

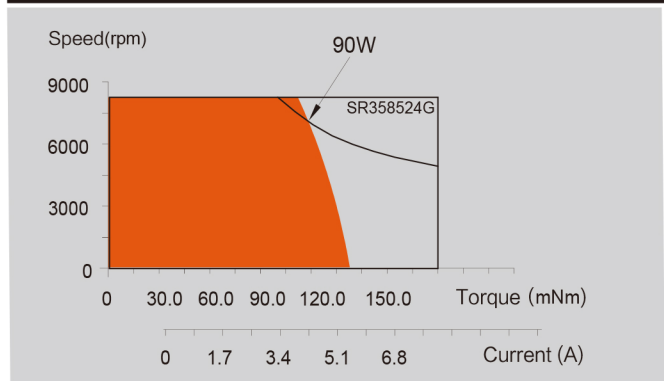
电机参数 Motor Data

电机型号	Motor model			SR358512G	SR358515G	SR358524G	SR358530G	SR358548G
1 额定电压	Nominal voltage	V	V	12	15	24	30	48
2 空载转速	No load speed	rpm	Wnl	7200	7270	8000	7270	8100
3 空载电流	No load current	mA	Inl	330	220	190	124	59
4 额定转速	Nominal speed	rpm	Wc	6550	6580	7200	6490	7000
5 额定转矩	Nominal torque	mNm	Tc	89.4	97	119	97.2	97
6 额定电流	Nominal current	A	Ic	5.6	4.9	4.17	2.62	1.7
7 输出功率	Output power	W	Pc	61	66	90	66	72
8 堵转转矩	Stall torque	mNm	Tmax	950	981	1200	973	777
9 堵转电流	Stall current	A	I _{max}	60	50	42	25	13.8
10 最大效率	Max. efficiency	%	η_{max}	87	90	90	85	85
11 线间电阻	Terminal resistance	Ω	Rt	0.2	0.3	0.57	1.2	3.48
12 转矩系数	Torque constant	mNm / A	Kt	15.8	19.62	28.5	38.9	56.3
13 速度常数	Speed constant	rpm / V	Kn	602	486	335	246	169
14 速度转矩比	Speed torque gradient	rpm / mNm	$\Delta n / \Delta T$	7.24	7.1	6.36	7.57	10
15 线间电感	Terminal inductance	mH	L	0.05	0.08	0.24	0.35	0.95
16 转子转动惯量	Rotor inertia	gcm ²	J	68.2	68.2	79.4	68.2	68.2

特性参数 Specifications

1 环境温度 ambient temperature	Ta	-30~+100 °C
2 最大允许线圈温度 max. winding temperature	Tcoilmax	+125 °C
3 最大允许速度 max. speed	Nmax	8910rpm
4 轴向窜动 axial play	Δt	0.05-0.15 mm
5 极对数 number of pole pairs	2p	1
6 换向器片数 number of commutator segments		13
7 马达重量 weight of motor	Wt	354 g
8 最大轴向载荷 (动态) Max. axial load (dynamic)		5.6N
9 最大允许安装力 (静态) Max. force for press fits (static)		110N
10 最大径向载荷 (离法兰4mm处) Max. radial load, 4 mm from flange		28N

电机运行范围 Operating Range



接线定义 Terminal definitions

1	Red	Motor +	Magnet Encoder 3 Channel 1000CPT
2	Red	+5V	
3	Black	GND	
4	Red	Channel A-	
5	Black	Channel A+	
6	Red	Channel B-	
7	Black	Channel B+	
8	Black	Channel Z+	
	Red	Motor -	
	Black	Motor -	