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# MOTOR COMPONENTS AND SOLUTION

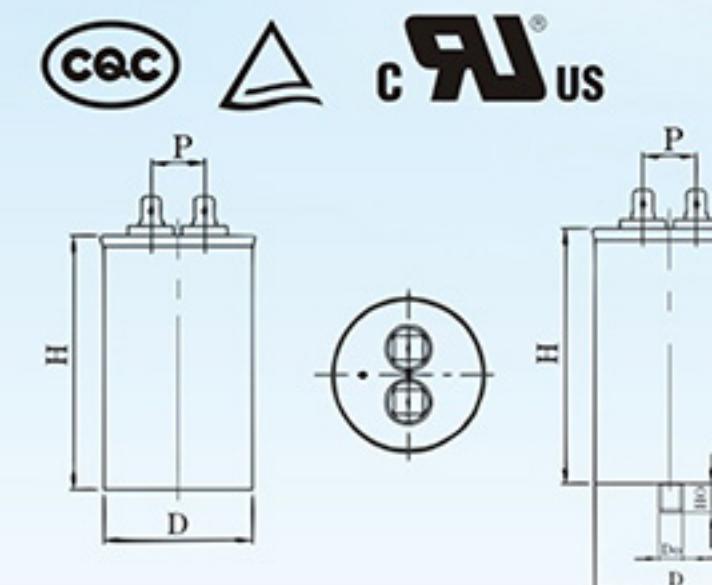
— Make Motor, Turn To NIDE, Everything Will Be Easy —

Ningbo Nide International Co., Ltd

<https://nide-international.com/>

CBB65交流电动机电容器(圆柱形、铝外壳、防爆)

CBB65 AC Motor Capacitor (Column, Aluminum case, Explosion-proofed)



Outline Drawing 外形图



Features 特点

- 适用于频率为50Hz/60Hz交流电源供电的单相电动机起动和运转
- 有自愈性
- 高稳定性，可靠性
- 防爆设计，更安全
- 圆形电容器，可提供椭圆形电容器
- 单式电容器，可提供复合电容器

- Widely applied to the starting and running of AC single-phase motors at 50Hz/60Hz frequency power.
- Self-healing property
- Good stability and reliability
- Safer with Explosion-proofed design
- Round capacitor, can be provided oval capacitor
- Single capacitor, can be provided double capacitor.

Specifications 技术要求

引用标准 Reference standards	GB/T 3667.1( IEC60252-1)
气候类别 Climatic category	40 / 70 / 21、40 / 85 / 21
运行等级 Class of operation	Class B (10000h) Class C (3000h)
安全防护等级 Class of safety protection	S2
电压范围 Voltage range	250VAC、370VAC、440VAC、450VAC
容量范围 Capacitance range	2 ~ 100 $\mu$ F
电容量偏差 Capacitance tolerance	$\pm$ 5%、 $\pm$ 10%、 $\pm$ 15%
损耗角正切 Dissipation factor	$20 \times 10^{-4}$ (100Hz, 20°C)
端子间测试电压 Test voltage terminal to terminal UTT	2 Un for 2 seconds
端子与外壳间测试电压 Test voltage terminal to case UTC	(2Un+1000)VAC or 2000VAC- 50Hz for 60 seconds
绝缘电阻 Insulation Resistance	$\geq 3000$ s (100Hz, 20°C, 1min)



