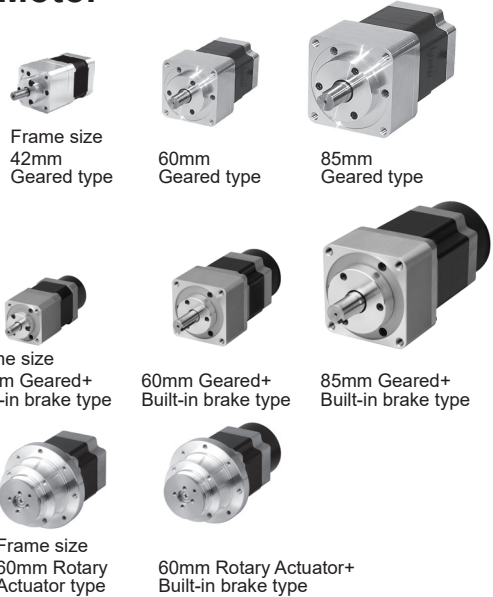


AK-G/AK-GB/AK-R/AK-RB Series

Frame Size 42mm/60mm/85mm Geared Type /Geared+Built-in Brake Type Motor Frame Size 60mm Rotary Actuator Type /Rotary Actuator+Built-in Brake Type Motor

■ Features

- Compact design and light weight with high accuracy, speed and torque
- Cost-effective
- Backlash
Frame size 42mm: $\pm 35'$ (0.58°),
60mm: $\pm 20'$ (0.33°), 85mm: $\pm 15'$ (0.25°)
- Brake force is released when applying 24VDC on brake wire
- Basic step angle
1:5 $\rightarrow 0.144^\circ$, 1:7.2 $\rightarrow 0.1^\circ$, 1:10 $\rightarrow 0.072^\circ$
- Allowable speed
1:5 $\rightarrow 0$ to 360rpm, 1:7.2 $\rightarrow 0$ to 250rpm
1:10 $\rightarrow 0$ to 180rpm



Please read "Safety Considerations" in the instruction manual before using.

