



TETRIX® MAX TorqueNADO® DC Motor Specifications

Physical:

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 gear box
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 Ratio	60:1
Gear Material	All steel
Gear Box Style	Spur

Electrical and Performance:

Gear Box Reduction	60:1
No-Load Speed	100 rpm
Voltage (nominal)	12 volts DC
Stall Current	8.7 A
Stall Torque	700 oz-in.
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:

Encoder Voltage	3.3/5 volts DC
Encoder Type	Hall effect
Cycles per Revolution (motor shaft)	6
Cycles per Revolution (output shaft)	360
Countable Events per Revolution (motor shaft)	24
Countable Events per Revolution (output shaft)	1,440