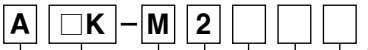
■ Ordering information



Motor shaft	Blank	Single shaft
	W	Dual shaft
Motor length(mm)	3	34mm
	4	40mm
	5	47.5mm
Motor frame size(mm) 2	42mm (42mm×42mm)	
Motor frame size(mm) 4	56mm (56.4mm×56.4mm)	
	4	42mm
	5	54.5mm
	8	77.5mm
Motor phase	2	2 phase
Rated current	M	1.2A/Phase or 1.5A/Phase
	G	2.0A/Phase
Max. holding torque	Square	kgf·cm(Refer to motor specification)
	Series	

■ Motor type

Type		Model	A/phase (A)	Max. holding torque (kgf·cm)	Max. allowable torque (kgf·cm)	Moment of rotor inertia (g·cm²)	Winding resistance(Ω)	Motor length (mm)
42-square	**Shaft type**	**A2K-M243**	1.2	2.06	—	33	2.7	34
		A3K-M244(W)	1.2	2.97	—	56	3.3	40
		A4K-M245	1.2	3.48	—	72	2.8	47.5
56-square		**A6K-G264(W)**	2	5.67	—	145.0	1.3	42
		A9K-G265(W)	2	9.25	—	245.0	1.7	54.5
		A16K-G268	2	15.70	—	470.0	2.5	77.5

※(W) stands for dual shaft of motor. The brake built-in type provides single shaft type only.
※Motor length was measured without shaft.

■ Specifications

• 42-square

Model		**A2K-M243**	**A3K-M244(W)**	**A4K-M245**
Max. holding torque		2.06kgf·cm(0.206N·m)	2.97kgf·cm(0.297N·m)	3.48kgf·cm(0.348N·m)
Moment of rotor inertia		33g·cm² (33×10^{-7}kg·m²)	56g·cm² (56×10^{-7}kg·m²)	72g·cm² (72×10^{-7}kg·m²)
Rated current		1.2A/Phase		
Basic step angle		1.8°/ 0.9°(Full/Half step)		
Insulation class		CLASS B type(130℃)		
Insulation resistance		Min. 100MΩ(at 500VDC megger) between motor coil-case		
Dielectric strength		0.5kVAC 50/60Hz for 1 min. between motor coil-case		
Environ-ment	Ambient temperature	0 to 50℃, storage: -20 to 70℃		
	Ambient humidity	20 to 90%RH, storage: 15 to 95%RH		
Protection		IP30(IEC34-5 standard)		
Unit weight		Approx. 0.23kg	Approx. 0.29kg	Approx. 0.43kg
Reference		**Q-50 to 51**		

• 56-square

Model		**A6K-G264(W)**	**A9K-G265(W)**	**A16K-G268**
Max. holding torque		5.70kgf·cm(0.570N·m)	9.25kgf·cm(0.925N·m)	15.70kgf·cm(1.570N·m)
Moment of rotor inertia		145g·cm² (145×10^{-7}kg·m²)	245g·cm² (245×10^{-7}kg·m²)	470g·cm² (470×10^{-7}kg·m²)
Rated current		2.0A/Phase	2.0A/Phase	2.0A/Phase
Basic step angle		1.8°/ 0.9°(Full/Half step)		
Insulation class		CLASS B type(130℃)		
Insulation resistance		Min. 100MΩ(at 500VDC megger) between motor coil-case		
Dielectric strength		0.5kVAC 50/60Hz for 1 min. between motor coil-case		
Environ-ment	Ambient temperature	0 to 50℃, storage: -20 to 70℃		
	Ambient humidity	20 to 90%RH, storage: 15 to 95%RH		
Protection		IP30(IEC34-5 standard)		
Unit weight		Approx. 0.5kg	Approx. 0.7kg	Approx. 1.1kg
Reference		**Q-50 to 51**		

□42mm/□56mm/ 2-Shaft type

▣ Features

- Compact design and light weight with high accuracy, speed and torque
- Suitable for small-sized equipment applications
- Connector cable type
- Cost-effective

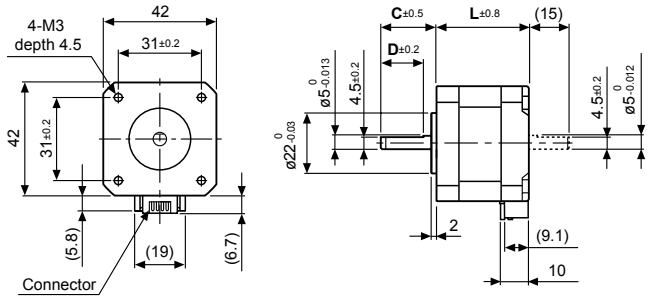
Please read "Caution for your safety" in operation manual before using.



