

Brushless DC Motor

42BLF Series

General Specifications

Winding Type	Star
Hall Effect Angle	120°C Electrical Angle
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.

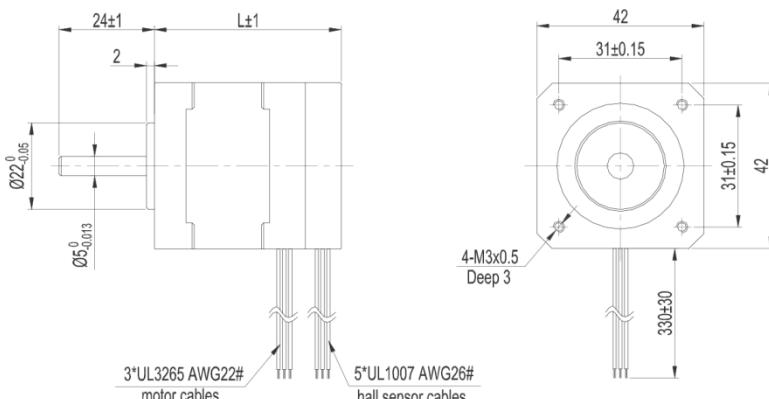


Electrical Specifications

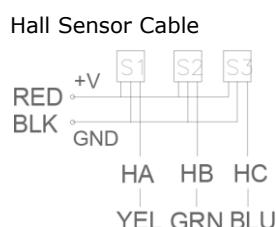
Model	42BLF01	42BLF02	42BLF03
Number of Poles	8	8	8
Number of Phases	3	3	3
Rated Voltage	VDC	24	24
Rated Speed	RPM	4000	4000
Rated Torque	Nm	0.063	0.125
Rated Current	A	1.9	3.4
Output Power	W	26	52
Peak Torque	Nm	0.18	0.38
Peak Current	A	5.7	10.2
Torque Constant	Nm/A	0.035	0.036
Back EMF	V/KRPM	3.7	3.8
Rotor Inertia	gcm²	24	48
Body Length	mm	47	63
Mass	kg	0.33	0.48

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



Connection diagram



Note: Hall Sensor Power Supply voltage +5 to +20 VDC