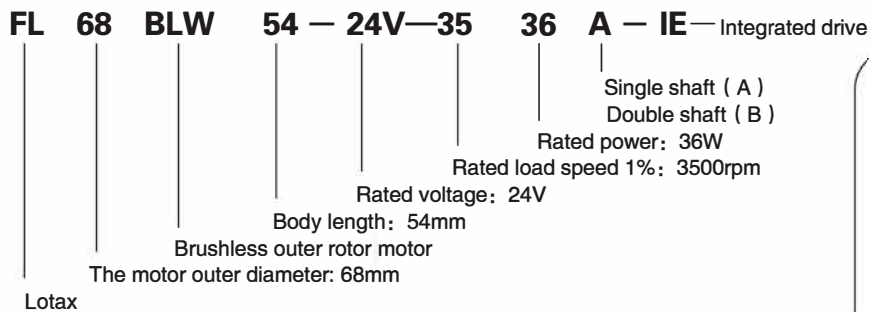


Outer Rotor Brushless DC Motor With built-in Driver

FL68BLW SERIES

● INDICATIONS OF THE MODELS



INTEGRATED DRIVE ELECTRIC CONNECTION

GND	+Vp	SV	PG
0	0	0	0
1	2	3	4
			5

- 1 GND--- Ground
- 2 +Vp---Input voltage +24VDC
- 3 Empty--- NC
- 4 SV--- Speed regulating voltage 0—5VDC
- 5 PG--- Speed pulse output (TTL),36 PULSE/REV

● 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	50N @ 10mm from the flange
Max. axial force	20N
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	AWG26	Positive of Hall	+5—+24V
2	Blue		Hall U	
3	Green		Hall V	
4	White		Hall W	
5	Black	AWG18-22	Negative of Hall	
6	Yellow		U	
7	Red		V	
8	Black		W	

● ELECTRICAL SPECIFICATIONS

	Unit	FL68BLW54-24V-3536A-IE	FL68BLW49-24V-2060A	FL68BLW100-36V-6135B	FL68BLW35-24V-1021B
Number of poles		12	12	22	22
Number of phase		3	3	3	3
Rated voltage	VDC	24	24	36	24
Rated speed	RPM	3500	2000	630	1000
Continuous running torque	N.m	0.12	0.30	2.52	0.24
Rated torque	N.m	0.10	0.25	2.10	0.20
Rated power	W	36	53	138	21
Peak torque	N.m	0.30	0.75	6.30	0.60
Peak current	A	6	9	14.7	3.8
Line to line resistance	ohms@20℃	0.4	0.9	0.8	2.7
Line to line inductance	mH	0.56	2.1	2.0	3.4
Torque constant	mNm/A	55.4	86.5	439	174
Back E.M.F	Vrms/KRPM	4.1	6.4	32.5	12.9
Rotor inertia	g.cm ²	1050	1050	4250	450
Body length(L)	mm	54	49	100	35
Weight	Kg	0.6	0.5	1.8	0.6