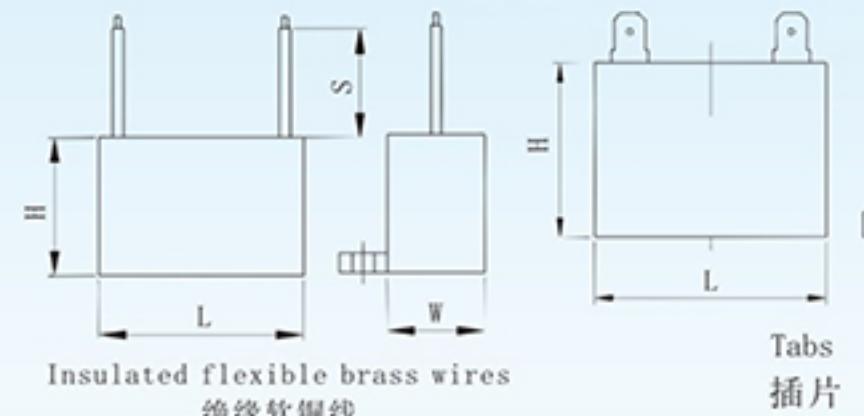
## Dimensions(mm) 外形尺寸

序号 NO.	产品规格 production specifications	端子 terminal	外壳尺寸 size
1	CBB65-450VAC 5 μF ~ 9 μF	2×4或2×2插片	Φ 40 × 60
2	CBB65-450VAC-10 μF	2×4或2×2插片	Φ 40 × 60
3	CBB65-450VAC-12.5 μF	2×4或2×2插片	Φ 40 × 70
4	CBB65-450VAC-15 μF	2×4或2×2插片	Φ 45 × 70
5	CBB65-450VAC-20 μF	2×4或2×2插片	Φ 50 × 75
6	CBB65-450VAC-25 μF	2×4或2×2插片	Φ 50 × 85
7	CBB65-450VAC-30 μF	2×4或2×2插片	Φ 50 × 100
8	CBB65-450VAC-35 μF	2×4或2×2插片	Φ 50 × 100
9	CBB65-450VAC-40 μF	2×4或2×2插片	Φ 50 × 100
10	CBB65-450VAC-45 μF	2×4或2×2插片	Φ 50 × 100
11	CBB65-450VAC-50 μF	2×4或2×2插片	Φ 50 × 125
12	CBB65-450VAC-55 μF	2×4或2×2插片	Φ 50 × 125
13	CBB65-450VAC-60 μF	2×4或2×2插片	Φ 50 × 125
14	CBB65-450VAC-65 μF	2×4或2×2插片	Φ 55 × 125
15	CBB65-450VAC-70 μF	2×4或2×2插片	Φ 55 × 125
16	CBB65-450VAC-80 μF	2×4或2×2插片	Φ 60 × 125
17	CBB65-450VAC-90 μF	2×4或2×2插片	Φ 60 × 125
18	CBB65-450VAC-100 μF	2×4或2×2插片	Φ 63.5 × 125

注：表中以外的规格、尺寸和端子，可以商谈。

Note: Other specifications, size and terminal outside table are negotiable.

CBB61交流电动机电容器(塑料外壳)  
CBB61 AC Motor Capacitor(plastic case)



## Outline Drawing 外形图



## Features 特点

- 适用于频率为50Hz/60Hz交流电源供电的单相电动机起动和运转
- 有自愈性
- 高稳定性，可靠性

- Widely applied to the starting and running of AC single-phase motors at 50Hz/60Hz frequency power.
- Self-healing property
- Good stability and reliability

## Specifications 技术要求

引用标准 Reference standards	GB/T 3667.1 ( IEC60252-1 )
气候类别 Climatic category	40 / 70 / 21、40 / 85 / 21
运行等级 Class of operation	Class B (10000h) Class C (3000h)
安全防护等级 Class of safety protection	S0 / S3
电压范围 Voltage range	250VAC、370VAC、440VAC、450VAC
容量范围 Capacitance range	1 ~ 35 μF
电容量偏差 Capacitance tolerance	± 5% 、 ± 10% 、 ± 15%
损耗角正切 Dissipation factor	$20 \times 10^{-4}$ ( 100Hz, 20°C )
端子间测试电压 Test voltage terminal to terminal $U_{TT}$	2Un for 2 seconds
端子与外壳间测试电压 Test voltage terminal to case $U_{TC}$	( 2Un+1000 ) VAC or 2000VAC- 50Hz for 60 seconds
RC值	≥ 3000s ( 100Hz, 20°C, 1min )



