

# TA2230 PWM DRIVE

## FOR BRUSHLESS SERVO MOTORS

### BENEFITS

- 25A RMS continuous output
- External or internal speed control
- Thermally protected
- Hall Sensors
- 100-220 VAC @ 50-60 Hz
- Soft start
- Programmable setup
- Integral forced air cooling and heatsink

### APPLICATIONS

- Industrial Automation
- Automated power tools
- Conveyors
- Pumps
- Compressors



## TECHNICAL SPECIFICATIONS

### ELECTRICAL

#### AC SUPPLY VOLTAGE

100-220 VAC @ 50-60 Hz

#### EQUIVALENT MOTOR VOLTAGE

PWM, 0-300 VDC

#### PWM SWITCHING FREQUENCY

4/8/16 kHz (selectable)

#### MAXIMUM OUTPUT CURRENT

Continuous: 25A RMS

Peak: 45A

#### FAULT

TTL Level 0 or 1

#### ENABLE

TTL Level 0 or 1

### MECHANICAL

#### LENGTH

9.11 in (23.14 cm)

#### WIDTH

5.64 in (14.33 cm)

#### HEIGHT

3.52 in (8.94 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

Internal fans

#### HUMIDITY

Operating: 10% to 70%, non-condensing

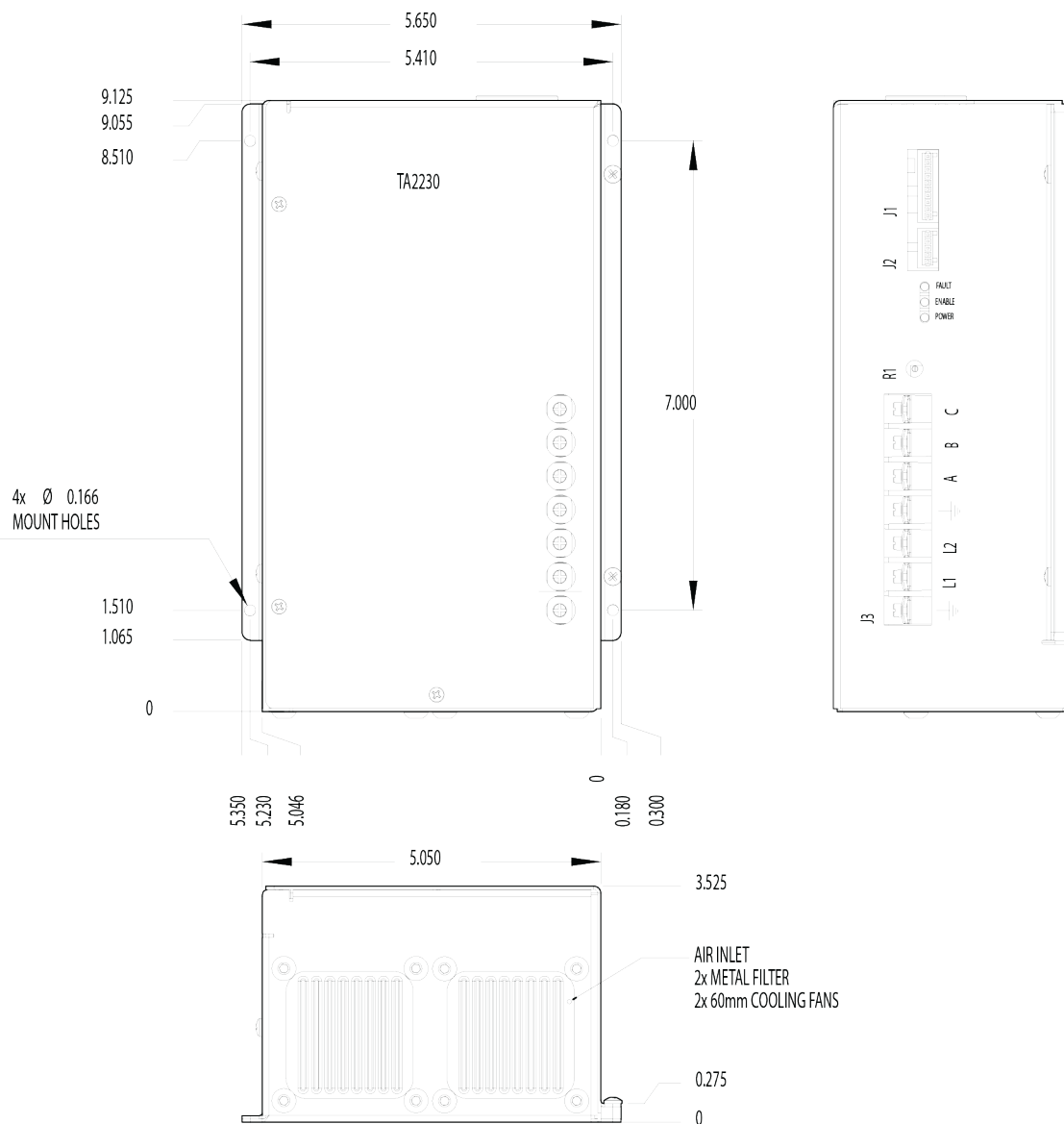
Storage: 10% to 95%, non-condensing

#### POLLUTION DEGREE 2

## HIGH EFFICIENCY, BRUSHLESS DC MOTOR DRIVE FOR CONSTANT VELOCITY APPLICATIONS

The Trust Automation TA2230 PWM Drive is a compact, low cost, programmable, constant velocity drive. The TA2230 is designed to run a brushless motor at a constant velocity using the motor's Hall Sensors for velocity feedback. The drive can be programmed through the RS232 interface, and can be programmed to start up and ramp up at a preset rate as well as to maintain a constant velocity regardless of changes in load. Alternatively, an external speed potentiometer may be used for variable speed applications. This low cost, high efficient AC drive is ideal for applications requiring improved power performance and lowered operating costs. The TA2230 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, integral AC line filtering, self-contained enclosed and optically isolated user interface for safety.

## MECHANICAL DRAWING



Note: All measurements are in inches

JULY 2014