



# TETRIX® MAX TorqueNADO® Motor Specifications

## General Motor Specifications:

Overall Length	134.1 mm (5.28 in.)
Maximum Diameter	37 mm
Mounting Holes	6 M3 tapped holes on 31 mm bolt circle
Body Material	Steel with plastic encoder housing
Lubrication	Included inside gearbox
Shaft Hardness	45-50 Rockwell C
Motor Weight	324 g
Output Shaft Diameter	6 mm with 0.5 mm deep flat
Output Shaft Style	D shaft
Output Shaft Support	Oil bushing
Output Shaft Length	26 mm
Gear Material	All steel
Gearbox Style	Spur
Voltage (nominal)	12 VDC
Stall Current	8.7 A
Motor Type	DC brushed
Electrical Connection	Powerpoles for motor, 4-pin encoder connector
Wire Length	500 mm (19.5 in.)
Wire Gauge	18 AWG
Encoder Voltage	3.3/5 VDC
Encoder Type	Hall effect/Quadrature
<b>With 60:1 Gearbox (stock)</b>	
No-Load Speed	100 rpm
Stall Torque	700 oz-in.
Encoder Output Counts per Revolution of Output Shaft (cpr)	1,440 pulses
<b>With 40:1 Gearbox (optional)</b>	
No-Load Speed	150 rpm
Stall Torque	466 oz-in.
Encoder Output Counts per Revolution of Output Shaft (cpr)	960 pulses
<b>With 20:1 Gearbox (optional)</b>	
No-Load Speed	300 rpm
Stall Torque	233 oz-in.
Encoder Output Counts per Revolution of Output Shaft (cpr)	480 pulses