## Dimensions(mm) 外形尺寸

规格 specifications	450VAC	250VAC
1 μ F	37 × 13 × 23	37 × 13 × 23
1.2 μ F	37 × 13 × 23	37 × 13 × 23
1.5 μ F	37 × 14 × 25	37 × 13 × 23
2 μ F	37 × 16 × 28	37 × 13 × 23
2.5 μ F	37 × 18 × 28	37 × 14 × 25
3 μ F	47 × 18 × 29	37 × 14 × 25
3.5 μ F	47 × 18 × 34	37 × 16 × 28
4 μ F	47 × 18 × 34	37 × 16 × 28
4.5 μ F	47 × 22 × 34	37 × 16 × 28
5 μ F	47 × 22 × 34	37 × 18 × 28
5.5 μ F	47 × 22 × 34	37 × 18 × 28
6 μ F	47 × 22 × 34	47 × 18 × 29
6.5 μ F	48 × 26 × 38	47 × 18 × 29
7 μ F	48 × 26 × 38	47 × 18 × 29
8 μ F	48 × 26 × 38	47 × 18 × 34
10 μ F	58 × 26 × 44	47 × 22 × 34
12 μ F	58 × 26 × 44	47 × 22 × 34
15 μ F	58 × 26 × 44	47 × 22 × 34
16 μ F	58 × 26 × 44	48 × 26 × 38
20 μ F	58 × 35 × 49	48 × 26 × 38
25 μ F	58 × 35 × 49	48 × 26 × 38
30 μ F	商定negotiable	58 × 26 × 44
35 μ F	商定negotiable	58 × 26 × 44

注：表中以外的规格、尺寸和端子，可以商谈。

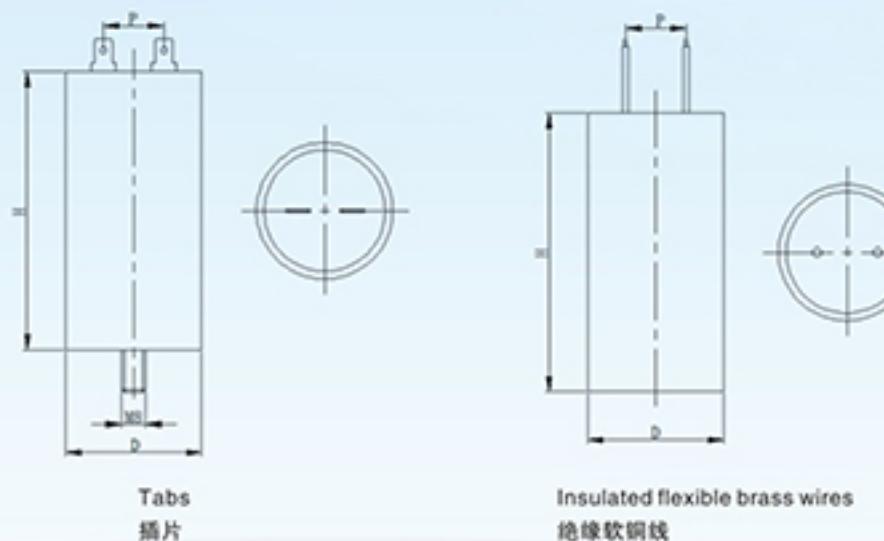
Note: Other specifications, size and terminal outside table are negotiable.

CBB60交流电动机电容器(圆柱形、塑料外壳)

CBB60 AC Motor Capacitor(column, plastic case)



## Outline Drawing 外形图



- 适用于频率为50Hz/60Hz交流电源供电的单相电动机起动和运转
- 有自愈性
- 高稳定性，可靠性

- Widely applied to the starting and running of AC single-phase motors at 50Hz/60Hz frequency power.
- Self-healing property
- Good stability and reliability

## Specifications 技术要求

引用标准Reference standards	GB/T3667.1 ( IEC60252-1 )
气候类别Climatic category	40/70/21、40/85/21
运行等级Class of operation	Class B(10000h) Class C(3000h)
安全防护等级Class of safety protection	S0/S3
电压范围Voltage range	250VAC、370VAC、440VAC、450VAC
容量范围Capacitance range	1 ~ 60 μ F
电容量偏差Capacitance tolerance	± 5%、± 10%、± 15%
损耗角正切Dissipation factor	$20 \times 10^{-4}$ (100Hz, 20°C)
端子间测试电压 Test voltage terminal to terminal $U_{TT}$	2Un for 2 seconds
端子与外壳间测试电压 Test voltage terminal to case $U_{TC}$	(2Un+1000)VAC or 2000VAC-50Hz for 60 seconds
RC值	≥3000s(100Hz, 20°C, 1min)







