7.4 Installing ET 200SP R1

Removing the ET 200SP R1 system

To remove the ET 200SP R1 system, proceed as follows:

- 1. Switch off the supply voltage for the ET 200SP R1 system. Unplug the 24 V DC connectors from both interface modules.
- 2. Press the interface module release on the BaseUnit BU type MO. Detach the interface modules from the BaseUnit BU type MO.
- 3. Press the system rail release on the BaseUnit. Move the BaseUnit BU type MO parallel to the left until it detaches from the rest of the module group.

 Note: The system rail release is located above the BaseUnit BU type MO.
- 4. With the system rail release pressed on the BaseUnit, swivel the BaseUnit BU type MO off of the system rail.

NOTE

It is not necessary to remove the BusAdapter from the IM 155-6 PN R1 interface modules.

7.5 Installing the CM DP communication module

Introduction

You need the CM DP communication module to use the CPU with a DP master or DP slave.

Requirements

- The mounting rail is fitted.
- The CPU is installed.

Installing CM DP

To install the CM DP communication module, follow these steps:

- 1. Install the CM DP to the right of the CPU.
- 2. Swivel the CM DP towards the back until you hear the mounting rail release button click into place.
- 3. Slide the CM DP to the left until you hear it click into the CPU.

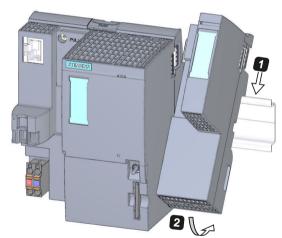


Figure 7-3 Installing CM DP

7.6 Mounting BaseUnits for I/O modules

Removing a CM DP

The CPU and the CM DP are wired and BaseUnits are located to its right.

To remove the CM DP communication module, follow these steps:

- 1. Switch off the supply voltage on the CPU.
- 2. Press the mounting rail release button on the first BaseUnit and, at the same time, move the CPU and the CM DP parallel to the left until they detach from the rest of the module group (clearance about 16 mm).
- 3. Press the mounting rail release button on the CM DP and move it to the right until it detaches from the CPU (clearance about 8 mm).
- 4. While pressing the mounting rail release button on the CM DP, swivel the CM DP off of the mounting rail.

NOTE

It is not necessary to remove the bus connector from the CM DP unless you have to replace the CM DP.

7.6 Mounting BaseUnits for I/O modules

Introduction

The BaseUnits are used for electromechanical connection between the individual ET 200SP components. They also provide terminals for connecting external sensors, actuators and other devices.

Requirements

The mounting rail is fitted.

Required tools

3 to 3.5 mm screwdriver (only for dismantling the terminal box and the encoding element)

Installing a BaseUnit

Watch "Install configuration" video sequence (https://support.automation.siemens.com/WW/view/en/95886218)

To install a BaseUnit, follow these steps:

- 1. Hook the BaseUnit onto the mounting rail.
- 2. Swivel the BaseUnit backwards until you hear it click into place on the mounting rail.
- 3. Slide the BaseUnit parallel to the left until you hear it latch onto the preceding CPU/interface module or BaseUnit.

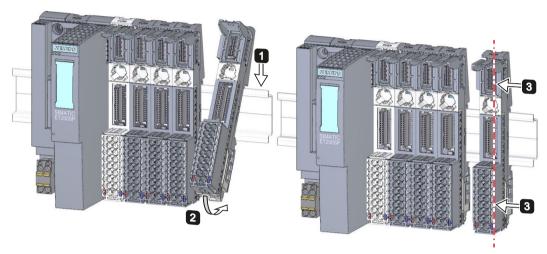


Figure 7-4 Installing a BaseUnit

Removing a BaseUnit

▲ V

WARNING

Hazardous Voltage

Hazardous electrical voltage can cause electric shock, burns and property damage.

Disconnect your system and devices from the power supply before starting any assembly tasks.

To remove a BaseUnit, follow these steps:

The BaseUnit is wired and there are other BaseUnits to its right and left.

To remove a specific BaseUnit, move the adjacent modules. As soon as you have created a clearance of about 8 mm from the adjacent BaseUnits, you can remove the BaseUnit.

