

XINJE

Explosion-Proof | Dust Ignition Protection



MS6 Series

Explosion-Proof Permanent Magnet Synchronous Servo Motor



XINJE Wechat

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To be the Most Trusted Partner in Automation

MS6 Series

Explosion-Proof Permanent Magnet Synchronous Servo Motor

MS6 Series Explosion-proof Permanent Magnet Synchronous Servo Motors are specially designed for explosive atmosphere, combining reliable explosion-proof protection, high precision, and high protection performance. They meet both gas and dust explosion protection requirements and are widely used in hazardous applications such as painting, chemical, petroleum, lithium battery, and printing & packaging industries.

Core Compliance Standards

- ◆ GB/T 3836.1-2021 Explosive atmosphere Part 1: Equipment – General requirements
- ◆ Explosive atmosphere Part 2: Equipment protected by explosion-proof enclosure “d”
- ◆ Explosive atmosphere Part 31: Equipment protected by dust ignition protection enclosure “t”



Gas Atmosphere

- ◆ **Ex db IICT4 Gb**
Explosive gas atmospheres in Zone 1 or Zone 2
T4 ($\leq 135^{\circ}\text{C}$)
- ◆ **Ex db IICT5 Gb**
(Group IIA/IIB/IIC)
T5 ($\leq 100^{\circ}\text{C}$)



Dust Atmosphere

- ◆ **Ex tb IIIC T130°C Db**
Explosive dust atmospheres in Zone 21 or Zone 22
T130°C
- ◆ **x tb IIIC T100°C Db**
(Group IIIA/IIIB/IIC)
T100°C



Electrical Specifications Overview

◆ T4 Data Sheet

Motor Model	Operating Voltage	Rated Power (kW)	Rated Speed (rpm)	Rated Torque (Nm)	Rated Current (A)	Max. Speed (rpm)	Max. Torque (Nm)	Max. Current (A)	Inertia(W/O Brake) /Inertia(W/ Brake)
MS6H-60XX30XX5-40P2	400VAC	0.20	3000	0.64	0.92	6000	1.92	3.0	0.22/0.23
MS6H-60XX30XX5-40P4	400VAC	0.40	3000	1.28	1.42	6000	3.84	4.6	0.39/0.40
MS6H-80XX30XX5-40P5	400VAC	0.55	3000	1.75	2.04	6000	5.25	6.1	1.55/1.60
MS6H-80XX30XX5-40P7	400VAC	0.75	3000	2.38	2.78	6000	7.14	8.3	1.55/1.60
MS6H-80XX30XX5-41P0	400VAC	1.0	3000	3.18	3.85	6000	9.54	11.6	2.00/2.05
MS6G-130XX15XX5-40P8	400VAC	0.85	1500	5.4	3.34	3000	16.2	10.4	8.9/9.8
MS6G-130XX15XXK5-40P8	400VAC	0.85	1500	5.4	4.85	4500	16.2	15.1	8.9/9.8
MS6G-130XX15XX5-41P3	400VAC	1.3	1500	8.3	4.95	3000	24	14.9	11.5/12.4
MS6G-130XX15XXK5-41P3	400VAC	1.3	1500	8.3	8.00	3000	24	25.5	11.5/12.4
MS6G-130XX15XX5-41P8	400VAC	1.8	1500	11.5	7.10	3000	34.5	22.2	16.7/17.6
MS6G-130XX15XXK5-41P8	400VAC	1.8	1500	11.5	10.4	4500	34.5	32.2	16.7/17.6
MS6G-130XX15XX5-42P3	400VAC	2.3	1500	14.6	9.03	3000	43.8	28.2	27.1/28.0
MS6G-130XX15XX5-42P3	400VAC	2.3	1500	14.6	13.5	4500	43.8	42.3	27.1/28.0
MS6G-180XX15XX5-42P9	400VAC	2.9	1500	18.5	11.5	3000	55.5	35.1	48.7/55.2
MS6G-180XX15XXK5-42P9	400VAC	2.9	1500	18.5	18.0	4500	55.5	54.5	48.7/55.2
MS6G-180XX15XX5-43P3	400VAC	3.3	1500	21.0	13.8	3000	63	42.0	54.9(61.4)
MS6G-180XX15XXK5-43P3	400VAC	3.3	1500	21.0	18.5	4500	63	56.3	54.9(61.4)
MS6G-180XX15XX5-44P4	400VAC	4.4	1500	28	18.2	3000	84	55.4	70.5(77.0)
MS6G-180XX15XXK5-44P4	400VAC	4.4	1500	28	23.9	4500	84	72.7	70.5(77.0)
MS6G-180XX15XX5-45P5	400VAC	5.5	1500	35	21.9	3000	105	66.5	93.7(100.2)
MS6G-180XX15XXK5-45P5	400VAC	5.5	1500	35	29.8	4500	105	90.2	93.7(100.2)
MS6G-180XX15XX5-47P5	400VAC	7.5	1500	48	27.2	3000	144	82.8	115.5(122.0)
MS6G-180XX15XXK5-47P5	400VAC	7.5	1500	48	40.8	4500	144	123.9	115.5(122.0)
MS6H-60XX30XX5-20P2	230VAC	0.20	3000	0.64	1.46	6000	1.92	4.6	0.22(0.23)
MS6H-60XX30XX5-20P4	230VAC	0.40	3000	1.28	2.92	6000	3.84	9.4	0.39(0.40)
MS6H-80XX30XX5-20P7	230VAC	0.75	3000	2.38	5.14	6000	7.14	15.5	1.55(1.60)
MS6H-80XX30XX5-21P0	230VAC	1.0	3000	3.18	6.75	6000	9.54	20.2	2.00(2.05)
MS6G-130XX15XX5-20P8	230VAC	0.85	1500	5.4	5.57	3000	16.2	17.4	8.9(9.8)
MS6G-130XX15XXK5-20P8	230VAC	0.85	1500	5.4	8.40	4500	16.2	26.1	8.9(9.8)
MS6G-130XX15XX5-21P3	230VAC	1.3	1500	8.3	8.70	3000	24	26.0	11.5(12.4)
MS6G-130XX15XXK5-21P3	230VAC	1.3	1500	8.3	12.8	4500	24	38.6	11.5(12.4)
MS6G-130XX15XX5-21P8	230VAC	1.8	1500	11.5	12.1	3000	34.5	37.7	16.7/17.6
MS6G-130XX15XXK5-21P8	230VAC	1.8	1500	11.5	17.8	4500	34.5	55.5	16.7/17.6
MS6G-130XX15XX5-22P3	230VAC	2.3	1500	14.6	15.2	3000	43.8	47.5	27.1/28.0
MS6G-130XX15XXK5-22P3	230VAC	2.3	1500	14.6	22.2	4500	43.8	69.1	27.1/28.0
MS6G-180XX15XX5-22P9	230VAC	2.9	1500	18.5	19.8	3000	55.5	60.2	48.7/55.2
MS6H-60XX30XX5-50P2	48VDC	0.20	3000	0.64	5.40	6000	1.92	17.3	0.22/0.23
MS6H-60XX30XX5-50P4	48VDC	0.40	3000	1.28	10.44	6000	3.84	33.4	0.39/0.40
MS6H-80XX30XX5-50P7	48VDC	0.75	3000	2.38	20.56	6000	7.14	61.6	1.55/1.60
MS6G-130XX15XX5-50P8	48VDC	0.85	1500	5.4	22.90	3000	16.2	71.4	8.9/9.8
MS6G-130XX15XX5-51P3	48VDC	1.30	1500	8.3	34.30	3000	24	103.0	11.5/12.4
MS6G-180XX15XX5-52P5	48VDC	2.5	1500	16	63.3	3000	48	192.5	48.7/55.2

