



Motor parameters

		SA8024	SA8048		
1	Motor model		SA8024	SA8048	
2	Nominal power	PR	350	350	W
3	Nominal voltage	VT	24	48	VDC
4	Nominal line current	IR	19.7	9.7	A
5	Max instantaneous current	IP	40	29	A
6	Nominal speed	NR	3700	3700	RPM
7	Max speed	NP	4500	4500	RPM
8	Nominal torque	TR	0.9	0.9	Nm
9	Peak torque	TP	1.86	2.7	Nm
10	Torque coefficient	KT	0.051	0.102	Nm/A
11	Back EMF constant	Ke	5.34	10.68	V/Krpm
12	Rotor inertia	J	6.05	6.05	Kg·cm ²
13	Nominal angular acceleration	Ar	1488	1488	rad/s ²
14	Line resistance	Ra	0.08	0.31	Ω
15	Cogging & hysteresis torque	Tc Th	0	0	mNm
16	Coil inductance	La	12	12	mH
17	Mechanical time constant	Tm	27.0	27.0	ms
18	Electric time constant	Te	0.077	0.077	ms
19	Pole number	2p	8	8	piece
20	Weight	W	2.05	2.05	Kg
21	Encoder resolution	2500PPR			
22	Insulation level of motor	Level B			
23	Protection level	IP64(fully enclose & self cooling)			
24	Operating environment	-40~+85°C			

Copper-plated Coreless Servo Motor

Graph

