPBJ5JB**0	60+7.5	63.5	100	HCBB65/S2CUEJ8GB**0
35+3	50	105	HCBB65/S2CP3J5JB**0	60+10	55	130	HCBB65/S2CUFJ6NB**0
35+5	50	100	HCBB65/S2CP5J5GB**0	70+5	63.5	110	HCBB65/S2CW5J8KB**0
35+7.5	50	110	HCBB65/S2CPEJ5KB**0	70+7.5	63.5	110	HCBB65/S2CWEJ8KB**0
35+10	50	110	HCBB65/S2CPFJ5KB**0	70+10	63.5	110	HCBB65/S2CWFJ8KB**0
40+3	50	110	HCBB65/S2CQ3J5KB**0	75+5	63.5	110	HCBB65/S2CX5J8KB**0
40+5	50	110	HCBB65/S2CQ5J5KB**0	80+5	63.5	125	HCBB65/S2CY5J8MB**0
40+7.5	55	105	HCBB65/S2CQEJ6JB**0	80+7.5	63.5	125	HCBB65/S2CYEJ8MB**0
40+8	55	105	HCBB65/S2CQ8J6JB**0				

Notes:1) "**0"= terminal code and installation methods. Various installations can be provided. Please choose the type according to table 3 and contact us for specific installation requirements.