

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.

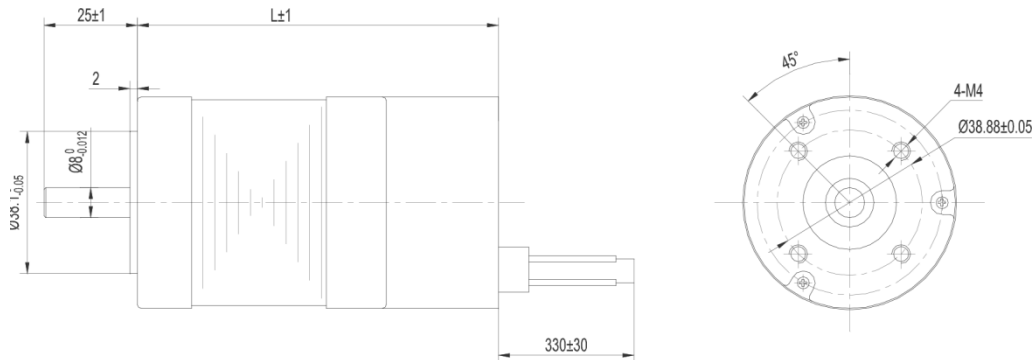


Electrical Specifications

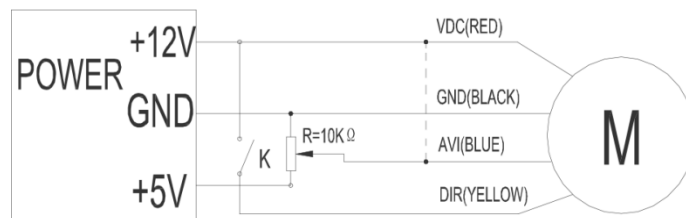
Model		57BID01-12	57BID02-12	57BID03-12	57BID04-12
Number of Poles		4	4	4	4
Number of Phases		3	3	3	3
Rated Voltage	VDC	12±10%	12±10%	12±10%	12±10%
Rated speed	RPM	3000	3000	3000	3000
Rated Torque	Nm	0.057	0.11	0.165	0.22
Rated Current	A	2.4	4.6	6	8.8
Output Power	W	15	34	52	69
Peak Torque	Nm	0.18	0.38	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.