



Motor parameters

1	Motor model		SA4512	SA4524	
2	Nominal power	PR	50	117	W
3	Nominal power	VT	12	24	V
4	Nominal line current	IR	6.4		A
5	Max instantaneous current	IP	18.0		A
6	Nominal speed	NR	3000	6000	RPM
7	Max speed	NP	4600	6000	RPM
8	Nominal torque	TR	0.16		Nm
9	Peak torque	TP	0.45	0.48	Nm
10	Torque constant	KT	0.0249		Nm/A
11	Back EMF constant	Ke	2.61		V/Krpm
12	Rotor inertia	J	0.34		Kg*cm ²
13	Nominal angular acceleration	Ar	4706		rad/s ²
14	Line resistance	R	0.45		Ω
15	Cogging & hysteresis torque	Tc Th	0		mNm
16	Coil inductance	L	8		mH
17	Mechaical time constant	Tm	33		ms
18	Electric time constant	Te	0.037		ms
19	Pole number	2p	6		极
20	Weight	W	0.62		Kg
21	Encoder resolution		2500PPR		
22	Motor insulation level		level B		
23	Protection level		IP64 (fully enclosed & self cooling)		
24	Operating environment		-40~+85°C		

Copper-plated Coreless Servo Motor

Graph