◆ T5 Data Sheet

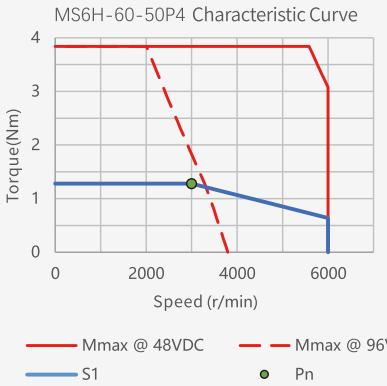
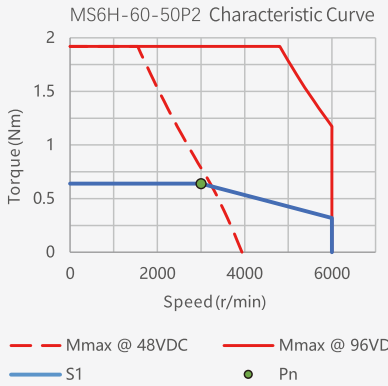
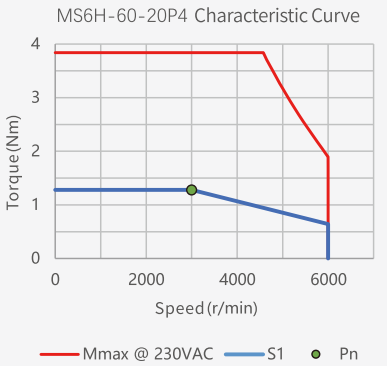
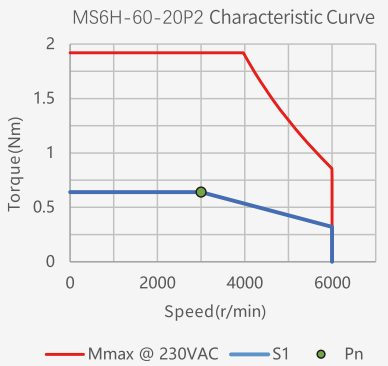
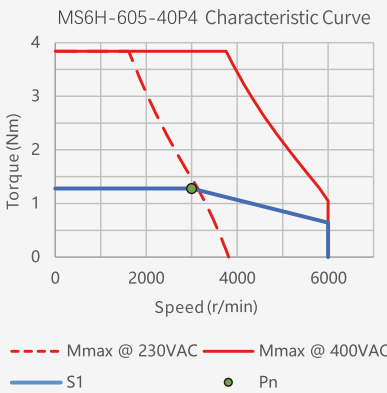
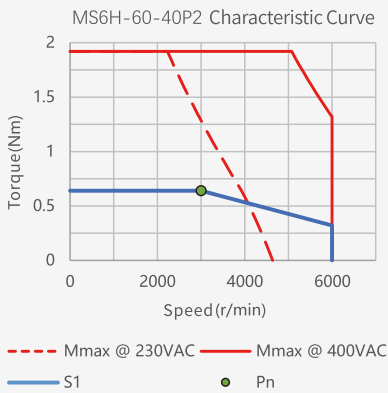
Motor Model	Operating Voltage	Rated Power (kW)	Rated Speed (rpm)	Rated Torque (Nm)	Rated Current (A)	Max. Speed (rpm)	Max. Torque (Nm)	Max. Current (A)	Inertia(W/O Brake) /Inertia(W/ Brake)
MS6H-60XX30XX5-20P4	230VAC	0.40	3000	1.28	2.95	6000	3.84	9.41	0.39/0.40
MS6H-80XX30XX5-20P9	230VAC	0.90	3000	2.86	6.07	6000	9.54	20.22	2.00/2.05
MS6G-130XX15XX5-41P3	380VAC	1.3	1500	8.3	7.5	4500	34.5	32.2	16.7/17.6
MS6G-130XX15XX5-41P8	380VAC	1.8	1500	11.5	10.7	4500	43.8	42.3	27.1/28.0
MS6G-180XX15XX5-43P3	380VAC	3.3	1500	21	17.9	4500	84	72.7	70.5/77.0
MS6G-180XX15XX5-45P5	380VAC	5.5	1500	35	29.8	4500	144	123.9	115.5/122.0

Brake Specification (Optional)

