CMSS56

This module measures RPM and motor current characteristics of a DC commutated or brushless motor based solely on the motor's supply current. No physical contact or line of sight is required.

Allows for test of correct installation of motor embedded inside the end product.

Detect faults due to motor, misalignment or other installation fault.

The module is available with DeviceNet, Ethernet, or Profibus interface.

Advantages

Replaces traditional mechanical sensors for motor test:

- reduced fixturing requirements
- no maintenance of mechanical sensors
- reduced test cycle time.

Allows detection of internal motor faults due to commutator or winding faults.

Allows accurate measurement of embedded motors that are not accessible to physical or "line of sight" sensors. (ie. Electric pumps)

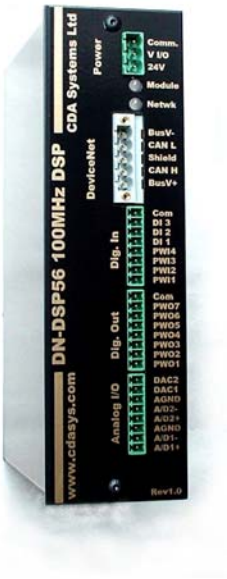
Provides accurate measurement of motor speed even during acceleration/deceleration.

Applications

Automotive quality assurance for

- HVAC motors/modules
- Fuel Pumps
- Window lift motors
- Electric Water pumps,
- Electric Power steering pumps
- Power Seat motors
- Engine cooling
- Wiper motors

Quality assurance for cordless power tools.



Devicenet Version depicted

FEATURES

- Measures DC commutated motor supply current to calculate RPM.
- Accurately tracks motor speed during acceleration and deceleration.
- Tracks supply current characteristics.
- Electrically isolated analog interface.
- Contains a 'pulse per revolution' output for counting rotations of motor.
- Available with Ethernet, DeviceNet, Profibus interfaces.
- Auxiliary analog measurement channel with programmable input gain and scaling measures RMS.
- General Purpose I/O: six digital inputs, six digital outputs, programmable.

- recommended primarily for motors having at least 1% ripple in its current due to commutation.

481 Baker Street ◆ London,ON ◆ Canada ◆ N6C 1Y1
519-438-2280 ◆ Fax: 519-438-0811 ◆ email:info@cdasys.com