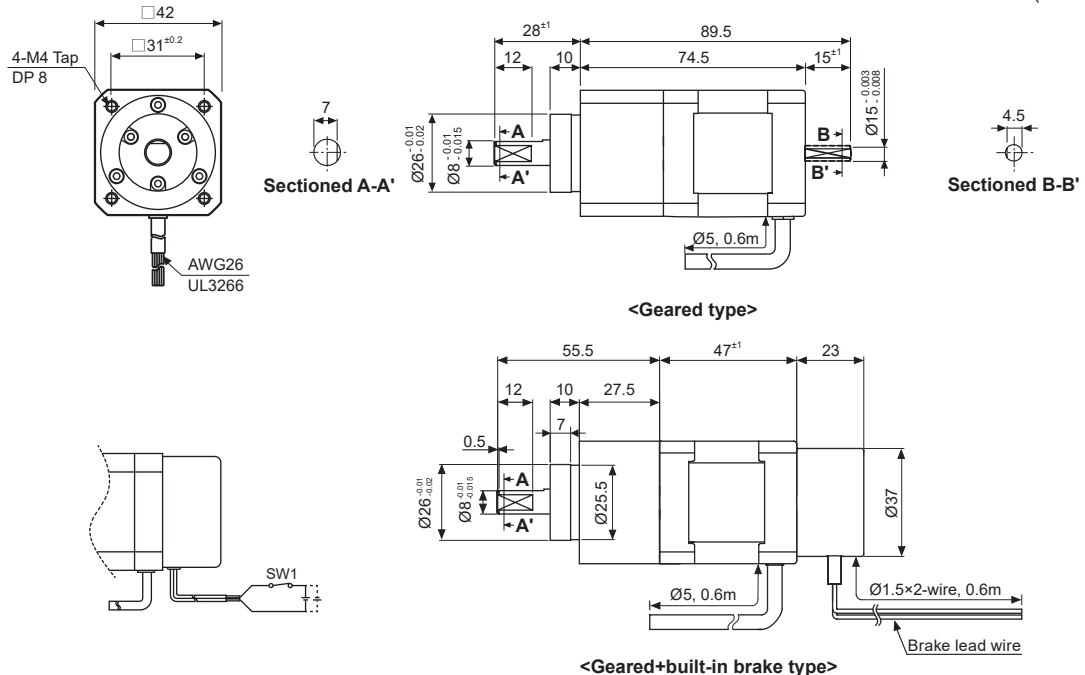


■ Dimensions

- ※These dimensions are for dual shaft models. Single shaft models do not include shafts indicated in the dotted lines.
- ※For flexible coupling (ERB series) information, refer to 'ERB Series' in 'Rotary encoder'.
- (frame size 60mm, 85mm: geared type, geared+built-in brake type)
- ※Brake is non-polar and be sure to observe rated excitation voltage (24VDC).
- ※SW1 ON: brake release / SW1 OFF: brake execute

◎ Frame size 42mm

(unit: mm)

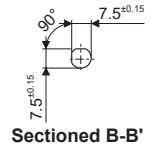
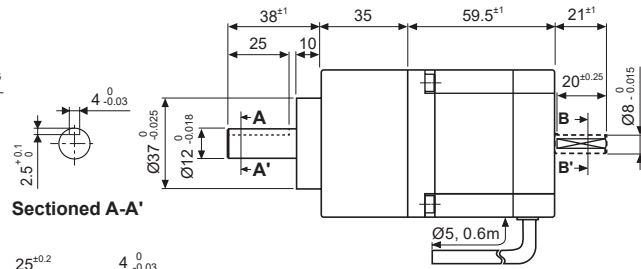
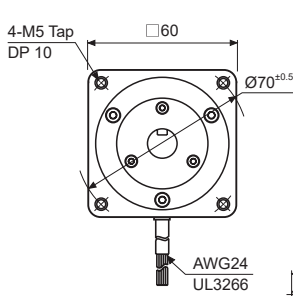


5-Phase Stepper Motor

■ Dimensions

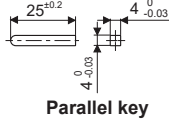
◎ Frame size 60mm

(unit: mm)



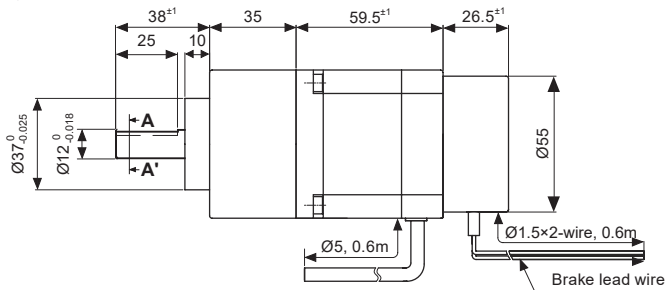
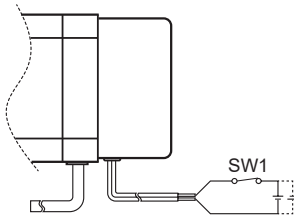
Sectioned A-A'

Sectioned B-B'

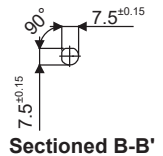
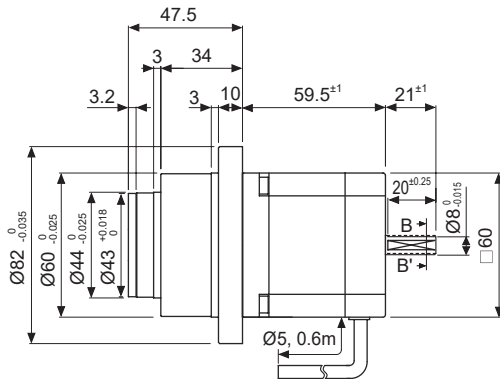
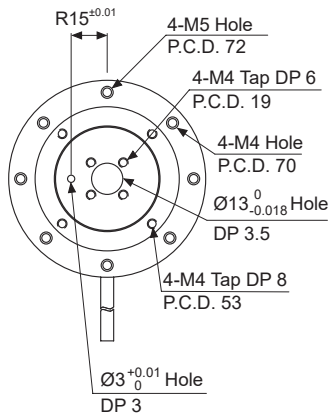


