Specifications

P-00021
24 VDC 100 Watt Motor

The Glide-Line™ motor has just one moving part, operates almost silently and gives you unprecedented flexibility in manufacturing lead time.

The Glide-Line™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: 300,000 Hour Bearing Life

The new system uses an extremely reliable 4⅝-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 310,000 hour calculated bearing life (L_{10} ANSI/AFBMA Std 9-1978.)

Almost Silent Operation

The Glide-Line™ 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 Glide-Line™ 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

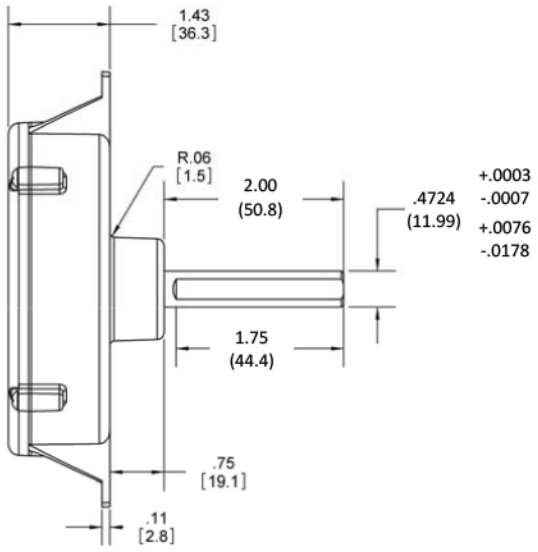
If a motor ever fails, it is easy to replace because it's mounted externally. Only one part number needs to be stocked for spares and repairs.

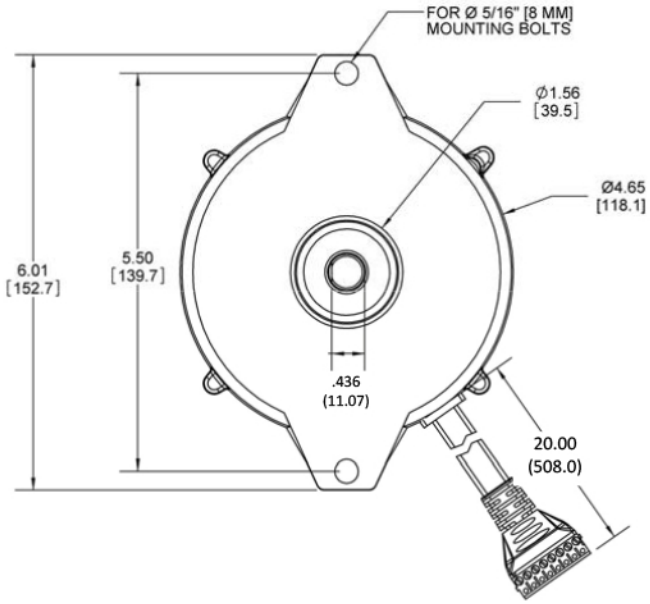
Features

- 24V brushless DC motor
- 4.63" Ø x 1.5"L
- Shaft 0.4724"Ø x 2.0"L with flat
- 20" leads with connector
- 1-100W maximum output
- 70-280 RPM
- 15 in-lbf continuous torque

GLIDE-LINE™

Specifications





US Patent 7,537,107

Motor Series	**100W24**				
Description	**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_E (Back EMF)	67.0	V/kRPM		0.64	V/r/s
K_T (Torque/Amp)	90.6	In·oz/A		0.64	N·m/A
R_T (Terminal Resistance)	1.7	Ohms		1.7	Ohms