

Synchronous servo motors

IndraDyn S

MSM - for compact drives



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Documentation

**High dynamic performance and compact design**

- Maximum torque up to 7.1 Nm
- Maximum speed up to 5,000 rpm
- Multi-turn absolute encoder
- High dynamic performance
- High performance density

Maintenance-free MSM motors are available in five sizes rated at up to 750 W continuous mechanical power. These short-length motors feature high power density and minimized flange dimensions, making them the ideal choice in a wide range of application scenarios.

The IP54 motors come with an absolute encoder and optional holding brake, and they can easily be connected to IndraDrive Cs servo drives with 3 AC 230 V line input.

Technical data**Electric data**

Type	Maximum speed	Continuous torque at standstill	Maximum torque	Maximum current	Moment of inertia
	n_{Max}	M_0	M_{Max}	I_{Max}	J
	[1/min]	[Nm]	[Nm]	[A]	[kgm ²]
MSM019A-0300	5000	0.16	0.48	3.3	0.000003
MSM019B-0300		0.32	0.95		0.000005
MSM031B-0300		0.64	1.91	4.9	0.000014
MSM031C-0300		1.3	3.8	7.7	0.000026
MSM041B-0300	4500	2.4	7.1	12	0.000087

Dimensions

Type	A	B	C	Ø D	Ø E	Ø F	Ø G	H	Weight
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[kg]
MSM019A-0300	38	72	25	8	30	45	3.4	51	0.32
MSM019B-0300		92							0.47
MSM031B-0300	60	79	30	11	50	70	4.5	73	0.82
MSM031C-0300		98.5		14					1.2
MSM041B-0300	80	112	35	19	70	90	6	93	2.3

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