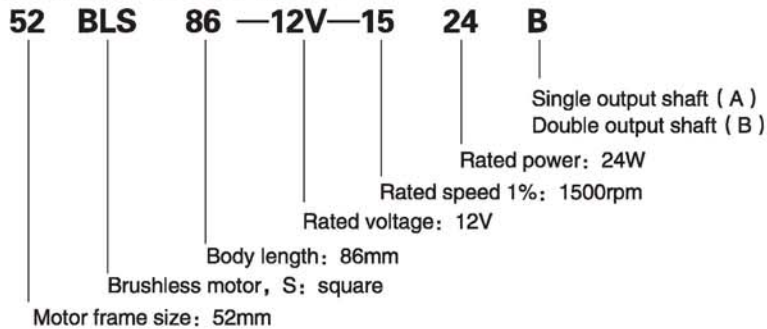


# Brushless DC Motor

## 52BLS SERIES

### ● INDICATIONS OF THE MODELS



### ● GENERAL SPECIFICATIONS

Winding type	Star
Hall effect angle	120degree electrical angle
Shaft run out	0.025mm
Radial play	0.02mm@450g
End play	0.08mm@450g
Max. radial force	115N @ 10mm from the flange
Max. axial force	45N
Insulation class	Class B/F
Dielectric strength	500VAC 1 min
Insulation resistance	100MΩ , 500VDC

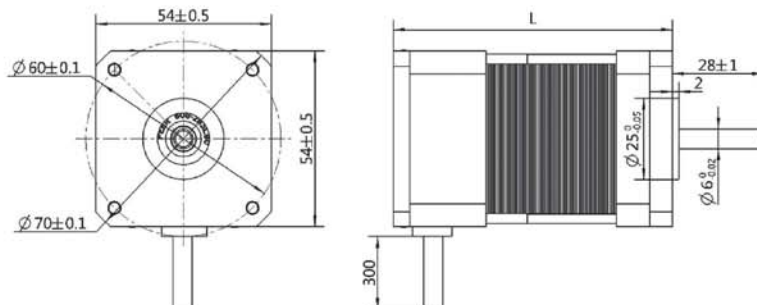
### ● ELECTRIC CONNECTION

Lead No.	Lead Color	Lead Gauge	FUNCTION	DESCRIPTION
1	Red	UL1430 AWG26	Vcc	HALL positive:+5→+24V
2	Blue		Hall U	
3	Green		Hall V	
4	White		Hall W	
5	Black	UL1430 AWG18/20 /22	GND	HALL negative
6	Yellow		U	
7	Red		V	
8	Black		W	

### ● ELECTRICAL SPECIFICATIONS

	Unit	52BLS86- 12V-1524B	52BLS86- 24V-40100A
Number of poles			4
Number of phase			3
Rated voltage	VDC	12	24
Rated speed	RPM	1500	4000
Continuous running torque	mN.m	192	288
Rated torque	mN.m	160	240
Rated power	W	24	100
Peak torque	mN.m	480	720
Peak current	A	8.5	15.5
Line to line resistance	ohms@20°C	0.40	0.35
Line to line inductance	mH	1.6	1.2
Torque constant	mNm/A	58	47
Back E.M.F	Vrms/KRPM	4.3	3.5
Rotor inertia	g.cm <sup>2</sup>	180	180
Body length(L)	mm	86	86
Weight	Kg	1	1

### ● DIMENSIONS



\*Product developing, only available for samples.