MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

Reference package for procurement and maintenance review

SIEMENS

6ES7120-0BH50-0AA0

SPRING-TERMINAL WIRING BASE

Used with the applicable SIMATIC ET 200L-SC TB 16IM-SC configuration.

REFERENCE PACKAGE

OFFICIAL DOCUMENT

Selected official manufacturer pages follow this cover.

Source: Siemens ET 200L/ET 200L-SC IM-SC Manual EWA 4NEB 780 6009-02c; TB 16IM-SC specification, wiring and order table.

7.5 Terminal Block TB 16IM-SC

Order Numbers

The TB 16IM-SC terminal block is available with two types of connection.

- Connection by means of a screw-type terminal (Order Number 6ES7 120-0AH50-0AA0)
- Connection by means of a spring terminal (Order Number 6ES7 120-0BH50-0AA0)

Characteristics

The TB 16IM-SC terminal block has the following characteristics:

- It can be wired before you plug in the electronic modules.
- Depending on the design, the wiring can be connected either via screw-type terminals or via spring terminals.
- The TB 16IM-SC enables a 2-wire connection and can be expanded to a 3- and 4-wire connection with the supplementary terminals of the TB 16SC.
- You can slide a labeling strip into the TB 16IM-SC terminal block for noting the assignments between slot and module.
- the TB 16IM-SC can be expanded with the TB 16SC to connect another 8 SC electronics modules.
- two load voltage supplies (load voltage group 1L+: A to D, load voltage group 2L+, 3L+: E to F)

Plug-In Electronic Modules

You can connect the following electronic modules to the TB 16IM-SC terminal block:

Chapter	Plug-In Electronic Modules	Order Number
Chapter 10: Digital SC Electronic Modules Technical Data	2DIDC24V	6ES7 121-1BB00-0AA0
	2DODC24V0.5A	6ES7 122-1BB00-0AA0
	2DODC24V2A	6ES7 122-1BB10-0AA0
	Counter module 1COUNT40kHz	6ES7 127-1BE00-0AB0
	1DIAC120/230V	6ES7 121-1FA00-0AA0
	1DOAC120/230V	6ES7 122-1FA00-0AA0
	1DORel.AC230V	6ES7 122-1HA01-0AA0
Chapter 12: Analog SC Electronic Modules Technical Data	2 AI U	6ES7 123-1FB00-0AB0
	2 AI HS U	6ES7 123-1FB50-0AB0
	2 AI I	6ES7 123-1GB00-0AB0 6ES7 123-1GB10-0AB0
	2 AI HS I	6ES7 123-1GB50-0AB0, 6ES7 123-1GB60-0AB0
	2 AI TC	6ES7 123-1JB00-0AB0
	1 AI RTD	6ES7 123-1JA00-0AB0
	1 AO U	6ES7 124-1FA00-0AB0
	1 AO I	6ES7 124-1GA00-0AB0

Dimension Drawing

Figure 7-6 shows the front elevation of the TB 16IM-SC terminal block.

