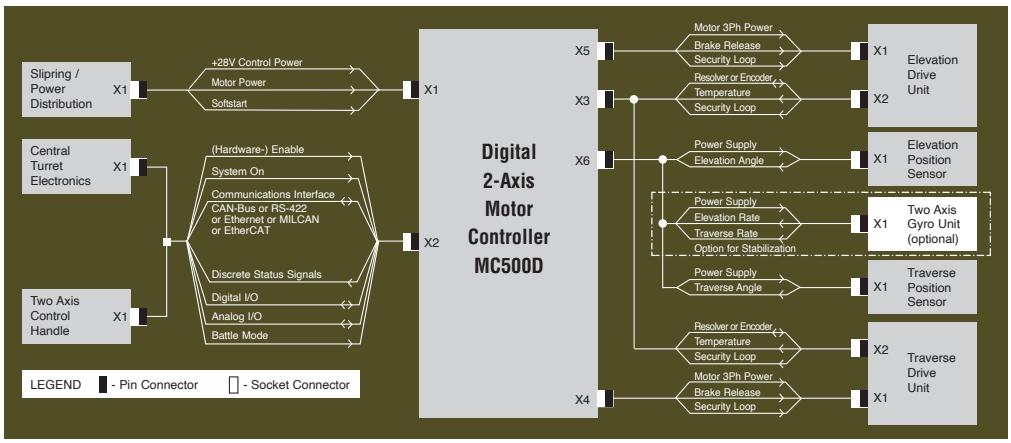
MC500D SERIES 2-AXIS BRUSHLESS MOTOR CONTROLLER

This series of digital militarized low voltage, 2-Axis, Brushless Motor 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 outstanding power densities. The base of the controller has four sets of holes predrilled for use with isolation mounts. There is also a cold plate model available that has uprated current capabilities (400Apk/axis), see picture on page 2. 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
- Acceleration limits
- HUMS (Health Usage Monitoring System)
- 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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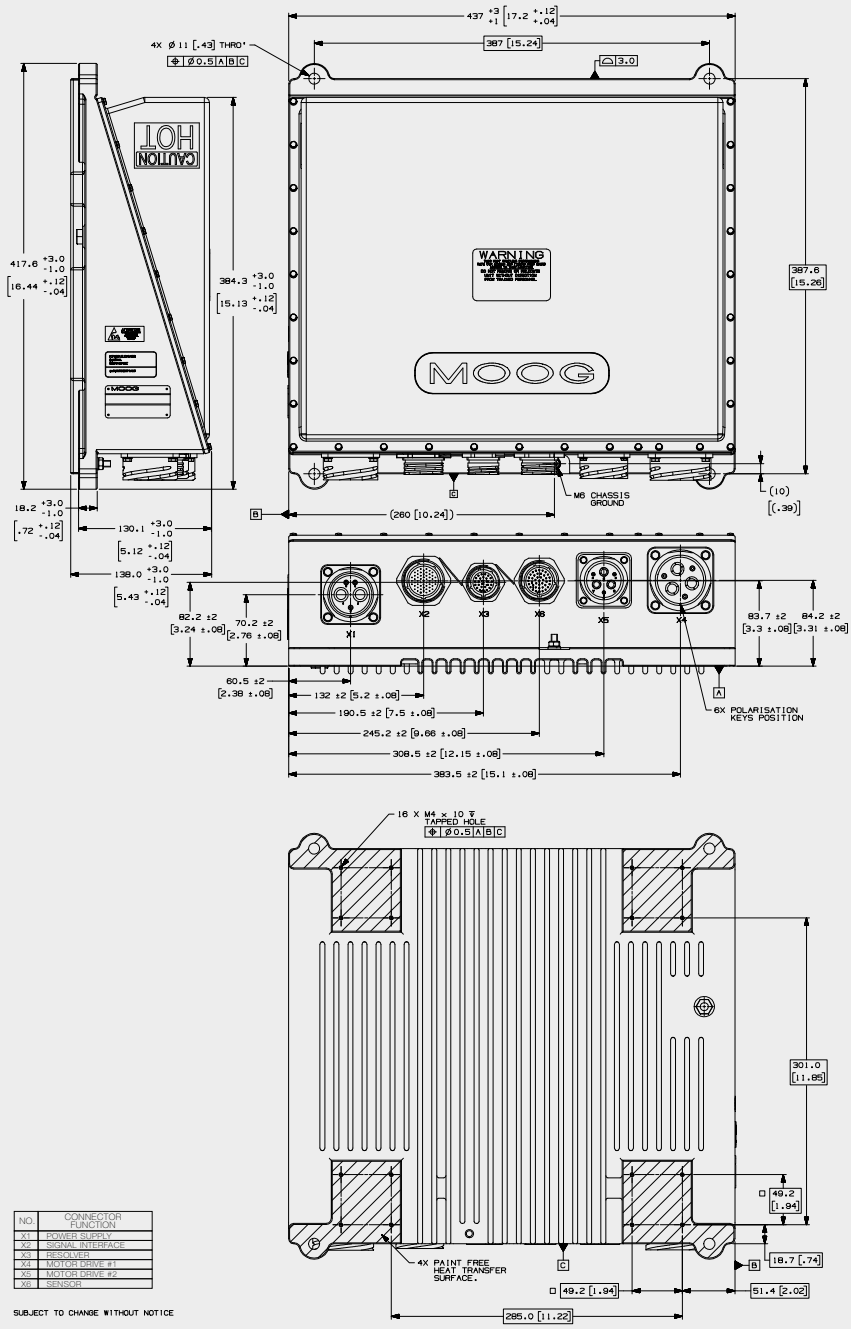
SPECIFICATIONS

Parameter	Performance
Power Supply (Control Electronics)	18Vdc-32Vdc (per Mil-Std-1275)
Power Supply (Motors)	18Vdc to 60Vdc Motor
Temperature (Ambient)	-40°C to 65°C
Environmental Specification	Complies with Mil-Std-810
Command Communication Interface	CAN-Bus or RS-422 or Ethernet or MILCAN or EtherCAT
EMC Specification	Complies with Mil-Std-461
Weight	22kg (48.4lb)
Position Sensor Interface	SSI or EnDat Serial Interface
Motor Commutation Sensor	Resolver or Encoder
Envelope	418 x 437 x 138mm (16.5 x 17.2 x 5.4in)
Self Protection	Over-Temperature and Over-Current
Output Current Axis1/Axis2	Finned: 300A/200A Peak Cold Plate: 400A/400A Peak
Option: Stabilization Kit	2-Axis Gyro Interface

MC500D 400Apk/axis Cold Plate Model

DIMENSIONS mm (in)



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