SYNTRON

2-Phase Hybrid Stepping Motors 110 Series

High Torque/Volume Ratio, Low Resonance

Insulation Resistance:	500VDC 100MΩ Min
Shaft Axial Play:	1mm Max
Shaft Radial Play:	0.02mm Max
Temperature Rise:	65K Max
Dielectric Strength:	1000VAC 1Minute
Ambient Temperature:	0℃～+50℃
Class of Insulation:	B

Electrical Ratings

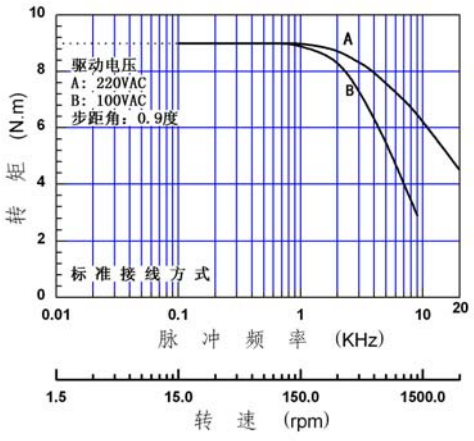
Items	Module	Phase	Step Angle (°)	Phase Current (A)	Phase Resistance (Ω)	Phase Inductance (mH)	Holding Torque (Nm)	Detent Torque (Nm)	No Load Starting Frequency at Half Step Mode (KHz)	Weight (Kg)	Rotor Inertia (gcm^2)	Dimensions
000332	**110BYG250B-SAKRMA-0401**	**2**	**0.9/1.8**	**4**	**0.67**	**6.5**	**8**	**0.6**	**1.5**	**5**	**6000**	**1**
000350	**110BYG250C-SAKRMA-0402**	**2**	**0.9/1.8**	**4**	**0.50**	**5.1**	**12**	**2.4**	**1.4**	**8.7**	**11000**	**1**
000360	**110BYG250C-SAHRHA-0402**	**2**	**0.9/1.8**	**4**	**0.50**	**5.1**	**12**	**2.4**	**1.4**	**8.7**	**11000**	**2**
000390	**110BYG250D-SAKRMA-0502**	**2**	**0.9/1.8**	**5**	**0.65**	**6.5**	**18**	**4.0**	**1.4**	**10.7**	**15000**	**1**
000400	**110BYG250D-SAHRHA-0502**	**2**	**0.9/1.8**	**5**	**0.65**	**6.5**	**18**	**4.0**	**1.4**	**10.7**	**15000**	**2**
000450	**110BYG260C-SAKRMA-0402**	**2**	**0.75/1.5**	**4**	**0.52**	**6.0**	**12**	**2.4**	**1.5**	**8.7**	**11000**	**1**
000460	**110BYG260C-SAHRHA-0402**	**2**	**0.75/1.5**	**4**	**0.52**	**6.0**	**12**	**2.4**	**1.5**	**8.7**	**11000**	**2**
000490	**110BYG260D-SAKRMA-0502**	**2**	**0.75/1.5**	**5**	**0.67**	**7.0**	**18**	**4.0**	**1.5**	**10.7**	**15000**	**1**
000500	**110BYG260D-SAHRHA-0502**	**2**	**0.75/1.5**	**5**	**0.67**	**7.0**	**18**	**4.0**	**1.5**	**10.7**	**15000**	**2**

Notes：The exciting voltage for testing the no load starting frequency is 70VDC.

