Energy products

 servo motor controller
C173455

90 to 140 vdc, metering valve position control

Meggitt’s 90 to 140 VDC motor controller is in use on a variety of industrial gas turbine engines. With millions of field operating hours, this design continues to prove the high reliability of Meggitt EMA technology.

Specifications

Function: Positioning controller for precision gas fuel metering valves used on aero-derivative and frame turbine engines.

Type: Digital pulse-width modulated servo-amplifier

Physical size: 9.625” wide, 8.5” high, 13.55 deep

Weight: 25 pounds

Input voltage: 90 to 140 VDC

Input current: 7.5 amperes maximum

Output current: 0.3 ampere (continuous), 7.0 amperes (peak)

Digital input/output: 0 to 5 VDC

Electrical connections: Terminal strip, AWG 14 to 22

Communications: C173455 – serial port interface RS-485; C173455-2 – analog interface 4-20 ma

Ambient temperature: 0 to 70°C (32 to 158°F)

Remote installation: Up to 60 meters [200 feet] wire run length from the fuel metering valve. The controller consists of a servo amplifier, an I/O signal noise filter, and a capacitor, which are packaged in a compact three level unit with readily accessible interface terminations on its top plate. The servo amplifier is mounted on a cold plate on the lower level, and the resistor/capacitor network, inlet EMI noise filter and outlet common mode choke filter are on the middle level.

Key features

- Exceptional positioning control accuracy and speed when used with Meggitt precision control valves
- Designed for control of high speed brushless dc servo motors
- Designed for use on both DLE and SAC turbine engines
- Available in both digital and analog versions
- No maintenance required under normal conditions
- Available with explosion proof enclosure

P/N C173465

Meggitt Control Systems

Our product competencies & services:
Aerospace valves | Thermal management solutions | Environmental control systems | Electro-mechanical products
Ground fueling products | Energy products | Aftermarket services
Energy products

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Key dimensions

Notes:
1. SHOWN WITH COVER REMOVED
2. ALL DIMENSIONS SHOWN ARE IN INCHES.

Contact

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smart engineering for extreme environments