

Synchronous servo motors ↔

## IndraDyn S

# MSK - synchronous servo motor with forced ventilation



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**IndraDyn S ■ MSK - synchronous servo motor with forced ventilation****Documentation**

- Project planning manual



- Forced ventilation with axial-flow fan or with optional radial fan
- Maximum torques up to 631 Nm
- Maximum speeds up to 6,000 rpm
- Encoder systems for a wide and diverse range of applications
- High protection category IP65, including fan motor

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

Type	Maximum speed	Standstill torque	Maximum torque	Standstill current	Maximum current	Moment of inertia
		Fans		Fans		
	$n_{Max}$ [1/min]	$M_0$ [Nm]	$M_{Max}$ [Nm]	$I_0$ [A]	$I_{Max}$ [A]	J [kgm <sup>2</sup> ]
MSK060C-0300	4,900	12	24	7.2	19.2	0.0008
MSK060C-0600	6,000			14.3	38	
MSK061C-0200	3,100		32	4.8	14.4	0.000752
MSK061C-0300	4,200			6.5	19.4	
MSK061C-0600	6,000			11.6	34.7	
MSK070C-0150	2,500	19.5	33	6.2	12.6	0.00291
MSK070C-0300	5,500			12.3	25	
MSK070C-0450	6,000			18.5	36.9	
MSK070D-0150	2,700	26.3	52.5	9.3	24.8	0.00375
MSK070D-0300	4,900			16.5	33	
MSK070D-0450	6,000			24.9	49.8	
MSK070E-0150	2,200	34.5	70	9.6	25.6	0.00458
MSK070E-0300	5,300		65	23.1	49.3	
MSK070E-0450	6,000		60	29	57.9	
MSK071C-0200	3,500	18	44	7.8	23.4	0.00173
MSK071C-0300	5,000			11	32.9	
MSK071C-0450	5,800			13.4	40.1	
MSK071D-0200	3,200	26.3	66	11	32.8	0.0023
MSK071D-0300	3,800			13.5	40.5	
MSK071D-0450	6,000			23.1	69.3	
MSK071E-0200	3,400	34.5	84	15.2	45.5	0.0029
MSK071E-0300	4,200			18.8	56.3	
MSK071E-0450	6,000			30	90.1	

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## Electrical data

Type	Maximum speed	Standstill torque	Maximum torque	Standstill current	Maximum current	Moment of inertia
		Fans		Fans		
	$n_{Max}$ [1/min]	$M_0$ [Nm]	$M_{Max}$ [Nm]	$I_0$ [A]	$I_{Max}$ [A]	J [kgm <sup>2</sup> ]
MSK075C-0200	4,100	18	44	9.5	28.4	0.00352
MSK075C-0300	5,000			12.6	37.8	
MSK075C-0450	6,000			18.9	56.7	
MSK075D-0200	3,800	25.5	64	12.5	37.4	0.0049
MSK075D-0300	4,800		66	17.6	52.7	
MSK075D-0450	6,000		64	24.8	74.3	
MSK075E-0200	3,850	31.5	88	15.3	45.9	0.00613
MSK075E-0300	5,200			21.3	63.9	
MSK075E-0450	6,000			27.9	83.7	
MSK076C-0300	4,700	18	43.5	10.8	32.4	0.0043
MSK076C-0450	5,000			18.3	54.9	
MSK100A-0200	4,400	22.5	54	13.8	41.4	0.011
MSK100A-0300	5,200			15.3	45.9	
MSK100A-0450	6,000			18	54	
MSK100B-0200	4,100	42	102	22.1	66.2	0.0192
MSK100B-0300	4,500			26.1	78.3	
MSK100B-0400				35.6	106.7	
MSK100B-0450				42.8	110.7	
MSK100C-0200		3,500	57	148	26.6	79.7
MSK100C-0300	4,500	32.4			97.2	
MSK100C-0450	4,000	52.9			159.3	
MSK100D-0200	2,000	72	187	19.5	58.5	0.035
MSK100D-0300	3,000			31.1	93.2	
MSK100D-0350				185	44.9	
MSK101C-0200	3,300	48	110	22.4	67.1	0.0065
MSK101C-0300	4,500			28.1	84.2	
MSK101C-0450	5,800			37.7	113	
MSK101D-0200	3,400	75	160	33.3	99.9	0.00932
MSK101D-0300	4,600			45.9	137.7	
MSK101D-0450	6,000			66	187.7	
MSK101E-0200	3,500	105.5	231	48.2	144.5	0.0138
MSK101E-0300	4,600	105		62.4	187.4	
MSK101E-0450	6,000			87.5	262.4	
MSK131B-0200	3,200	127.5	250	55.1	165	0.0232
MSK131D-0200	3,000	240	495	97.8	293.4	0.0382
MSK133B-0202	3,300	152	320	63	160	0.0476
MSK133C-0202		204	425	81	205	0.068
MSK133D-0202		263	520	100	265	0.078
MSK133E-0202		293	631	115	305	0.09

