

XtraforsMSA AC Servomotors



Features

- Excellent torque/weight/volume/ratio
- Very compact
- Axial magnetic flux
- Low cogging torque

Power

- Torque from 1.4 to 30.0 Nm

Executions

- Wide range of standard models
- Customized versions
- Sizes 128.5 to 200 mm

XtraforsMSA, AC Servomotors

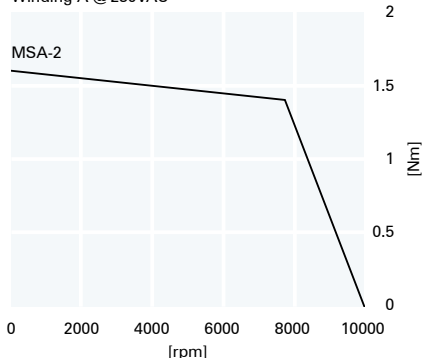
MSA series servomotors provide the user with a wide range of flat motors. Low inertia and reduced cogging torque guarantee an excellent performance.

Technical data

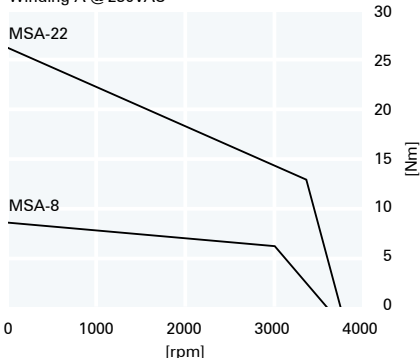
	Rated torque	Rated speed	Peak speed Winding A			Peak speed Winding 4	
			Rated Current	@230VAC	@400VAC	Rated Current	@400VAC
	[Nm]	[rpm]	[Arms]	[rpm]	[rpm]	[Arms]	[rpm]
MSA-2	1.4	7800	4.00	10000	10000	2.59	10000
MSA-8	6.5	3000	6.57	3650	8520	–	–
MSA-22	13.0	3300	13.98	3820	6000	7.98	3860
MSA-45	30.0	3000	17.86	–	–	17.86	3730

Torque curves

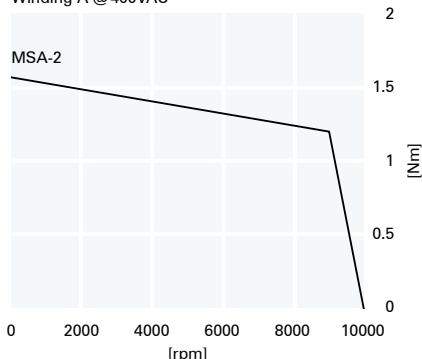
Winding A @ 230VAC



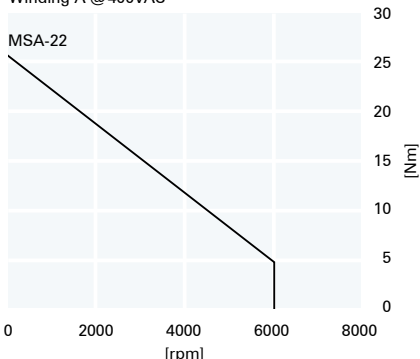
Winding A @ 230VAC



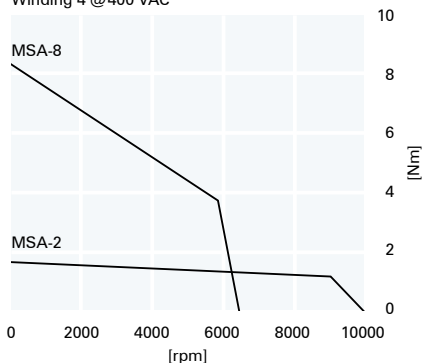
Winding A @ 400VAC



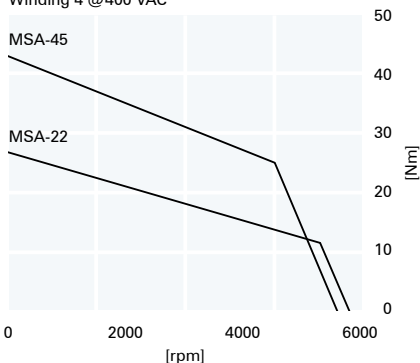
Winding A @ 400VAC



Winding 4 @ 400 VAC



Winding 4 @ 400 VAC



Standard version

- Resolver feedback
- Shaft with keyway
- Round flange (B14)
- Protection IP 65
- Angled connectors
- NTC thermal sensor
- 230VAC or 400VAC winding

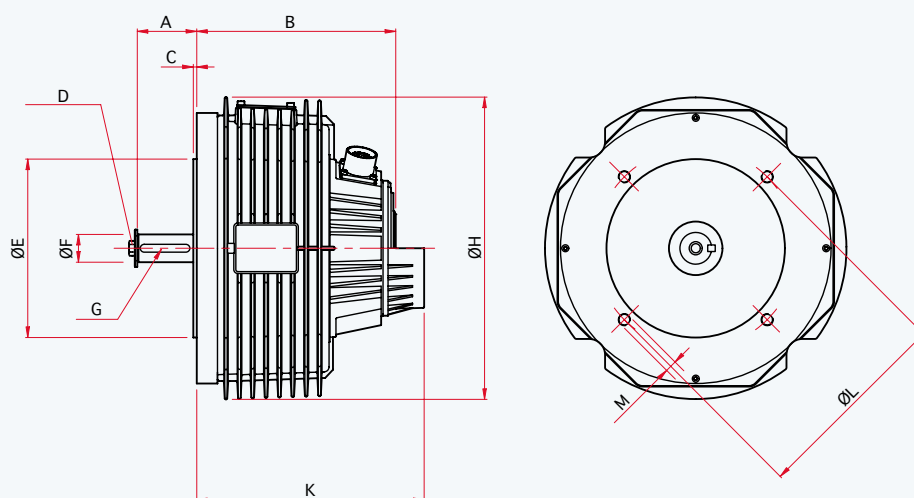
Options

- Shaft without keyway
- Shaft seal
- Square flange (B5)

Customized versions

- Various types of incremental encoders
SinCos encoders, Hyperface, EndDat
- PTC thermal sensor
- Winding
- Shaft
- Flange
- Special connectors and wiring

Mechanical dimensions



Dimensions [mm]		MSA-2	MSA-8	MSA-22	MSA-45
A		23.0	40.0	50.0	60.0
B		128.5	145.0	178.0	200.0
C		2.5	3.0	3.5	3.5
D	DIN 933	M4x8	M6x16	M8x16	M10x22
E Ø	j6	50	95	130	180
F Ø	k6	11	16	24	28
G	DIN 6885	A4x4x14	A5x5x30	A8x7x32	A8x7x50
H Ø		151.0	170.0	202.0	224.0
K	with brake	118	192	275	305
L Ø		65	115	165	215
M		4xM5	4xM8	4xM10	4xM12

Brakes

Torque	[Nm]	2	9	36	36
Tension	[VDC]	24 (+6% – 10%)			

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