



MC300D-HV DIGITAL 2-AXIS 600Vdc BRUSHLESS MOTOR CONTROLLER

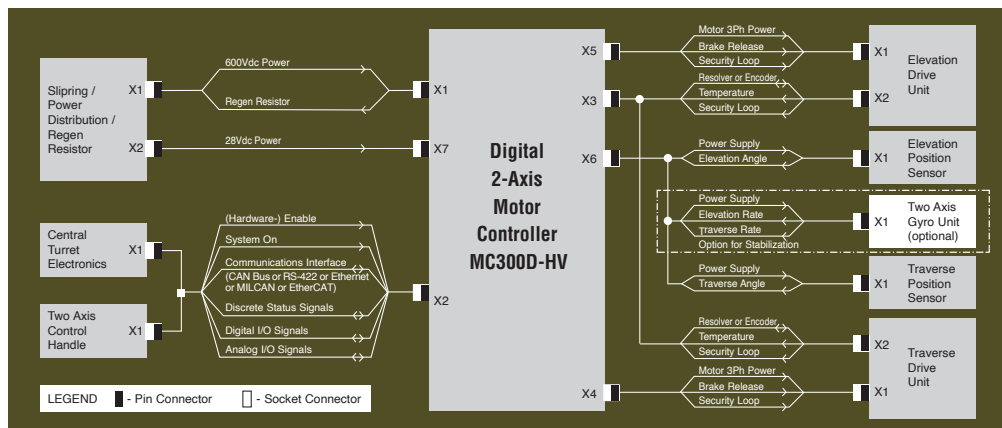


This series of digital militarized high voltage controllers is designed to provide torque, velocity and position loop closure. The controller accepts command signals from any fire control system (FCS), in either digital or analog format, and interfaces with a control handle. The advanced space vector algorithms provide optimum performance for new or existing motors to provide superior power densities. There is a soft start circuit utilized to control inrush current upon application of high voltage power. There is also an IGBT (Insulated-Gate Bipolar Transistor) shunt regulator that can be

routed to an external resistor to control regen energy if required. Additionally, there are a wide range of end user programmable software features, as listed below.

PROGRAMMABLE SOFTWARE FEATURES

- Extensive built in test
- No-fire zones
- Obstacle avoidance zones
- End-damping limits
- HUMS (Health Usage Monitoring System)
- Acceleration limits
- Comprehensive loop tuning
- Tracking/Stabilization Modes
- Field weakening
- Joystick shaping function
- Analog and digital I/O
- Status and fault history
- Data logging



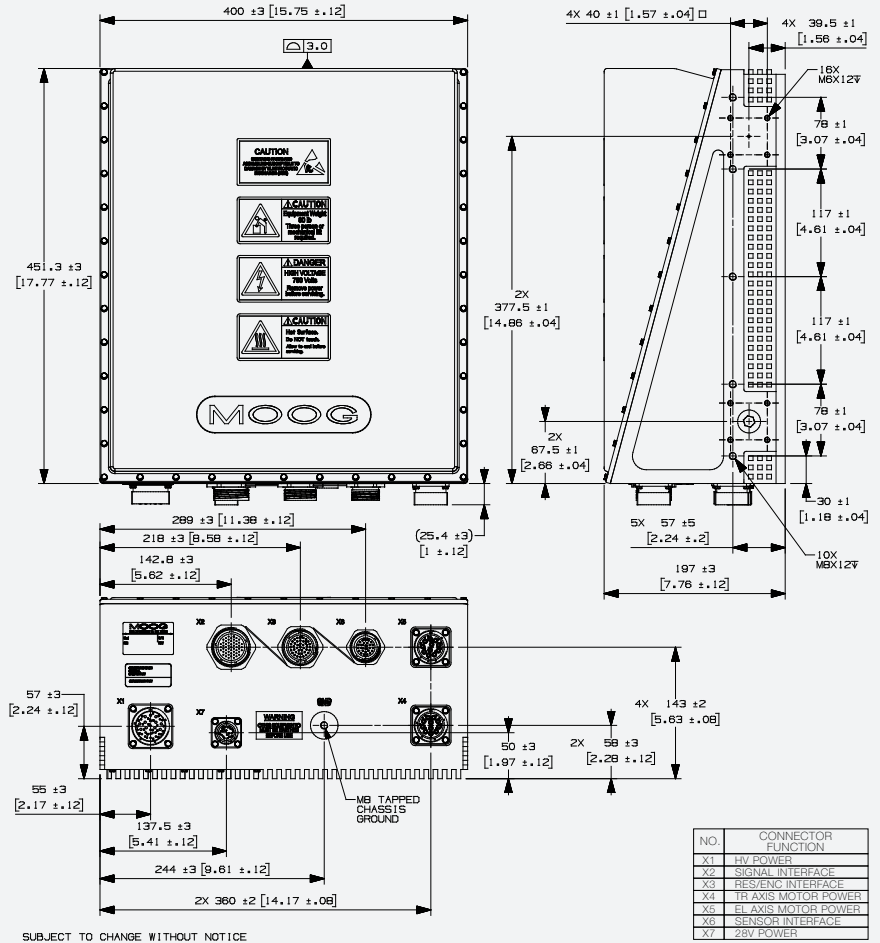
Note: All of our products are flexible and customizable to meet your specific needs. Please contact us for more information.

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SPECIFICATIONS

| Parameter | Performance |
|------------------------------------|---|
| Power Supply (Control Electronics) | 18Vdc – 32Vdc (per Mil-Std-1275) |
| Power Supply (Motors) | 700Vdc Maximum |
| Temperature (Ambient) | -40°C to 65°C |
| Environmental Specification | Complies with Mil-Std-810 |
| Command Communication Interfaces | CAN-BUS or RS-422 or Ethernet or MILCAN or EtherCAT |
| EMC Specification | Complies with Mil-Std-461 |
| Weight | 36kg (79.2lb) |
| Position Sensor Interface | SSI or EnDat Serial Interface |
| Motor Commutation Sensor | Resolver or Encoder |
| Envelope | 451 x 400 x 197mm (17.8 x 15.7 x 7.8 in) |
| Self Protection | Over-Temperature and Over-Current |
| Output Current (for each axis) | 150A peak |
| Option: Stabilization Kit | 2-Axis Gyro Interface |

DIMENSIONS mm (in)



MOOG
SPACE AND DEFENSE GROUP

East Aurora, NY 14052 USA
+1.716.652.2000
www.moog.com



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