Parallel key

<Geared type>

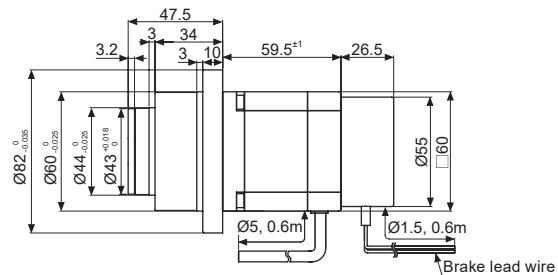
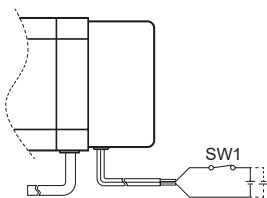


<Geared+built-in brake type>



Sectioned B-B'

<Rotary actuator type>



<Rotary actuator+built-in brake type>

SENSORS
CONTROLLERS
MOTION DEVICES
SOFTWARE

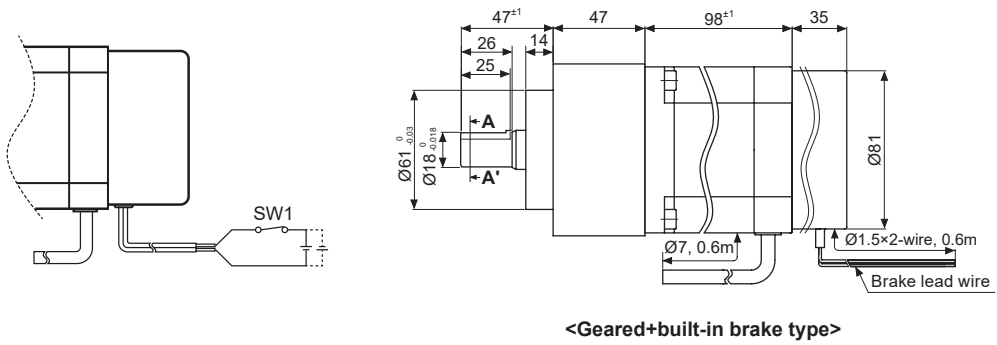
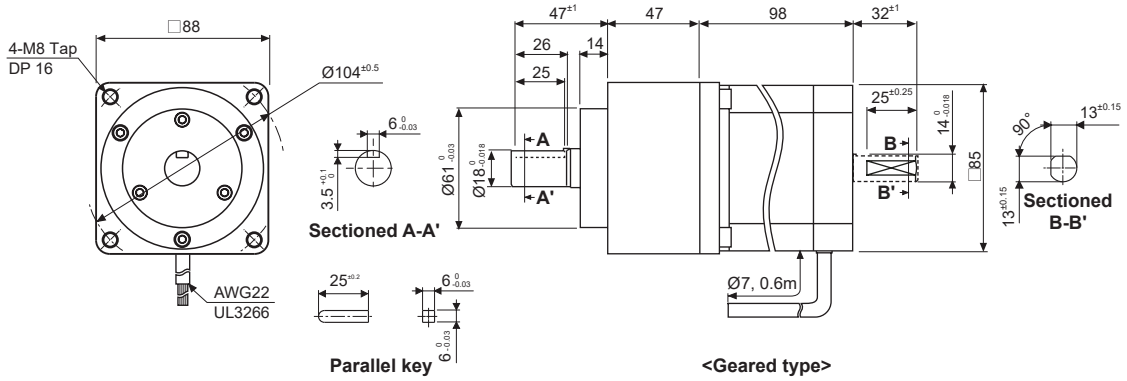
(Y) Closed Loop Stepper System
(Z) Stepper Motors
(AA) Drivers
(AB) Motion Controllers

AK-G/AK-GB/AK-R/AK-RB Series

■ Dimensions

◎ Frame size 85mm

(unit: mm)

