

Parallel-Shaft PMDC Brush Gear Motors

PLA 25 Series

1/30 HP, Multi-Reduction Spur/Helical, Hollow Thru Shaft

Allied Motion's PLA series PMDC brush gear motors are designed for battery-powered lifting and sliding applications as in RV slide-outs and bed lifts. These low profile, compact gear motors are available standard with a hollow hex shaft and are wound for 12 VDC. They can also be supplied with up to a 115 VDC winding. Output rated power is 1/30 HP (27 W) continuous.

In addition to lifting and slide-out applications, the PLA series is a good choice for industrial or commercial applications requiring a thru-shaft drive and high output torque at moderate shaft speed. This motor is an ideal fit, for example, for door actuators, conveyor drives and industrial actuation applications.

Options

- Brushless DC motor with integral drive electronics in place of DC brush motor
- High temperature Class H (180 °C) winding insulation
- Weather-proof (IP65) protection rating
- Electric holding brake
- Custom lead-length and connector arrangements
- Shaft extension and mounting provisions for an encoder
- Right- or left-hand output shaft extension
- Up to a 3/4" diameter output shaft



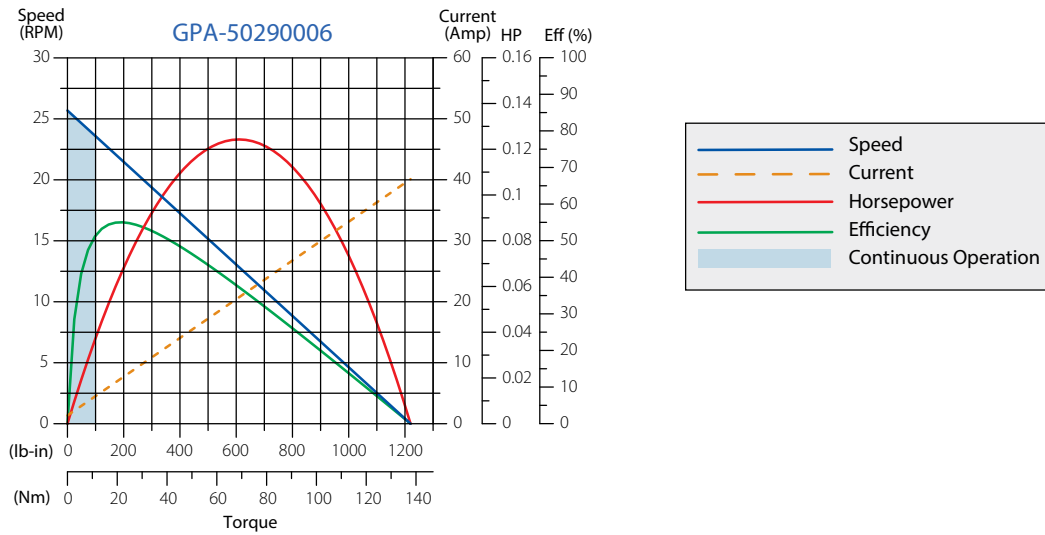
Features & Benefits

- 1/30 HP continuous parallel shaft gear motor for battery-powered applications
- Ideal for lift/slide actuators in RV, mobile home, and vehicle actuator applications
- Hollow hex drive thru shaft
- Multi-stage gearbox configuration for high torque, medium-speed applications
- Alloy steel gearing handles heavy loads
- Cast aluminum gearbox maximizes rigidity and strength
- Class A (105 °C) winding insulation
- Internal brush design for maintenance free operation
- Hex-drive hollow thru shaft enables direct shaft drive configuration
- Long-life synthetic grease lubrication
- Ball and needle bearing construction
- Compact design fits restricted spaces
- IP54 protection rating