NOTE

You can replace the terminal box without removing the BaseUnit. Refer to section Replacing the terminal box on the BaseUnit (Page 290).

To remove a BaseUnit, follow these steps:

- 1. Switch off all supply voltages on the ET 200SP distributed I/O system.
- 2. Loosen the wiring on the BaseUnit (with a 3 to 3.5 mm screwdriver).

7.7 Mounting and dismantling BaseUnits for motor starters

3. Removing (from the right):

Press the mounting rail release on the relevant BaseUnit. Move the BaseUnit parallel to the right and swivel the BaseUnit off of the mounting rail while pressing the mounting rail release.

Removing (from the left):

Press the mounting rail release on the relevant BaseUnit and the BaseUnit located to its right. Move the BaseUnit parallel to the left and swivel the BaseUnit off of the mounting rail while pressing the mounting rail release.

Note: The mounting rail release is located above the BaseUnit

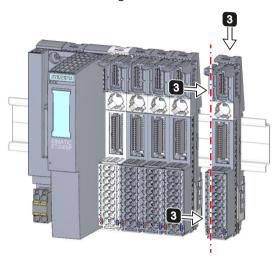


Figure 7-5 Removing the BaseUnit (removing from the right)

7.7 Mounting and dismantling BaseUnits for motor starters

Requirements

- The mounting rail is fitted.
- When using a 15 mm mounting rail, you must install the additional mechanical mounting (3RK1908-1EA00-1BP0).

NOTE

Mechanical bracket for BaseUnit

You will find out how to mount the mechanical bracket for the BaseUnit in chapter "Mounting the mechanical bracket for the BaseUnit (Page 129)".



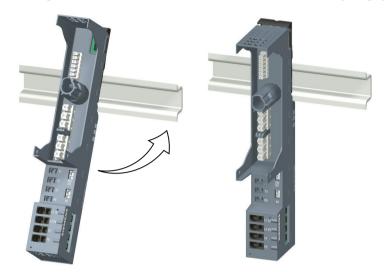
Protection against electrostatic charge

When handling and installing the SIMATIC ET 200SP motor starter, ensure protection against electrostatic charging of the components. Changes to the system configuration and wiring are only permissible after disconnection from the power supply.

Mounting a BaseUnit

Proceed as follows to mount a BaseUnit for motor starters:

- 1. Hook the BaseUnit into the DIN rail from above.
- 2. Swing the BaseUnit to the rear until the BaseUnit audibly engages.



3. Slide the individual BaseUnits to the left to the previous BaseUnit until they audibly engage.

Assemble the BaseUnits only on the DIN rail.

NOTE

The BaseUnits for motor starters can be plugged together with the BaseUnits for I/O modules.

Disassembling the BaseUnit



▲ WARNING

Hazardous Voltage

Hazardous electrical voltage can cause electric shock, burns and property damage.

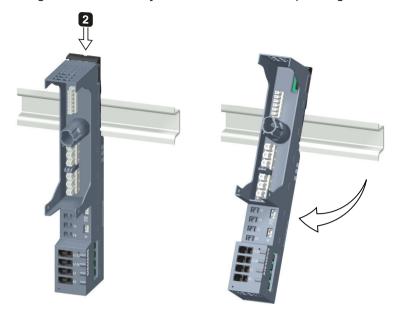
Disconnect your system and devices from the power supply before starting any assembly tasks.

To disassemble the BaseUnit, proceed as follows:

- 1. Disconnect the main power supply and the control current supply of the SIMATIC ET 200SP motor starter.
- 2. Actuate the DIN rail release on the BaseUnit of the motor starter.
- 3. Move the BaseUnit to the left. As soon as there is a clearance of approximately 8 mm to the neighboring BaseUnits, you can disassemble the BaseUnit of the motor starter.

7.8 Installing potential distributor modules





7.8 Installing potential distributor modules

Introduction

You use the potential distributor module to distribute a variety of potentials (P1, P2).

Requirements

The mounting rail is installed.

