

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

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TRUST™ AUTOMATION, INC.

Motion & Motor Control Solutions

TA310 LINEAR DRIVE

FOR BRUSHLESS SERVO MOTORS

BENEFITS

Digital on-the-fly gain control (DTS)
Over-temperature protection
170W continuous/340W peak
Integral forced-air cooling
Very low electrical noise
Sinusoidal or trapezoidal operation

APPLICATIONS

X-Y stages
Wafer handling
Brushless DC motors
Metrology tools



TECHNICAL SPECIFICATIONS

ELECTRICAL

SUPPLY VOLTAGE
24V to 48V (20V abs min, 52V abs max)
EQUIVALENT MOTOR VOLTAGE
Up to ±43V*
MAXIMUM OUTPUT CURRENT
See SOA chart
FAULT
TTL Level 0 or 1
/ENABLE
TTL Level 0
COMMAND INPUT
±10V (±12V max)
TORQUE GAIN
0.2 A/V to 0.8 A/V
BANDWIDTH
5.0 kHz **

*dependent upon motor load
**into a 2.5mH load

MECHANICAL

LENGTH
9.00 in (22.86 cm)
WIDTH
2.70 in (6.86 cm)
HEIGHT
3.51 in (7.62 cm)
WEIGHT
2.63 lbs (1.19 kg)
MOUNTING
(4) 6-32 screws

CONNECTIONS

COMMAND SIGNALS (J1)
10-Pin Terminal block, plug
MOTOR POWER, SIGNAL (J2)
5-Pin Terminal block, plug
HALL SIGNALS (J3)
5-Pin Terminal block, plug

(mating connectors supplied with drive)

ENVIRONMENTAL

MAXIMUM ALTITUDE
6,560FT (2000M)
TEMPERATURE (ambient)
Normal operation: 0°C to +40°C
Storage: -40°C to +70°C
Heatsink: +75°C maximum
HEAT DISSIPATION
See SOA chart
AIRFLOW
Internal fan
HUMIDITY
Operating: 10% to 70%, non-condensing
Storage: 10% to 95%, non-condensing
POLLUTION DEGREE 2

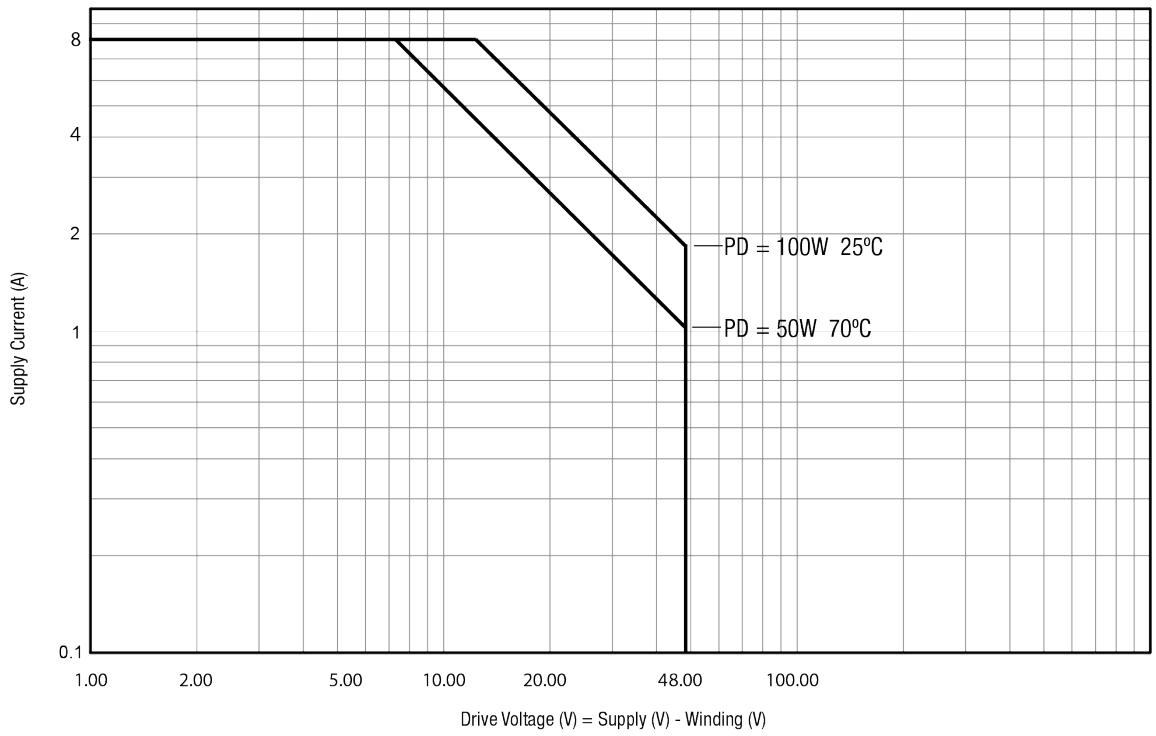
DECEMBER 2014

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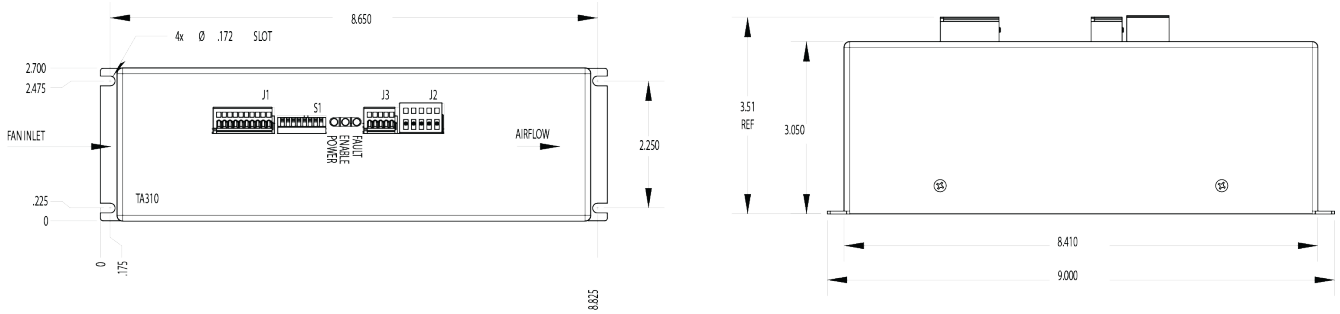
ROBUST LINEAR AMPLIFIER, PROVIDING QUIET AND SMOOTH POWER TO BRUSHLESS MOTORS

The Trust Automation TA310 Linear Drive is a linear three phase servo motor amplifier designed to drive a brushless motor with up to 340W of power. The TA310 is an excellent solution for small rotary or linear brushless motors in high precision positioning applications and systems requiring ultra quiet driving power, where low noise operation is essential. The TA310 is optimized for both sinusoidal and trapezoidal output. However, unlike standard PWM (switcher-type) amplifiers, the trapezoidal output is smoothed to minimize cogging. This flexibility enables the engineer to provide a clean linear solution for the most demanding motion control applications. The TA310 can be operated in voltage (velocity) mode or current (torque) mode, selected via user accessible DIP switch.

SAFE OPERATING AREA



MECHANICAL DRAWING



Note: All measurements are in inches

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

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Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

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