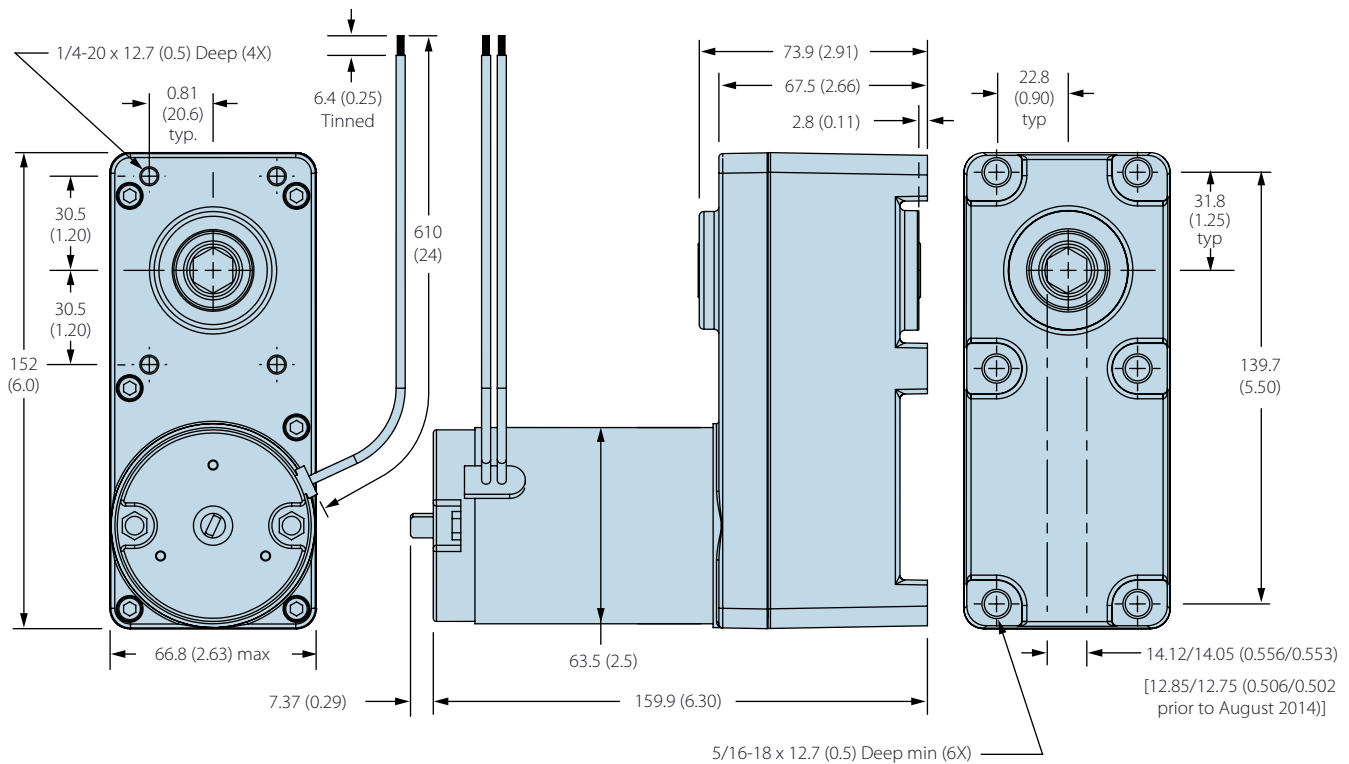
PLA 25 Series Gear Motors – Specifications

Model		GPA-50290006
Type		Parallel-shaft
Motor Type		Permanent-magnet, 2-pole DC brush
Frame Size		63.5 mm (2.5 in)
Winding Voltage		12 VDC
Torque	Rated	11.3 Nm (100 lb.in)
	Peak	84.2 Nm (745.2 lb.in)
Rated Speed		23 rpm
No-load Speed ($\pm 10\%$)		23 - 26 rpm
Rated Power		27 W (0.036 HP)
Current — ADC	Rated	6
	Peak	25
	No-load	3
Gear Ratio		208:1
Peak Efficiency		55%
Rotation (shaft view)		CCW (positive voltage to positive motor terminal)
Bearing Type		Needle roller bearing
Backlash (no load)		36.5 - 109.6 arcmin
Weight		2.2 kg (4.8 lb)
Ambient Operating Temperature at Rated Duty		22 °C max
Ambient Storage Temperature		-30 to 80 °C
IP Rating		IP 54

PLA 25 Series Gear Motors – Performance



PLA 25 Series Gear Motors Dimensions — mm (in)



Allied Motion Solution Centers

Allied Motion Solution Centers provide support to customers around the world from five geographically-strategic locations. Each facility is staffed by experienced application engineers and customer service teams to assist you with all aspects of your motion control needs. We also have a global network of factory-trained Allied Motion Sales Partners to serve you. For contact information on the location nearest you, please see below or visit our website.

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