



DC brushless motor for chiller system's Fan Coil Unit (FCU)

Immediately
saves more
than **40%** of
energy and saves
money visibly !

EC (Electronically Commutated)
Currently the most efficient motor
drive technology is also It is called
"DC brushless DC motor (BLDC)".

Protect the Earth

and promote the use of renewable energy.

It directly replaces the original AC motor, which is the best choice
for energy-saving replacement!

1. The three-speed input signal LED light indicates visibility.
2. The static pressure can be adjusted in six levels of fine-tuning settings.

Can be combined with the company's IQ-500 series products to do DDC digital
network joint control (Direct Digital Control)

Four Key Features

- ▶ **1. The simplest replacement
for old and new :** Can directly replace compatible AC
motors, suitable for maintenance and
repair.
- ▶ **2. Old temperature control
system can still be used :** The original control system does not
need to be changed, and the original
AC thermostat can still be used.
- ▶ **3. Three speeds meet high
and low static pressure :** 3-speed air volume (six-speed adjustable,
to meet high and low pressure).
- ▶ **4. Made in Taiwan (MIT) :
the pride of Taiwan !** EC motors are low-temperature and
energy-saving, saving more than 40%
of electricity.



Static pressure can
be fine-tuned steplessly



Dual Shaft DC Brushless Motor
FCU101-12311



Single Shaft DC Brushless Motor
FCU101-60311

- Operating environment
temperature : -20 ~ 60 degrees
- Storage environment
temperature : -25 ~ 80 degrees

Control method ▶▶

- Speed switching : There are three speeds that can be used for switching control.
- Signal input pin :
 - (1) H_SPEED to COM
 - (2) M_SPEED to COM
 - (3) L_SPEED to COM
- Input signal format : AC 90~264V
- Input signal frequency range : 50~63 Hz

Three-stage speed tachometer			
speed selection static pressure mode	H	M	L
RPM	1050 (800~1150)	800 (600~950)	420 (300~700)

Air volume change 30% - 115%

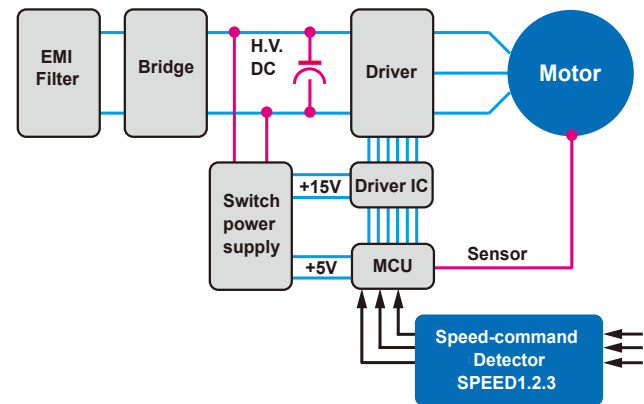
Specification ▶▶

- Enter feature specifications :
 - (1) Dual Shaft - BAA02043 : 120W / 220V or 110V
 - (2) Single Shaft - BAA02045 : 60W / 220V or 110V
- Motor Shaft Height : 105mm
- The motor is non-sensing element type, and has an overcurrent protection device, and the motor is Class B insulation.
- The motor drive technology is sine wave control technology, and the motor drive frequency is 20KHZ.
- Scope of application : This product contains a driver and a brushless DC motor, which is suitable for DC motor applications.

Item	Minimum	Nominal	Maximum	Unit
Input voltage	198	220	264	VAC
Input frequency	50~63			Hz
Input Current	Dual Shaft <2	Single Shaft <1		A
Input power	Dual Shaft <160	Single Shaft <90		W
Range of rotation	350~1050			r.p.m
Operating temperature	-20~50			°C
Dielectric strength	DC500V/100MΩ↑			MΩ

- The diameter of the wind wheel of the FCU fan matches the height (H) of the motor shaft :
 - φ160 mm = H105 mm (Taiwan routine)
 - φ150 mm = H100 mm
 - φ140 mm = H95 mm
 - φ130 mm = H90 mm

System Architecture Diagram ▶▶



Product Wiring Schematic ▶▶

