# **Brushless DC Motor**

## **57BLF Series**

### General Specifications

Winding Type	Star		
Hall Effect Angle	120°C Electrical Angle		
Insulation Class	В		
Ambient Temperature Range	-20°C ~ +50°C		
Insulation Resistance	100 MΩ Min. 500 VDC		
Dielectric Strength	700 VAC 1 minute		
Customized solutions on request.			



#### **Electrical Specifications**

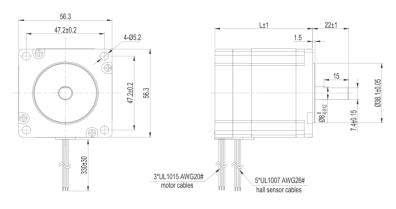
Model		57BLF01	57BLF02	57BLF03	57BLF04
Number of Poles		8	8	8	8
Number of Phases		3	3	3	3
Rated Voltage	VDC	24	24	24	24
Rated Speed	RPM	3000	3000	3000	3000
Rated Torque	Nm	0.2	0.4	0.6	0.8
Rated Current	Α	4	7.8	12	15
Output Power	W	63	125	188	250
Peak Torque	Nm	0.6	1.2	1.8	2.4
Peak Current	Α	12	23.5	36	45
Torque Constant	Nm/A	0.065	0.066	0.066	0.066
Back EMF	V/KRPM	6.23	6.3	6.3	6.3
Rotor Inertia	gcm <sup>2</sup>	120	170	220	270
Body Length	mm	59	80	101	122
Mass	kg	0.65	1.0	1.4	2.0

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

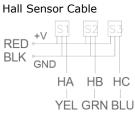
Wiring Cable

PHA PHB PHC

#### **Mechanical Dimensions**



#### **Connection diagram**

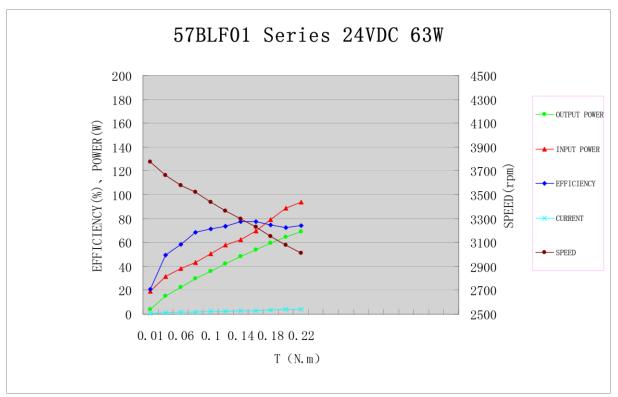


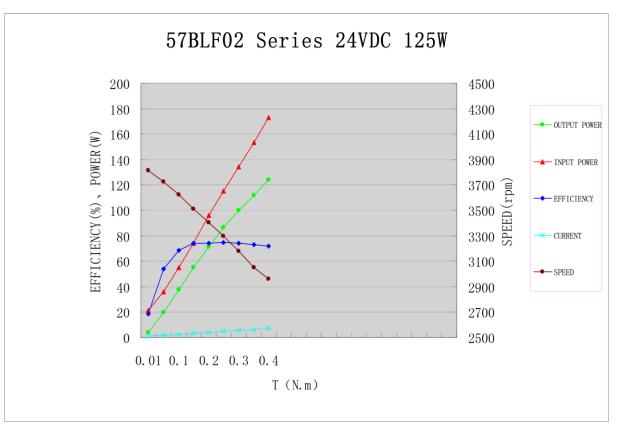
Note: Hall Sensor Power Supply voltage +5 to +20 VDC



The specifications are believed to be accurate and reliable. However, the suitability has to be determined for a specific application. Specifications are subject to change without notice.

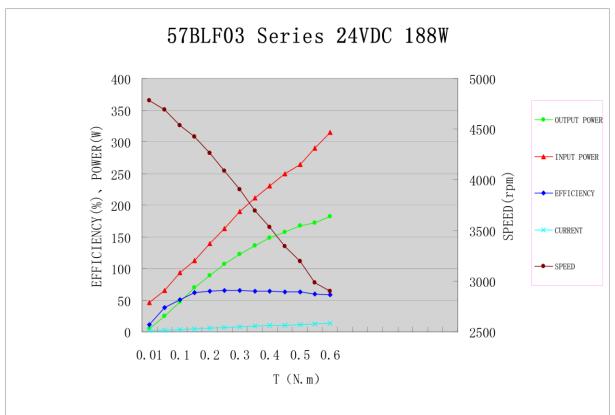
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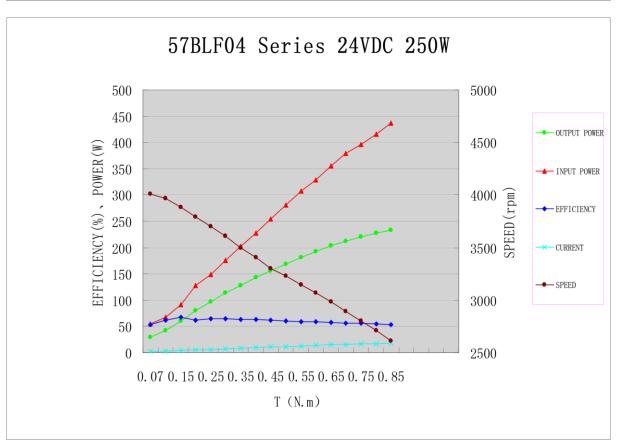






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