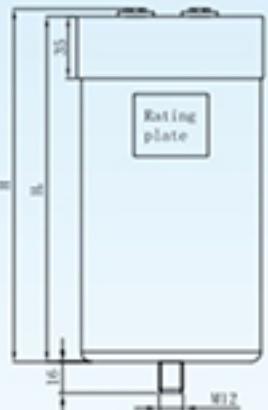
## 光伏风电圆柱直流滤波电容器

DC-LINK Capacitor (Photovoltaic wind power cylinder)

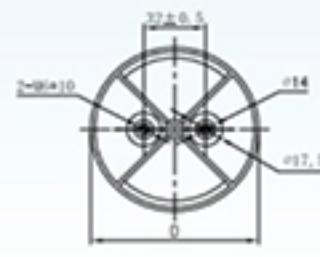
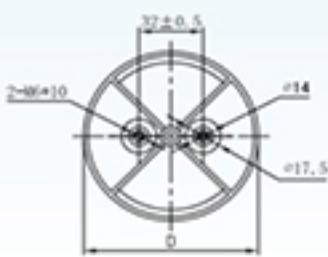
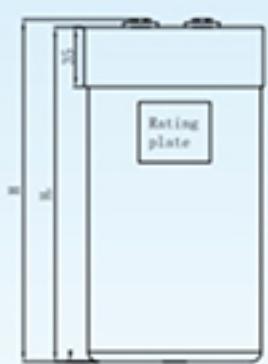


## Outline Drawing 外形图

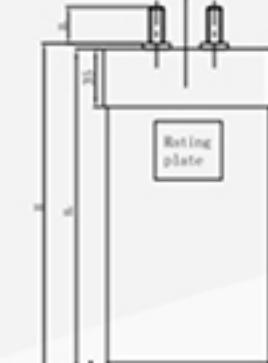
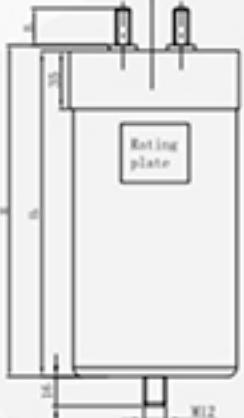
Drawing A:



Drawing B:



Drawing C:



- 应用于直流滤波电路中，可替代电解电容
- 等效串联电阻小，能承受较大的纹波电流
- 自感小
- 有自愈性
- 寿命长
- 铝壳，树脂灌封

- Used in DC-Link filter circuits, can replace electrolytic capacitor
- Low ESR, high ripple current handling capabilities
- Low inductance
- Self-healing property
- Long lifetime
- Aluminum case, resin sealing

## Features 特点

## Applications 应用场合

- 风能发电、太阳能发电用或其它工业用变频器
- 直流支撑滤波电路

- Used in wind power, solar power or other industrial frequency converters
- Used in DC support filter circuit

## Technical Specification 技术参数

Cn (μF)	Rs (mΩ)	Imax (A)	↑ (KA)	WN (Ws)	Ls (nH)	D x L (mm)	Drawing	m (Kg)	Order No.
Un 700VDC Us 1050V Ur 200V Ut-t 1050 VDC Ut-c 3000 VAC									
370	2.1	40	2.0	86	50	Φ76 x130	A, B, C, D	0.7	AG.H13 0K70-3706D76
440	1.8	40	2.3	103	50	Φ76 x145	A, B, C, D	0.8	AG.H14 0K70-4406D76
470	1.7	55	2.5	110	40	Φ86x130	A, B, C, D	0.9	AG.H13 0K70-4706D86
560	1.4	40	3.0	132	60	Φ76 x181	A, B, C, D	1.0	AG.H18 0K70-5606D76
590	1.3	55	3.1	137	40	Φ86x145	A, B, C, D	1.0	AG.H14 0K70-5906D86
730	1.1	55	3.9	171	50	Φ86x181	A, B, C, D	1.2	AG.H18 0K70-7306D86
1030	1.0	55	5.1	252	70	Φ86x225	A, B, C, D	1.5	AG.H22 0K70-1037D86





