

48QDM05

BRUSHLESS DC MOTOR DRIVER

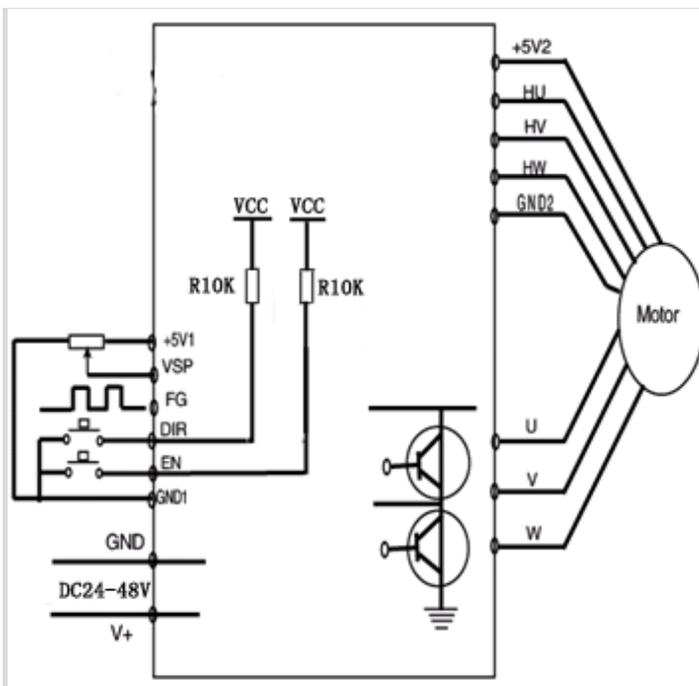
Features		
Current loop design, high torque at low speed, smooth operation		
High torque high speed output, the maximum speed reaches 10000rpm/min(depend on speed of motor)		
With the pulse speed output, the motor speed can be observed at any time		
Speed control: 0-5V analog and 10Hz-300Hz PWM speed control, user-friendly		
Enable control signal input		
Electrical Characteristics		
Power supply	DC24V~50V, capacity according to motor power selection	
Output current	Peak value 5.0A	
Insulation resistance	>500M Ω at normal temperature	
Insulation strength	0.5KV, 1min at normal temperatures and pressures	
Working Environment		
Cooling	natural cooling or forced air cooling	
Working environment	Situation	avoid dust, oil mist and corrosive gases
	Temperature	0 $^{\circ}$ C ~ +50 $^{\circ}$ C
	Humidity	< 80% RH, no condensation, no frost
	vibration	<0.5G(4.9m/s ²) 10Hz-60Hz (non-continuous operation)
Storage temperature	-20 $^{\circ}$ C ~ +65 $^{\circ}$ C	
Dimension	96x61.5x27.5mm	
Weight	\approx 0.15kg	



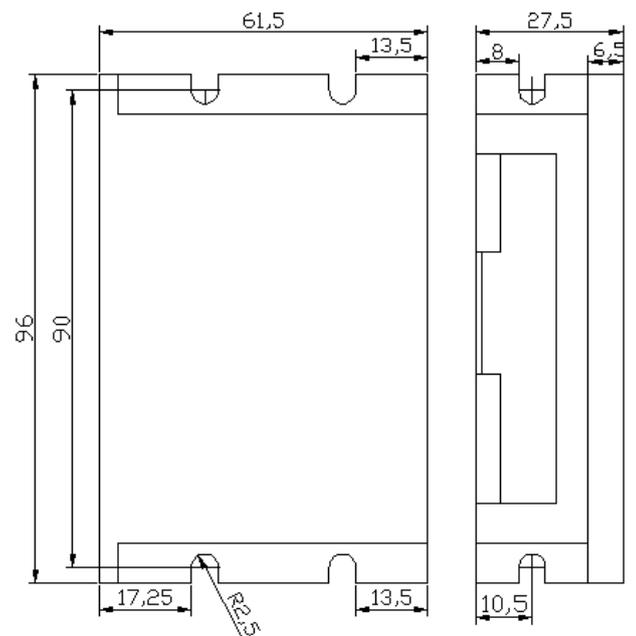
Instructions for the wiring port and indicator light

Function	Mark	Description
Indicator light	POWER	Green indicator light, power on indicates normal power supply
	ALARM	Red light, slow flash-waiting, quick flash-operating and changing with motor speed, constant light-error
Control	+5V1	Control signal power supply positive(Built-in power output)
	VSP	External speed control signal, 0-100% of the motor speed adjustment through external potentiometer
	FG	Motor speed pulse output, motor actual speed can be converted by measuring the frequency of this signal
	DIR	Motor CW/ CCW rotation control ,CW when not connecting GND1 and CCW connecting GND1, cut off EN when CW and CCW switching
	EN	Enable control, motor running (on-line) connecting GND1 and stops(off-line) when not connecting GND1
	GND1	Control signal power ground
Hall	+5V2	Hall power supply positive
	HU	Hall sensor signal U phase input
	HV	Hall sensor signal V phase input
	HW	Hall sensor signal W phase input
	GND2	HALL power ground
Motor and power	U,V,W	motor three-phase output signals, connect the motor windings
	GND,V+	DC24V~48V power supply input

Wiring and dimension(unit: mm)



Wiring



Dimension