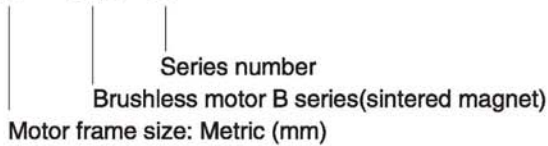


Brushless DC Motor

42BLB SERIES

● INDICATIONS OF THE MODELS

42 BLB 01



● 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	28N @ 20mm from the flange
Max. axial force	10N
Insulation class	Class B
Dielectric strength	500VAC for one minute
Insulation resistance	100MΩ Min., 500VDC

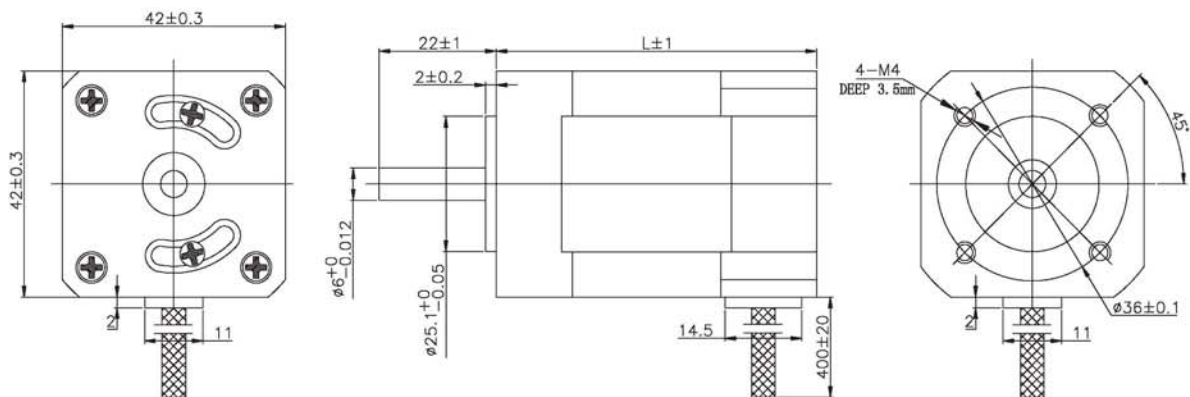
● ELECTRIC CONNECTION

Lead No.	Lead Color	Lead Gauge	FUNCTION	DESCRIPTION
1	Red	UL1430 26AWG	Vcc	Power supply positive of Hall:+5VDC---+24VDC
2	Blue		Hall A	
3	Green		Hall B	
4	White		Hall C	
5	Black	UL1430 20AWG	GND	Power supply negative of Hall
6	Yellow		Phase U	
7	Red		Phase V	
8	Black		Phase W	

● ELECTRICAL SPECIFICATIONS

Model		42BLB01	42BLB02	42BLB03	42BLB04
Number of poles		6			
Number of phase		3			
Rated voltage	VDC	24			
Rated speed	RPM	3000			
Continuous stall torque	N.m	0.074	0.20	0.35	0.49
Rated torque	N.m	0.064	0.17	0.3	0.43
Rated power	W	20	53.5	94	135
Peak torque	N.m	0.19	0.51	0.9	1.29
Peak current	A	3.5	9	14.5	20.8
Line to line resistance	ohms	3.6	1.05	0.54	0.4
Line to line inductance	mH	1.8	0.75	0.45	0.3
Torque constant	N.m/A	0.057	0.058	0.062	0.0624
Back E.M.F	Vrms/Krpm	4.2	4.3	4.57	4.6
Rotor inertia	g.cm ²	80	100	120	140
Body length	mm	40.3	60.3	80.3	100.3
Mass	Kg	0.4	0.6	0.8	1.0

● DIMENSIONS



*This motor can be designed & manufactured with customized request.