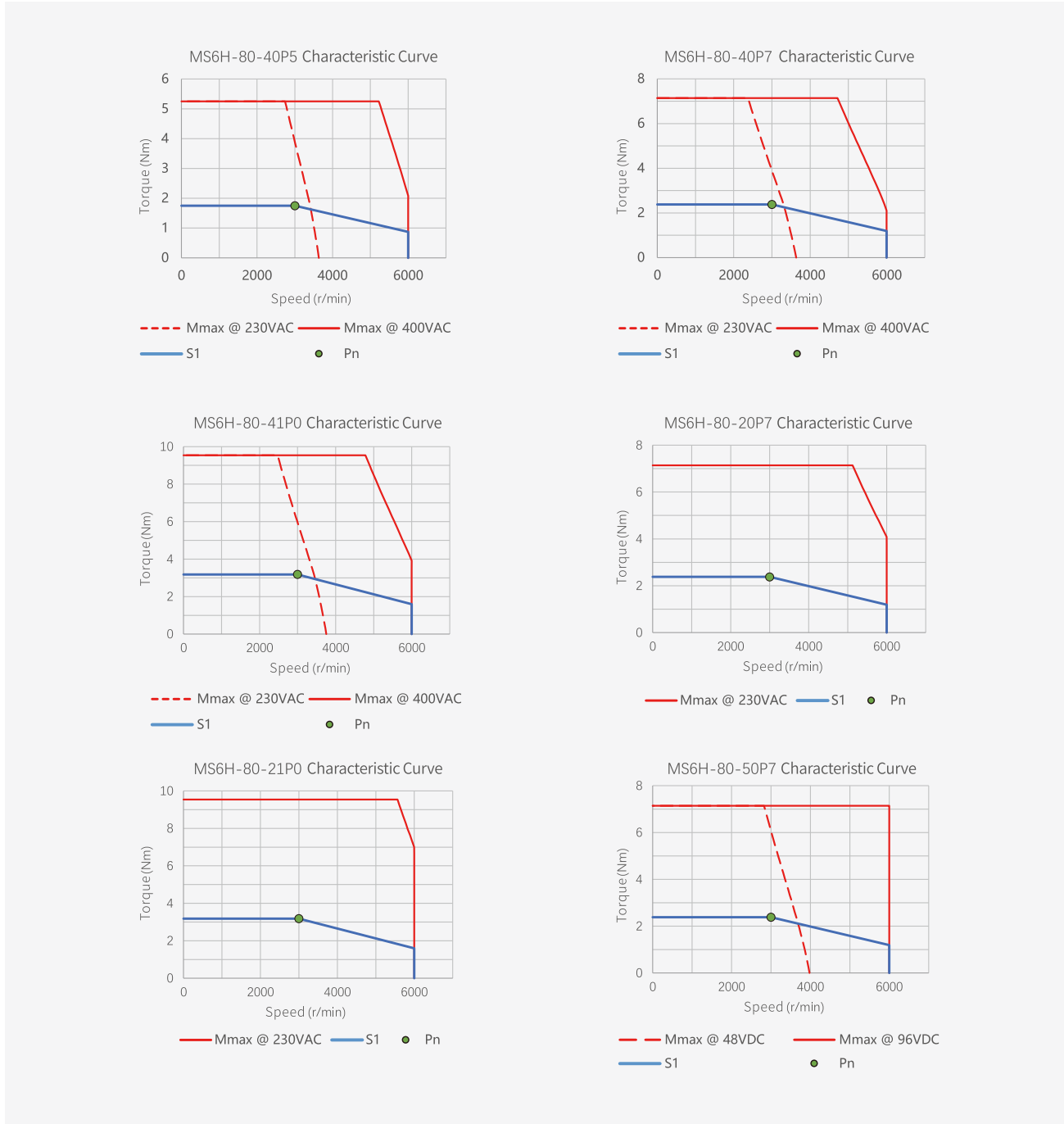
Frame Size	Holding Torque □ N · m □	Power Supply (VDC)	Release/Engagement Time
MS6H-60	2	24	≤20ms/≤60ms
MS6H-80	6	24	≤40ms/≤80ms
MS6G-130	20	24	≤40ms/≤100ms
MS6G-180	55	24	≤60ms/≤200ms

