

MCM/m850

Synchronous servo motors

Medium dynamics in a compact design.



MCM and m850 – the compact synchronous servo motors for positioning, robotics, packaging technology, and handling system applications. In conjunction with the servo inverters i700, 9400 and 8400 TopLine, it provides high-performance drive solutions in the torque range of 5.30 lbs-in. to 1770 lbs-in. (0.6 to 200 Nm).

Features

- Compact size
- Easy to control due to favorable ratio between inertia of load and motor
- Optimized for smooth operation and precision workflow
- Suitable for use in the food industry thanks to a smooth housing surface
- Simplicity due to the robust resolver as standard and multi-turn sin/cos encoder for high precision
- Easy installation and servicing thanks to SpeedTec connector with rotatable connector boxes

MCM and m850 synchronous servo motor technology – An overview

Technical data

Self-ventilated

Synchronous servo motor MCM

Size		06	09	12
Rated torque	lb-in. (Nm)	5.3 (0.6)	11.5 (1.3)	21.2 (2.4)
		10.6 (1.2)	21.2 (2.4)	42.5 (4.8) 70.8 (8.0)
Rated current	A	0.9	1.1	1.8
		1.1	1.9	3.5
				5.8
Rated speed	rpm	3000	3000	3000
		3000	3000	3000
				3000

Synchronous servo motor m850

Size		12	14	19
Rated torque	lb-in. (Nm)	42.5 (4.80)	75.2 (8.50)	141.6 (16.00)
		65.5 (7.40)	123.9 (14.00)	212.4 (24.00)
		79.7 (9.00)	154.0 (17.40)	309.8 (35.00)
Rated current	A	4.30	6.50	10.30
		6.40	10.50	15.00
		7.90	12.50	17.90
Rated speed	rpm	3960	3240	3000
		3960	3240	3000
		3960	3240	2520

The modular system for your application

The MCM and m850 synchronous servo motors with a scalable modular system extend Lenze servo motors for applications in the medium dynamic range.

Optimized with the following attachments:

- Brake attachments with spring-applied brakes
- m850 also with backlash-free permanent magnet brakes (optional)
- Feedback systems
 - Resolver
 - Absolute value encoder
- Self-cooled
- Plug-in connector
- Comprehensive range of system cables
 - Motor connection
 - Feedback connection

Other properties

Enclosure	
EN 60529	IP54 (IP65 housing)
Approvals	
	EAC, CSA, cURus and UkrSepro
Temperature class	
IEC / EN 60034-1 utilization	F
IEC / EN 60034-1 insulation system	F
Climatic conditions	
Storage temperature	-4 to 140 °F (-20 to 60 °C)
Operating temperature	5 to 104 °F (-15 to 40 °C)

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