

# 5-Phase Stepper Motor And Driver Specifications

(○: General specifications, ⊙: High-speed, High-torque specifications)

Motor					Driver			
Frame size	Type	Model	Torque (kgf·cm)	Rated current (A/Phase)	MD5-HD14/MD5-ND14/MD5-HD14-2X(3X)	MD5-HF14/MD5-HF14-AO	MD5-HF28	
24mm	Shaft type	A2K-S523(W)	0.18	0.75	○	○	—	
		A4K-S525(W)	0.28	0.75	○	○	—	
42mm	Shaft type / Shaft + Built-in brake type	A1K-S543(W)-B	1.3	0.75	○	○	—	
		A2K-S544(W)-B	1.8	0.75	○	○	—	
		A2K-M544(W)	1.8	1.4	○	○	—	
		A3K-S545(W)-B	2.4	0.75	○	○	—	
	Hollow shaft type	AH1K-S543	1.3	0.75	○	○	—	
		AH2K-S544	1.8	0.75	○	○	—	
		AH3K-S545	2.4	0.75	○	○	—	
	Geared type/ Geared + Built-in brake type	A10K-S545(W)-G5	10	0.75	○	○	—	
		A15K-S545(W)-G7.2	15	0.75	○	○	—	
		A15K-S545(W)-G10	15	0.75	○	○	—	
60mm	Shaft type / Shaft + Built-in brake type	A4K-S564(W)-B	4.2	0.75	○	○	—	
		A4K-M564(W)-B	4.2	1.4	○	○	—	
		A4K-G564(W)	4.2	2.8	—	—	○	
		A8K-S566(W)-B	8.3	0.75	○	○	—	
		A8K-M566(W)-B	8.3	1.4	○	○	—	
		A8K-G566(W)	8.3	2.8	—	—	○	
		A16K-M569(W)-B	16.6	1.4	○	○	—	
		A16K-G569(W)-B	16.6	2.8	—	—	○	
	Hollow shaft type	AH4K-S564(W)	4.2	0.75	○	○	—	
		AH4K-M564(W)	4.2	1.4	○	○	—	
		AH8K-S566(W)	8.3	0.75	○	○	—	
		AH8K-M566(W)	8.3	1.4	○	○	—	
		AH16K-M569(W)	16.6	1.4	○	○	—	
		AH16K-G569(W)	16.6	2.8	—	—	○	
	Geared type/ Geared + Built-in brake type	A35K-M566(W)-G5	35	1.4	○	○	—	
		A40K-M566(W)-G7.2	40	1.4	○	○	—	
		A50K-M566(W)-G10	50	1.4	○	○	—	
		Rotary actuator type/ Rotary actuator + Built-in brake type	A35K-M566(W)-R5	35	1.4	○	○	—
	A40K-M566(W)-R7.2		40	1.4	○	○	—	
	A50K-M566(W)-R10		50	1.4	○	○	—	
	85mm		Shaft type / Shaft + Built-in brake type	A21K-M596(W)-B	21	1.4	○	○
		A21K-G596(W)-B		21	2.8	—	—	○
		A41K-M599(W)-B		41	1.4	○	○	—
		A41K-G599(W)-B		41	2.8	—	—	○
A63K-M5913(W)-B		63		1.4	○	○	—	
A63K-G5913(W)-B		63		2.8	—	—	○	
Hollow shaft type		AH21K-M596(W)	21	1.4	○	○	—	
		AH21K-G596(W)	21	2.8	—	—	○	
		AH41K-M599(W)	41	1.4	○	○	—	
		AH41K-G599(W)	41	2.8	—	—	○	
		AH63K-M5913(W)	63	1.4	○	○	—	
		AH63K-G5913(W)	63	2.8	—	—	○	
Geared type/ Geared + Built-in brake type	A140K-M599(W)-G5	140	1.4	○	○	—		
	A140K-G599(W)-G5	140	2.8	—	—	○		
	A200K-M599(W)-G7.2	200	1.4	○	○	—		
	A200K-G599(W)-G7.2	200	2.8	—	—	○		
	A200K-M599(W)-G10	200	1.4	○	○	—		
	A200K-G599(W)-G10	200	2.8	—	—	○		

※(W) stands for dual shaft of motor. (The built-in brake type provides single shaft type only.)

※The motor torque has a big difference in torque by the characteristics of the driver.

Please refer to the graph in this catalogue that shows the characteristics of motors and drivers.

For MD5-HD14, MD5-HD14-2X (3X), MD5-ND14, the high-speed region torque characteristics are better at 35VDC than at 20VDC.

In addition, MD5-HF14 and MD5-HF28 have further improved torque characteristics in the high-speed area than using DC type driver.

(A) Photoelectric Sensors

(B) Fiber Optic Sensors

(C) Door/Area Sensors

(D) Proximity Sensors

(E) Pressure Sensors

(F) Rotary Encoders

(G) Connectors/ Sockets

(H) Temperature Controllers

(I) SSRs / Power Controllers

(J) Counters

(K) Timers

(L) Panel Meters

(M) Tacho / Speed / Pulse Meters

(N) Display Units

(O) Sensor Controllers

(P) Switching Mode Power Supplies

(Q) Stepper Motors & Drivers & Controllers

(R) Graphic/ Logic Panels

(S) Field Network Devices

(T) Software