

TA2215 PWM DRIVE

FOR BRUSHLESS SERVO MOTORS

BENEFITS

- 100A peak output
- External or internal speed control
- Thermally protected
- Hall Sensors
- 24-96 VDC
- Soft start
- Programmable setup

APPLICATIONS

- Machine tools
- Conveyors
- Battery operated vehicles
- Compressors
- Pumps
- Fans



TECHNICAL SPECIFICATIONS

ELECTRICAL

DC SUPPLY VOLTAGE

24-96 VDC*

EQUIVALENT MOTOR VOLTAGE

PWM, 0-90 VDC

PWM SWITCHING FREQUENCY

4/8/16/20 kHz (selectable)

MAXIMUM OUTPUT CURRENT

Continuous: 50A

Peak: 100A

FAULT

TTL Level 0 or 1

ENABLE

TTL Level 0 or 1

*max continuous supply current <35A

MECHANICAL

LENGTH

8.15 in (20.70 cm)

WIDTH

5.05 in (12.83 cm)

HEIGHT

2.36 in (5.99 cm)

WEIGHT

6 lbs (2.24 kg)

CONNECTIONS

USER INTERFACE (J1)

10-Pin Plug, header

HALL INPUT (J2)

5-Pin Plug, header

MOTOR CONNECTIONS (J4)

7-Pin screw terminal

PROGRAMMING HEADER (P1)

10-Pin IDC

(mating connectors supplied with drive)

ENVIRONMENTAL

MAXIMUM ALTITUDE

6,560FT (2000M)

TEMPERATURE (ambient)

Normal operation: 5°C to +40°C

Storage: -40°C to +70°C

Heatsink: +70°C maximum

HEAT DISSIPATION

External heatsink required

AIRFLOW

External fans may be required

HUMIDITY

Operating: 10% to 70%, non-condensing

Storage: 10% to 95%, non-condensing

POLLUTION DEGREE 2

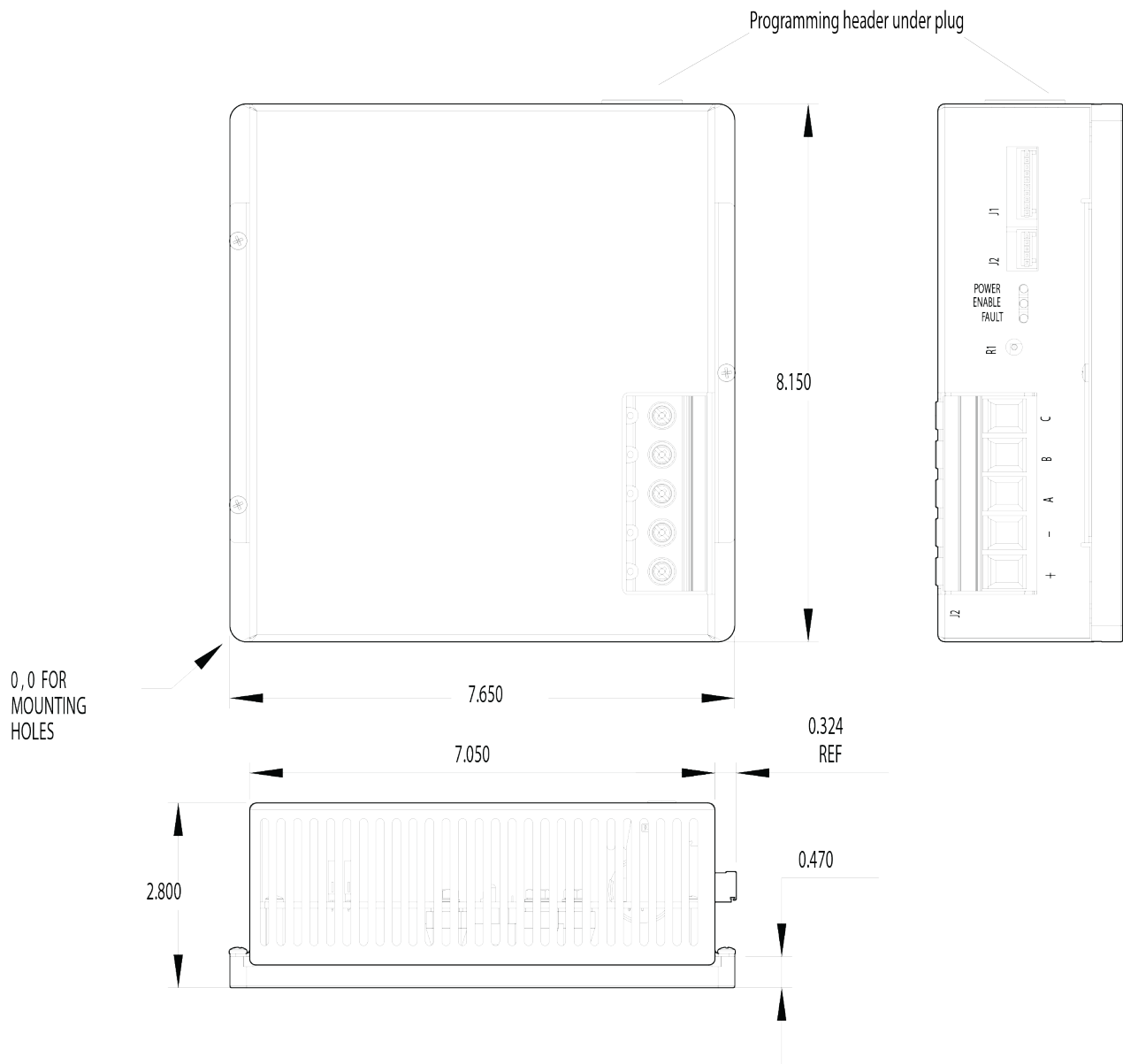
HIGH EFFICIENCY, BRUSHLESS DC MOTOR DRIVE FOR CONSTANT SPEED APPLICATIONS

The Trust Automation TA2215 PWM Drive is a compact, low cost, programmable, constant speed drive, ideally suited for battery operated equipment. The TA2215 is designed to run a brushless motor at a constant speed using the motor's Hall Sensors for speed feedback. The drive can be programmed through the RS232 interface, and can be programmed to start up and ramp at a preset rate as well as to maintain a constant torque regardless of changes in load. Alternatively, an external potentiometer may be used for variable applications.

This low cost, high efficient DC drive is ideal for applications requiring improved power performance and lowered operating costs.

The TA215 includes three speed setting options; first, external speed command via off-board 10k potentiometer. Second, on board potentiometer for convenient fixed speed adjustment, and finally, fixed speed set via software; as well as soft start control, self-contained enclosed and optically isolated user interface for safety. The drive can be configured for either regulated speed or torque

MECHANICAL DRAWING



Note: All measurements are in inches

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