HCBB60

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



Features

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

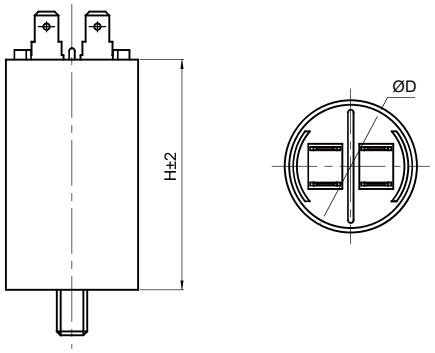
Typical Applications

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

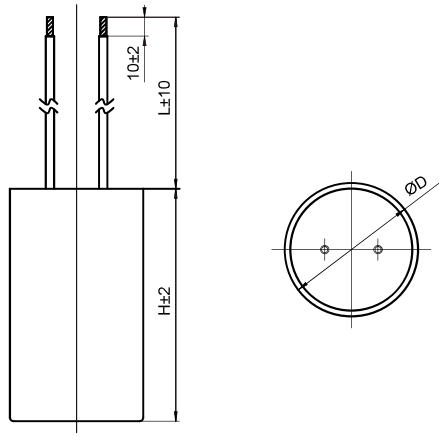
Safety Approvals

CQC	CQC	GB/T 3667.1	1μF-99μF,±5%,220Va.c.-350Va.c. 40/70/21,40/85/21,B/C,S0,SH,50/60Hz File No.: CQC11006059170 1μF-60μF,±5%,420Va.c.-500Va.c. 40/70/21,40/85/21,B/C,S0,SH,50/60Hz File No.: CQC03002003945
VDE	VDE	EN 60252-1	1μF-100μF,±5%,250Va.c.-500Va.c. 25/70/21,25/85/21, 40/70/21, 40/85/21,B/C,S0,SH,50/60Hz File No.: 40001662
c UL us	UL/cUL	UL810 CSA C22.2 N0.190	1μF-60μF,±5%,250Va.c.-500Va.c. max 90°C,50/60Hz File No.: E222132,CCN:CZDS2/8

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),Class C(3000h)	
Capacitance range	C_N	1μF~100μF	
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		S0	
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
H	C	B	B	6	0	/	S	2	4	0	5	J	2	6	B	6	0	0	0	(	X	X	X	)

Series code

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

Table 2: Terminal Code

Digit 17		Digit 18		Digit 19			
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 19th digit shall default to 0.

