

Integrated BLDC motors 57BL-ID Series 12V

General Specifications

Winding Type	Star
Hall Effect angle	120° electrical angle
Insulation Class	B
Ambient Temperature Range	-20°C~+50°C
Insulation Resistance	100MΩ Min.500V DC
Dielectric Strength	500V AC 1 minute



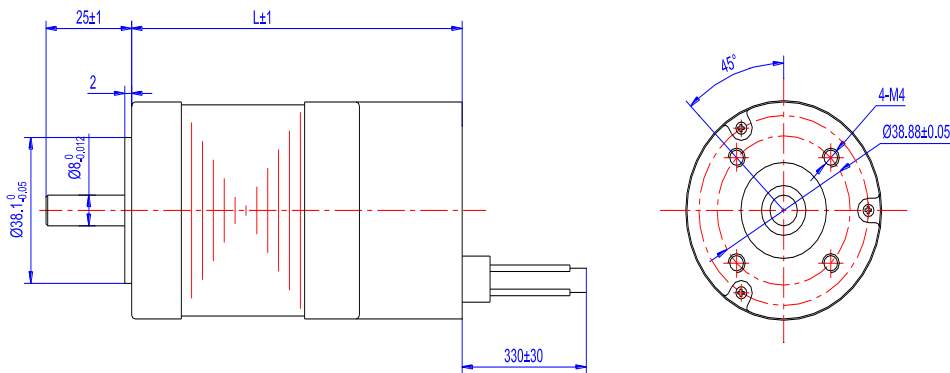
Technical Specifications

Model	57BID01-12	57BID02-12	57BID03-12	57BID04-12
Number of Poles	4			
Number of Phase	3			
Rated Voltage VDC	12 VDC ± 10 %			
Rated speed RPM	3000			
Rated Torque N-m	0.057	0.11	0.165	0.22
Rated Current Amps	2.4	4.6	6	8.8
Output Power Watts	15	34	52	69
Peak Torque N-m	0.18	0.38	0.58	0.8
Peak Current Amps	7.5	14	18	24

Integrated BLDC motors 57BL-ID Series 12V

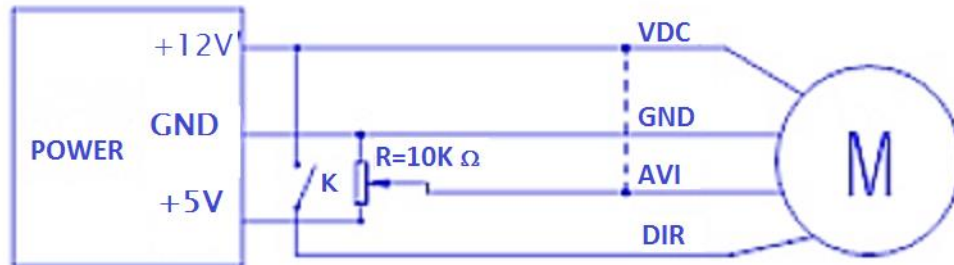
Model	57BID01-12	57BID02-12	57BID03-12	57BID04-12
Torque constant N-m/Amps	0.023	0.022	0.023	0.022
Back EMF V/kRPM	2.4	2.3	2.4	2.3
Rotor inertia g*cm ²	32	42	58	72
Body Length mm	71	76	86	96
Mass (kg)	0.45	0.6	0.75	0.9

Mechanical Dimensions



Integrated BLDC motors 57BL-ID Series 12V

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.

Softing Italia

Via M. Kolbe 6,
20090 Cesano Boscone (MI) - Italy
Tel: +39 02 4505171

Integrated BLDC motors 57BL-ID Series 12V

Email: info@softingitalia.it

Web: www.softingitalia.it/motors