

Φ36-3024-24 Brushless DC Motor Product Datasheet

Ф36-3024-24 BLDC Overview

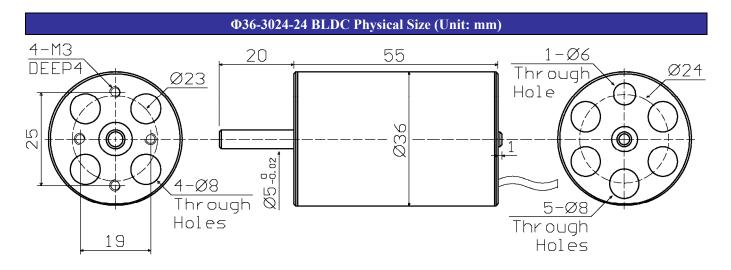
- Three Phase, Six Step, Full Wave, Y-Circuit
- Sintered Nd-Fe-B Permanent Magnet Rotor
- Sensorless
- Step (Cogging)
- Slot



Parameters	Φ36-3024-24 BLDC Absolute Maximum Ratings					
Rotor/Bearing Broken Speed	40000	rpm				
Winding and Rotor Temperature	-20 to +130	°C				
Ambient Temperature	-20 to +85	°C				
Notice: The Absolute Maximum Ratings are those values beyond which the safety of the device cannot be guaranteed						

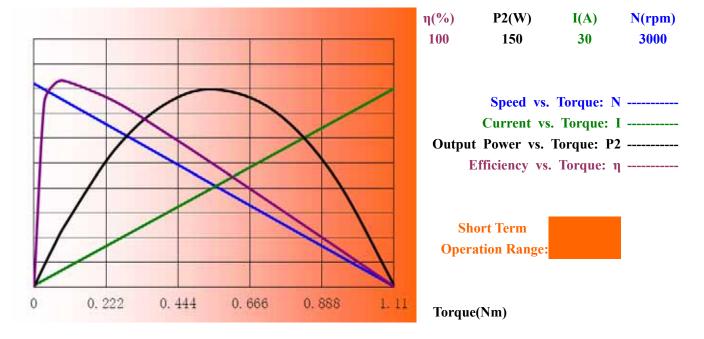
Parameters	Ф36-3024-24 BLD	Unit	
Resistance (Including Line)		Ohm	
Inductance (Including Line)		mH	
Speed-Torque Gradient		rpm/Nm	
Torque Constant		Nm/A	
Speed Constant		rpm/V	
Back-EMF Constant		mV/rpm	
Rotor Magnetic Poles		4	Poles
Ball Bearing No Load Continuous Life (At Nominal Voltage)	10000	(Please order if have special requirement)	Hours
Weight (Including Line)	Approximate	250	g

IMPORTANT NOTICE: Please keep the cooling holes unblocked and air blast cooling.



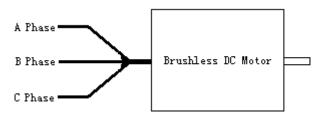
② 北京亿利泰达科技有限公司 Beijing Eletechnic Ltd.

Parameters	Ф36-3024-24 BLDC Performance Characteristics (20°С)						
Nominal Voltage	24						
Maximum Output Power (P2)	480					W	
(See Curves Below)	No Load Point Some Loaded Points Performance						
Output Torque (T)	0	0.05	0.1	0.15	0.2	Nm	
Output Speed (N)	16400	15700	14900	14200	13500	rpm	
Input Current (I)	0.7	4.3	7.8	11.4	15.0	А	
Output Power (P2)	0	82	156	223	283	W	
Efficiency (η)	0	80	83	81	79	%	
External Forced Ventilation Cooling	If the shell temperature of the motor is higher than 85°C, more effective cooling equipments must be installed. Otherwise the motor may be damaged by hotness						



Φ36-3024-24 BLDC Connection Diagram

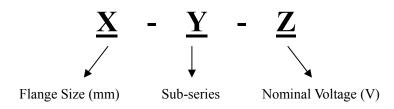
• The running direction depends on the connection sequence of three phase lines. Exchanging any two lines of the three will cause the motor to run in the opposite direction.



• Line Length: 50mm, Φ4 bullet plugs (Male).



Eletechnic BLDC Motor Product Code Regulation



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How to reach us:

Address: Chang Ping Qu, Er Bo Zi Gong Ye Yuan, Bei Qu Zhong Lu No.7 Beijing, 102208 P. R. China Tel: 0086-10-68422061 Fax: 0086-10-68422061 EMAIL: <u>SALES@ELETECHNIC.COM</u> <u>HTTP://WWW.ELETECHNIC.COM</u> Beijing Eletechnic Ltd. Product Datasheet http://www.



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