Characteristic Curve

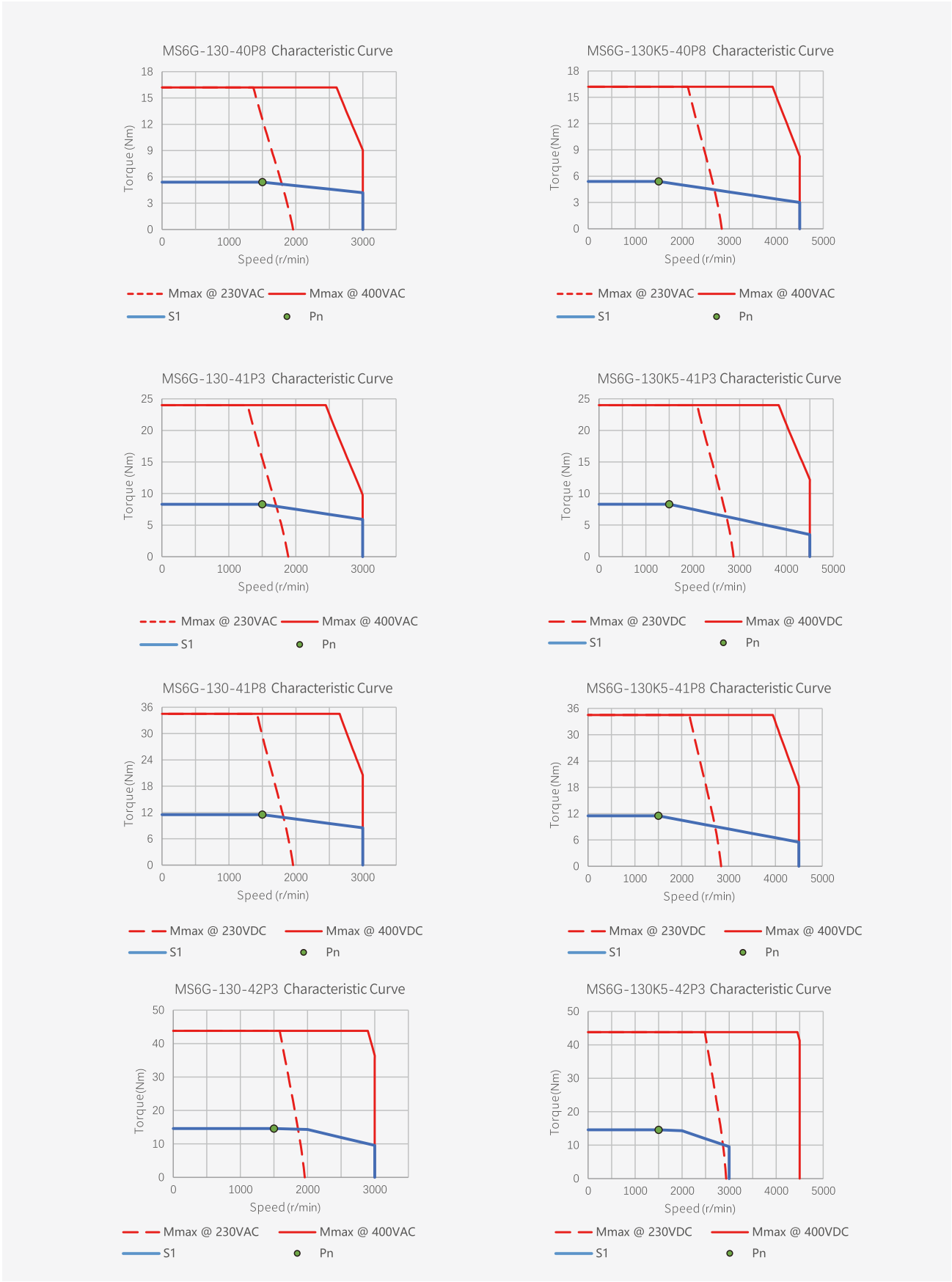
◆ MS6H-60-T4



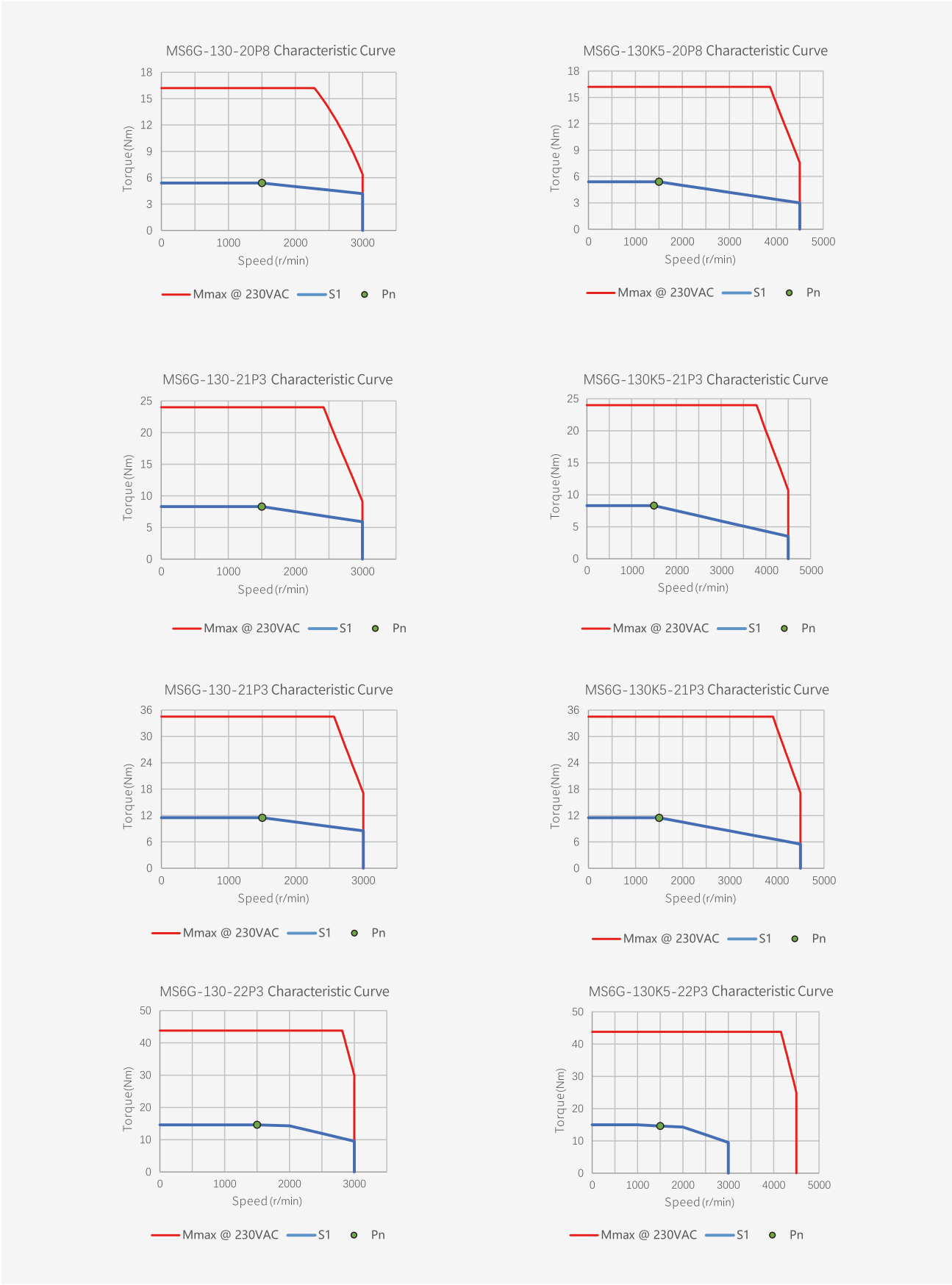
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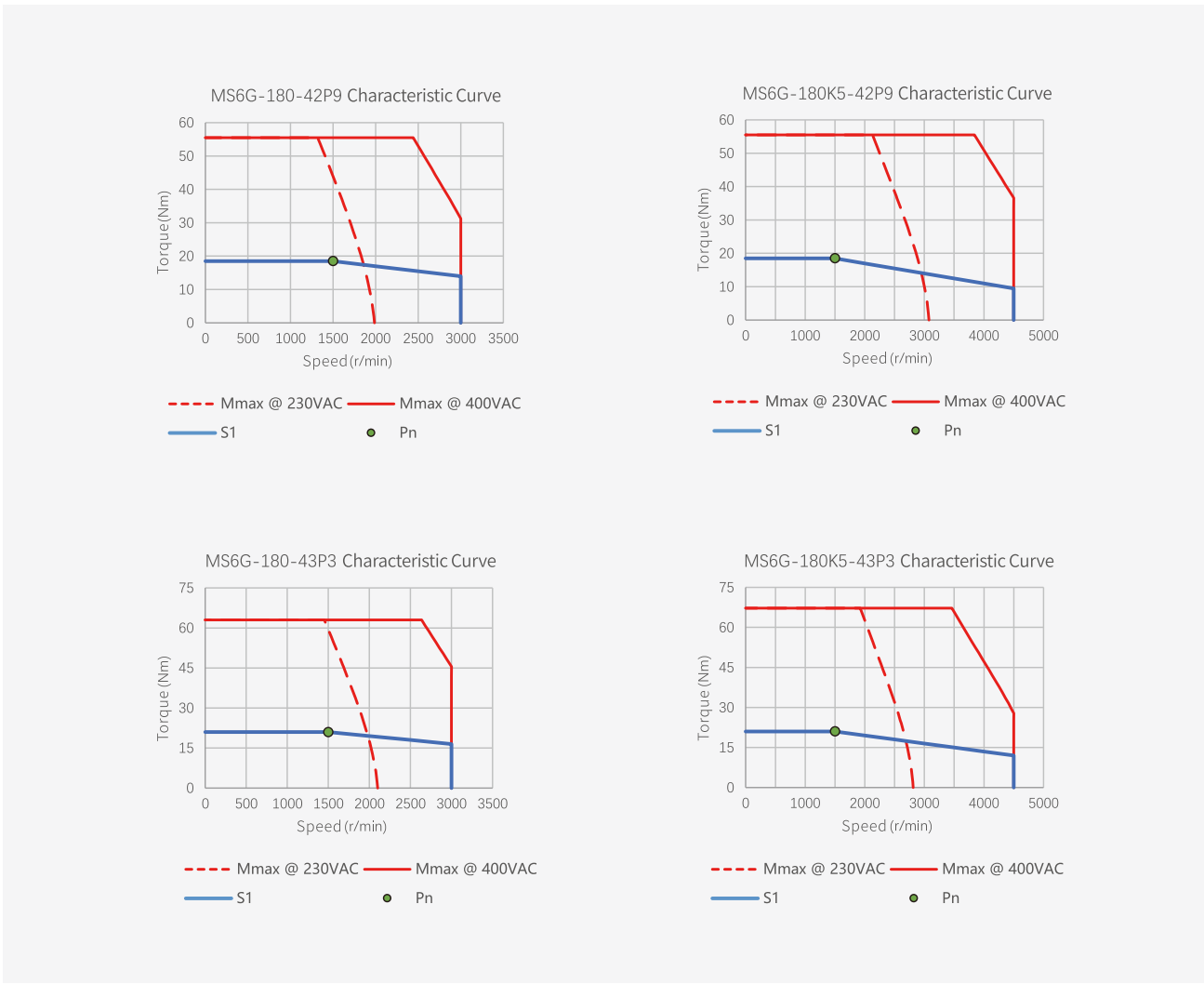
