

Offers top performance in the tightest of spaces.



Servo synchronous motor for precisely controlled motion. Torque range: 4.4 to 637 lbs.-in. (0.5 to 21.5 Hp).

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 [lbs.-in.]	4.4	5.3	15.9	20.4	38.1	218	48.7	66.4	81.4	186	
		8	10.6	21.2	27.4	66.4	150	88.5	124	142	257	
		10.6	13.3	26.6	33.6	97.4		119	152	204	283	
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	1350	
				5100	4050			3225	1350			

Forced-ventilated

Size		12		14		19	
Rated torque	M [lbs.-in.]	53.1	62	92.9	106	288	336
		92.9	106	181	208	447	549
		124	150	226	270	469	637
				292	372		
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

Degree of protection	
EN 60529	IP54/65
Approvals	
	cURus, EAC and UkrSepro
Temperature class	
IEC / EN 60034-1 utilization	F
IEC / EN 60034-1 insulation system	H
Climatic conditions	
Storage temperature	-30°C to +60°C (-22°F to +140°F)
Operating temperature	-20°C to +40°C (-4°F to +104°F)