

60BLS Series Brushless Dc Motor

FT AUTOMATION

Observe • Understand • Solve

General specification

Item	Specification
Winding type	Delta
Hall effect angle	120degree electrical angle
Shaft run out	0.025mm
Radial play	0.025mm@460g
End play	0.025mm@4000g
Max.radial force	75N@10mm from the flange
Max.axial force	15N
Insulation class	Class B
Dielectric Strength	500VDC for one minute
Insulation resistance	100M Ω Min.500VDC



Electric connection

Lead NO.	Lead Color	Lead Gauge	Function	DESCRIPTION
1	Red	UL1007/26AWG	VCC	SUPPLY VOLTAGE FOR HALL SENSORS
2	Black		GND	GROUND FOR HALL SENSORS
3	Yellow		HALL A	
4	Green		HALL B	
5	Blue	UL1007/20AWG	HALL C	
6	Yellow		PHASE U	
7	Green		PHASE V	
8	Blue		PHASE W	

Technique Specification

Model		60BLS01	60BLS02	60BLS03
Voltage	V		36	
Number of poles			8	
Number of phase			3	
No load speed	rpm	4100	4100	4100
Rated torque	Nm	0.25	0.5	0.75
Rated Speed	rpm	3000	3000	3000
Rated Current	A	3	6	9
Torque(max)	Nm	0.75	1.5	2
Back-EMF constant	V/Krpm	6.2	6.5	6.5
Torque Constant	Nm/A	0.043	0.045	0.041
Resistance	ohm	0.59	0.26	0.2
Weight	Kg	0.9	1.2	1.6
Length	mm	78	99	120

Drawing

