

110BLS 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	0.06mm@450g
End play	0.08mm@450g
Max.radial force	250N@20mm from the flange
Max.axial force	100N
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	UL1007/12AWG	HALL C	
6	Yellow		PHASE U	
7	Green		PHASE V	
8	Blue		PHASE W	

Technique Specification

Model		110BLS01	110BLS02	110BLS03	110BLS04
Voltage	V			48	
Number of poles				8	
Number of phase				3	
No load speed	rpm	2900	2800	2500	2700
Rated torque	Nm	1.65	3.3	5	6.6
Rated Speed	rpm	2600	2400	2200	2400
Rated Current	A	13	23	32	46
Torque(max)	Nm	6	12	18	23
Torque Constant	Nm/A	0.13	0.14	0.14	0.14
Resistance	ohm	0.5	0.25	0.16	0.12
Weight	Kg	4.2	5.5	6.8	8.1
Length	mm	93	123	153	183

Drawing