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All information is based on the basic version of the motor with encoder S1, without holding brake.  
Values at 750 V intermediate circuit voltage

**Dimensions**

Type	A	B	C	Ø D	Ø E	Ø F	Ø G	H	Weight
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[kg]
MSK060C-0300	116	395	50	24	95	130	9	156	11
MSK060C-0600									11
MSK061C-0200		432	40	19					10.9
MSK061C-0300									10.9
MSK061C-0600									10.9
MSK070C-0150	140	429	58	32	130	165	11	202	14.9
MSK070C-0300									14.9
MSK070C-0450									14.9
MSK070D-0150		459							17.2
MSK070D-0300									17.2
MSK070D-0450									17.2
MSK070E-0150		489							19.4
MSK070E-0300									19.4
MSK070E-0450									19.4
MSK071C-0200		463							17.1
MSK071C-0300									17.1
MSK071C-0450									17.1
MSK071D-0200		503							21.2
MSK071D-0300									21.2
MSK071D-0450									21.2
MSK071E-0200		543							26.7
MSK071E-0300									26.7
MSK071E-0450									26.7
MSK075C-0200		498							18
MSK075C-0300									18
MSK075C-0450									18
MSK075D-0200		538							22.2
MSK075D-0300									22.2
MSK075D-0450									22.2
MSK075E-0200		578							25.7
MSK075E-0300									25.7
MSK075E-0450									25.7
MSK076C-0300	462	50	24	110				180	17
MSK076C-0450									17

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Type	A [mm]	B [mm]	C [mm]	Ø D [mm]	Ø E [mm]	Ø F [mm]	Ø G [mm]	H [mm]	Weight [kg]	
MSK100A-0200	192	475	60	32	130	215	14	262	27.3	
MSK100A-0300									27.3	
MSK100A-0450									27.3	
MSK100B-0200		542							38.3	
MSK100B-0300										38.3
MSK100B-0400										38.3
MSK100B-0450		608							38.3	
MSK100C-0200										49.4
MSK100C-0300										49.4
MSK100C-0450		676							49.4	
MSK100D-0200			60.3							
MSK100D-0300			60.3							
MSK100D-0350		523	60.3							
MSK101C-0200				32.6						
MSK101C-0300				32.6						
MSK101C-0450				32.6						
MSK101D-0200				584	44.3					
MSK101D-0300						44.3				
MSK101D-0450						44.3				
MSK101E-0200				675	57.8					
MSK101E-0300	57.8									
MSK101E-0450	57.8									
MSK131B-0200	260	685	110	48	250	300	18	337	92	
MSK131D-0200		825						124		
MSK133B-0202		582						346	91.6	
MSK133C-0202		632						370	111	
MSK133D-0202		682							127	
MSK133E-0202		732							146	

All information is based on the basic version of the motor with encoder S1, without holding brake.

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