42-square 56-square

▣ Dimensions

◎ 42-square



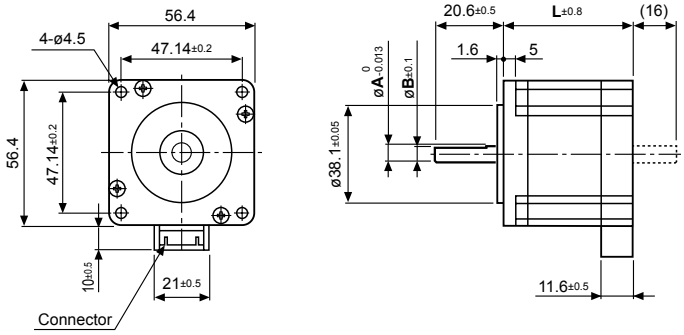
(unit: mm)

MODEL	L	C	D
A2K-M243	34	20	15
A3K-M244(W)	40	20	15
A4K-M245	47.5	23	18

※These dimensions are for dual shaft models. For single shaft models, ignore dotted line(……) part.

※Including connector head and cable(320mm)
Manufacture: J.S.T.MFG.CO.,LTD
Model: S6B-PH-K-S

◎ 56-square



(unit: mm)

MODEL	L	C	D
A6K-M243	42	6.35	5.85
A9K-M265(W)	54.5	6.35	5.85
A16K-G268	77.5	8	7.5

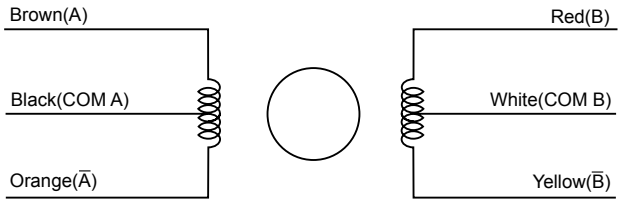
※These dimensions are for dual shaft models. For single shaft models, ignore dotted line(……) part.

※Including connector head and cable(400mm)
Manufacture: J.S.T.MFG.CO.,LTD
Model: S6B-PH-K-S

※For flexible coupling(ERB Series), refer to the F-63 page.

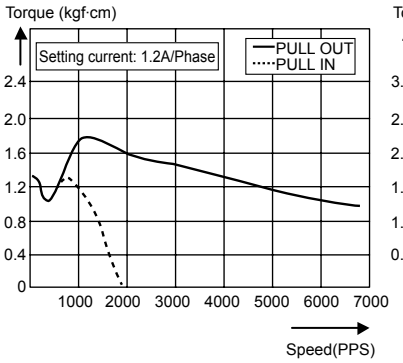
▣ Connection diagram of 2-phase stepper motor

Autonics 2-phase stepper motor is the pentagon connection and color of each phase and lead wire is shown as follows.

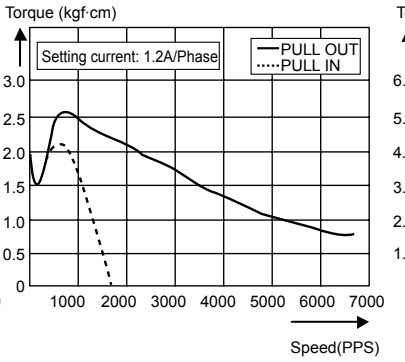


▣ Characteristic

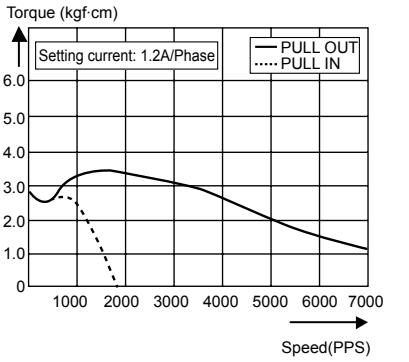
• A2K-M243



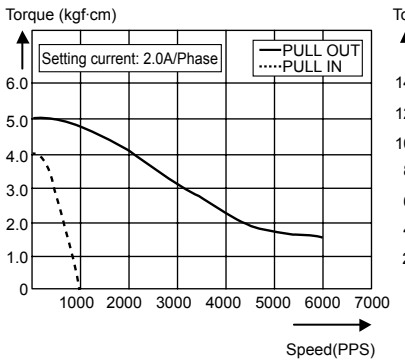
• A3K-M244(W)



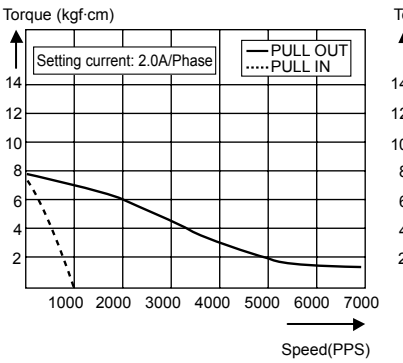
• A4K-M245



• A6K-G264(W)



• A9K-G265(W)



• A16K-G268

