

70BLS Series Brushless Dc Motor

FT AUTOMATION

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General specification

Item	Specification
Winding type	Delta
Hall effect angle	120degree electrical angle
Shaft run out	0.05mm
Radial play	0.02mm@450g
End play	0.02mm@450g
Max.radial force	100N@10mm from the flange
Max.axial force	60N
Insulation class	Class B
Dielectric Strength	500VDC for one minute
Insulation resistance	100MΩ 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	UL1007/18AWG	HALL C	
6	Yellow		PHASE U	
7	Green		PHASE V	
8	Blue		PHASE W	

Technique Specification

Model		70BLS01	70BLS02	70BLS03
Voltage	V		48	
Number of poles			8	
Number of phase			3	
No load speed	rpm	3600	3600	3600
Rated torque	Nm	0.5	1	1.5
Rated Speed	rpm	3000	3000	3000
Rated Current	A	4.3	8.7	12.9
Torque(max)	Nm	1.5	3	4.5
Back-EMF constant	V/Krpm	7.1	7.3	7.5
Torque Constant	Nm/A	0.095	0.098	0.099
Resistance	ohm	1.2	0.6	0.3
Weight	Kg	1.7	2.2	2.8
Length	mm	86	116	136

Drawing

