2G ENGINEERING

www.2g-eng.com | info@2g-eng.com

Compact Servo Drive

P/N G000447

2 Board Stack

Design separates the servo controller and power stages. Allows for using the same servo controller and user software interface on different power stages. Provides a unified interface to the customer regardless of drive configuration

3 Phase Drive

Power stage is designed for trapezoidal drive with hall effect feedback. Modular design allows for reconfiguring drive stage for sinusoidal drive, or sensor less operation as needed

Compact and Reconfigurable

The power stage can be made for application specific mounting and I/O

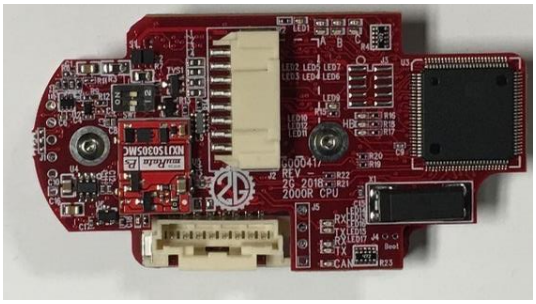
Integrated Rotary Encoder

Unit has magnetic rotary encoder integrated for mounting over rotating shaft. System can be configured to accept external position feedback sensors.

Software

2G provides configuration software with charting / logging for system tuning and LabVIEW drivers.

~ 75 x 38 x 18 mm size



All of 2G's products are designed in house. Including software and hardware. We are beholden to no 3rd parties for modifications of the design to meet a customer's requirements.

Therefore, if a customer needs support or a new feature added to the servo controller it can be implemented and deployed quickly.

Review the command set document for an idea of the standard features the servo drive supports.

If there are needs for features not listed we can add them.

- **Industry specific highlights**
  - Designed for PBOF usage
  - Tested to 10,000 PSI
  - API 17F Q1 capable
  - High TRL level achievable out of the box
- **Standard Servo drive features**
  - Cascaded PID loops for position and velocity control
  - Motion profiler for controlled acceleration rates
  - Feed forward and inertia compensation
- **Standard power drive stage**
  - 150 V DC operation
  - 12 A RMS motor current
  - 25A peak
- **Optional power drive stage**
  - 400V DC Operation
  - 10 A RMS motor current
  - 20A peak
- **Control Interface (Isolated)**
  - RS-232
  - RS-485 (2x redundant)
  - CAN Bus
  - Analog
  - Optional Ethernet
- **Software protocols**
  - 2G Packets
  - MODBUS RTU or ASCI
  - CAN Frames
  - CAN Open (Optional)
  - MODBUS TCP (Optional)
  - Others per Customer needs

2G Engineering has an AS 9100 / ISO 9001 Aproved QMS system.