Outline Dimensions

Unit: mm

250Va.c./300Va.c.(Class B/Class C)						
C_N(μF)	Tabs			Lead wires		
	D±1	H±1	Ordering Information	D±1	H±1	Ordering Information
2.5	25	43	HCBB60/E2255J12B**00	25	38	HCBB60/E2255J11B6**0
3.0	25	43	HCBB60/E2305J12B**00	25	38	HCBB60/E2305J11B6**0
4.0	25	43	HCBB60/E2405J12B**00	25	38	HCBB60/E2405J11B6**0
5.0	25	53	HCBB60/E2505J16B**00	25	48	HCBB60/E2505J13B6**0
5.5	25	53	HCBB60/E2555J16B**00	25	48	HCBB60/E2555J13B6**0
6.0	25	53	HCBB60/E2605J16B**00	25	48	HCBB60/E2605J13B6**0
6.5	25	53	HCBB60/E2655J16B**00	25	48	HCBB60/E2655J13B6**0
7.0	25	53	HCBB60/E2705J16B**00	25	48	HCBB60/E2705J13B6**0
7.5	25	53	HCBB60/E2755J16B**00	25	48	HCBB60/E2755J13B6**0
8.0	28	53	HCBB60/E2805J26B**00	28	48	HCBB60/E2805J23B6**0
10.0	28	53	HCBB60/E2106J26B**00	28	48	HCBB60/E2106J23B6**0
14.0	32	57	HCBB60/E2146J49B**00	32	53	HCBB60/E2146J46B6**0
16.0	35	70	HCBB60/E2166J5DB**00	35	62	HCBB60/E2166J5BB6**0
18.0	35	70	HCBB60/E2186J5DB**00	35	62	HCBB60/E2186J5BB6**0
20.0	35	70	HCBB60/E2206J5DB**00	35	62	HCBB60/E2206J5BB6**0
24.0	35	75	HCBB60/E2246J5EB**00	35	70	HCBB60/E2246J5DB6**0
25.0	35	75	HCBB60/E2256J5EB**00	35	70	HCBB60/E2256J5DB6**0
28.0	35	75	HCBB60/E2286J5EB**00	35	70	HCBB60/E2286J5DB6**0
30.0	40	70	HCBB60/E2306J6DB**00	41	65	HCBB60/E2306J7CB6**0
35.0	40	70	HCBB60/E2356J6DB**00	41	65	HCBB60/E2356J7CB6**0
40.0	41	80	HCBB60/E2406J7GB**00	41	76	HCBB60/E2406J7FB6**0
42.0	41	80	HCBB60/E2426J7GB**00	41	76	HCBB60/E2426J7FB6**0
45.0	41	80	HCBB60/E2456J7GB**00	41	76	HCBB60/E2456J7FB6**0
48.0	45	80	HCBB60/E2486J8GB**00	45	75	HCBB60/E2486J8EB6**0
50.0	45	80	HCBB60/E2506J8GB**00	45	75	HCBB60/E2506J8EB6**0
52.0	45	80	HCBB60/E2526J8GB**00	45	75	HCBB60/E2526J8EB6**0
55.0	45	80	HCBB60/E2556J8GB**00	45	75	HCBB60/E2556J8EB6**0
60.0	45	90	HCBB60/E2606J8JB**00	45	85	HCBB60/E2606J8HB6**0
62.0	45	90	HCBB60/E2626J8JB**00	45	85	HCBB60/E2626J8HB6**0
65.0	45	90	HCBB60/E2656J8JB**00	45	85	HCBB60/E2656J8HB6**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./300Va.c.(Class B/Class C)						
C_N(μF)	Tabs			Lead wires		
	D±1	H±1	Ordering Information	D±1	H±1	Ordering Information
70.0	45	90	HCBB60/E2706J8JB**00	45	85	HCBB60/E2706J8HB6**0
72.0	50	90	HCBB60/E2726J9JB**00	50	85	HCBB60/E2726J9HB6**0
80.0	50	95	HCBB60/E2806J9KB**00	50	90	HCBB60/E2806J9JB6**0
90.0	50	95	HCBB60/E2906J9KB**00	50	90	HCBB60/E2906J9JB6**0

450Va.c.(Class C)						
C_N(μF)	Tabs			Lead wires		
	D±1	H±1	Ordering Information	D±1	H±1	Ordering Information
2.0	25	43	HCBB60/S2205J12C**00	25	38	HCBB60/S2205J11C6**0
2.5	25	43	HCBB60/S2255J12C**00	25	38	HCBB60/S2255J11C6**0
3.0	25	53	HCBB60/S2305J16C**00	25	48	HCBB60/S2305J13C6**0
3.5	28	58	HCBB60/S2355J2AC**00	28	53	HCBB60/S2355J26C6**0
4.0	28	58	HCBB60/S2405J2AC**00	28	53	HCBB60/S2405J26C6**0
4.5	28	58	HCBB60/S2455J2AC**00	28	53	HCBB60/S2455J26C6**0
5.0	32	50	HCBB60/S2505J44C**00	32	50	HCBB60/S2505J44C6**0
5.5	32	50	HCBB60/S2555J44C**00	32	50	HCBB60/S2555J44C6**0
6.0	32	57	HCBB60/S2605J49C**00	32	53	HCBB60/S2605J46C6**0
6.5	32	57	HCBB60/S2655J49C**00	32	53	HCBB60/S2655J46C6**0
7.0	32	57	HCBB60/S2705J49C**00	32	53	HCBB60/S2705J46C6**0
8.0	32	57	HCBB60/S2805J49C**00	32	53	HCBB60/S2805J46C6**0
9.0	35	57	HCBB60/S2905J59C**00	32	53	HCBB60/S2905J46C6**0
10.0	35	57	HCBB60/S2106J59C**00	35	55	HCBB60/S2106J58C6**0
12.0	35	70	HCBB60/S2126J5DC**00	35	62	HCBB60/S2126J5BC6**0
12.5	35	70	HCBB60/S212EJ5DC**00	35	62	HCBB60/S212EJ5BC6**0
13.0	35	70	HCBB60/S2136J5DC**00	35	62	HCBB60/S2136J5BC6**0
14.0	35	70	HCBB60/S2146J5DC**00	35	62	HCBB60/S2146J5BC6**0
15.0	40	70	HCBB60/S2156J6DC**00	41	65	HCBB60/S2156J7CC6**0
16.0	40	70	HCBB60/S2166J6DC**00	41	65	HCBB60/S2166J7CC6**0
17.0	40	70	HCBB60/S2176J6DC**00	41	65	HCBB60/S2176J7CC6**0
18.0	40	70	HCBB60/S2186J6DC**00	41	65	HCBB60/S2186J7CC6**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 C)						
C_N(μF)	Tabs			Lead wires		
	D±1	H±1	Ordering Information	D±1	H±1	Ordering Information
20.0	41	76	HCBB60/S2206J7FC**00	40	70	HCBB60/S2206J6DC6**0
25.0	45	80	HCBB60/S2256J8GC**00	45	75	HCBB60/S2256J8EC6**0
30.0	45	80	HCBB60/S2306J8GC**00	45	75	HCBB60/S2306J8EC6**0
35.0	45	90	HCBB60/S2356J8JC**00	45	85	HCBB60/S2356J8HC6**0
40.0	50	100	HCBB60/S2406J9LC**00	50	95	HCBB60/S2406J9KC6**0
45.0	50	100	HCBB60/S2456J9LC**00	50	95	HCBB60/S2456J9KC6**0
50.0	50	100	HCBB60/S2506J9LC**00	50	95	HCBB60/S2506J9KC6**0
55.0	55	90	HCBB60/S2556JAJC**00	55	85	HCBB60/S2556JAHC6**0
60.0	55	100	HCBB60/S2605JALC**00	55	95	HCBB60/S2605JAKC6**0

