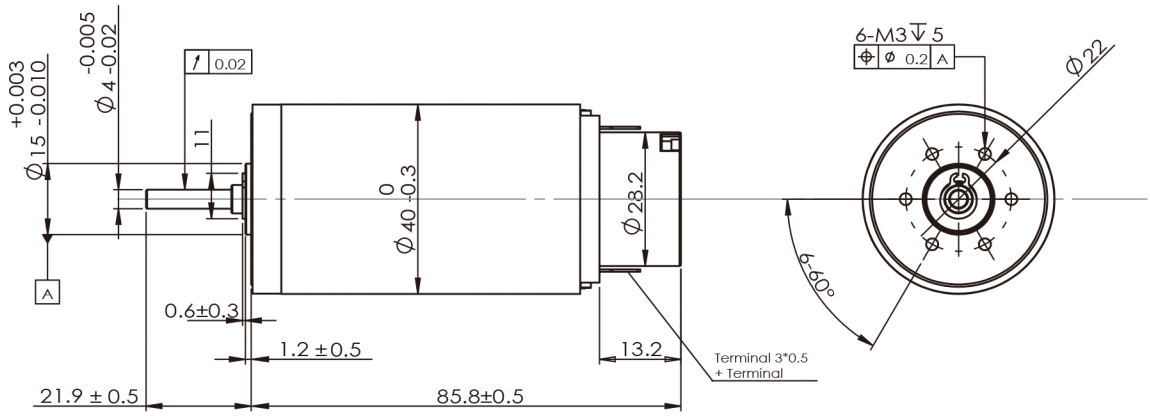
SR4086GK | Graphite Brush



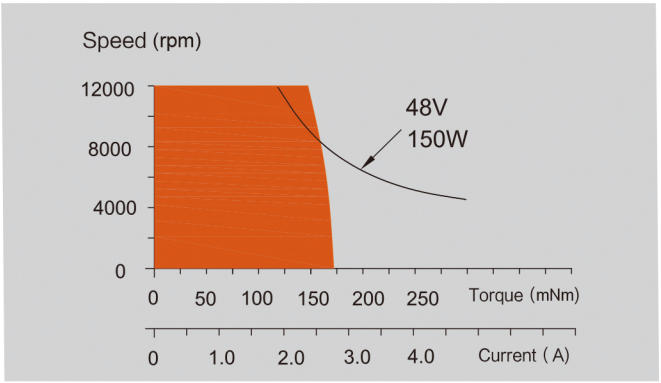
Motor Data

	电机型号	Motor model			SR408624GK	SR408648GK-01	SR408648GK-02		
1	额定电压	Nominal voltage	V	V	24	48	48		
2	空载转速	No load speed	rpm	Wnl	7600	7960	6500		
3	空载电流	No load current	mA	InI	250	141	174		
4	额定转速	Nominal speed	rpm	Wc	7000	7000	5400		
5	额定转矩	Nominal torque	mNm	Tc	180	187	186		
6	额定电流	Nominal current	A	Ic	6.06	3.26	2.67		
7	输出功率	Output power	W	Pc	131	137	106		
8	堵转扭矩	Stall torque	mNm	Tmax	2037	1246	1087		
9	堵转电流	Stall current	A	Imax	68.6	21.7	15.6		
10	最大效率	Max. efficiency	%	ηmax	80	88	83		
11	线间电阻	Terminal resistance	Ω	Rt	0.35	1.7	3.08		
12	力矩系数	Torque constant	mNm / A	Kt	29.7	57.4	69.73		
13	速度常数	Speed constant	rpm / V	Kn	321	166	137		
14	速度扭矩比	Speed torque gradient	rpm / mNm	Δn / ΔT	3.3	5.1	5.7		
15	线间电感	Terminal inductance	mH	L	0.18	0.496	0.84		
16	转子转动惯量	Rotor inertia	gcm²	J	142.6	137.8	129		

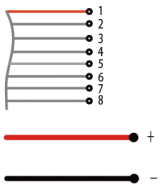
Specifications

1	ambient temperature	Ta	-30~+100°C
2	Max.winding temperature	Tcoilmax	+155°C
3	Max.speed	Nmax	12000rpm
4	axial play	△t	0.05~0.15mm
5	number of pole pairs	p	1
6	number of commutator segments		13
7	weight of motor	Wt	494 g
8	Max.axial load(dynamic)		5.6N
9	Max.force for press fits(static)		110N
10	Max.radial load,4mm from flange		28N

Operating Range



Terminal definitions



Red	Motor +
1	+5V
2	GND
3	Channel A-
4	Channel A+
5	Channel B-
6	Channel B+
7	Channel Z-
8	Channel Z+
Black	Motor −

Magnet Encoder
3 Channel
1000CPT