

86RBL Series Round Type 86mm

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	220N@20mm from the flange
Max.axial force	80N
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	UL1007/14AWG	HALL C	
6	Yellow		PHASE U	
7	Green		PHASE V	
8	Blue		PHASE W	

Technique Specification

Model		86RBL01	86RBL02	86RBL03
Voltage	V		48	
Number of phase			3	
No load speed	rpm	3600	3600	3600
Rated torque	Nm	1.0	1.8	2.5
Rated Speed	rpm	3000	3000	3000
Rated Current	A	8.6	14.8	20
Torque(max)	Nm	3.0	5.4	7.5
Back-EMF constant	V/Krpm	9.8	9.8	9
Torque Constant	Nm/A	0.13	0.13	0.14
Resistance	ohm	0.32	0.14	0.1
Weight	Kg	2	2.7	3.4
Length	mm	80	105	130

Drawing

