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118 RPM HD Premium Planetary Gear Motor w/Encoder



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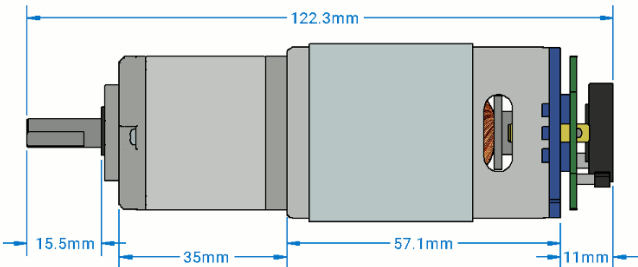
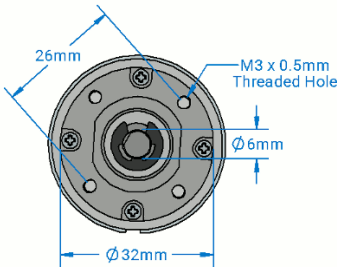
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To enhance the resolution, the encoder is attached to the motor before the gearbox.

Gear train damage can occur if stalled (locked).

*At Nominal Voltage

Voltage (Nominal)	12V
Voltage Range (Recommended)	6V - 12V
Speed (No Load)*	118 rpm
Current (No Load)*	0.53A
Current (Stall)*	20A
Torque (Stall)*	958.2 oz-in (69 kgf-cm)
Gear Ratio	71.165:1
Gear Material	brass primary, nylon secondary, steel tertiary
Gearbox Style	Planetary
Motor Type	DC
Motor Brush Type	Graphite
Output Shaft Diameter	6mm (0.236")
Output Shaft Style	D-shaft

Output Shaft Support	Dual Ball Bearings
Electrical Connection	PH Series JST 6-pin Connector (2mm Pitch)
Operating Temperature	-10°C ~ +60°C
Mounting Screw Size	M3 x 0.5mm
Product Weight	360g (12.70oz)
Encoder: Cycles Per Revolution (Motor Shaft)	12
Encoder: Cycles Per Revolution (Output Shaft)	853.98
Encoder: Countable Events Per Revolution (Motor Shaft)	48
Encoder: Countable Events Per Revolution (Output Shaft)	3,415.92
Encoder Type	Relative, Quadrature
Encoder Sensor Type	Magnetic (Hall Effect)
Encoder Sensor Input Voltage Range	2.4 - 26V
Encoder Sensor Output Pulse Amplitude	~± Sensor Input Voltage

Recommended Products



32mm Bore Bottom
Tapped Clamping
Mount



HD Premium
Planetary Gear
Motor Mount, Face
Tapped



32mm Clamping
Swivel Motor Mount



Set Screw Shaft
Couplers



Drive Wheel
Adaptors (Shaft
Drive)



6mm (0.770")
Clamping Hub



6mm Bore 32 Pitch
Shaft Mount Pinion
Gears



HD Premium
Planetary Gear
Motor Mount, Face
Thru-Hole



PH Series JST 6-pin
connector (2mm
Pitch)



Aluminum Motor
Mount E



12mm Hex Shaft
Wheel Adaptor (2
pack)



6mm (0.770") Set
Screw Hub



6mm Bore 48 Pitch
Shaft Mount Pinion
Gears



6mm Bore Shaft
Mount Bevel Gears

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