

MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

Reference package for procurement and maintenance review

SIEMENS

6ES7193-4FL00-0AA0

SUPPLEMENTARY POTENTIAL TERMINAL BLOCK

Used with the applicable SIMATIC ET 200S TE-U120C4x10 configuration.

REFERENCE PACKAGE

OFFICIAL DOCUMENT

Selected official manufacturer pages follow this cover.

Source: Siemens SIMATIC ET 200S TE-U120C4x10 applicable manufacturer data

1.14 TE-U120S4x10 and TE-U120C4x10 supplementary terminal (6ES7193-4FLx0-0AA0)

Properties

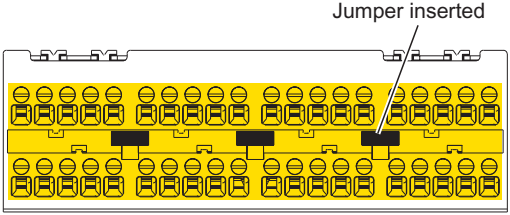
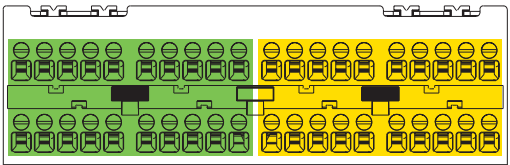
- 40-pin extension for
 - the TM-C terminal module for COMPACT modules
 - any terminal modules with a width of 120 mm
- available in two variants: screw terminal, spring terminal
- Any additionally required potentials can be applied to the supplementary terminal, e.g. with 3 or 4-wire connection of sensors or actuators.
- The four potential groups on the supplementary terminal can be adapted (extended) for the local requirements with pluggable bridges.

Extending the potential groups

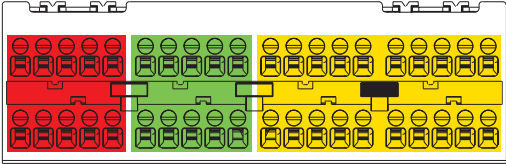
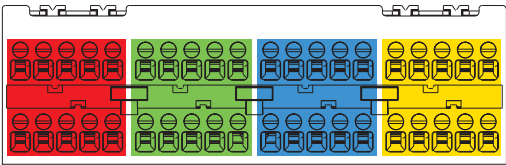
The supplementary terminal is fitted with three pluggable bridges on delivery.

If it is necessary to apply more than one potential to the supplementary terminal, the potential groups on the supplementary terminal can be extended. This is done with pluggable bridges that connect two or more groups. After removal of corresponding bridges terminals are available for additional potentials.

Table 1-1 Potential groups on the supplementary terminal

Quantity		Position on the supplementary terminal
inserted bridges	Potential groups	
3 ¹	1	 Jumper inserted
2	2	

1.14 TE-U120S4x10 and TE-U120C4x10 supplementary terminal (6ES7193-4FLx0-0AA0)

Quantity		Position on the supplementary terminal
inserted bridges	Potential groups	
1	3	
None	4	
¹ Delivery status		

TE-U120x4x10 Technical Specifications (6ES7193-4FLx0-0AA0)

Dimensions and Weight	
Dimensions W × H × D (mm)	
• Screw-type/spring terminals	120 × 38 × 30
• with mounting bracket	120 × 79 × 30
Weight	Approx. 160 g
Terminal-specific data	
Connectable potentials	Up to 230 VAC
Current-carrying capacity (from supplementary terminal and pluggable bridges)	10 A

3.9 Wiring the ET 200S

3.9.1 Wiring rules for the ET 200S

Wiring rules for:		Interface voltage (supply voltage)	Terminal modules (spring and screw- type terminals)	Terminal modules (Fast Connect)
Connectable wire cross-sections for rigid lines		No	0.14 to 2.5 mm ²	0.5 to 1.5 mm ²
Connectable wire cross-sections for flexible lines	Without wire end ferrule	0.25 to 2.5 mm ²	0.14 to 2.5 mm ²	0.5 to 1.5 mm ²
	With wire end ferrule	0.25 to 1.5 mm ²	0.14 to 1.5 mm ²	---
Number of wires per connection		1 or a combination of 2 wires up to 1.5 mm ² (sum) in a common wire end ferrule		1
Maximum external diameter of the wire's insulation		Ø 3.8 mm	Ø 3.1 mm at 1.5 mm ² Ø 3.8 mm at 2.5 mm ²	Ø 3.2 mm at 1.5 mm ²
Stripping length of the wires		11 mm		---
Wire end ferrules to DIN 46228	Without insulating collar	Form A, 8 to 12 mm long	Form A, up to 12 mm long	---
	With insulating collar 0.25 to 1.5 mm ²	Form B, up to 12 mm long		---

3.9.2 Wiring a terminal module with screw-type terminals

Features

In terminal modules with screw-type terminals, the individual wires are screwed into the terminal.

No wire end ferrules are required.

Prerequisites

Adhere to the wiring rules.

Tool required

3 mm screwdriver

Wiring a terminal module with a screw-type terminal

To wire a terminal module with a screw-type terminal, follow these steps:

1. Strip 11 mm (0.43 in) of insulation from the wires.
2. Insert the individual wires in the terminal.
3. Screw the ends of the individual wires onto the terminal module (torque: 0.4...0.7 Nm).

3.9.3 Wiring a terminal module with spring terminals

Features

In terminal modules with spring terminals, the individual wires are held securely when you simply insert them in the terminal.

Prerequisites

Adhere to the wiring rules.

Tool required

3 mm screwdriver

Wiring a terminal module with spring terminals

To wire a terminal module with a spring terminals, follow these steps:

1. Strip 11 mm (0.43 in) of insulation from the wires.
2. Insert the screwdriver in the upper (round) opening of the terminal.
3. Insert the wire until it stops in the lower (square) opening of the terminal.
4. Release the terminal by pushing the screwdriver into the opening.
5. Push the wire into the released spring terminal, and pull the screwdriver out.

