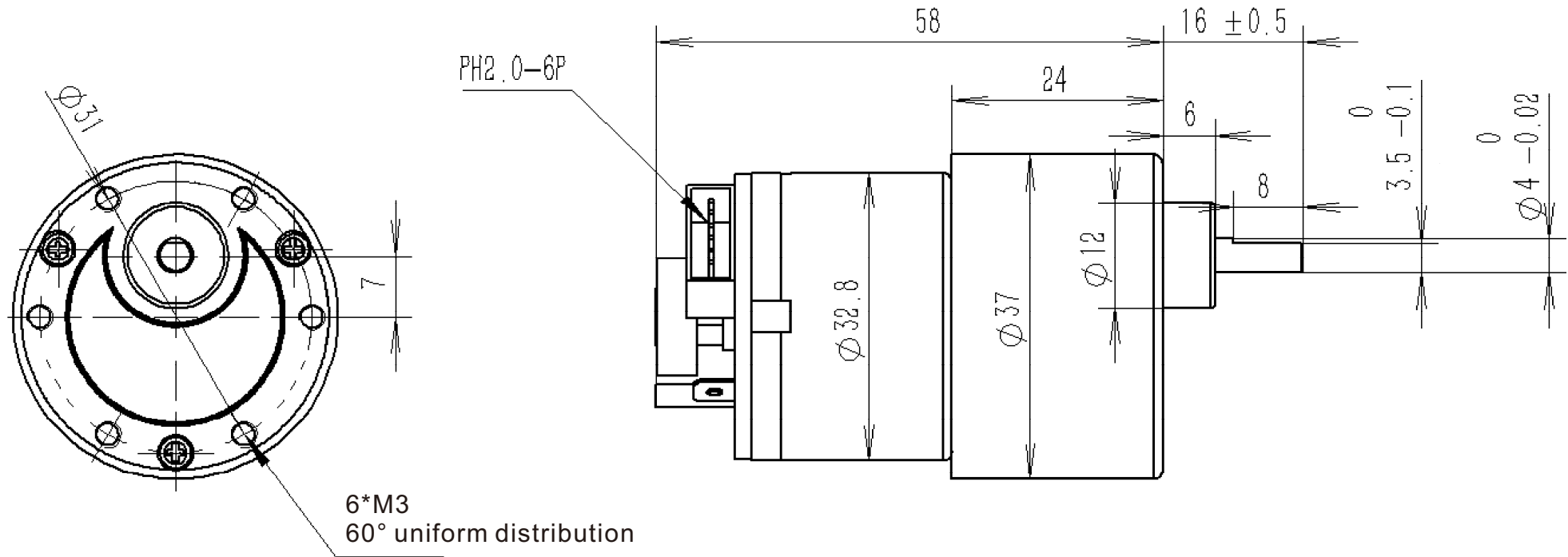


Super High Torque 520 DC Gear Motor with Encoder

SIMPLIFIED DATASHEET



MODEL	Reduction ratio	VOLTAGE		NO LOAD		AT MAXIMUM EFFICIENCY				STARTING	
		OPERATING RANGE	NOMINAL	SPEED	CURRENT	SPEED	CURRENT	TORQUE	OUTPUT	TORQUE	CURRENT
				rpm $\pm 10\%$	A	rpm $\pm 10\%$	A	N. M	w	N. M	A
2024005800	56: 1	6V-15V	12V	178	0.13	150	0.6	0.2	3.2	1	2.95

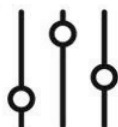
Super High Torque 520 DC Gear Motor with Encoder

SIMPLIFIED DATASHEET

- | | |
|--|---|
| ⊙Item Type:
Gear Motor | ⊙Connector:
encoder with PH2.0 x6P port |
| ⊙Shaft Diameter:
4mm (D shaft) | ⊙Size:
37mm (D) * 72mm |
| ⊙Material:
Copper, metal, magnet | ⊙Weight:
150g |
| ⊙Operating Voltage:
DC 12V | ⊙Performance:
Support adjustable speed
Support forward and reverse rotation |
| ⊙Shaft Diameter:
4mm (D shaft) | High-precision 11-line magnetic ring |
| ⊙D Shaft axis length:
10mm | ⊙Uses :
Can be used in smart home appliances,
office automation, automobiles, personal
care, robotics, electronic lock |



Built-in
inductive drive



Support adjustable
speedFG



FG Signal
Feedback



Overcurrent
protection



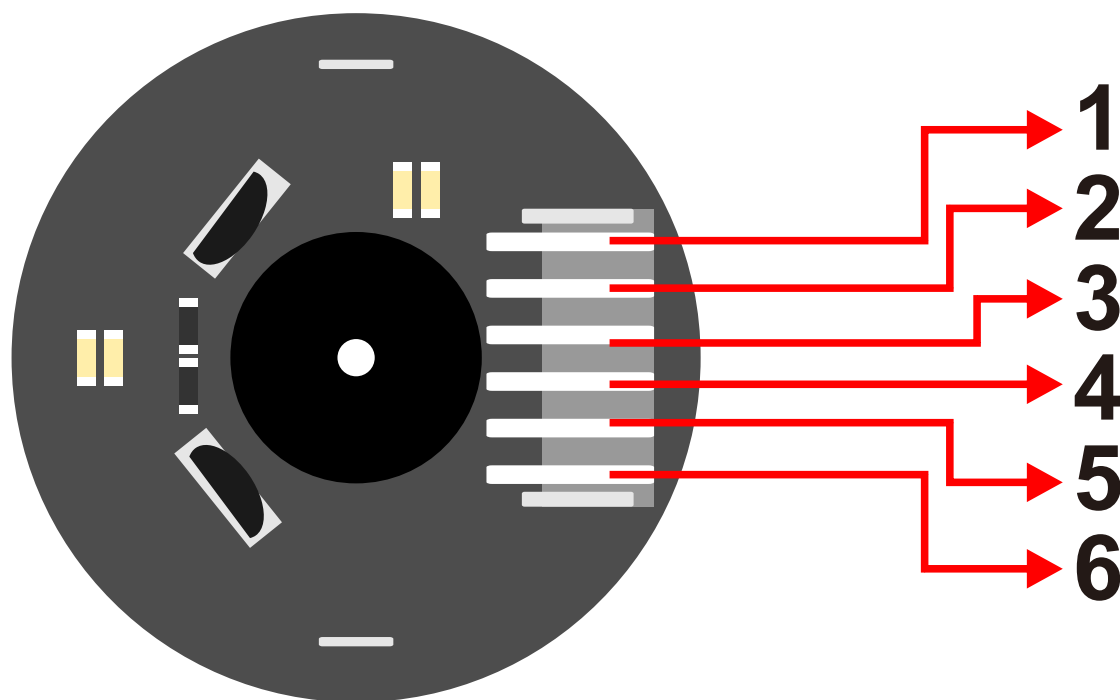
Overvoltage
protection



Overheating
protection

Interface definition of encoder

- ⊙ A/B two channels output
- ⊙ Encoder working voltage: 3.3V-5V
- ⊙ Working temperature: -40°C - 120°C



1	M1	Motor power pin1	exchange with 6 to reverse the rotation
2	GND	GND for encoder	
3	C1	Signal for encoder	Resolution:11 PPR
4	C2	Signal for encoder	
5	VCC	VCC for encoder	
6	M2	Motor power pin2	exchange with 1 to reverse the rotation

Features of each part of the motor



Pure copper coil rotor



All metal gearbox



D-shaped output shaft



High quality carbon brush



High strength magnetic tile