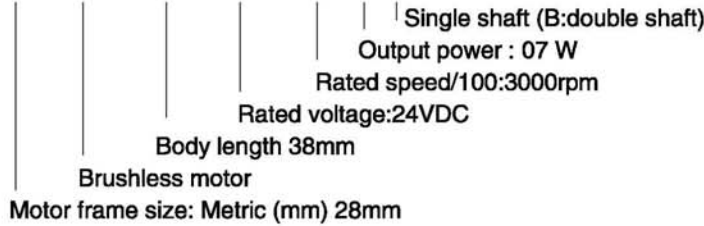


Brushless DC Motor

28BL SERIES

● INDICATIONS OF THE MODELS

28 BL 38 – 24V – 3007 A



● 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	10N @ 10mm from the flange
Max. axial force	2N
Insulation class	Class B
Dielectric strength	360VAC @ 1S
Insulation resistance	100MΩ Min, 500VDC

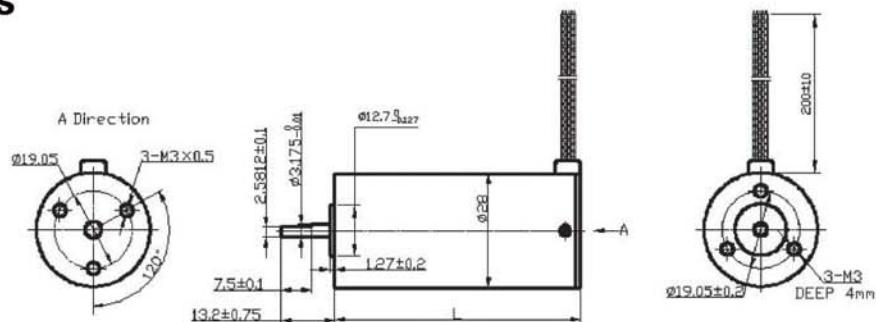
● ELECTRIC CONNECTION

Lead No.	Lead Color	Lead Gauge	FUNCTION	DESCRIPTION
1	Yellow	UL1007 26AWG	Vcc	Power supply positive of Hall:+5VDC→+24VDC
2	Blue		Hall A	
3	Orange		Hall B	
4	Brown		Hall C	
5	White		GND	Power supply negative of Hall
6	Green		Phase U	
7	Red		Phase V	
8	Black		Phase W	

● ELECTRICAL SPECIFICATIONS

Model	28BL26-15V-8006AF	28BL38	28BL77-24V-3116AF
Number of poles	4	4	4
Number of phase	3	3	3
Rated voltage	VDC 15	24	24
Rated speed	RPM 8000	10000	4000
Continuous stall torque	mN.m 6	17	60
Rated torque	mN.m 5	14	50
Rated power	W 4	14.78	16
Peak torque	mN.m 15	42	150
Peak current	A 1.3	2.7	4.2
Resistance	ohms 8.2	4.2	4.2
Inductance	mH 2.3	1.69	2.3
Torque constant	mNm/A 14.3	16.9	37.4
Back EMF	Vrms/Krpm 1.06	1.25	2.77
Rotor inertia	g.cm ² 2.35	3.69	10.98
Body length	mm 26	38	77
Mass	Kg 0.060	0.082	0.280

● DIMENSIONS



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