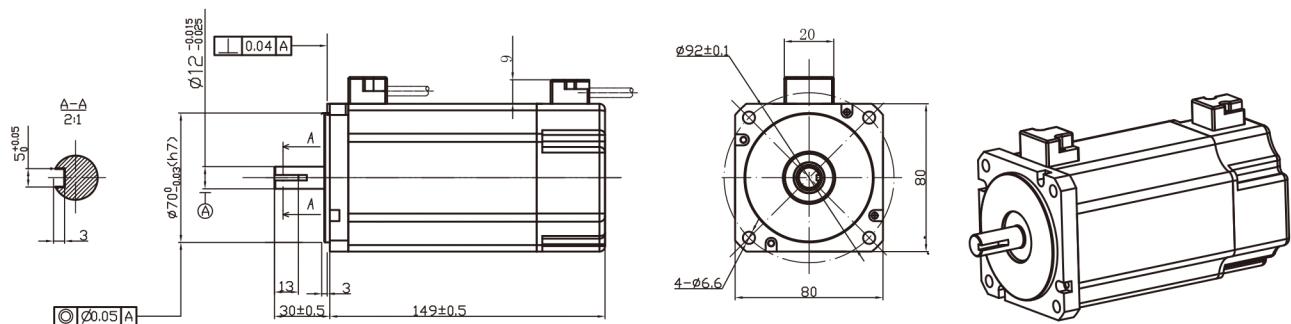


SMP80 | Servo



Motor Data

1	motor model		SMP8024	SMP8048		
2	nominal power	PR	382	382		W
3	nominal voltage	VT	24	48		V
4	nominal current	IR	21.6	10.8		A
5	instantaneous maximum current	IP	44	32		A
6	nominal speed	NR	3650	3650		rpm
7	maximum speed	NP	4500	4500		rpm
8	nominal torque	TR	1	1		Nm
9	peak torque	TP	2	3		Nm
10	torque constant	KT	0.051	0.102		Nm / A
11	back EMF constant	Ke	5.34	10.7		V / K rpm
12	rotor inertia	J	6.05	6.05		Kg*cm^2
13	terminal resistance	R	0.08	0.31		Ω
14	cogging and hysteresis torque	Tc Th	0	0		mNm
15	terminal inductance	L	12.6	50		μH
16	mechanical time constant	Tm	24	24		ms
17	electric time constant	Te	0.158	0.161		ms
18	number of pole pairs	2p	4	4		
19	weight of motor	W	2.05	2.05		Kg
20	encoder options		incremental (2500PPR) \ Absolute (17\33 bit)			
21	motor insulation class		class B			
22	protection class		IP64			
23	ambient temperature		-20~+40°C			

Graph

A: Continuous Working Area
B: Repeatedly Working Area