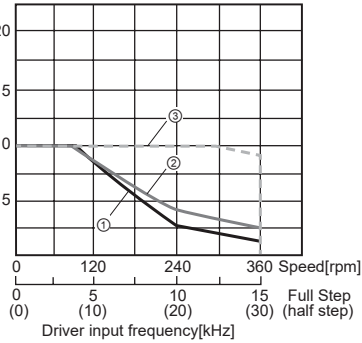


5-Phase Stepper Motor

Characteristic

● A10K-S545(W)-G5 A10K-S545-GB5

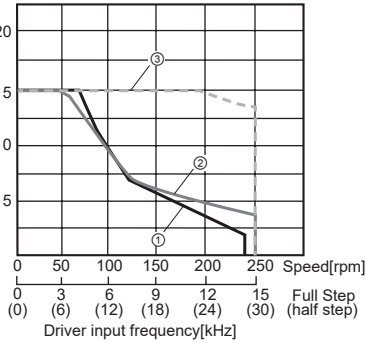
Torque (kgf·cm) ※fs: max. starting torque



- ① Driver MDS-ND14, Power 24VDC, Setting current 1.4A/Phase
- ② Driver MDS-HD14, Power 24VDC, Setting current 1.4A/Phase
- ③ Driver MDS-HF14, Power 220VAC, Setting current 1.4A/Phase
- ① fs: 3.1kpps
- ② fs: 3.2kpps
- ③ fs: 3.2kpps

● A15K-S545(W)-G7.2 A15K-S545-GB7.2

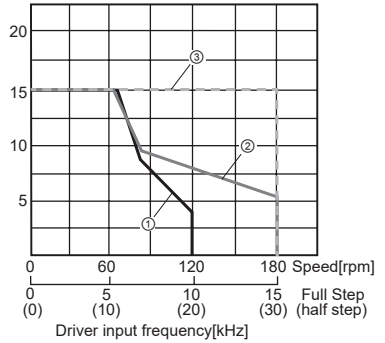
Torque (kgf·cm) ※fs: max. starting torque



- ① Driver MDS-ND14, Power 24VDC, Setting current 1.4A/Phase
- ② Driver MDS-HD14, Power 24VDC, Setting current 1.4A/Phase
- ③ Driver MDS-HF14, Power 220VAC, Setting current 1.4A/Phase
- ① fs: 3.2kpps
- ② fs: 3.3kpps
- ③ fs: 3.4kpps

● A15K-S545(W)-G10 A15K-S545-GB10

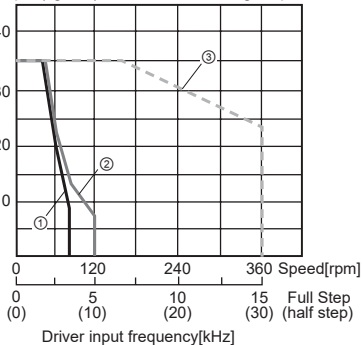
Torque (kgf·cm) ※fs: max. starting torque



- ① Driver MDS-ND14, Power 24VDC, Setting current 1.4A/Phase
- ② Driver MDS-HD14, Power 24VDC, Setting current 1.4A/Phase
- ③ Driver MDS-HF14, Power 220VAC, Setting current 1.4A/Phase
- ① fs: 3.3kpps
- ② fs: 3.3kpps
- ③ fs: 3.4kpps

● A35K-M566(W)-□5 A35K-M566-□B5

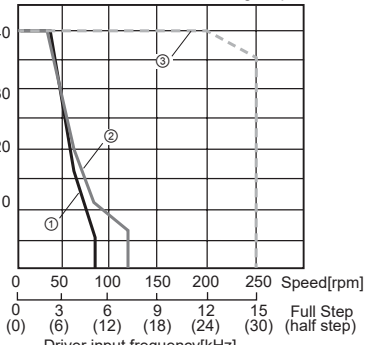
Torque (kgf·cm) ※fs: max. starting torque



- ① Driver MDS-ND14, Power 24VDC, Setting current 1.4A/Phase
- ② Driver MDS-HD14, Power 24VDC, Setting current 1.4A/Phase
- ③ Driver MDS-HF14, Power 220VAC, Setting current 1.4A/Phase
- ① fs: 2.3kpps
- ② fs: 2.3kpps
- ③ fs: 2.6kpps

