

12V Gear Motor Reversed With Encoding disk Customized Speed High Torque Speed Measuring Motor For DIY Toy

Item specifics

Efficiency:IE 2
Continuous Current(A): 1.3A
Voltage(V): 12V
Output Power: 13w
Torque: 2 kg.cm-60kg.cm
Type:Gear Motor
Stall current:10a
No load current:0.2A
Shaft diameter:6mm
shaft length:15.5mm
motor diameter:37mm
encoder:yes
Motor type:Dc Brush Gear Motor
line length:200mm
voltage range:6-24v
Construction:Permanent Magnet
Protect Feature: Totally Enclosed
Usage:Car,Electric Bicycle
Certification:CE,ROHS

Speed(RPM):

12V: 640rpm 400rpm 212rpm 133rpm 71rpm 44rpm 30rpm 23rpm 14rpm 8rpm 5rpm

Remark: Pls confirm the voltage and speed before ordering.

Tipp:

The speed at voltage of 6V is half of the voltage 12V.

The speed at voltage of 24V is two times than the voltage 12V.

Specifications

1.Standard Operating Conditions

1-1 Rated Voltage: 12V

1-2 Direction of Rotation:CW when viewed from output shaft side

1-3Operating Temperature and Humidity:Temperature range of -10C~+50C,Humidity range of 30%~80%.

1-4Storage Temperature:Temperature range of -20C~+60C

2.Measuring Conditions:

2-1Motor Position:To be place t horizontally when measuring

2-2Power Supply: Regulated DC power supply

--No load speed:5-640rpm.

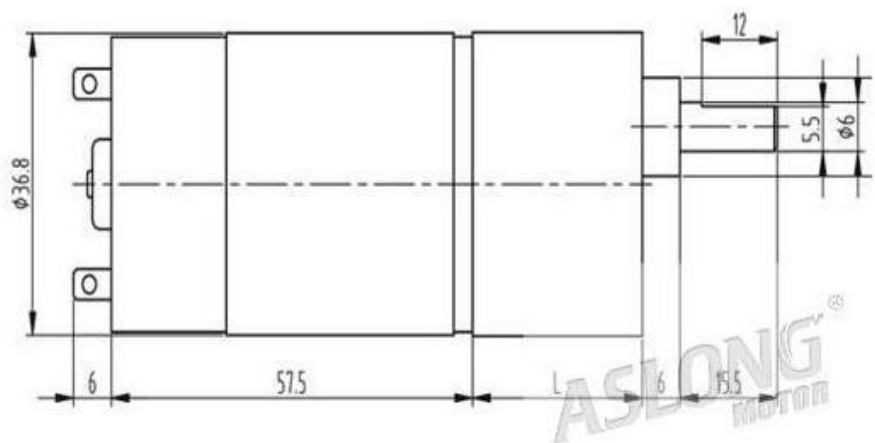
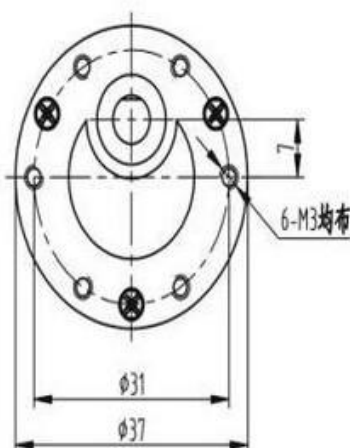
--Robotics, Small Appliance, Fanner, Electric Curtain;

--Medical Pump, Surgery Tools, Medical Stirrer, centrifugal Machine; Electric Valve, Actuator, medical device.

--Electric motor,low noise,low current and no spark.

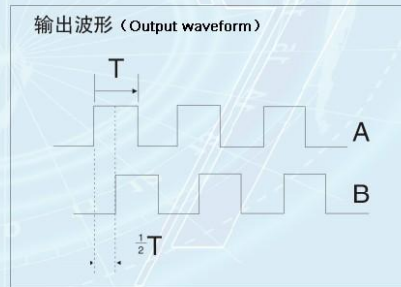
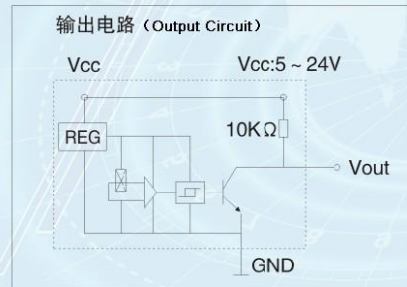
--Reduction ratio: 1/6.25,1/10,1/18.8,1/30,1/56,1/90,1/131,1/168,1/270,1/506,1/810.

Size:



Encoder Output:

Dmm	12	16	20	24	28	36	42
A,B	3	3	12	12	16	16	18



connect of the encoder

The connection of the encoder:

1. MOTOR+
2. MOTOR-
3. HALL SENSOR GND
4. HALL SENSOR V_{cc}
5. HALL SENSOR A V_{out}
6. HALL SENSOR B V_{out}

relation about Voltage and speed (rpm)

item	voltage		no load		At maximum efficiency				stall		L
	range	test	speed	current	speed	current	torque	wattage	torque	current	
ratio		v	rpm	a	rpm	a	kg.cm	w	kg.cm	a	MM
6.25	6-24v	12	640	0.2	448	1.6	2	13	10	10	19
10	6-24v	12	400	0.2	292	1.6	3.5	13	18	10	19
18.8	6-24v	12	212	0.2	159	1.55	6	13	30	10	22
30	6-24v	12	133	0.2	100	1.5	10	13	40	10	22
56	6-24v	12	71	0.2	54	1.5	19	13	70	10	24
90	6-24v	12	44	0.2	34	1.4	30	13	ban	10	24
131	6-24v	12	30	0.2	24	1.4	45	13	ban	10	26.5
168	6-24v	12	23	0.2	18	1.35	50	13	ban	10	26.5
270	6-24v	12	14	0.2	12	1.3	60	13	ban	10	26.5
506	6-24v	12	8	0.2	7	1.3	60	13	ban	10	29
810	6-24v	12	5	0.2	4	1.3	60	13	ban	10	29