

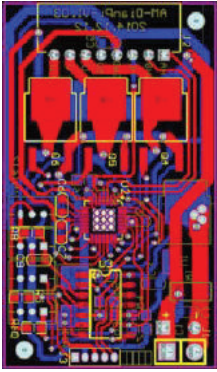


For Electric Screwdriver Brushless DC Motor Controller

ASSUN MOTOR

2015 edition. Specifications are subject to change without notice.

PRODUCT FEATURES



1.1 System Characteristics:

Input Voltage: DC24V, DC40V

Continuous Current: 5A

Max. Current: 8A

Temperature - Operation: 0 ~ +45°C

Temperature - Storage: -20 ~ +85°C

Humidity: ≤85% (non-condensing)

1.2 Information:

Dimension: Length: 46.2mm. width: 27mm

Cooling Method: Natural Cooling

Protective Function: Current limit, Undervoltage

Weight: 11g

1.3 Installation Notes:

a) Please install in dry and ventilated place

b) Avoid vibration and collision

c) Do not let metal dust and iron cut falling on controller

d) Fix installation is needed

e) Use qualify connection cables

INTERFACE & CONTROL SIGNALS

J1: Electric Connections

Number	Name	Note
1	M+	Positive pole
2	M-(GND)	Negative pole

Control Signal Connections

Number	Name	Note (Low: 0-0.8V; High:2.2-5.0V)
J4	Start/Stop (Brake)	Low-Start / High-Stop (Brake)
J5	Positive/Negative Rotation	Low-Positive rotation / High-Negative Rotation
J6	Guide rod control	
J7	Counting signal	One counting signal for one start/stop

J2: Motor Sensor Connections

Number	Name	Note
1	HA	Hall Sensor A
2	HB	Hall Sensor B
3	HC	Hall Sensor C
4	H-	Hall Sensor Power Negative
5	H+	Hall Sensor Power Positive
6	A	Brushless Motor Winding A (U)
7	B	Brushless Motor Winding B (V)
8	C	Brushless Motor Winding C (W)

NOTE ON USAGE

1. Controller should be installed with 20mm space for cooling. The environment should be ventilated.
2. Change direction only when motor stopped completely (or <100rpm) to prevent damage of electronic components.
3. The controller is a two quadrant operation mode, it cannot be use when speed change is rapid.
4. Please read this manual before installation. Whenever there is problem, please stop the current immediately. Then check carefully the connections.

REMARKS

Clients can choose gearbox and encoder to match with this motor. Some combinations are listed here for reference.

Motor Data Tested at 25°.

Motor Operation exceeds continuous limits of operating range will compromise the life of the device.