● A40K-M566(W)-□7.2 A40K-M566-□B7.2

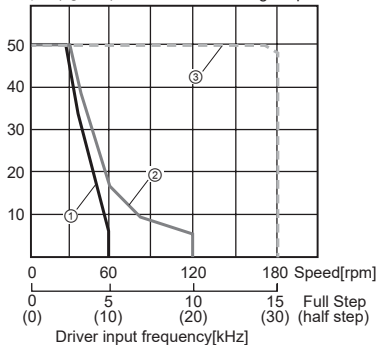
Torque (kgf·cm) ※fs: max. starting torque



- ① Driver MDS-ND14, Power 24VDC, Setting current 1.4A/Phase
- ② Driver MDS-HD14, Power 24VDC, Setting current 1.4A/Phase
- ③ Driver MDS-HF14, Power 220VAC, Setting current 1.4A/Phase
- ① fs: 2.2kpps
- ② fs: 2.3kpps
- ③ fs: 2.6kpps

● A50K-M566(W)-□10 A50K-M566-□B10

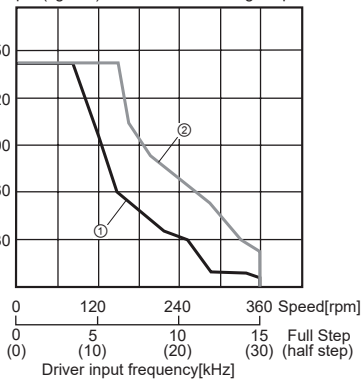
Torque (kgf·cm) ※fs: max. starting torque



- ① Driver MDS-ND14, Power 24VDC, Setting current 1.4A/Phase
- ② Driver MDS-HD14, Power 24VDC, Setting current 1.4A/Phase
- ③ Driver MDS-HF14, Power 220VAC, Setting current 1.4A/Phase
- ① fs: 2.3kpps
- ② fs: 2.3kpps
- ③ fs: 2.8kpps

● A140K-□599(W)-G5 A140K-□599-GB5

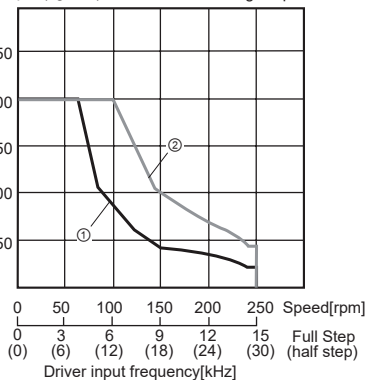
Torque (kgf·cm) ※fs: max. starting torque



- ① Driver MDS-HF14, Power 220VAC, Setting current 1.4A/Phase
- ② Driver MDS-HF28, Power 220VAC, Setting current 2.8A/Phase
- ① fs: 1.8kpps
- ② fs: 2.1kpps

● A200K-□599(W)-G7.2 A200K-□599-GB7.2

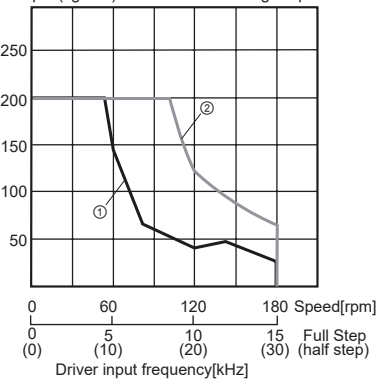
Torque (kgf·cm) ※fs: max. starting torque



- ① Driver MDS-HF14, Power 220VAC, Setting current 1.4A/Phase
- ② Driver MDS-HF28, Power 220VAC, Setting current 2.8A/Phase
- ① fs: 1.8kpps
- ② fs: 2.1kpps

● A200K-□599(W)-G10 A200K-□599-GB10

Torque (kgf·cm) ※fs: max. starting torque



- ① Driver MDS-HF14, Power 220VAC, Setting current 1.4A/Phase
- ② Driver MDS-HF28, Power 220VAC, Setting current 2.8A/Phase
- ① fs: 1.9kpps
- ② fs: 2.1kpps

SENSORS
CONTROLLERS
MOTION DEVICES
SOFTWARE
(Y) Closed Loop Stepper System
(Z) Stepper Motors
(AA) Drivers
(AB) Motion Controllers