12V DC Gear Motor Encoder Photoelectric Encoder Motor 6-24V 8.6-977rpm Optical Encoder Motor With Encoding disc

Item specifics

Efficiency:IE 2

Continuous Current(A):0.12a-0.3a

Voltage(V): 12V Output Power:1.25w Torque: 0.11 kg.cm-12kg.cm Type:Gear Motor

diameter: 25mm Construction:Permanent Magnet Protect Feature: Totally Enclosed Usage:Car,Electric Bicycle

Speed(RPM):

12V: 977rpm 463rpm 201rpm 126rpm 95rpm 55rpm 41rpm 25rpm 19rpm 11rpm 8.6rpm

Remark: Pls confirm the voltage and speed before ordering.

Specifications

1.Standard Operating Conditions

1-1 Rated Voltage: 12V

Certification:CE,ROHS

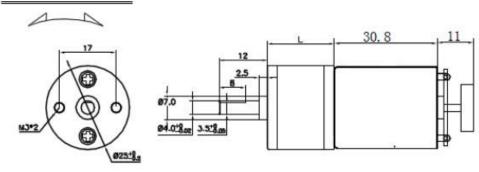
- 1-2 Direction of Rotation:CW when viewed from output shaft side
- 1-3Operating Temperature and Humidity: Temperature range of -10C~+50C, Humidity range of 30%~80%.
- 1-4Storage Temperature:Temperature range of -20C~+60C

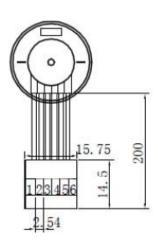
2.Measuring Conditions:

- 2-1Motor Position: To be place t horizontally when measuring
- 2-2Power Supply: Regulated DC power supply
- --No load speed:8.6-977rpm.
- --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: 1/4.4,1/9.28,1/21.3,1/34,1/45,1/78,1/103,1/171,1/226,1/378,1/500

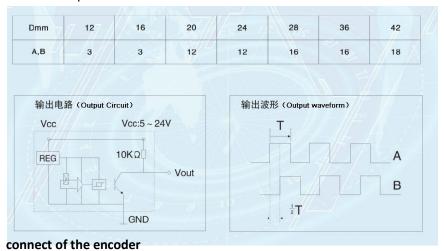
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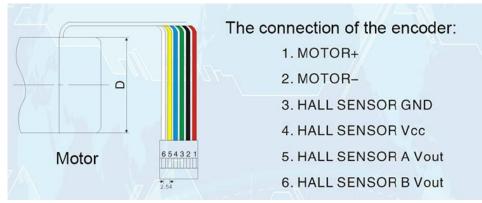
DIRECTION OF ROTATION





Encoder Output:





Line function definition

The two root yellow line is the motor poles

The green line and white line is pulse output line, theory with a can, at the same time with two can test the motor turning Encoder power wiring is red and the black, red for positive, black for negative, 3.5 5 v voltage

Note: red and black line never wrong, or you will burn out the encoder.

Relation about Voltage and speed (rpm)

Workable Range	Rated Volt.V		current	speed	current ma	Torque kg.cm	200	Torque kg.cm	Current	Ratio 1:00	Size mm	unit g
6-24V	12	463	46	370	300	0.23	1.25	1.1	1	9. 28	17	82
6-24V	12	201	46	168	250	0.53	1. 25	2.65	1	21.3	19	84
6-24V	12	126	46	100	250	0.85	1.25	4.2	1	34	21	85
6-24V	12	95	46	76	200	1.1	1.25	5.5	1	45	21	86
6-24V	12	55	46	44	200	1.95	1.25	9. 7	1	78	23	88
6-24V	12	41	46	32	150	2.5	1.25	12.5	1	103	23	89
6-24V	12	25	46	20	150	4. 2	1.25	21	1	171	25	91
6-24V	12	19	46	15	120	5.6	1.25	28	1	226	25	92
6-24V	12	11	46	8.8	120	9. 45	1.25	47	1	378	27	94
6-24V	12	8.6	46	6.8	120	12	1.25	60	1	500	27	96