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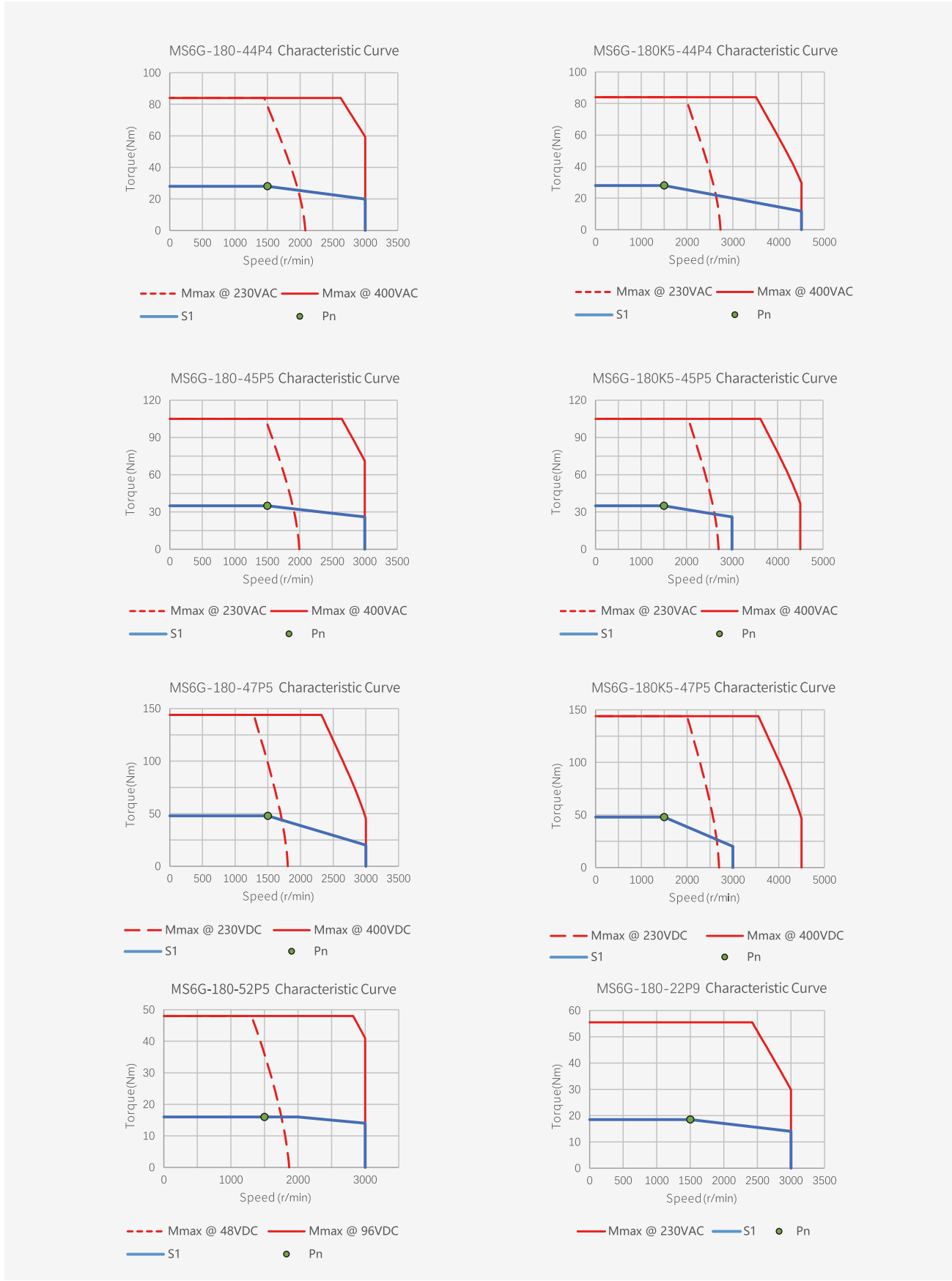
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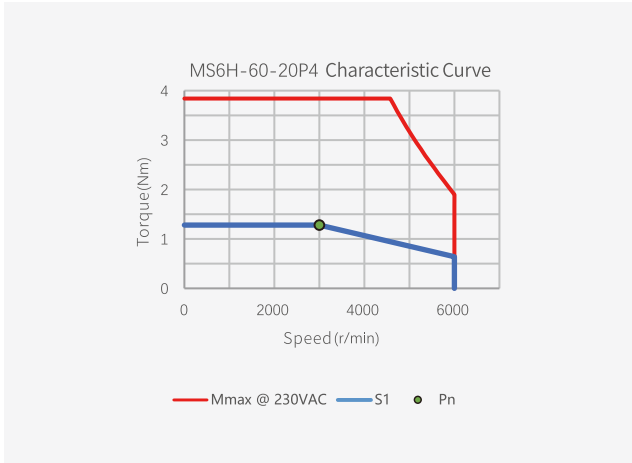
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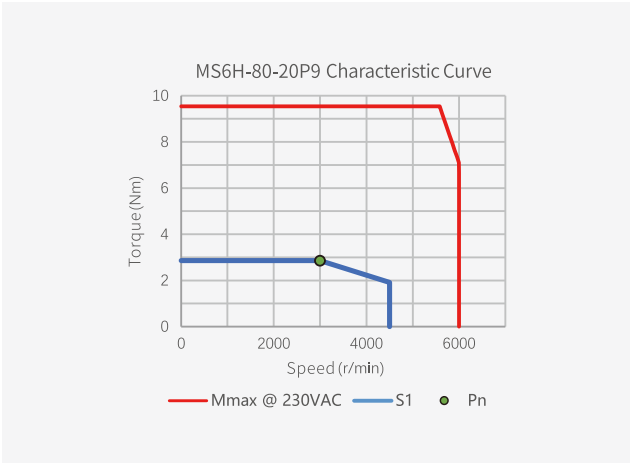
