



m850, MCA, MCM, MCS, MQA,
MDCIKS, SDSGA, SDSGS |
0.5 Nm ... 1100 Nm

M...

Servo-Asynchronmotoren;
Servo-Synchronmotoren

Servo asynchronous motors;
Servo synchronous motors

Servomoteurs asynchrones ;
servomoteurs synchrones

Servomotores asíncronos;
servomotores síncronos

Servomotori asincroni;
Servomotori sincroni

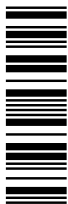
Montageanleitung DE

Mounting Instructions EN

Instructions de montage FR

Instrucciones para el montaje ES

Istruzioni per il montaggio IT



13534081

Lenze

General information



Please read these instructions before you start working!

These instructions only apply to the use of Lenze system cables and Lenze inverters.

If you are not using Lenze system cables or Lenze inverters, you require the overall documentation of the standard device and the motor.



Tip!

Information and tools concerning the Lenze products can be found in the download area at

www.lenze.com



Danger!

Disregarding the following basic safety measures may lead to severe personal injury and damage to material assets!

Observe warning signs!

Symbol	Description
	Life-threatening voltage: All power terminals, also if the connector is removed - residual voltage > 60 V!
	Risk of burns: During and after operation the surfaces have temperatures of up to 140°C! Provide for covers!

Safety instructions

General information

General information

- ▶ Lenze drive and automation components ...
 - ... must only be used for the intended purpose.
 - ... must never be operated if damaged.
 - ... must never be subjected to technical modifications.
 - ... must never be operated unless completely assembled.
 - ... must never be operated without the covers/guards.
 - ... can - depending on their degree of protection - have live, movable or rotating parts during or after operation. Surfaces can be hot.
- ▶ All specifications of the corresponding enclosed documentation must be observed. This is vital for safe and trouble-free operation and for achieving the specified product features.
- ▶ Only qualified skilled personnel are permitted to work with or on Lenze drive and automation components.
According to IEC 60364 or CENELEC HD 384, these are persons ...
 - ... who are familiar with the installation, assembly, commissioning and operation of the product,
 - ... possess the appropriate qualifications for their work,
 - ... and are acquainted with and can apply all the accident prevent regulations, directives and laws applicable at the place of use.
- ▶ Hazardous voltage at the power terminals, even if the plug is removed: residual voltage >60 V!
- ▶ Before carrying out work on the power connections, always disconnect the motor and controller, if any, from the mains and wait until the motor is at standstill (voltage at the contacts when the motor is rotating).
- ▶ Risk of burns!
 - Hot surfaces up to 140 °C during operation! Provide protection against contact.
- ▶ Risk of injury due to rotating shaft!
 - Before working on the motor ensure that the motor is at standstill.
- ▶ Design with plug:
 - Never disconnect plug when energised! Otherwise, the plug can be destroyed.
 - Disconnect power supply or inhibit controller prior to disconnecting the plug.

Safety instructions

Application as directed

Application as directed

All products which this documentation applies to are no household appliances but are exclusively intended as components for re-utilisation for commercial use or professional use in terms of IEC/EN 61000-3-2. They meet the requirements of the Low-Voltage Directive 2014/35/EU and the requirements of the harmonised standards of the IEC/EN 60034 series.

Only use the products under the operating conditions and power limits specified in this documentation.

Do not use the brakes installed as fail-safe brakes. It cannot be ruled out that the braking torque is reduced by disruptive factors which cannot be influenced.

► Drives

- ... must only be operated under the operating conditions and power limits specified in the operating instructions.
- ... comply with the protection requirements of the EU Low-Voltage Directive.

Any other use shall be deemed inappropriate!

Foreseeable misuse

► Do not use motors/geared motors

- ... in explosion-protected areas
- ... in aggressive environments (acids, gases, vapours, dusts, oils)
- ... under water
- ... under radiation

Mechanical installation

Installation information

Installation information

Before transport

- ▶ Make sure that all components are securely mounted;
- ▶ Make sure that all components with a loose fastening are secured or removed;
- ▶ Tighten all transport aids (eyebolts or support plates).

Use lifting devices for the transport! (📖 15)



Stop!

Danger by tipping or falling loads!

Observe carrying capacities!

- ▶ The payload of the hoists and load handling devices must at least correspond to the weight of the load, for weights see the 📄 delivery documents.
- ▶ Secure the load to prevent it from tipping over or falling down.
- ▶ Standing beneath suspended loads is prohibited!

Risk of breakage!

The motors are partly equipped with transport eyebolts that are **solely** intended for mounting/dismounting the motor to/from the gearbox and that **must not** be used for transport of the geared motor!



Stop!

The shaft must not be exposed to knocks or bumps! Motor can be destroyed!
Drive elements must be mounted on the motor shaft via the threading. An extracting device must be used when dismounting. Fasten coupling securely.

Securely fasten motor and ensure unimpeded ventilation.

Mechanical installation

Plug connection

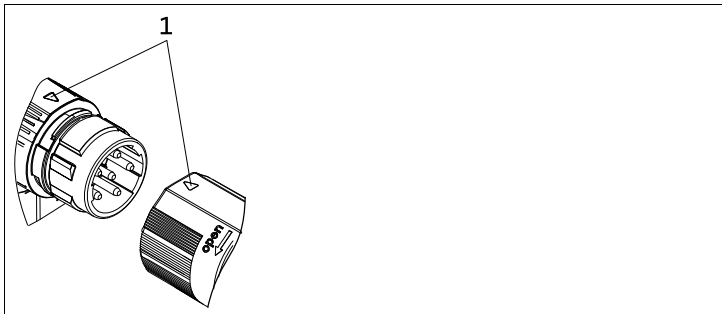
Plug connection

The connectors comply with vibration and shock class 3M6 as specified in IEC/EN60721-3-3. This applies to all power, encoder and fan connector boxes.



Stop!

- ▶ **Cable connectors with screwed connection:**
 - Always use with the O-rings supplied.
- ▶ **Cable connectors with a SpeedTec bayonet lock:**
 - Remove O-ring and dispose of it.



When connecting the cable connector to the motor connector, make sure that the aids to orientation (pos. 1) are facing each other. Only then trouble-free operation is ensured.

Electrical installation

Important notes

Important notes

- ▶ Carry out the electrical installation according to the relevant regulations. Additional notes can be found in the detailed operating instructions or the configuration manual.
- ▶ While making the connection, be sure to provide for a safe PE conductor connection.

Design including a connector

The connectors of the Lenze system cables are designed in a distinctive, application-specific fashion (power, fan, feedback, digital frequency).

For the connection of Lenze motors to Lenze controllers, we recommend using Lenze system cables.

Apply shields of the motor cable to the controller on a large surface.

Design with terminal box

- ▶ The electrical connection is described in the terminal box.
- ▶ Keep the terminal box free of foreign matter, dirt, and humidity.
- ▶ Observe specified clearances in air between bare, live parts, and to earth.
- ▶ The cable glands are designed for the cable cross-sections of the Lenze system cables.
- ▶ The system cables are designed for standard cable glands.
- ▶ To use other cable cross-sections, extended sizes, reduced sizes, or other types of cable glands must be used.
- ▶ Extensive shielding of motor cable on motor and controller.