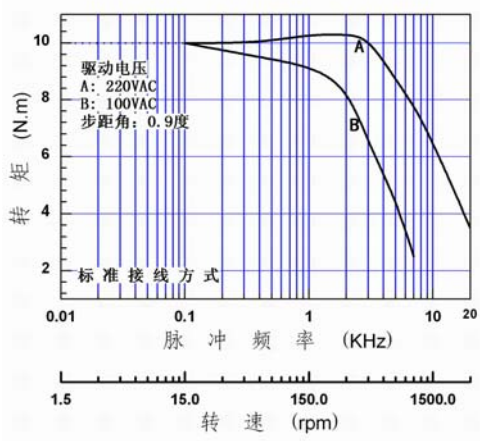
Matched motor: SH-21006C SH-22206A

Pullout torque Speed Curves

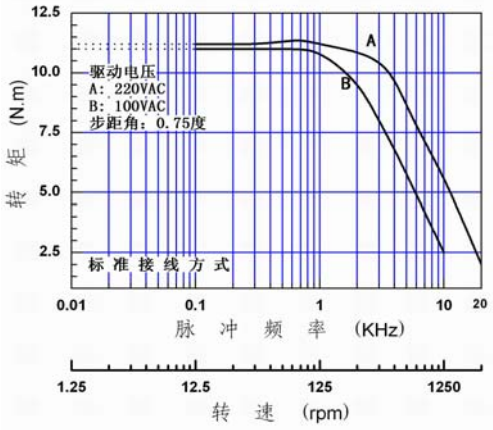
110BYG250B- xxxxxx - xxxx



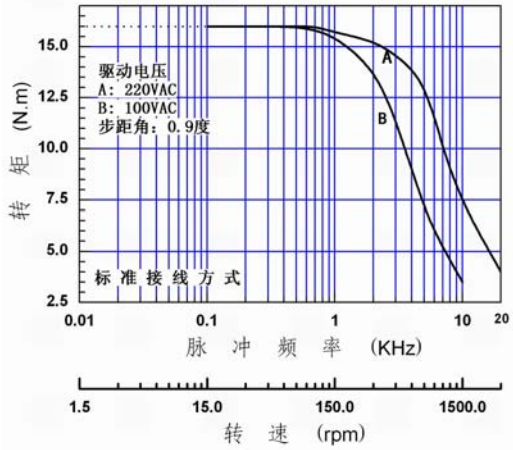
110BYG250C- xxxxxx - xxxx



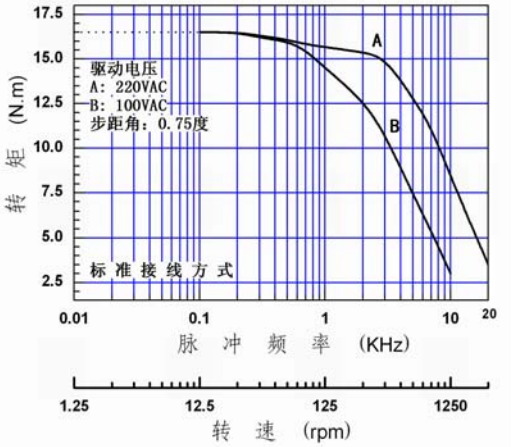
110BYG260C- xxxxxx - xxxx



110BYG250D- xxxxxx - xxxx

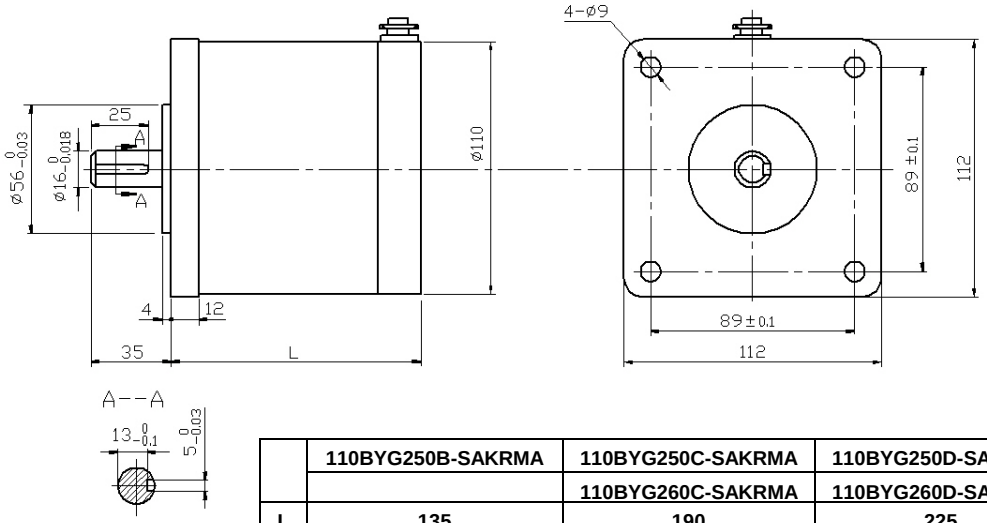


110BYG260D- xxxxxxx -xxxx



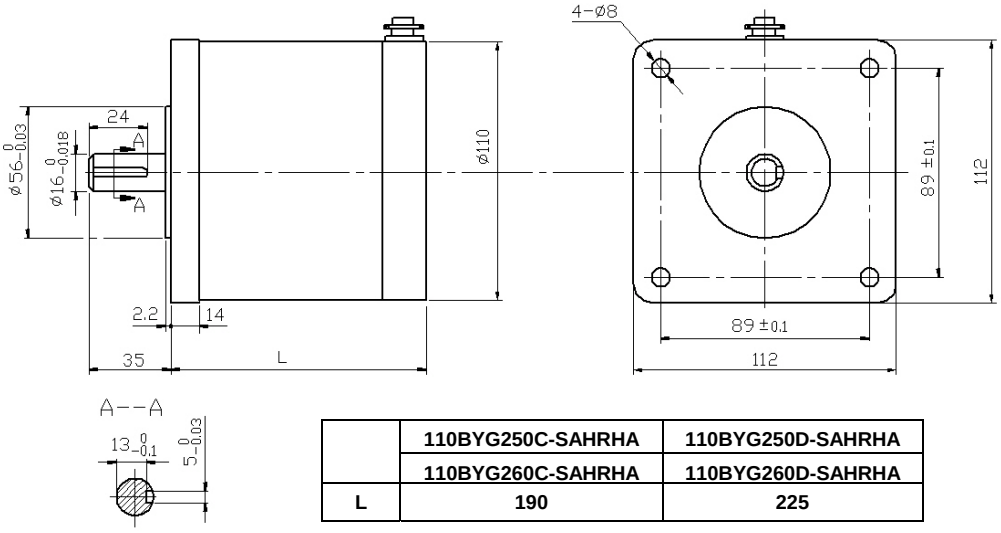
Dimensions [Unit：mm]

Diagram 1 110BYG2xxx – SAKRMA –xxxx



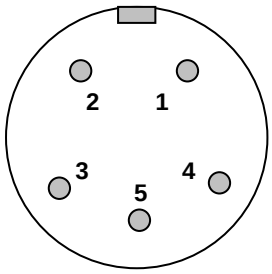
	110BYG250B-SAKRMA	110BYG250C-SAKRMA	110BYG250D-SAKRMA
		110BYG260C-SAKRMA	110BYG260D-SAKRMA
L	135	190	225

Diagram 2 110BYG2xxx – SAHRHA –xxxx



	110BYG250C-SAHRHA	110BYG250D-SAHRHA
	110BYG260C-SAHRHA	110BYG260D-SAHRHA
L	190	225

Diagram a



Pinouts Definition				
1	2	3	4	5
A+	A-	B+	B-	Null

(Terminating Diagram)

⚠ Cautions:

1. **Flange mounting is mandatory for concentricity.**
2. **Hazard will happen for wrong connection.**

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