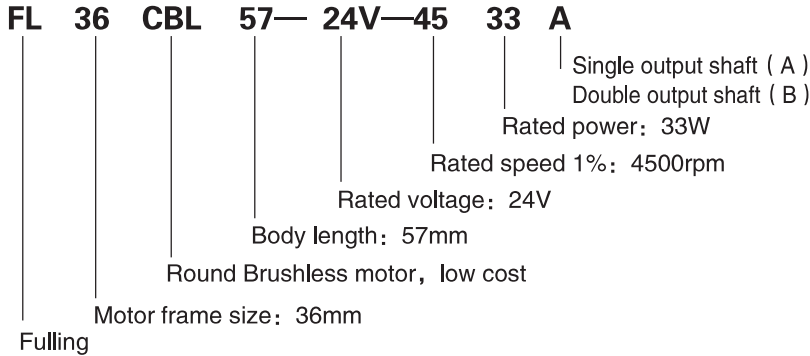


Brushless DC Motor

FL36CBL 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	15N @ 10mm from the flange
Max. axial force	10N
Insulation class	Class B/F
Dielectric strength	500VAC, 1min.
Insulation resistance	100MΩ , 500VDC

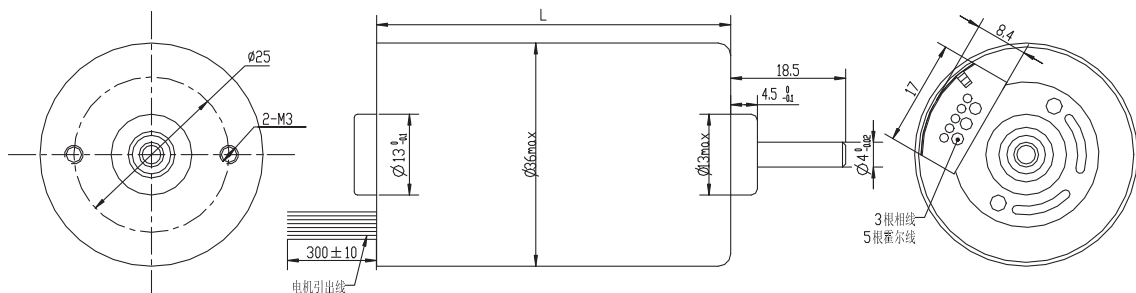
● ELECTRIC CONNECTION

Lead No.	Lead Color	Lead Gauge	FUNCTION	DESCRIPTION
1	Red	AWG26	Vcc	HALL positive:+5—+24V
2	Blue		Hall U	
3	Green		Hall V	
4	White		Hall W	
5	Black	AWG20-24	GND	HALL negative
6	Yellow		U	
7	Red		V	
8	Black		W	

● ELECTRICAL SPECIFICATIONS

Model	Unit	FL36CBL60-24V-4840A	FL36CBL57-24V-4533A	FL36CBL40-24V-4818A	FL36CBL30-24V-488A
Number of poles		8			
Number of phase		3			
Rated voltage	VDC	24			
Rated speed	RPM	4800	4500	4800	4800
Continuous running torque	mN.m	96	84	42	18
Rated torque	mN.m	80	70	35	15
Rated power	W	40	33	18	8
Peak torque	mN.m	240	210	105	45
Peak current	A	6.5	5.3	3.0	1.5
Line to line resistance	ohms@20°C	0.93	1.3	2.7	7.8
Line to line inductance	mH	1.3	1.6	2.6	5.5
Torque constant	mNm/A	38.5	41.2	37.1	34.1
Back E.M.F	Vrms/KRPM	2.85	3.05	2.75	2.53
Rotor inertia	g.cm ²	30	27	12	6
Body length(L)	mm	60	57	40	30
Weight	Kg	0.28	0.25	0.16	0.12

● DIMENSIONS



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