450Va.c.(Calss B)						
C_N(μF)	Tabs			Lead wires		
	D±1	H±1	Ordering Information	D±1	H±1	Ordering Information
2.0	25	43	HCBB60/S2205J12B**00	25	38	HCBB60/S2205J11B6**0
2.5	25	43	HCBB60/S2255J12B**00	25	38	HCBB60/S2255J11B6**0
3.0	25	53	HCBB60/S2305J16B**00	25	48	HCBB60/S2305J13B6**0
3.5	28	58	HCBB60/S2355J2AB**00	28	53	HCBB60/S2355J26B6**0
4.0	28	58	HCBB60/S2405J2AB**00	28	53	HCBB60/S2405J26B6**0
4.5	28	58	HCBB60/S2455J2AB**00	28	53	HCBB60/S2455J26B6**0
5.0	32	50	HCBB60/S2505J44B**00	32	50	HCBB60/S2505J44B6**0
5.5	32	57	HCBB60/S2555J49B**00	32	53	HCBB60/S2555J46B6**0
6.0	32	57	HCBB60/S2605J49B**00	32	53	HCBB60/S2605J46B6**0
6.5	32	57	HCBB60/S2655J49B**00	32	53	HCBB60/S2655J46B6**0
7.0	32	57	HCBB60/S2705J49B**00	32	53	HCBB60/S2705J46B6**0
8.0	35	57	HCBB60/S2805J59B**00	35	55	HCBB60/S2805J58B6**0
9.0	35	57	HCBB60/S2905J59B**00	35	55	HCBB60/S2905J58B6**0
10.0	35	57	HCBB60/S2106J59B**00	35	55	HCBB60/S2106J58B6**0
12.0	35	70	HCBB60/S2126J5DB**00	35	62	HCBB60/S2126J5BB6**0
12.5	35	70	HCBB60/S212EJ5DB**00	35	62	HCBB60/S212EJ5BB6**0
13.0	40	70	HCBB60/S2136J6DB**00	41	65	HCBB60/S2136J7CB6**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.(Calss B)						
C_N(μF)	Tabs			Lead wires		
	D±1	H±1	Ordering Information	D±1	H±1	Ordering Information
14.0	40	70	HCBB60/S2146J6DB**00	41	65	HCBB60/S2146J7CB6**0
15.0	40	70	HCBB60/S2156J6DB**00	41	65	HCBB60/S2156J7CB6**0
16.0	40	70	HCBB60/S2166J6DB**00	41	65	HCBB60/S2166J7CB6**0
17.0	40	70	HCBB60/S2176J6DB**00	41	65	HCBB60/S2176J7CB6**0
18.0	41	76	HCBB60/S2186J7FB**00	40	70	HCBB60/S2186J6DB6**0
20.0	41	76	HCBB60/S2206J7FB**00	40	70	HCBB60/S2206J6DB6**0
25.0	45	80	HCBB60/S2256J8GB**00	45	75	HCBB60/S2256J8EB6**0
30.0	45	90	HCBB60/S2306J8JB**00	45	85	HCBB60/S2306J8HB6**0
35.0	45	90	HCBB60/S2356J8JB**00	45	85	HCBB60/S2356J8HB6**0
40.0	50	100	HCBB60/S2406J9LB**00	50	95	HCBB60/S2406J9KB6**0
45.0	50	100	HCBB60/S2456J9LB**00	50	95	HCBB60/S2456J9KB6**0
50.0	50	100	HCBB60/S2506J9LB**00	50	95	HCBB60/S2506J9KB6**0
55.0	55	100	HCBB60/S2556JALB**00	55	95	HCBB60/S2556JAKB6**0
60.0	55	100	HCBB60/S2606JALB**00	55	95	HCBB60/S2606JAKB6**0