CBB15 CBB16 逆变焊机直流滤波电容器  
CBB15 CBB16 Welding inverter DC filter capacitor

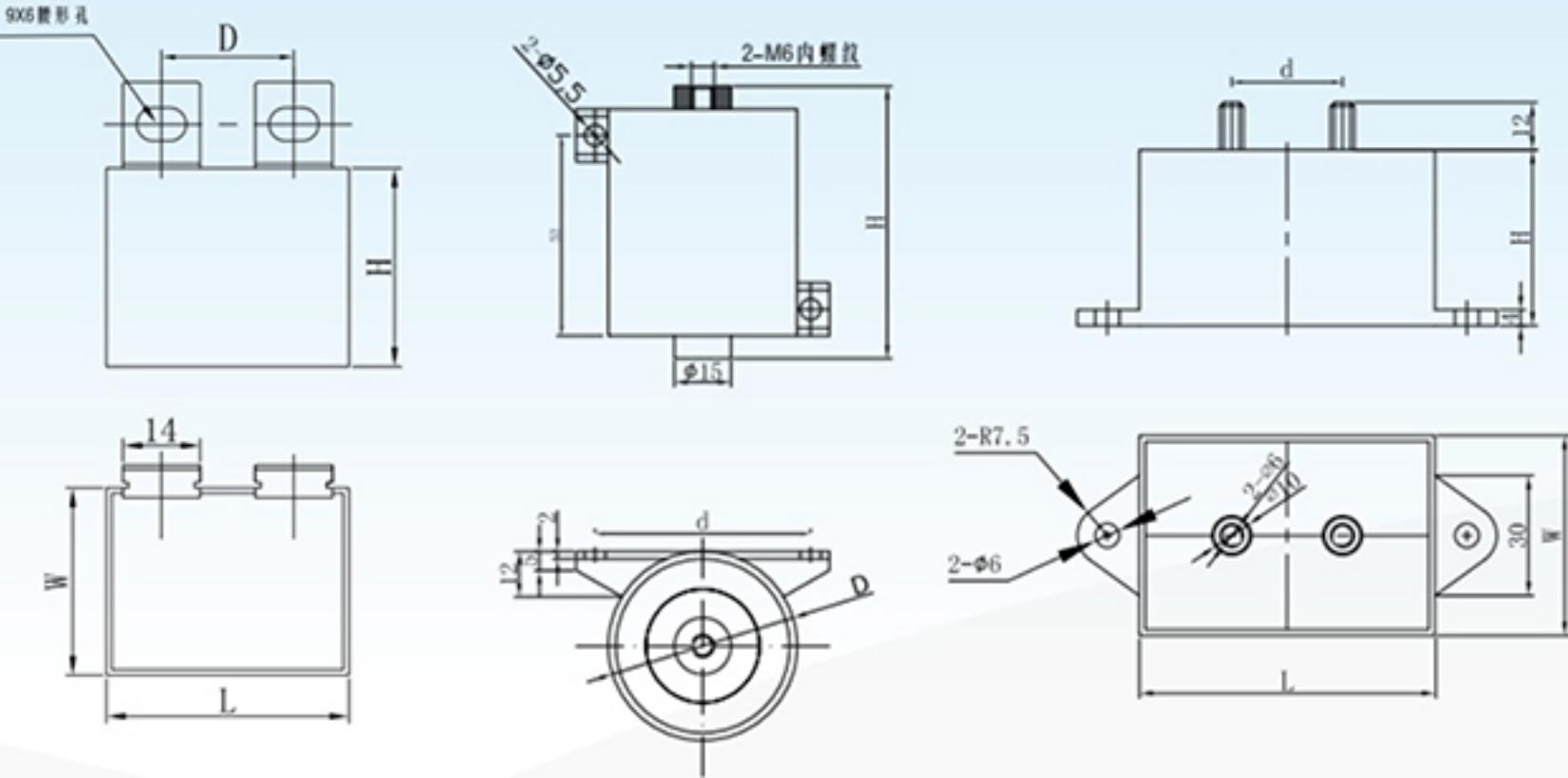


Features 特点

- 应用于大功率高频开关电源中高频脉冲电流吸收、滤波
- 等效串联电阻小，能承受较大的纹波电流和大电流冲击
- 自感小，高频特性好
- 有自愈性
- 寿命长
- 塑料外壳，树脂灌封