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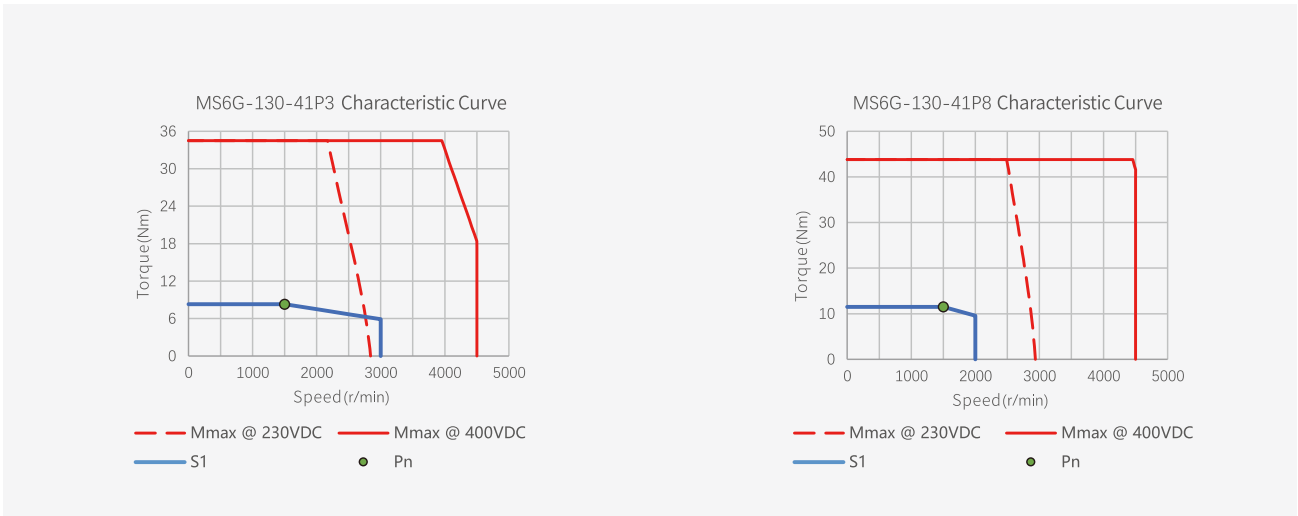
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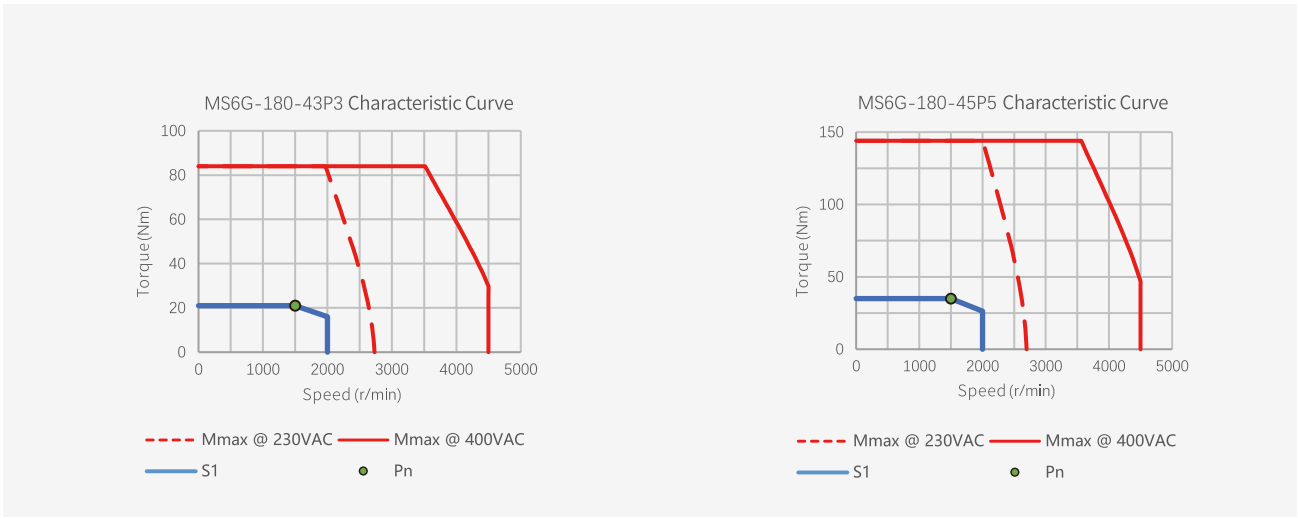
◆ MS6H-80-T5



