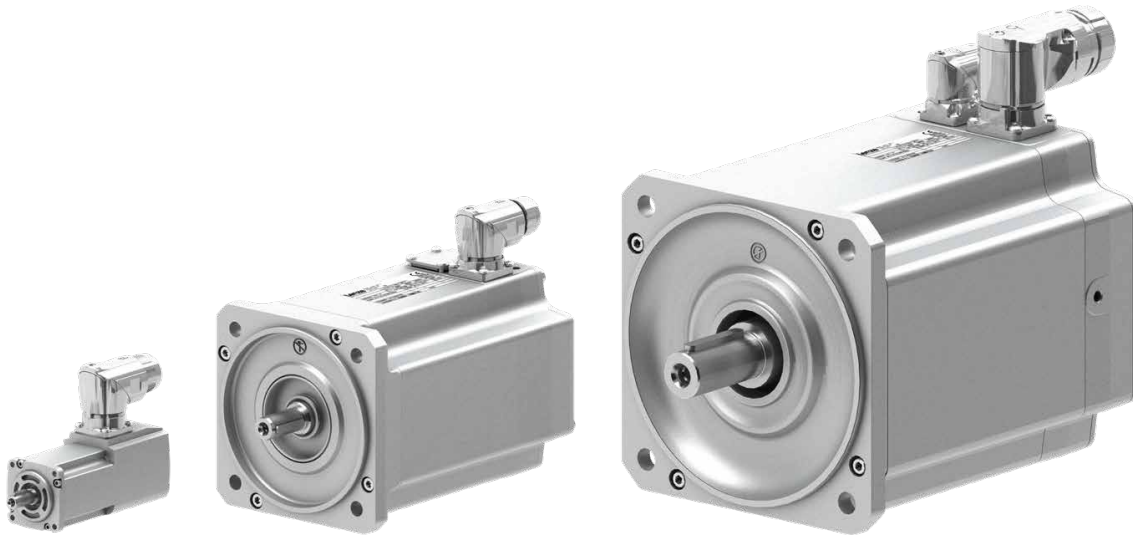


Robust control with high load inertia



The compact m850 servo synchronous motors are particularly suitable for applications in which high inertias are moved and which also require robust drive behavior, e.g. in the field of positioning, robotics and packaging technology as well as for handling systems. In combination with our servo inverters, powerful drive solutions are possible in the torque range up to 200 Nm.

Highlights

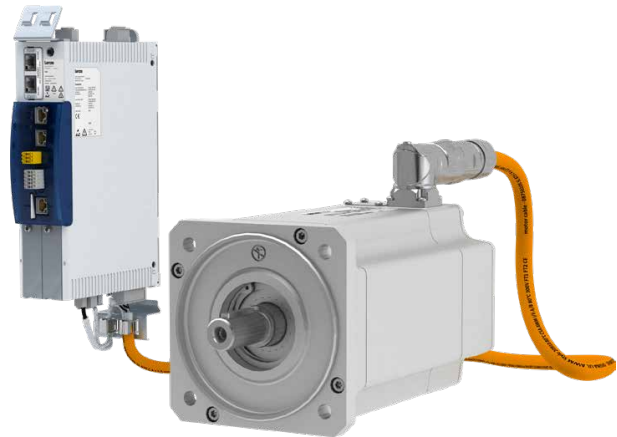
- Compact design
- Easy controllability by an advantageous ratio of the mass inertia of the load and that of the motor.
- Optimal smooth running characteristics for exact work results
- Digital absolute value encoder for One Cable Technology (OCT) or other feedback systems
- Optimized for use as geared motors with g500, g7x0, and g8x0 gearboxes
- Can be combined with the i750 cabinet and i950 cabinet servo inverters

The modular system for your application

The m850 synchronous servo motors are part of the scalable modular system of Lenze servo motors for applications in the medium dynamic range.

Optimized by the following attachments:

- Holding brakes
 - S40 ... S80 (permanent magnet brakes)
 - S120 ... S190 (spring-applied brakes)
- Feedback systems
 - Digital absolute value encoder for One Cable Technology and resolver or encoder
- Connection via connectors
- Extensive range of system cables for motor and feedback connection



Operation with One Cable Technology (OCT)

Technical data

	M_0	M_{rated}	M_{max}	n_{rated}	n_{max}	P_{rated}	I_{rated}	m
	[Nm]	[Nm]	[Nm]	[1/min]	[1/min]	[kW]	[A]	[kg]
m850-S40/S9000	0.18	0.12	0.72	9000	10000	0.11	0.7	0.5
m850-S40/L9000	0.35	0.21	1.4	9000	10000	0.2	1.2	0.7
m850-S60/S6000	0.7	0.50	2.6	6000	8060	0.325	1.3	1.45
m850-S60/L6000	1.5	0.90	5.8	6000	7350	0.55	0.7	2
m850-S80/S5500	2.8	1.7	10.5	5500	6760	1.0	1.2	3.2
m850-S80/L5500	3.5	2.1	14.0	5500	6680	1.2	2.3	3.85
m850-S120/S3960	6.5	4.8	13.4	3960	6000	2.0	2.8	6.5
m850-S120/M3960	11.0	7.4	29.0	3960	6000	3.1	6.4	9.25
m850-S120/L3960	15.0	9.0	44.0	3960	6000	3.7	7.8	12.0
m850-S140/S3240	11.0	8.5	26.0	3240	6000	2.9	6.3	9.5
m850-S140/M3240	21.0	14.0	53.5	3240	6000	4.8	10.0	14.5
m850-S140/L3240	28.0	17.4	80.0	3240	6000	5.9	12.2	19.5
m850-S190/S3000	27.0	16.0	71.0	3000	4500	5.0	10.3	19.8
m850-S190/M3000	46.0	24.0	120	3000	4500	7.5	15.4	28.5
m850-S190/L2520	67.0	35.0	200	2520	4500	9.2	17.7	41.0

Operation

m850 synchronous servo motor	
Smooth running, axial runout, concentricity	Normal class
Max. vibration velocity	1.6 mm/s
Vibration severity	A
Air humidity	Rel. Humidity 85%
Temperature class	F