**Warning!**
Installation and maintenance have to be performed according to the technical rules, codes and relevant standards, e.g., EN 60204 part 1, by skilled electricians only.

**Warning!**
该产品的安装和维护只能由专业技术人员根据技术规程、规定和相关的标准，比如EN60204的第一部分，进行操作。

**Assembly**

- **TS35 DIN rail**
The module is put on the DIN rail above and then snapped in below.

- **TS35 DIN rail 卡轨安装**
端子朝上，将模块放在DIN 卡轨上，然后将下端卡扣在卡轨上。

- **Note!**
All mounting screws are size ST4.2 with 4.5Nm maximum allowed torque.

- **Screw mounting**
The M10x is installed on the plate by mounting angles and screws ST4.2. Wall mounting on the mounting plate is permitted.

**Note!**
固定用的螺钉均为自攻螺钉(ST4.2)，允许的最大扭矩为4.5Nm。
en: Connection

Motor control and protection unit

Connection diagram:

- X1: Digital input
- X2: CT input
- X3: Thermistor input
- X4: Interface for MDx
- X5: Communication ports
- X6: Power supply

en: Control voltage: DC type

- 1.5 mm²: M2 / 0.22 ... 0.25 Nm
- 2.5 mm²: M3 / 0.5 ... 0.6 Nm

Note:
- This diagram is only for M102. Some connections are not available in M101. Refer to user manual 1TN929000020xx.
- 注意！接线图仅限M102。有些功能M101没有，参考使用手册1TN929000020xx。
- Each screw terminal has the following dimensions:
  - Terminal X1: DC type 1.5 mm²
  - AC type 2.5 mm²

Connect to M10x:
- 1.5 mm²: M2 / 0.22 ... 0.25 Nm
- 2.5 mm²: M3 / 0.5 ... 0.6 Nm

en: Control voltage: AC type

- 1.5 mm²: M2 / 0.22 ... 0.25 Nm
- 2.5 mm²: M3 / 0.5 ... 0.6 Nm

Note:
- Cables internal TA201/TA202 (if11 wrap on connector) is provided to connect terminal X3 to M10.
- MD is powered from the basic unit via the same IF11 interface.

en: Dimensions of MD21/MD31

- MD21/MD31 size:
  - MD21
  - MD31

en: Installation instructions

MD21/MD31 is placed on the panel. Push the snap fixing and fasten with 2 screws. The minimum torque is 0.1 Nm for IP54.

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en: Features:

- ABB
- M10x Ordering Guide
- Motor Control and Protection Unit

en: Notes:

- Only the MD31 can be used in the MD21.
- The power supply is 24VDC.
- The connections are shown in the diagram.

en: Slot size for MD21

- Slot size for MD31

en: Internal connection

- TA201/TA202 Cable
  - Internal connection