

Synchronous servo motors

# IndraDyn S

## MSM – for compact drives



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Documentation

**Dynamic and compact**

- Maximum torques up to 7.1 Nm
- Maximum speeds up to 5,000 rpm
- Multi-turn absolute encoder
- High dynamic performance
- High power density

The 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 are predestined for use with IndraDrive Cs servo drives with 3 AC 230 V line input.

**Technical data****Electrical data**

Type	Maximum speed	Standstill torque	Maximum torque	Maximum current	Moment of inertia
	$n_{Max}$	$M_0$	$M_{Max}$	$I_{Max}$	J
	[1/min]	[Nm]	[Nm]	[A]	[kgm <sup>2</sup> ]
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	Mass
	[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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It must be remembered that our products are subject to a natural process of wear and aging.