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

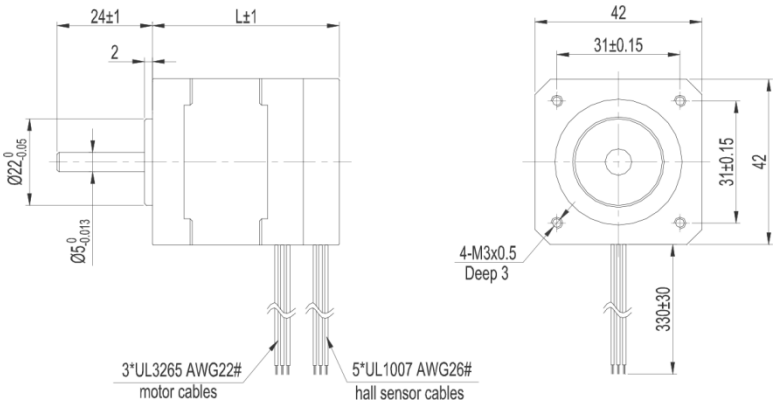
Customized solutions on request.

Electrical Specifications

Model		42BLF01	42BLF02	42BLF03
Number of Poles		8	8	8
Number of Phases		3	3	3
Rated Voltage	*VDC*	24	24	24
Rated Speed	*RPM*	4000	4000	4000
Rated Torque	*Nm*	0.063	0.125	0.188
Rated Current	*A*	1.9	3.4	5.7
Output Power	*W*	26	52	78
Peak Torque	*Nm*	0.18	0.38	0.75
Peak Current	*A*	5.7	10.2	18
Torque Constant	*Nm/A*	0.035	0.036	0.036
Back EMF	*V/KRPM*	3.7	3.8	3.8
Rotor Inertia	gcm^2	24	48	72
Body Length	*mm*	47	63	79
Mass	*kg*	0.33	0.48	0.63

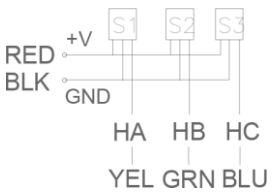
Caution: Peak Torque is provided for the purpose of performance calculations only.
Operating near, or at this condition can result in motor damage.

Mechanical Dimensions



Connection diagram

Hall Sensor Cable



Wiring Cable

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

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