500Va.c.(Calss C)						
C_N(μF)	Tabs			Lead wires		
	D±1	H±1	Ordering Information	D±1	H±1	Ordering Information
1.5	25	43	HCBB60/H2155J12C**00	25	38	HCBB60/H2155J11C6**0
2.0	25	43	HCBB60/H2205J12C**00	25	38	HCBB60/H2205J11C6**0
2.5	30	43	HCBB60/H2255J32C**00	30	38	HCBB60/H2255J31C6**0
3.0	30	43	HCBB60/H2305J32C**00	30	38	HCBB60/H2305J31C6**0
3.5	30	43	HCBB60/H2355J32C**00	30	38	HCBB60/H2355J31C6**0
4.0	30	55	HCBB60/H2405J38C**00	30	48	HCBB60/H2405J33C6**0
4.5	30	55	HCBB60/H2455J38C**00	30	48	HCBB60/H2455J33C6**0
5.0	30	57	HCBB60/H2505J39C**00	30	55	HCBB60/H2505J38C6**0
5.5	30	57	HCBB60/H2555J39C**00	30	55	HCBB60/H2555J38C6**0
6.0	35	57	HCBB60/H2605J59C**00	35	55	HCBB60/H2605J58C6**0
6.5	35	57	HCBB60/H2655J59C**00	35	55	HCBB60/H2655J58C6**0
7.0	35	57	HCBB60/H2705J59C**00	35	55	HCBB60/H2705J58C6**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.(Calss C)						
C_N(μF)	Tabs			Lead wires		
	D±1	H±1	Ordering Information	D±1	H±1	Ordering Information
7.5	35	57	HCBB60/H2755J59C**00	35	55	HCBB60/H2755J58C6**0
8.0	35	57	HCBB60/H2805J59C**00	35	55	HCBB60/H2805J58C6**0
9.0	35	70	HCBB60/H2905J5DC**00	35	65	HCBB60/H2905J5CC6**0
10.0	35	70	HCBB60/H2106J5DC**00	35	65	HCBB60/H2106J5CC6**0
12.0	40	70	HCBB60/H2126J6DC**00	41	65	HCBB60/H2126J7CC6**0
12.5	40	70	HCBB60/H212EJ6DC**00	41	65	HCBB60/H212EJ7CC6**0
13.0	40	70	HCBB60/H2136J6DC**00	41	65	HCBB60/H2136J7CC6**0
14.0	40	70	HCBB60/H2146J6DC**00	41	65	HCBB60/H2146J7CC6**0
15.0	40	70	HCBB60/H2156J6DC**00	41	65	HCBB60/H2156J7CC6**0
16.0	45	72	HCBB60/H2166J8QC**00	45	72	HCBB60/H2166J8QC6**0
18.0	45	72	HCBB60/H2186J8QC**00	45	72	HCBB60/H2186J8QC6**0
20.0	45	90	HCBB60/H2206J8JC**00	45	85	HCBB60/H2206J8HC6**0
25.0	45	90	HCBB60/H2256J8JC**00	45	85	HCBB60/H2256J8HC6**0
30.0	50	90	HCBB60/H2306J9JC**00	50	85	HCBB60/H2306J9HC6**0
35.0	50	90	HCBB60/H2356J9JC**00	50	85	HCBB60/H2356J9HC6**0
40.0	50	100	HCBB60/H2406J9LC**00	50	95	HCBB60/H2406J9KC6**0
45.0	55	100	HCBB60/H2456JALC**00	55	95	HCBB60/H2456JAKC6**0
50.0	55	100	HCBB60/H2506JALC**00	55	95	HCBB60/H2506JAKC6**0
55.0	55	120	HCBB60/H2556JAPC**00	55	110	HCBB60/H2556JAMC6**0
60.0	55	120	HCBB60/H2606JAPC**00	55	110	HCBB60/H2606JAMC6**0

