

22BL Series Brushless Dc Motor

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	10N@10mm from the flange
Max.axial force	2N
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	UL1061/28AWG	VCC	SUPPLY VOLTAGE FOR HALL SENSORS
2	Black		GND	GROUND FOR HALL SENSORS
3	Yellow		HALL A	
4	Green	UL1007/26AWG	HALL B	
5	Blue		HALL C	
6	Yellow		PHASE U	
7	Green		PHASE V	
8	Blue		PHASE W	

Technique Specification

Model	22BL01	22BL02
Number of phase	3	3
Rated voltage (VDC)	24	24
Rated speed (RPM)	4600	3500
Continuous stall torque (mN.m)	9.6	26.4
Rated torque (mN.m)	8.0	22.0
Rated power (W)	3.8	8
Peak torque (mN.m)	21	50
Peak current (A)	1.1	1.5
Line to line resistance (ohms)	23	11.8
Line to line inductance (mH)	6.2	4.2
Torque constant (mNm/A)	30.2	35.5
Rotor inertia (g.cm ²)	0.66	1.32
Body length (mm)	45	68
Weight (Kg)	0.07	0.12

Drawing