- Used to absorb or filter high-frequency impulse in high-power high-frequency switch.
- Low ESR, high ripple current and large current shock handling capabilities
- Low  $L_s$ , good high frequency characteristics
- Self-healing property
- Long lifetime
- Plastic case, resin sealing

Outline Drawing 外形图



- 用于高频开关电源中滤波、吸收、隔直、谐振电路
- 用于EMI电路，如高频逆变焊机、UPS、电动汽车等

Applications 应用场合

- Used in filter, absorption, blocking, resonance circuits of high-frequency switching power supply.
- Widely applied to EMI, such as high frequency welding inverter, UPS, electric vehicles, etc..



Technical Specification 技术参数

Cn(μF)	Un(V)	Imax(A)	dv/dt (V/μs)	Ls(nH)	U t-t(V)	U t-c(V)	$\tg \delta$ (20°C, 10 kHz)	Size(mm)
CBB15(SFPEC)								
0.47	1200VDC	7	1200	≤ 10	1800V,10S	3000VAC,60S	≤ 10 × 10⁻⁴	46 × 18 × 34
1	1200VDC	15	1200	≤ 10	1800V,10S	3000VAC,60S	≤ 10 × 10⁻⁴	46 × 34 × 36
2	1200VDC	25	1200	≤ 10	1800V,10S	3000VAC,60S	≤ 10 × 10⁻⁴	50 × 46 × 50
3	1200VDC	35	1200	≤ 10	1800V,10S	3000VAC,60S	≤ 10 × 10⁻⁴	50 × 46 × 50
30	1250VDC	30	200	≤ 10	1800V,10S	3000VAC,60S	≤ 100 × 10⁻⁴	74 × 46 × 49
40	1250VDC	40	200	≤ 10	1800V,10S	3000VAC,60S	≤ 100 × 10⁻⁴	74 × 46 × 49
CBB16(SFPEC)								
2	500VAC	25	1200	≤ 10	1800V,10S	3000VAC,60S	≤ 10 × 10⁻⁴	Φ 63 × 49
3	500VAC	35	1200	≤ 10	1800V,10S	3000VAC,60S	≤ 10 × 10⁻⁴	Φ 63 × 49
4	500VAC	50	1200	≤ 10	1800V,10S	3000VAC,60S	≤ 10 × 10⁻⁴	Φ 63 × 49
5	500VAC	60	1300	≤ 10	1800V,10S	3000VAC,60S	≤ 10 × 10⁻⁴	Φ 63 × 49
6	500VAC	80	1400	≤ 10	1800V,10S	3000VAC,60S	≤ 10 × 10⁻⁴	Φ 76 × 49
10	1400VDC	6	200	≤ 10	1800V,10S	3000VAC,60S	≤ 30 × 10⁻⁴	Φ 50 × 60
20	1400VDC	10	200	≤ 10	1800V,10S	3000VAC,60S	≤ 30 × 10⁻⁴	Φ 50 × 60
50	350VDC	14	200	≤ 10	600V,10S	3000VAC,60S	≤ 30 × 10⁻⁴	Φ 50 × 60
40	800VDC	10	200	≤ 10	1200V,10S	3000VAC,60S	≤ 30 × 10⁻⁴	Φ 40 × 60
60	800VDC	15	200	≤ 10	1200V,10S	3000VAC,60S	≤ 30 × 10⁻⁴	Φ 50 × 60
100	800VDC	28	200	≤ 10	1200V,10S	3000VAC,60S	≤ 30 × 10⁻⁴	Φ 62 × 60
200	800VDC	26	200	≤ 10	1200V,10S	3000VAC,60S	≤ 30 × 10⁻⁴	Φ 60 × 110

注：表中以外的规格和尺寸，可以商谈。  
Note: Other specifications and size outside table are negotiable.

