

57HBL(S)Series Higher Torque Version 57mm

FT AUTOMATION

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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	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	UL1007/20AWG	HALL C	
6	Yellow		PHASE U	
7	Green		PHASE V	
8	Blue		PHASE W	

Technique Specification

Model		57HBL(S)01	57HBL(S)02	57HBL(S)03	57HBL(S)04
Voltage	V			36	
Number of poles				8	
Number of phase				3	
No load speed	rpm	5200	5200	5300	5400
Rated torque	Nm	0.14	0.28	0.43	0.49
Rated Speed	rpm	4000	4000	4000	4000
Rated Current	A	2.2	4.5	6.8	7.9
Torque(max)	Nm	0.4	0.6	0.9	1.5
Back-EMF constant	V/Krpm	4.5	4.8	4.83	4.9
Torque Constant	Nm/A	0.072	0.078	0.08	0.09
Resistance	ohm	2	0.9	0.7	0.5
Weight	Kg	0.5	0.8	1.1	1.5
Length	mm	55	75	95	115

Drawing

