Specifications.



UniDrive® Motor

110159

The UniDrive® motor has just one moving part, operates almost silently and gives you unprecedented flexibility in manufacturing lead time.

The new UniDrive® motor is a solution offering greater reliability and design freedom. The system is remarkably simple and cost effective. It consists of an externally-mounted direct drive brushless DC motor and an electronic speed control.

Extreme Reliability: 250,000 Hour Bearing Life

The new UniDrive® system uses an extremely reliable 4%-inch diameter brushless DC servo-motor with an electronically-controlled operating speed of just 280 rpm. It produces high torque at low speed without using failure-prone gear reducers, linkages or drive chains. The net result of the low speed combined with the robust bearings is a 248,000 hour calculated bearing life (L_{10} ANSI/AFBMA Std 9-1978.)

Almost Silent Operation

The UniDrive® motor is almost silent in operation at full power. There are no gears, drive chains or other moving parts to generate noise.

Plug and Play Simplicity

The UniDrive® motor controller is a rugged, reliable device that gives you a simple plug and play connection. You control your manufacturing lead-time.

Simple to Service

If a motor ever fails, it is easy to replace because it's mounted externally. Only one part number needs to be stocked for spares and repairs.

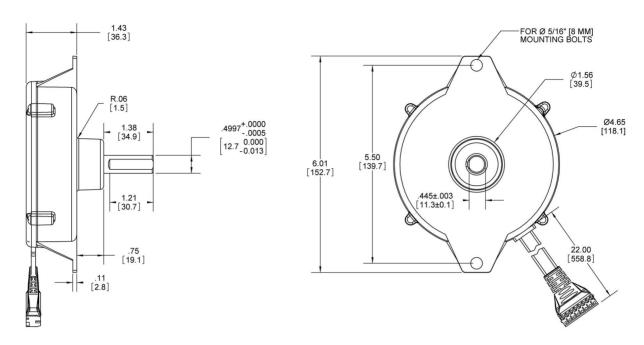
Features

- 24V brushless DC motor
- 4.63" Ø x 1.5"L
- Shaft 0.5"Ø x 1.4"L with flat
- 22" leads with connector
- 5-125W input
- 70-350 RPM
- 15 in-lbf torque

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Specifications.



US Patent 7,537,107

| Motor Series | | 125W24 | | | | |
|--------------------------------------|----------|---------|--------------|------|-------|--|
| Description | US Units | | Metric Units | | | |
| Input Power | | | | | | |
| Voltage (rated) | 24 | VDC | | 24 | VDC | |
| Amperage (rated) | 5 | Amps | | 5 | Amps | |
| Amperage (no-load) | 0.21 | Amps | | 0.21 | Amps | |
| Watts (rated) | 120 | Watts | | 120 | Watts | |
| Output | | | | | | |
| Speed (rated) | 350 | RPM | | 36.7 | r/s | |
| Speed (minimum) | 70 | RPM | | 7.3 | r/s | |
| Torque (continuous) | 15 | In·lbf | | 1.69 | N·m | |
| Torque (starting) | 42 | In·lbf | | 4.75 | N⋅m | |
| Motor Constants | | | | | | |
| K _E (Back EMF) | 53.2 | V/kRPM | | 0.51 | V/r/s | |
| K _⊤ (Torque/Amp) | 71.9 | In·oz/A | | 0.51 | N·m/A | |
| R _T (Terminal Resistance) | 1.1 | Ohms | | 1.1 | Ohms | |

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