Installing and uninstalling PotDis-BaseUnit

You install/uninstall PotDis-BaseUnits as you would the BaseUnits for I/O modules. You can find additional information in section Mounting BaseUnits for I/O modules (Page 122).

Installing and uninstalling PotDis-TerminalBlock

Installing

Plug the PotDis-TerminalBlock in die PotDis-BaseUnit. Proceed exactly as described in Section Inserting I/O modules / motor starters and BU covers (Page 163).

Uninstalling

To remove a PotDis-TerminalBlock, follow these steps:

- 1. Switch off all supply voltages on the ET 200SP distributed I/O system.
- 2. Simultaneously press the top and bottom release buttons of the PotDis-TerminalBlock.
- 3. Remove the PotDis-TerminalBlock from the front of the PotDis-BaseUnit.

7.9 Installing the server module

Introduction

The server module on the far right of the assembly/line completes the ET 200SP distributed I/O system.

Requirement

The last BaseUnit is mounted.

Installing the server module

Watch "Install configuration" video sequence (https://support.automation.siemens.com/WW/view/en/95886218)

Proceed as follows to install a server module:

- 1. Hook the server module onto the mounting rail to the right of the last BaseUnit.
- 2. Swivel the server module backwards on the mounting rail.
- 3. Move the server module parallel to the left until you hear it latch onto the last BaseUnit that precedes it.

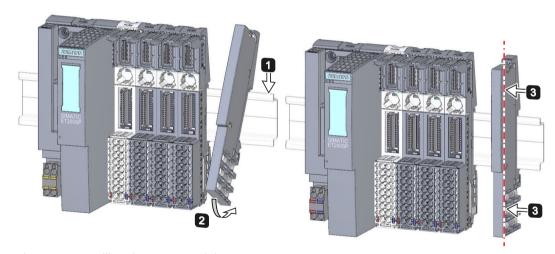


Figure 7-6 Installing the server module

Removing the server module

Proceed as follows to remove a server module:

- 1. Press the mounting rail release button on the server module.
- 2. Move the server module parallel to the right.
- 3. While pressing the mounting rail release button, swivel the server module off the mounting rail.

7.10 Mounting further accessories for motor starters

7.10 Mounting further accessories for motor starters

7.10.1 Mounting the cover for the 500 V AC infeed bus

Introduction

The 500 V infeed bus connects all SIMATIC ET 200SP motor starters. For finger-safe termination of the infeed bus, you must use the cover.



Hazardous Voltage

Can Cause Death, Serious Injury, or Property Damage.

Hazardous electrical voltage causes electric shock, burns and property damage.

Disconnect your system and devices from the power supply before starting any assembly tasks.



Infeed bus - electric shock

You must provide the infeed bus with a touch protection cover on the right (Article No.: 3RK1308-1DA00-2BP0).

Failure to do so will result in the danger of electric shock.

MARNING

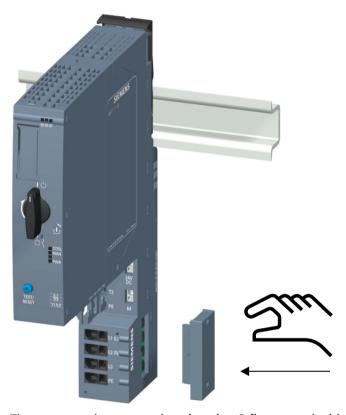
Personal injury may occur

On the last plugged-in BaseUnit of a motor starter, place a cover on the opening of the contacts of the infeed bus.

Procedure

Proceed as follows to mount the infeed bus cover on a SIMATIC ET 200SP motor starter:

1. Press the cover onto the opening of the BaseUnit on the right until it audibly engages.

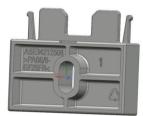


The cover can be removed again using 2 fingers and without tools.

7.10.2 Mounting the mechanical bracket for the BaseUnit

Introduction

To achieve higher stability, you can use a mechanical bracket on 7.5 mm and 15 mm mounting rails.



You must use the mechanical bracket in the following situations:

- When using a 15 mm mounting rail
- With a vertical mounting position
- For applications according to shipbuilding standards in all mounting positions with
 7.5 mm and 15 mm mounting rails