Brushless DC Motor

12 VDC Built-In Driver



General Specifications

Winding Type	Star
Insulation Class	B
Ambient Temperature Range	-20°C ~ +50°C
Insulation Resistance	100 MΩ Min. 500 VDC
Dielectric Strength	500 VAC 1 minute

Customized solutions on request.

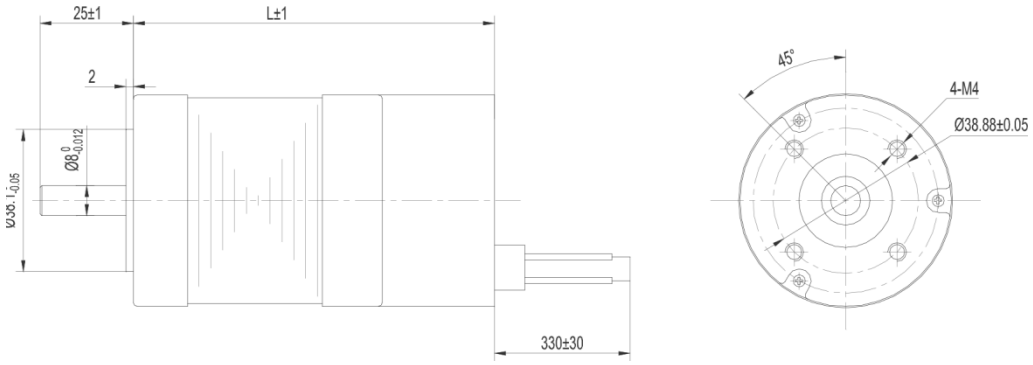
Hetai Motor

Electrical Specifications

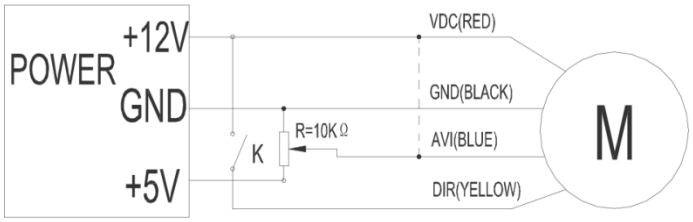
Model		57BID01-12	57BID02-12	57BID03-12	57BID04-12
Number of Poles		4	4	4	4
Number of Phases		3	3	3	3
Rated Voltage	*VDC*	12±10%	12±10%	12±10%	12±10%
Rated speed	*RPM*	3000	3000	3000	3000
Rated Torque	*Nm*	0.057	0.11	0.165	0.22
Rated Current	*A*	2.4	4.6	6	8.8
Output Power	*W*	15	34	52	69
Peak Torque	*Nm*	0.18	0.38	0.58	0.8
Peak Current	*A*	7.5	14	18	24
Torque constant	*Nm/A*	0.023	0.022	0.023	0.022
Back EMF	*V/KRPM*	2.4	2.3	2.4	2.3
Rotor inertia	gcm^2	32	42	58	72
Body Length	*mm*	71	76	86	96
Mass	*kg*	0.45	0.6	0.75	0.9

Caution: Peak Torque is provided for the purpose of performance calculations only.
Operating near, or at this condition can result in motor damage.

Mechanical Dimensions



Wiring diagram



Specifications

Switching power supply output current shall be not less than the motor peak current; through AVI terminals can be governor does not need, it can short VDC and then motor running at rated speed; DIR terminals can be controlled the motor rotation direction, when switch off, the motor anti-clockwise rotation, when linking-up, the motor rotating clockwise.

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The specifications are believed to be accurate and reliable. However, the suitability has to be determined for a specific application. Specifications are subject to change without notice.