

## IndraDyn S – MSK





### Compact and powerful

- Maximum torques up to 495 Nm
- Maximum speeds up to 9,000 rpm
- Encoder systems for a wide and diverse range of applications
- High degree of protection IP65
- Choice of cooling systems

The particularly outstanding features of the MSK range of motors are its wide power spectrum and narrow size increments. The high torque density of these synchronous servo motors allows a particularly compact design with maximum torques of up to 495 Nm.

Depending on the level of precision required, we can supply the motors with encoder systems for standard or high-precision requirements. Both encoder versions are available in a single-turn and multi-turn configuration. A number of further options, such as the shaft keyway, holding brake, reduced runout and the high protection class IP65 mean that they can be used with fan, liquid cooling and ATEX.

On applications with high levels of continuous power, blower units for axial or radial mounting are available for retrofit. Intrinsically safe IP65 blower motors (UL thermally protected F) ensure the reliability of the single-phase blower units, eliminating the need for an external circuit breaker. Optional liquid cooling is available for very high power applications.

### Technical data

#### Electrical data

Type	Maximum speed	Standstill torque	Maximum torque	Standstill current	Maximum current	Moment of inertia
	$n_{Max}$	$M_0$	$M_{Max}$	$I_0$	$I_{Max}$	J
	[1/min]	[Nm]	[Nm]	[A]	[A]	[kgm <sup>2</sup> ]
MSK030B-0900	9000	0,4	1,8	1,5	6,8	0,000013
MSK030C-0900		0,8	4			0,00003
MSK040B-0450	6000	1,7	5,1	2	8	0,0001
MSK040B-0600	7500					
MSK040C-0450	6000	2,7	8,1	2,4	9,6	0,00014
MSK040C-0600	7500			3,1		
MSK043C-0600				12,5	3,6	18,5
MSK050B-0300	4300	3	9	1,8	7,2	0,00028
MSK050B-0450	6000			2,8	11,2	
MSK050B-0600				3,7	14,8	
MSK050C-0300	4700	5	15	3,1	12,4	0,00033
MSK050C-0450	6000			4,7	18,8	
MSK050C-0600				6,2	24,8	
MSK060B-0300	4800	8	24	3	12	0,00048
MSK060B-0600	6000			6,1	24,4	
MSK060C-0300	4900			4,8	19,2	

Electrical data

Type	Maximum speed	Standstill torque	Maximum torque	Standstill current	Maximum current	Moment of inertia
	$n_{Max}$	$M_0$	$M_{Max}$	$I_0$	$I_{Max}$	J
	[1/min]	[Nm]	[Nm]	[A]	[A]	[kgm <sup>2</sup> ]
MSK060C-0600	6000			9,5	38	
MSK061B-0300	4200	3,5	14	1,9	8,6	0,00044
MSK061C-0200	3100	8	32	3,2	14,4	0,000752
MSK061C-0300	4200			4,3	19,4	
MSK061C-0600	6000			7,7	34,7	
MSK070C-0150	2500	13	33	4,1	16,4	0,00291
MSK070C-0300	5500			8,2	32,8	
MSK070C-0450	6000			12,3	36,9	
MSK070D-0150	2700	17,5	52,5	6,2	24,8	0,00375
MSK070D-0300	4900			11	33	
MSK070D-0450	6000			16,6	49,8	
MSK070E-0150	2200	23	70	6,4	25,6	0,00458
MSK070E-0300	5300		65	15,4	49,3	
MSK070E-0450	6000		60	19,3	57,9	
MSK071C-0200	3500	12	44	5,2	23,4	0,00173
MSK071C-0300	5000			7,3	32,9	
MSK071C-0450	5800			8,9	40,1	
MSK071D-0200	3200	17,5	66	7,3	32,8	0,00255
MSK071D-0300	3800			9,1	40,5	
MSK071D-0450	6000			15,4	69,3	
MSK071E-0200	3400	23	84	10,1	45,5	0,0029
MSK071E-0300	4200			12,5	56,3	
MSK071E-0450	6000			20	90,1	
MSK075C-0200	4100	12	44	6,3	28,4	0,00352
MSK075C-0300	5000			8,4	37,8	
MSK075C-0450	6000			12,6	56,7	
MSK075D-0200	3800	17	64	8,3	37,4	0,0049
MSK075D-0300	4800		66	52,7		
MSK075D-0450	6000		64	74,3		
MSK075E-0200	3850	21	88	10,2	45,9	0,00613
MSK075E-0300	5200			14,2	63,9	
MSK075E-0450	6000			86	86	
MSK076C-0300	4700	12	43,5	7,2	32,4	0,0043
MSK076C-0450	5000			12,2	54,9	
MSK100A-0200	4400	15	54	9,2	41,4	0,011
MSK100A-0300	5200			10,2	45,9	
MSK100A-0450	6000			12	54	
MSK100B-0200	4100	28	102	14,7	66,2	0,0192
MSK100B-0300	4500			17,4	78,3	
MSK100B-0400				24,5	106,7	
MSK100B-0450				28,5	110,7	

# CYRUS