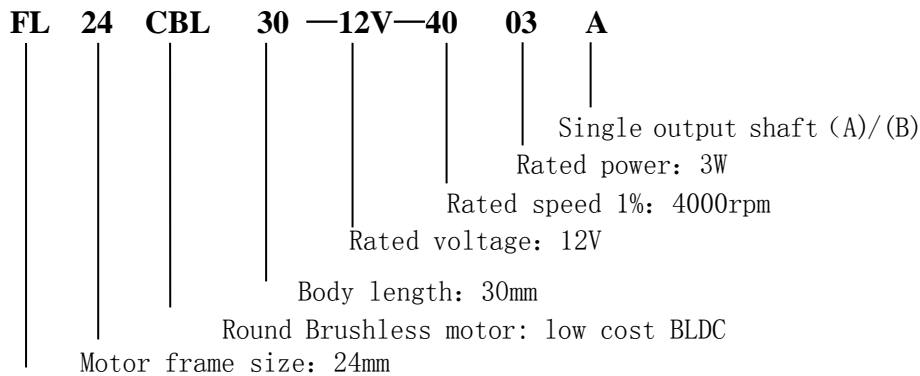




## Brushless DC Motor

FL24CBL SERIES

### Indications of The Models



Lotax

### General Specifications

Winding type	star
Hall effect angle	120 degree electrical angle
Shaft run out	0.025mm
Radial play	0.02mm@450g
End play	0.08mm@450g
Max. radial force	5N @ 10mm from the flange
Max. axial force	2N
Insulation class	Class B
Dielectric strength	500VAC
Insulation resistance	100MΩ , 500VDC

### Electric Connection

No.	Lead Color	Lead Gauge	Functions	Descriptions
1	RED	UL1430 AWG28	Hall Vcc	+5—+24V
2	BLUE		Hall U	
3	GREEN		Hall V	
4	WHITE		Hall W	
5	BLACK		Hall GND	
6	YELLOW	UL1430	U	
7	RED	AWG22/24/	V	
8	BLACK	26	W	

## ELECTRICAL SPECIFICATIONS

	Unit	FL24CBL30-12V-4002A
Number of poles		<b>6</b>
Number of phases		<b>3</b>
Rated Voltage	VDC	<b>12</b>
Rated Speed	RPM	<b>4000</b>
Continuous stall torque	mN.m	<b>6.8</b>
Rated Torque	mN.m	<b>5.7</b>
Rated Power	W	<b>2.4</b>
Peak Torque	mN.m	<b>17.1</b>
Peak Current	A	<b>0.9</b>
Line to line Resistance	ohms@20°C	<b>7.3</b>
Line to line Inductance	mH	<b>1.7</b>
Torque Constant	mNm/A	<b>20</b>
Back EMF	Vrms/KRPM	<b>1.48</b>
Rotor inertia	g.cm <sup>2</sup>	<b>2.3</b>
Motor Body Length (L)	mm	<b>30.8</b>
Mass	Kg	<b>0.04</b>

## Dimension:

