

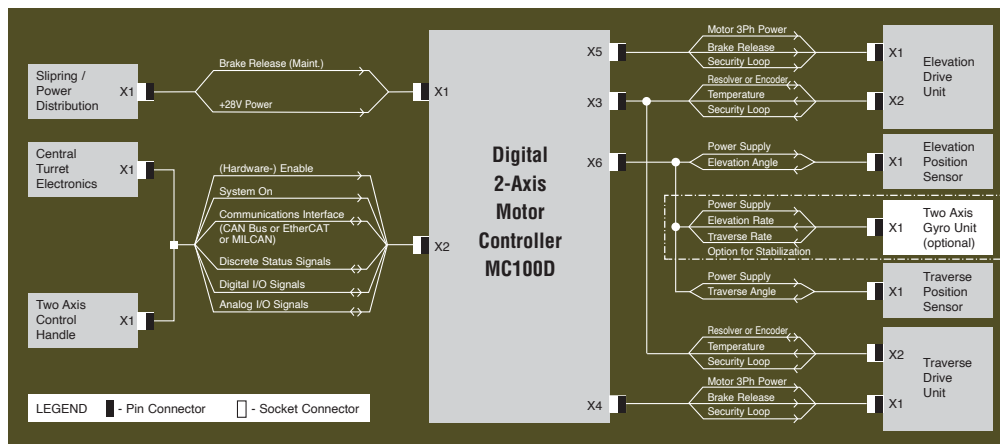
MC100D DIGITAL 2-AXIS 28V BRUSHLESS MOTOR CONTROLLER



This series of digital militarized low 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 also an internal tilt/accelerometer sensor for improvised stabilization performance. 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



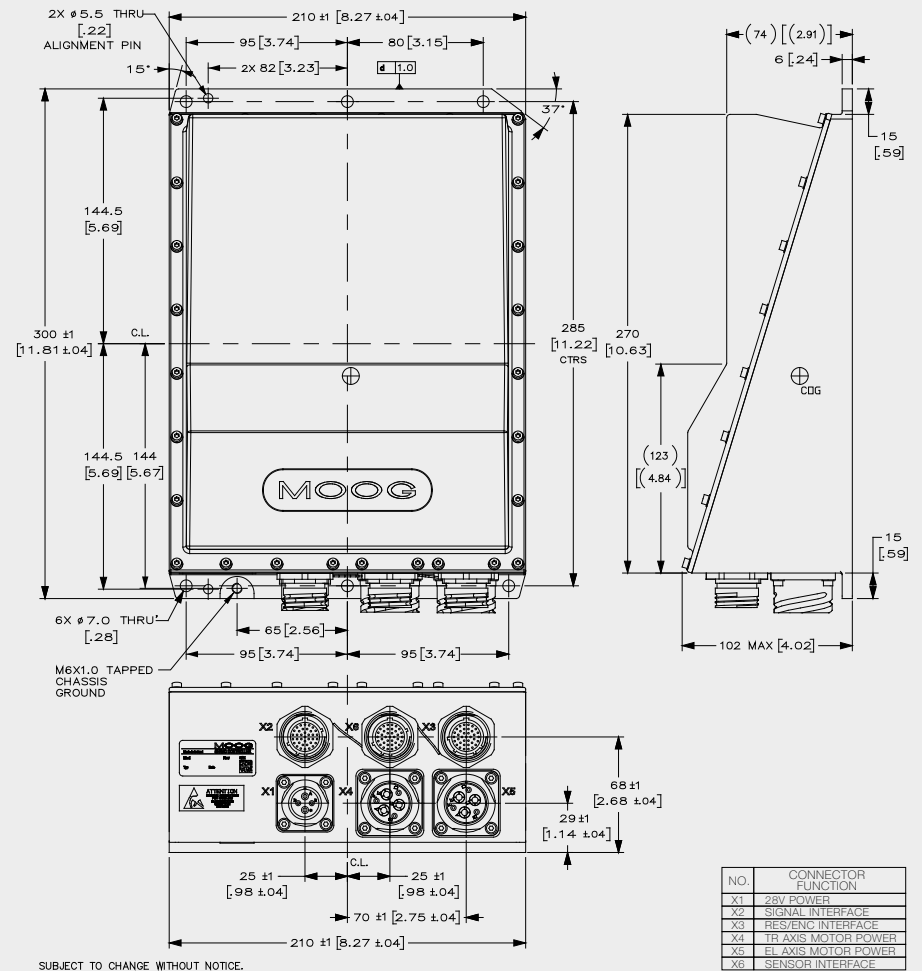
Note: All of our products are flexible and customizable to meet your specific needs. Please contact us for more information.

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SPECIFICATIONS

Parameter	Performance
Power Supply	18Vdc – 32Vdc (per Mil-Std-1275)
Temperature (Baseplate)	-40°C to 71°C
Environmental Specification	Complies with Mil-Std-810
Command Communications Interfaces	CAN-BUS or MILCAN or EtherCAT (lid change)
EMC Specification	Complies with Mil-Std-461
Weight	7kg (15.4lb)
Position Sensor Interface	SSI or EnDat Serial Interface
Motor Commutation Sensor	Resolver or Encoder
Envelope	300 x 210 x 102mm (11.8 x 8.3 x 4.0in)
Self Protection	Over-Temperature and Over-Current
Output Current (for each axis)	80A 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



Moog Space and Defense



@MoogSDG



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Form 500-469 0820