



Motor parameters

			SA6212	SA6224	SA6236	
1	Motor model		SA6212	SA6224	SA6236	
2	Nominal power	PR	160	160	250	W
3	Nominal voltage	VT	12	24	36	V
4	Nominal line current	IR	18.2		9.1	A
5	Max instantaneous current	IP	40.0		27.0	A
6	Nominal speed	NR	3000	3000	4700	RPM
7	Max speed	NP	4000	4000	6000	RPM
8	Nominal torque	TR	0.52		0.52	Nm
9	Peak torque	TP	1.1		1.5	Nm
10	Torque coefficient	KT	0.029		0.058	Nm/A
11	Back EMF constant	Ke	3.035		6.07	V/Krpm
12	Rotor inertia	J	1.98		1.98	Kg·cm ²
13	Nominal angular acceleration	Ar	2626		2626	rad/s ²
14	Line resistance	R	0.08		0.31	Ω
15	Cogging & hysteresis torque	Tc Th	0		0	mNm
16	Coil inductance	L	2.5		10	mH
17	Mechanical time constant	Tm	27.4		27.4	ms
18	Electric time constant	Te	0.065		0.065	ms
19	Pole number	2p	8		8	piece
20	Weight	W	1.01		1.01	Kg
21	Encoder resolution		2500PPR			
22	Insulation level of motor		Level B			
23	Protection level		IP64(fully enclosed & self cooling)			
24	Operating temperature		-40~+85℃			

Graph

