

80RBL Series Round Type 80mm

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	200N@20mm 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		80RBL01	80RBL02	80RBL03	80RBL04
Voltage	V	24			
Number of phase		3			
No load speed	rpm	4200	4200	4200	4200
Rated torque	Nm	0.25	0.5	0.75	1
Rated Speed	rpm	3000	3000	3000	3000
Rated Current	A	5.2	10.5	15	17.5
Torque(max)	Nm	0.75	1.57	2.36	3.1
Back-EMF constant	V/Krpm	9	9.2	9.5	9.8
Torque Constant	Nm/A	0.04	0.05	0.052	0.059
Resistance	ohm	0.5	0.43	0.35	0.3
Weight	Kg	1.2	1.7	2.3	2.8
Length	mm	75	95	115	135

Drawing

