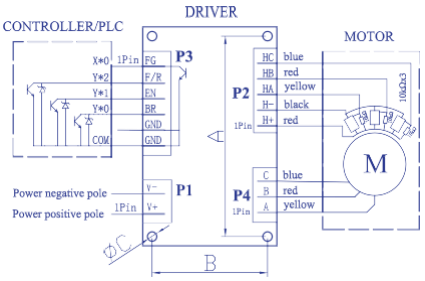
CONTROLLER

SPEED DRIVER

DRIVING THE FUTURE

AM-CDN-0305-LAAS (3 Amps)



SYSTEM CHARACTERISTICS:	INFORMATION:	INSTALLATION NOTES:
Input Voltage: 12~28V DC	Dimension: Length: 34mm. width: 28mm	a) Please install in dry and ventilated place
Continuous Current: 3A	Hole Size: A: 30.0mm; B: 24.0mm; C: 2.1mm	b) Avoid vibration and collision
Temperature - Operation: 0 ~+45°C	Cooling Method: Natural Cooling	c) Do not lt metal dust and iron cut falling on controller
Temperature - Storage: -20 ~+85°C	Protective Function: Current limit, Undervoltage	d) Fix installation is needed
Humidity: ≤85% (non-condensing)	Weight: 8.5g	e) Use qualify connection cables

INTERFACE & CONTROL SIGNALS

P1: Electric Connections

Number	Name	Note
1	M+	Power Vcc
2	M-(GND)	Power GND

P2: Motor Sensor Connections

Number	Name	Note
1	H+	Hall sensor power supply Vcc
2	H-	Hall sensor power supply GND
3	HA	Hall Sensor Phase A
4	HB	Hall Sensor Phase B
5	HC	Hall Sensor Phase C

P3: Control Signal Connections

Number	Name	Note (Low: 0~0.8VDC; High:2.2~5.0VDC; Null: Not Connect)
1	FG	Motor Speed Signal Output (3 puls/turn)
2	F/R	Direction port (Low-CW; High/Null-CCW); Direction defined when looking from motor front.
3	EN	Enable port (Low-Motor rotate; Hight/Null-motor stop). This port can be used as PWM control (PWM requirement: 20KHz, the lower the duty cycle, the higher the speed).
4	BR	Brake port (Low-Brake; High/Null-Release)
5	GND	Control GND
6	GND	Control GND

P4: Motor Electric Connection

Number	Name	Note
1	A	Motor Winding A (U)
2	B	Motor Winding B (V)
3	C	Motor Winding C (W)

NOTE ON USAGE

- Controller should be installed with 20mm space for cooling. The environment should be ventilated
- When using the braking function, please calculate the braking speed. Ensure that the motor speed is lower than the braking speed to avoid high back EMF which will damage the components
- Change direction only when motor stoped completely to prevent damage of electronic components.
- The controller is a two-quadrant operation mode, it cannot be use when speed change is rapid.
- Please read this instruction carefully before installation. Whenever there is problem, please stop the current immediately.

REMARKS

Data Tested at 25°.

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

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