

# Offers top performance in the tightest of spaces.



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**Servo synchronous motor for precisely controlled motion.**

**Torque range:  
0.5 to 72 Nm (0.25 to 15.8 kW)**

**Ideally suited to: applications that require high dynamic performance, precision and compact dimensions.**

## Features

- Compact dimensions for installation in the tightest of spaces
- Low moments of inertia for high dynamic performance
- Plug-in connections for fast, easy installation and easy servicing
- Resolver as feedback. Alternatively: incremental encoder or absolute value encoder

# MCS synchronous servo motor technology – An overview

## Technical data

### Self-ventilated

Size		06		09		12		14		19	
Rated torque	M [Nm]	0.5	0.6	1.8	2.3	4.3	24.6	5.5	7.5	9.2	21
		0.9	1.2	2.4	3.1	7.5	17.0	10	14	16	29
		1.2	1.5	3.0	3.8	11		13.5	17.2	23	32
				3.6	4.5				21	30	
Rated current	I [A]	2.4	1.3	3.8	2.3	4.5	2.6	7.5	4.5	14	8.6
		2.5	1.5	4.5	2.5	5.7	3.8	11.9	6.6	18.5	12.3
		2.9	1.6	6.0	3.4	10.2	5.9	15	9.7	19	14.3
				6.9	4.2			15.6	10.8		
Rated speed	n [rpm]	6000	4050	6000	4050	4050	1950	3600	1500	3000	1425
		6000	4050	6000	3750	3525	1500	3225	1500	3000	1425
		6000	4050	6000	4050	4050	1950	3225	1500	3000	1425
				5100	4050			3225	1350		

### Forced-ventilated

Size		12		14		19	
Rated torque	M [Nm]	6	7	10.5	12	32.5	38
		10.5	12	20.5	23.5	50.5	62.5
		14	17	25.5	30.5	53	72
				33	42		
Rated current	I [A]	5,6	3	9.7	5.4	20.1	11.3
		7.5	4.3	15	8.3	31	18.3
		11,7	7.2	20.8	11.8	29.5	21.3
				21.9	13.4		
Rated speed	n [rpm]	3525	1650	3000	1350	2850	1200
		3375	1350	2775	1200	2850	1200
		3900	1650	3000	1350	2850	1200
				2625	1050		

### The modular system for your application

Thanks to their scalable modular design, the synchronous servo motors are ideal for use with any application:

- Brake attachments
  - with and without permanent magnet brake
- Feedback systems
  - Resolver
  - Incremental encoder
  - Absolute value encoder
- Self-ventilated or forced-ventilated
- Connection options
  - Plug connectors
  - Terminal box
- Temperature monitoring via KTY thermal sensor
- Comprehensive range of system cables
  - Motor connection
  - Feedback connection
  - Separate fan connection

### Other properties

<b>Degree of protection</b>	
EN 60529	IP54/65
<b>Approvals</b>	
	cURus, EAC and UkrSepro
<b>Temperature class</b>	
IEC / EN 60034-1 utilisation	F
IEC / EN 60034-1 insulation system	H
<b>Climatic conditions</b>	
Storage temperature	-30°C to +60°C
Operating temperature	-20°C to +40°C