

5-Phase Stepper motor and Driver Specifications

(○ : General specifications, ◎ : High-torque specifications)

Motor					Driver			
Type		Model	Torque (kgf·cm)	A/phase (A)	MD5-HD14/MD5-ND14/MD5-HD14-2X(3X)	MD5-HF14/MD5-HF14-AO	MD5-HF28	
24 Square	Shaft type	02K-S523(W)	0.18	0.75	○	◎	—	
		04K-S525(W)	0.28	0.75	○	◎	—	
42 Square	Shaft type / Shaft + Brake built-in type	A1K-S543(W)-[B]	1.3	0.75	○	◎	—	
		A2K-S544(W)-[B]	1.8	0.75	○	◎	—	
		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 built-in type	A10K-S545(W)-G5	10	0.75	○	◎	—	
		A15K-S545(W)-G7.2	15	0.75	○	◎	—	
		A15K-S545(W)-G10	15	0.75	○	◎	—	
60 Square	Shaft type / Shaft + Brake built-in type	A4K-S564(W)-[B]	4.2	0.75	○	◎	—	
		A4K-M564(W)-[B]	4.2	1.4	○	◎	—	
		A8K-S566(W)-[B]	8.3	0.75	○	◎	—	
		A8K-M566(W)-[B]	8.3	1.4	○	◎	—	
		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 built-in type/ Geared + Brake built-in type	A35K-M566(W)-G[B]5	35	1.4	○	◎	—	
		A40K-M566(W)-G[B]7.2	40	1.4	○	◎	—	
		A50K-M566(W)-G[B]10	50	1.4	○	◎	—	
	Rotary actuator type/ Rotary actuator + Brake built-in type	A35K-M566(W)-R[B]5	35	1.4	○	◎	—	
		A40K-M566(W)-R[B]7.2	40	1.4	○	◎	—	
		A50K-M566(W)-R[B]10	50	1.4	○	◎	—	
	85 Square	Shaft type / Shaft + Brake built-in 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 built-in type/ Geared + Brake built-in type		A140K-M599(W)-G[B]5	140	1.4	○	◎	—	
		A140K-G599(W)-G[B]5	140	2.8	—	—	◎	
		A200K-M599(W)-G[B]7.2	200	1.4	○	◎	—	
		A200K-G599(W)-G[B]7.2	200	2.8	—	—	◎	
		A200K-M599(W)-G[B]10	200	1.4	○	◎	—	
		A200K-G599(W)-G[B]10	200	2.8	—	—	◎	

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

※The motor 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, MD5-HF28 have further improved torque characteristics in the high-speed area than using DC type driver.