500Va.c.(Calss B)						
C_N(μF)	Tabs			Lead wires		
	D±1	H±1	Ordering Information	D±1	H±1	Ordering Information
1.5	25	43	HCBB60/H2155J12B**00	25	38	HCBB60/H2155J11B6**0
2.0	25	43	HCBB60/H2205J12B**00	25	38	HCBB60/H2205J11B6**0
2.5	30	43	HCBB60/H2255J32B**00	30	38	HCBB60/H2255J31B6**0
3.0	30	43	HCBB60/H2305J32B**00	30	38	HCBB60/H2305J31B6**0
3.5	30	43	HCBB60/H2355J32B**00	30	38	HCBB60/H2355J31B6**0
4.0	30	55	HCBB60/H2405J38B**00	30	48	HCBB60/H2405J33B6**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.(Calss B)						
C_N(μF)	Tabs			Lead wires		
	D±1	H±1	Ordering Information	D±1	H±1	Ordering Information
4.5	30	55	HCBB60/H2455J38B**00	30	48	HCBB60/H2455J33B6**0
5.0	30	57	HCBB60/H2505J39B**00	30	55	HCBB60/H2505J38B6**0
5.5	35	57	HCBB60/H2555J59B**00	35	55	HCBB60/H2555J58B6**0
6.0	35	57	HCBB60/H2605J59B**00	35	55	HCBB60/H2605J58B6**0
6.5	35	57	HCBB60/H2655J59B**00	35	55	HCBB60/H2655J58B6**0
7.0	35	57	HCBB60/H2705J59B**00	35	55	HCBB60/H2705J58B6**0
7.5	35	70	HCBB60/H2755J5DB**00	35	65	HCBB60/H2755J5CB6**0
8.0	35	70	HCBB60/H2805J5DB**00	35	65	HCBB60/H2805J5CB6**0
9.0	35	70	HCBB60/H2905J5DB**00	35	65	HCBB60/H2905J5CB6**0
10.0	35	70	HCBB60/H2106J5DB**00	35	65	HCBB60/H2106J5CB6**0
12.0	40	70	HCBB60/H2126J6DB**00	41	65	HCBB60/H2126J7CB6**0
12.5	40	70	HCBB60/H212EJ6DB**00	41	65	HCBB60/H212EJ7CB6**0
13.0	40	70	HCBB60/H2136J6DB**00	41	65	HCBB60/H2136J7CB6**0
14.0	45	72	HCBB60/H2146J8QB**00	45	65	HCBB60/H2146J8CB6**0
15.0	45	72	HCBB60/H2156J8QB**00	45	65	HCBB60/H2156J8CB6**0
16.0	45	72	HCBB60/H2166J8QB**00	45	65	HCBB60/H2166J8CB6**0
18.0	45	72	HCBB60/H2186J8QB**00	45	65	HCBB60/H2186J8CB6**0
20.0	45	90	HCBB60/H2206J8JB**00	45	85	HCBB60/H2206J8HB6**0
25.0	45	90	HCBB60/H2256J8JB**00	45	85	HCBB60/H2256J8HB6**0
30.0	50	90	HCBB60/H2306J9JB**00	50	85	HCBB60/H2306J9HB6**0
35.0	50	90	HCBB60/H2356J9JB**00	50	85	HCBB60/H2356J9HB6**0
40.0	55	100	HCBB60/H2406JALB**00	55	95	HCBB60/H2406JAKB6**0
45.0	55	100	HCBB60/H2456JALB**00	55	95	HCBB60/H2456JAKB6**0
50.0	55	100	HCBB60/H2506JALB**00	55	95	HCBB60/H2506JAKB6**0
55.0	55	120	HCBB60/H2556JAPB**00	55	110	HCBB60/H2556JAMB6**0
60.0	55	120	HCBB60/H2606JAPB**00	55	110	HCBB60/H2606JAMB6**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.