

28BL 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	0.025mm
Radial play	0.02mm@450g
End play	0.08mm@450g
Max.radial force	15N@10mm from the flange
Max.axial force	10N
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	UL1007/22AWG	HALL C	
6	Yellow		PHASE U	
7	Green		PHASE V	
8	Blue		PHASE W	

Technique Specification

Model	22BL01	28BL02	28BL03
Number of phase	3	3	3
Rated voltage (VDC)	15	24	24
Rated speed (RPM)	8000	10000	3700
Continuous stall torque (mN.m)	8.4	17	60
Rated torque (mN.m)	7	14.12	50
Rated power (W)	6	14.78	16
Peak torque (mN.m)	21	42.4	150
Peak current (A)	2.5	2.8	3
Line to line resistance (ohms)	8	4.63	4.67
Line to line inductance (mH)	2	3	3.5
Torque constant (mNm/A)	13.7	16	50
Rotor inertia (g.cm2)	1.23	2.12	5.98
Body length (mm)	26	38	77
Weight (Kg)	0.060	0.082	0.280

Drawing

