

5-Phase Stepper Motor And Driver Specifications

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

Motor				Driver			
Type	Model	Torque (kgf·cm)	Rated current (A/Phase)	MD5-HD14/MD5-ND14/MD5-HD14-2X (3X)	MD5-HF14/MD5-HF14-AO	MD5-HF28	
□24	Standard shaft type	02K-S523 (W)	0.18	0.75	○	—	
		04K-S525 (W)	0.28	0.75	○	—	
□42	Standard shaft type / Shaft + Brake built-in 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 built-in type/ Geared + Brake built-in type	A10K-S545 (W)-G[B]5	10	0.75	○	◎	
		A15K-S545 (W)-G[B]7.2	15	0.75	○	◎	
		A15K-S545 (W)-G[B]10	15	0.75	○	◎	
	□60	Standard shaft type / Shaft + Brake built-in 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 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		Standard 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 and MD5-HF28 have further improved torque characteristics in the high-speed area than using DC type driver.