◆ MS6G-130-T5

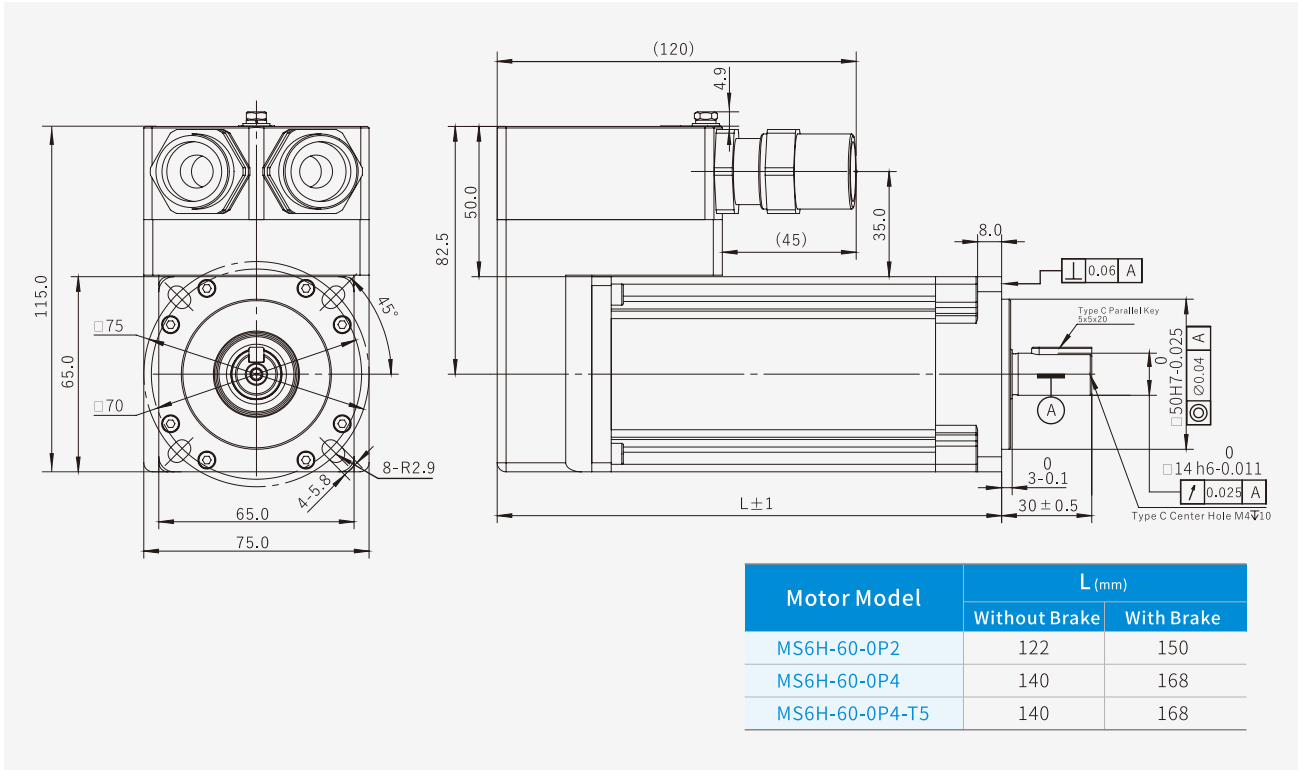


◆ MS6G-180-T5

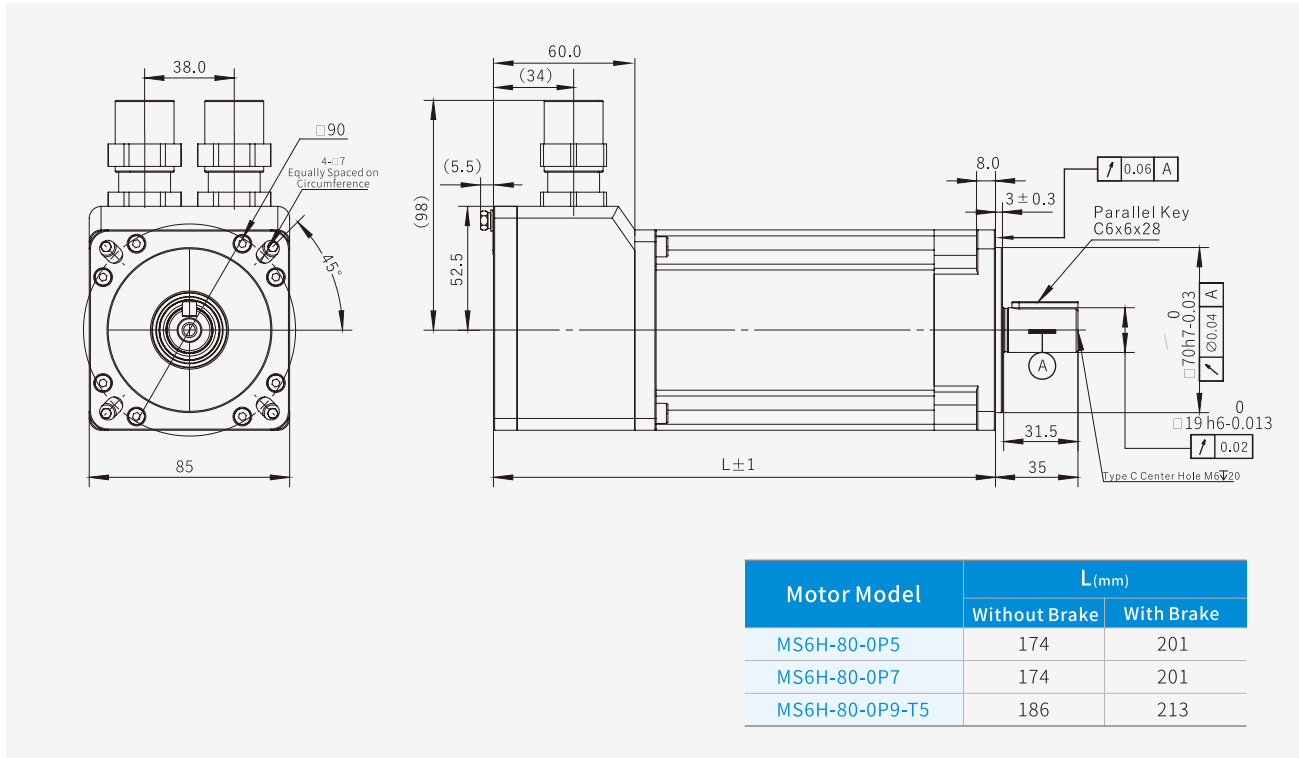


