Brushless DC Motor

12 VDC Built-In Driver

General Specifications

Winding TypeSiInsulation ClassBAmbient Temperature Range-2Insulation Resistance10Dielectric Strength50Customized solutions on request.

Star B -20°C ~ +50°C 100 M Ω Min. 500 VDC 500 VAC 1 minute



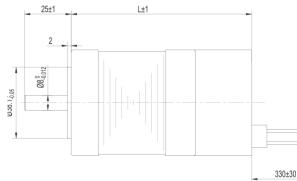
Hetai Motor

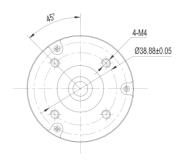
Electrical Specifications

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	Α	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	Α	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

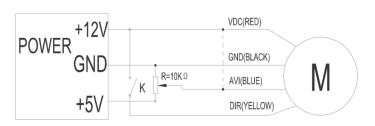
Caution: Peak Torque is provided for the purpose of performance calculations only. Operating near, or at this condition can result in motor damage.

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.

