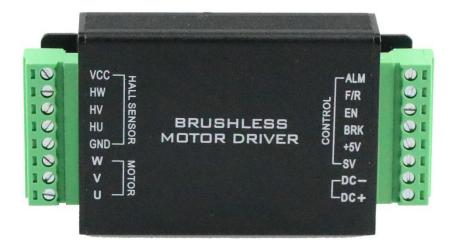
BLD-70 Brushless DC motor drives



Overview:

- 1. The speed range is wide, 0-20000RPM.
- 2. The driver itself has low consumption, high efficiency and low temperature rising, so it is small in size and easy to install.
- 3. Enable, direction, brake input signal.
- 4. A variety of perfect protection functions. Current limiting protection function to prevent motor stall damage.
- 5. Supports different applications and can customize the dynamic response of the driver.

Electrical parameters:

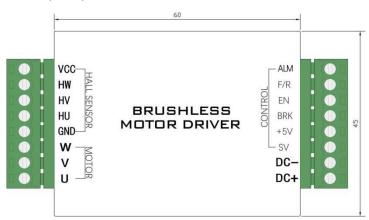
Parameter	Min	Rated	Max	Unit
DC input voltage	8	12	24	VDC
Driving current output		3		A
Low voltage protection		10		
Over voltage protection		30		

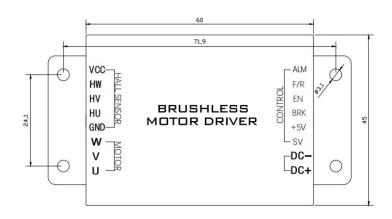
Speed	1500	3000	30000	rpm
Speed control mode		nalog input, PWM inpu z-20KHz)		frequency
Over current protection	Over current protection occurs when the current exceeds the set value of the working current and lasts for a set time			
Over voltage protection	Over volta voltage exc	nge protect ceeds 30V	ion occurs	when the
Under voltage protection Under voltage voltage is lower		O 1		when the
Hall abnormal	Hall signal	abnormal v	alue	

Environment paramaters:

Cooling	Natural cooling or Forced cooling
Using Occasion	Avoid dust, oil and corrosive gas
Using temperature	10°C-+50°C
Environment Humidity	90%RH (No condensation)
Vibration	5.7m/S2max
Storage temperature	0°C-+50°C

Installation size: (mm)





Connection definitions:

Flag definitions				
DC + / DC-	DC power entry (DC8V-DC24V)			
U, V, W	motor leads			
Hu, Hv, Hw	Hall signal			
VCC	Hall power +			
SV	External speed control			
F / R	directions: Leave or high forward and low reverse			
EN	Enable signal: High level to stop, low level to run			
BRK	fast brakes: High / Low stop / run			
ALARM	Alarm signal output terminal (the ALM port will be pulled down after the alarm)			

Function selection setting and operation:

Start and stop(EN):

When the drive is powered on, the motor runs by itself.

Connect the EN terminal and the DC- terminal to control the stop of the motor. (The control logic level can be reversed by setting the upper computer).

By connecting a switch between DC- and EN or using a PLC to control its on-off, the switch between start and stop of the motor can be realized.

Quick stop (BRK):

When the drive is powered on, the motor runs by itself.

Connecting the BRK terminal and the DC- terminal can control the motor to brake and stop quickly. (The control logic level can be reversed by setting the upper computer).

By connecting a switch between DC- and BRK or using PLC to control its on-off, the switch between motor start and brake can be realized.

Direction control(DIR):

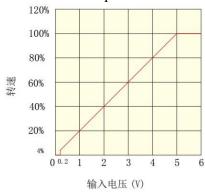
When the driver is powered on, the motor runs automatically according to the DIR setting.

Connect the DIR terminal and the DC- terminal to control the motor commutation. (The control logic level can be reversed by setting the upper computer).

The direction of the motor can be switched by connecting a switch between DC- and DIR or using a PLC to control its on-off.

Use external analog signal to adjust speed DC0-5V:

The relationship between analog signal voltage and motor speed (no load)



When the input voltage is about 0.2V, the motor speed is 4% of the maximum speed; when the input voltage is about 5V, the motor speed is the maximum. The maximum speed value depends on the motor specifications and the power supply voltage.

Alarm handing:

Red light indication	Status description	Solove method
Red light	Over voltage alarm	Please check the bus voltage
flashes 2 times		
Red light	Power tube	Determine if the model is correct, choose bigger
flashes 3 times	Over current alarm	driver
Red light	Over current alarm	Determine if the model is correct, choose bigger
flashes 4 times		driver
Red light	Under voltage alarm	Check the power supply voltage and check if the
flashes 5 times		power supply meets the condition of 1.5 times the
		motor power.
Red light	Hall alarm	Please check if the motor wiring is secure
flashes 6 times		
Red light	Blocking alarm	Please determine if the motor is overloaded
flashes 7 times		
Red light	Two or more alarms	Common conditions are only for Hall and stall
flashes 8 times		alarm. When the motor cannot be adjusted, please
		check all above status.