Dimensions

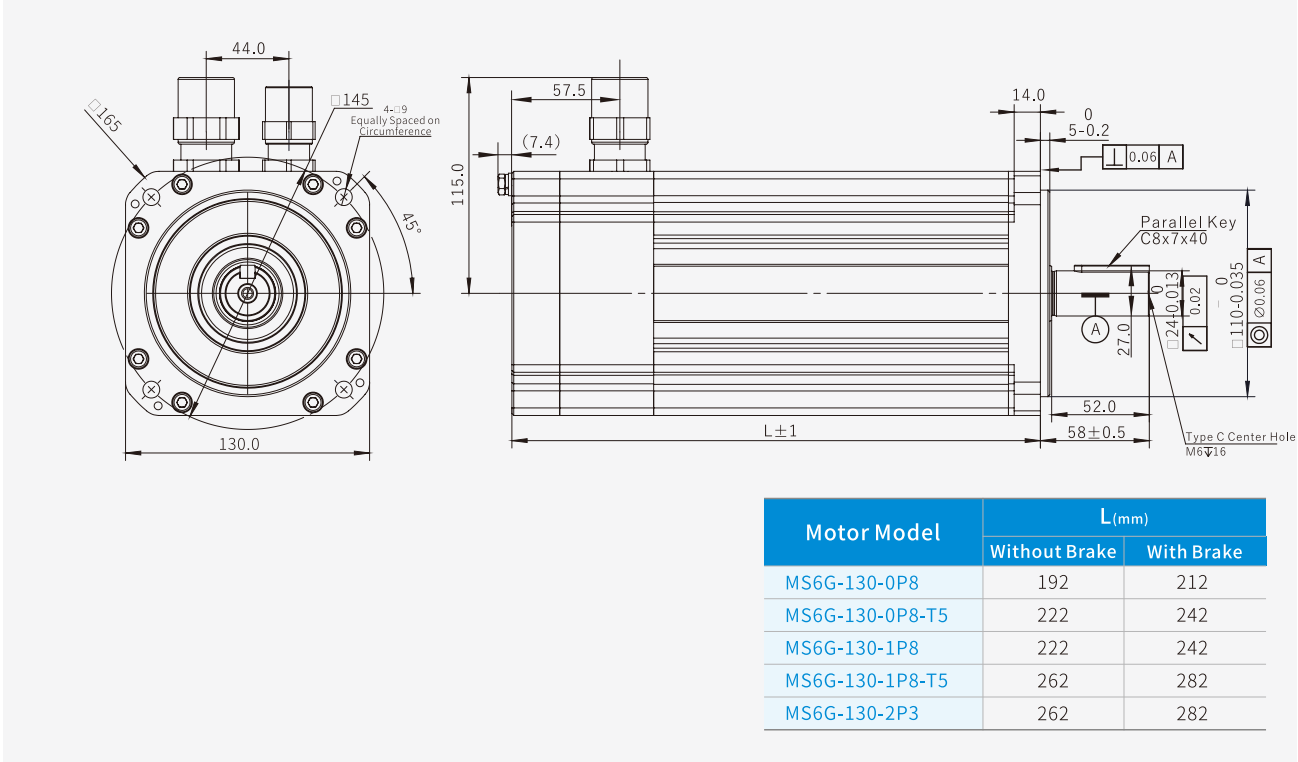
◆ MS6H-60



◆ MS6H-80



◆ MS6G-130



◆ MS6G-180

