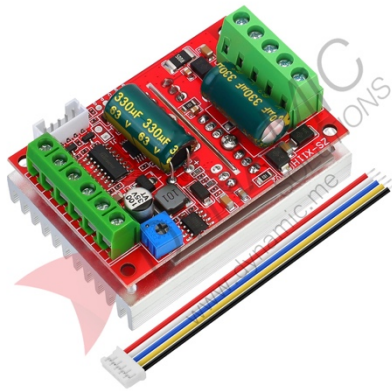


Brushless Motor Controller 3 Phase DC 6-60V 400W



Features:

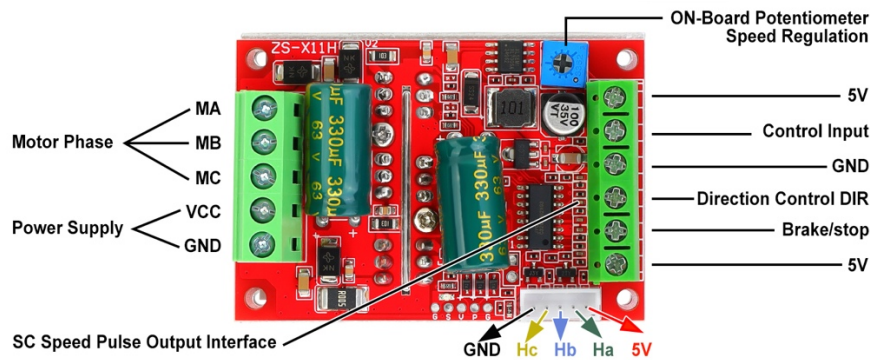
The Three-Phase Brushless Motor Controller DC 6–60V 400W is a high-performance driver designed for brushless DC motors with Hall effect sensors. It offers smooth speed control via an onboard potentiometer, external 0–5V analog input, or PWM signal. With support for forward and reverse operation, braking functionality, and integrated overcurrent protection, it ensures safe and stable operation. Its compact size and wide voltage range make it ideal for robotics, e-bikes, scooters, and industrial automation applications requiring efficient motor control with high torque and reliable performance.

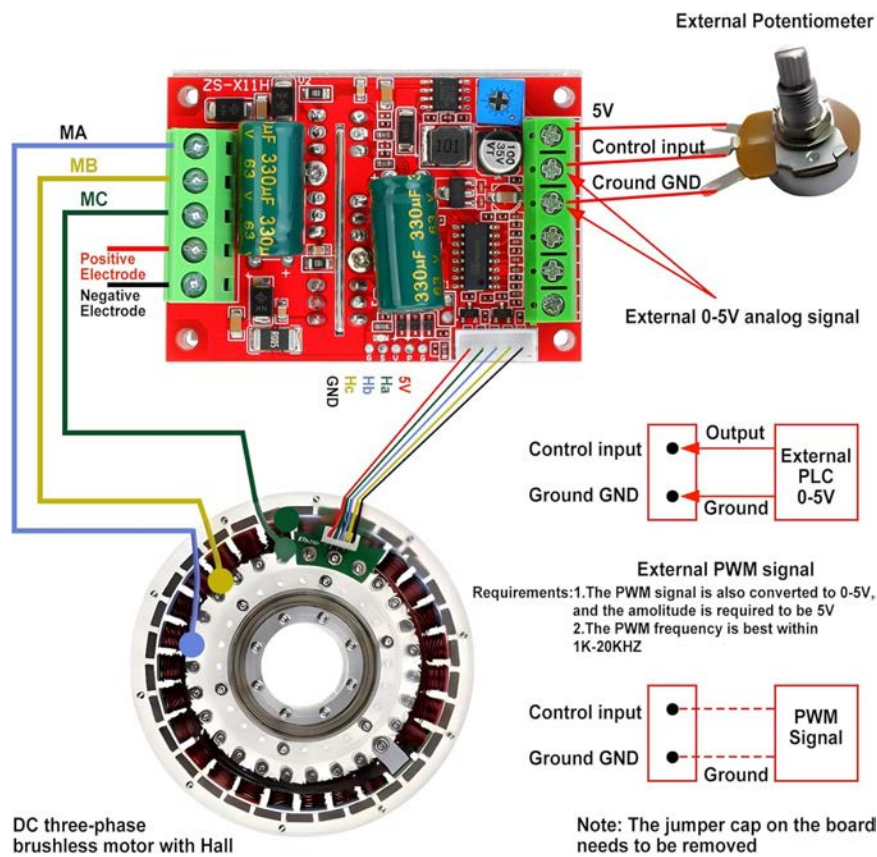
Specifications	
Operating Voltage	DC 6–60V
Rated Current	16A
Peak Current	20A
Maximum Power	400W
Control Methods	Potentiometer, 0–5V analog input, PWM input
Hall Sensor Support	Yes (120° electrical angle, 5 wires)
Motor Outputs	MA, MB, MC
Overcurrent Protection	Yes
Dimensions	63 × 45 × 31 mm
Weight	~73 g
Use	E-bikes, scooters, robotics, automation equipment

Pinouts:

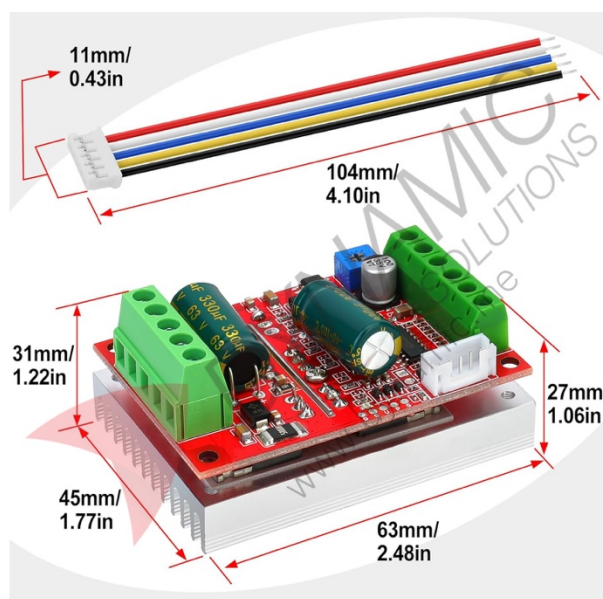
Pin Name	Type	Description
MA	Motor Phase	Phase A output to motor
MB	Motor Phase	Phase B output to motor
MC	Motor Phase	Phase C output to motor
VCC	Power Input	Main DC power supply (6–60V)

GND	Power Ground	Power ground for main supply
SC	Signal Output	Speed pulse signal output
5V	Power Output	5V reference output ($\leq 50\text{mA}$)
Control Input (VR / PWM / Analog)	Control Input	Speed control input (potentiometer, 0–5V analog, or PWM)
GND (Control)	Signal Ground	Ground for control signals
DIR	Control Input	Direction control (Forward/Reverse, high = reverse)
Brake/Stop	Control Input	Brake or motor stop input (high = active)
5V	Power Input	5V input for control signals
Ha	Hall Sensor Input	Hall A signal input
Hb	Hall Sensor Input	Hall B signal input
Hc	Hall Sensor Input	Hall C signal input
5V	Power Output	+5V supply for Hall sensors
GND	Signal Ground	Ground for Hall sensors





Product Dimensions:



Product Pictures:

