### Specifications.



# UniDrive® Motor Stock Product

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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 externallymounted direct drive brushless DC motor and an electronic speed control.

#### Extreme Reliability: 300,000 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 failureprone gear reducers, linkages or drive chains. The net result of the low speed combined with the robust bearings is a 310,000 hour calculated bearing life (L<sub>10</sub> 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.

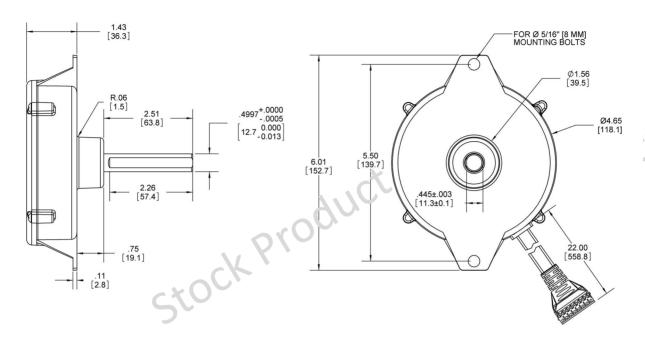
#### **Features**

- 24V brushless DC motor
- 4.63" Ø x 1.5"L
- Shaft 0.5"Ø x 2.5"L with flat
- 22" leads with connector
- 1-100W maximum output
- 70-280 RPM
- 15 in-lbf continuous torque
- Available from stock

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## Specifications.



US Patent 7,537,107

Motor Series		100W24			
Description	US	US Units		Metric Units	
Input Power					
Voltage (rated)	24	VDC	24	VDC	
Amperage (rated)	4	Amps	4	Amps	
Amperage (no-load)	0.17	Amps	0.17	Amps	
Watts (rated)	96	Watts	96	Watts	
Output					
Speed (rated)	280	RPM	29.3	r/s	
Speed (minimum)	56	RPM	5.9	r/s	
Torque (continuous)	15	In·lbf	1.69	N⋅m	
Torque (starting)	42	In·lbf	4.75	N·m	
Motor Constants					
K <sub>E</sub> (Back EMF)	67.0	V/kRPM	0.64	V/r/s	
K <sub>T</sub> (Torque/Amp)	90.6	In·oz/A	0.64	N·m/A	
R <sub>T</sub> (Terminal Resistance)	1.7	Ohms	1.7	Ohms	

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