

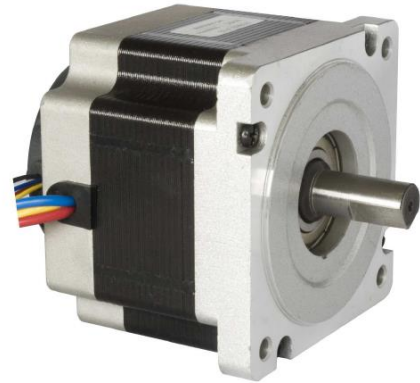
Brushless DC Motor

86BLF Series

General Specifications

Winding Type	Star
Hall Effect Angle	120° Electrical Angle
Insulation Class	B
Ambient Temperature Range	-20°C ~ +50°C
Insulation Resistance	100 MΩ Min. 500 VDC
Dielectric Strength	750 VAC 1 minute

Customized solutions on request.

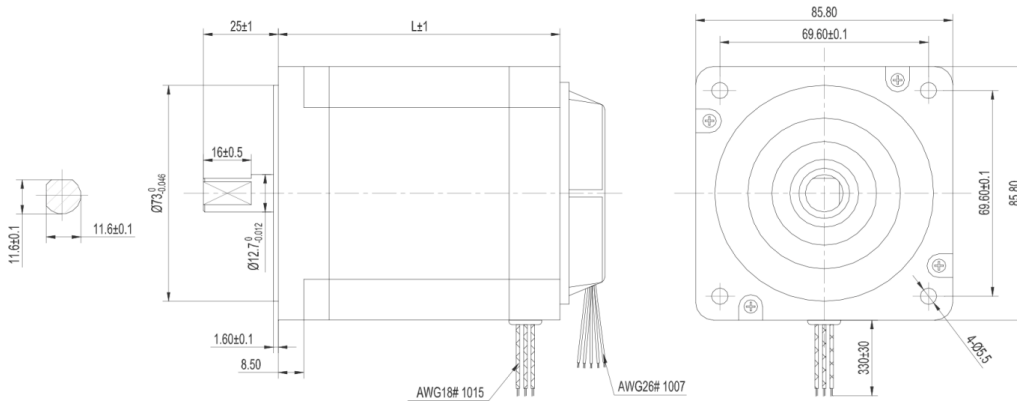


Electrical Specifications

Model	86BLF01	86BLF02	86BLF03	86BLF04	86BLF06	86BLF07
Number of Poles	8	8	8	8	8	8
Number of Phases	3	3	3	3	3	3
Rated Voltage	VDC 48	48	48	48	48	48
Rated speed	RPM 3000	3000	3000	3000	3000	3000
Rated Torque	Nm 1.4	1.05	0.7	0.35	1.8	2.1
Rated Current	A 14	9.6	6.6	3.9	18	22
Output Power	W 440	330	220	110	550	660
Peak Torque	Nm 4.2	3.2	2.1	1.05	5.4	6.3
Peak Current	A 38.0	29.0	19.8	10.8	46	55
Torque constant	Nm/A 0.115	0.115	0.112	0.11	0.115	0.116
Back EMF	V/KRPM 12.0	12.0	11.8	11.5	12.0	12.2
Rotor inertia	gcm ² 1250	950	650	350	1550	1850
Body Length	mm 94	81	67	57	109	124
Mass	kg 2.75	2.2	1.75	1.1	2.75	2.75

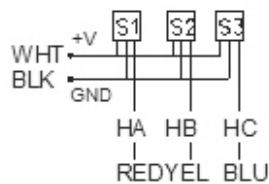
Caution: Peak Torque is provided for the purpose of performance calculations only. Operating near, or at this condition can result in motor damage.

Mechanical Dimensions

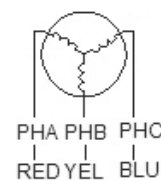


Connection diagram

Hall Sensor Cable



Wiring Cable



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