

XtraforsMSS DC Servomotors



Features

- Compact size
- Zero cogging
- Low inertia

Power

- Torque from 0.6 to 13.6 Nm
- Ratings to 6000 RPM
- Acceleration torques to 10 x rated

Executions

- Wide range of standard models
- Customized versions
- Sizes 129.5 to 193 mm
- CSA- and UL-Certifications

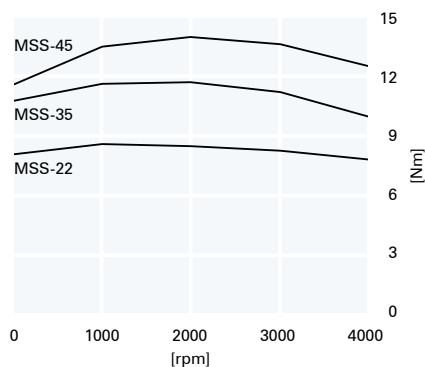
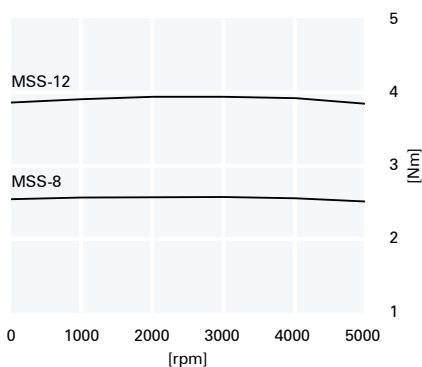
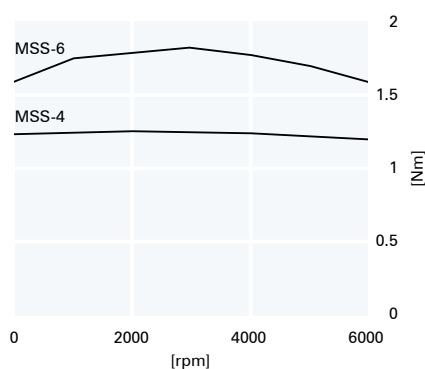
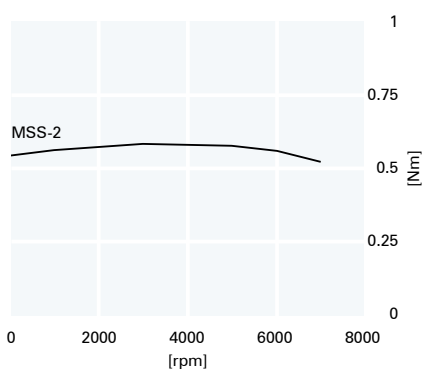
XtraforsMSS, DC Servomotors

Flat XtraforsMSS motors are especially suited for demanding servo tasks. These motors provide high dynamic and extremely high rotation accuracy at low speeds. They are equipped with ironless rotors and long life brushes.

Technical data

		MSS-2	MSS-4	MSS-6	MSS-8	MSS-12	MSS-22	MSS-35	MSS-45
Rated torque	[Nm]	0.60	1.26	1.83	2.56	3.95	8.19	11.23	13.60
Rated speed	[rpm]	3000	3000	3000	3000	3000	3000	3000	3000
Rated current	[ADC]	6.5	7.8	10.7	10.7	14.0	16.0	19.5	21.0
Rated voltage	[VDC]	39.4	67.0	67.8	89.7	106.7	181.0	200.0	224.0
Rated power	[W]	190	397	575	805	1240	2573	3525	4274
Max. Speed	[rpm]	7000	6000	6000	5000	4500	4000	4000	4000

Torque curves



Standard version

- Shaft with keyway
- PG connection
- Round flange (B14)
- Closed housing

Options

- Encoder kit
- Brake
- Shaft without keyway
- Square flange (B5)
- Connector
- Tachogenerator
- Prepared for gear assembly
- Forced air kit

Customized versions

- Shaft
- Flange
- Special connectors and wiring
- Special construction according to customer's specifications

Brakes

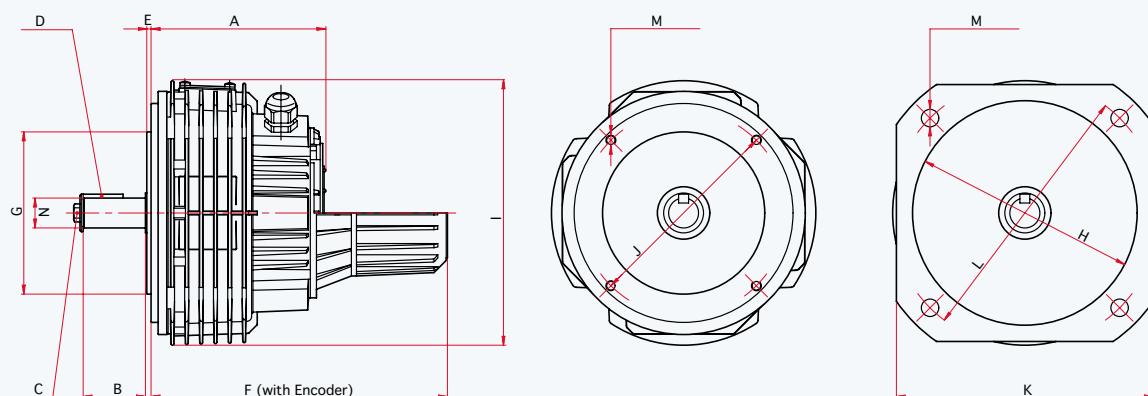
		MSS-2	MSS-4	MSS-6	MSS-8	MSS-12	MSS-22	MSS-35	MSS-45
Torque	[Nm]	1.2	2.5	2.5	2.5	5.0	12.0	20.0	20.0
Tension	[VDC]	24 (+6% – 10%)							

Tachogenerators

[illegible]

XtraforsMSS servomotors can integrate both tachometer and holding brake. They are much shorter than traditional similarly powered motors. Compared with their former versions, these motors provide, at same weight and volume, 20% higher torque.

Mechanical dimensions



FLANGE B-14

FLANGE B-5

Dimensions [mm]		MSS-2	MSS-4	MSS-6	MSS-8	MSS-12	MSS-22	MSS-35	MSS-45
A		131.5	129.5	129.5	140.0	139.5	167.5	193.0	193.0
B		23.0	30.0	30.0	30.0	50.0	60.0	60.0	60.0
C	DIN 933	M3x10	M4x16	M4x16	M4x16	M10x22	M8x16	M10x22	M10x22
D	DIN 6885	A4x4x14	A5x5x20	A5x5x20	A5x5x20	A8x7x32	A8x7x32	A8x7x32	A8x7x32
E		3.0	2.0	2.0	2.0	3.5	3.5	3.5	3.5
F		235.0	233.0	233.0	243.5	237.5	265.5	291.0	291.0
G Ø	j6	80	95	95	95	130	130	180	180
H Ø	j6	110	130	130	130	180	230	250	250
I Ø		118	140	168	192	212	275	305	305
J Ø		100	115	115	115	165	165	215	215
K		119.0	154.0	170.0	176.0	206.0	258.0	284.0	284.0
L Ø		130	165	180	180	215	265	300	300
M	B14	4xM6x8	4xM6x10	4xM6x10	4xM6x10	4xM6x11	4xM6x11	4xM6x14	4xM6x14
	B5	4xØ9	4xØ11	4xØ11	4xØ11	4xØ14	4xØ14	4xØ18	4xØ18
N	g6	11	14	14	14	24	24	24	24

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