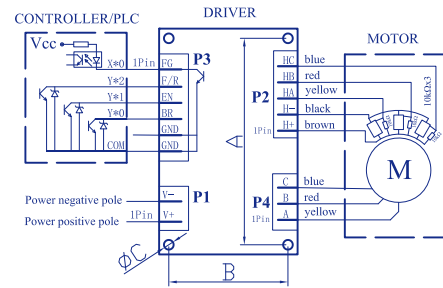
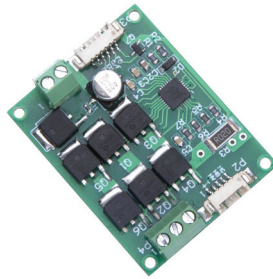


AM-CDN-0815-LAAS (8 Amps w/ optional signal or manual control.)



| SYSTEM CHARACTERISTICS: | INFORMATION: | INSTALLATION NOTES: |
|---------------------------------------|--|---|
| Input Voltage: 12~48V DC | Dimension: Length: 50mm. width: 35mm | a) Please install in dry and ventilated place |
| Max. Continuous Current: 8A | Installation Hole Diameter: 2.5mm | b) Avoid vibration and collision |
| Recommended Operation Temp: -20~+45°C | Cooling Method: Natural Cooling | c) Do not let metal dust and iron cut falling on controller |
| Recommended Storage Temp: -20 ~+85°C | Protective Function: Current limit, Undervoltage | d) Fix installation is needed |
| Humidity: ≤85% (non-condensing) | Weight: 25g | e) Use quality 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 |

P5: Manual Controls

| Number | Name | Note |
|--------|----------------------|--|
| 1 | Potential Meter Knob | Rotate to control speed Manually. |
| 2 | Direction Button | Default in CCW; Switch direction for each click of button. |

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 (1 pulse/turn) |
| 2 | F/R | Direction port (Low-CW; High/Null-CCW); Direction defined when looking from motor front. |
| 3 | EN | PWM speed control signal input (PWM requirement: 30KHz, the higher the duty cycle, the higher the speed). |
| 4 | BR | Brake port (Low-Brake; High/Null-Release) |
| 5 | GND | Control GND |

P4: Motor Connections

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

Note:
Manual control knob and buttons will be connected to the board by lead wire;
User must select Signal Control or Manual Control upon order. Choosing one mode will dis-able the other mode.
***Only one model available with end users.**

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 stopped 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.

Download datasheet: <https://assunmotor.com/documents-download>

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