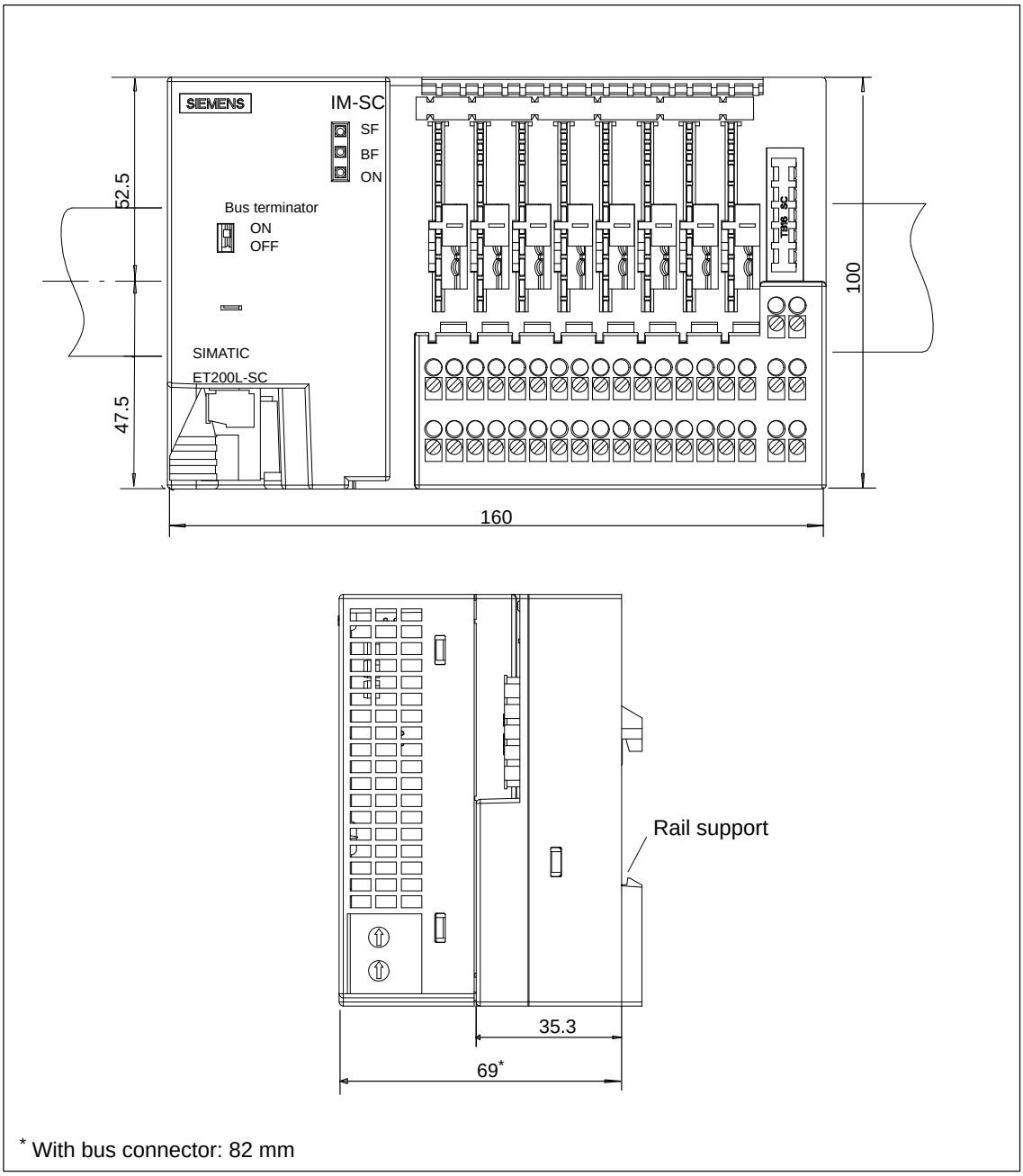


Figure 7-6 The TB 16IM-SC Terminal Block with the IM-SC Interface Module Mounted, Dimension Drawing

Caution

The spring terminal will be destroyed if you insert the screwdriver into the opening for the wires.

Only press the screwdriver into the rectangular openings of the terminal block.

Block Diagram

The figure below shows you the block diagram of the TB 16IM-SC terminal block.

The connections 3L+ and 3M are used for looping through the load voltage supply 2L+ and 2M.

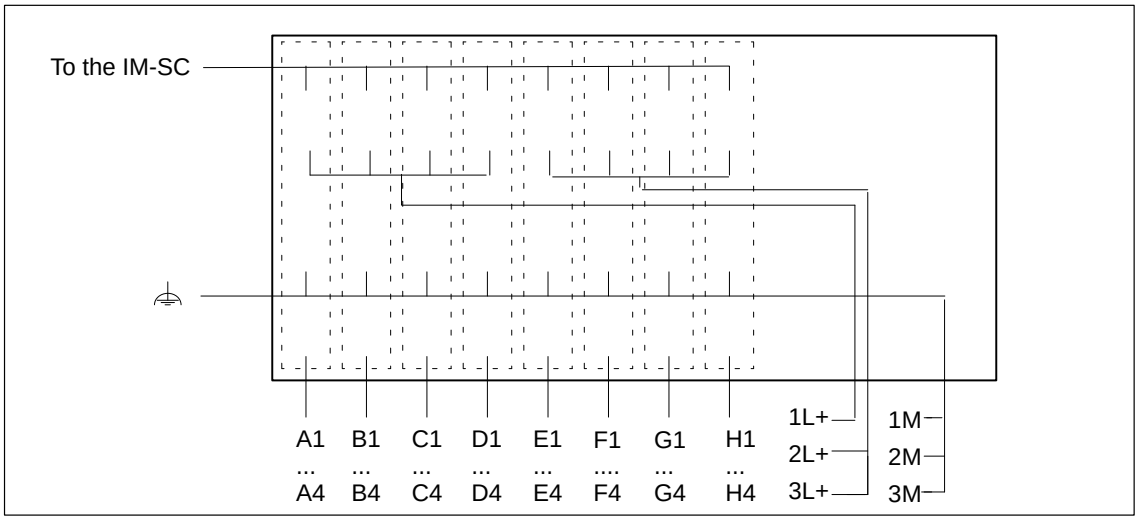


Figure 7-7 Block Diagram of the TB 16IM-SC Terminal Block

Warning

There is a risk of injury and damage to property.

Connecting different phases of a three-phase system to a terminal block can lead to injury and damage to property.

Connect only one phase to each terminal block.

Technical Data

Dimensions and Weight	
Dimensions W × H × D (mm)	160 × 100 × 73.6
Weight	260 g
Module-Specific Data	
Number of slots	8
Current-carrying capacity via 1L+ and 2L+	max. 2 × 8A
Number of times an electronic module can be plugged into a slot of the TB 16IM-SC	max. 8
Isolation tested (from slot to slot)	DC 4000 V

A.1 Order Numbers for ET 200L Components

Introduction

You will find here the order numbers for ET 200L components.

Terminal Blocks

Table A-1 Terminal Block Order Numbers

Description	Order Number
Terminal block TB 16L, screw-type terminal	6ES7 193-1CH00-0XA0
Terminal block TB 16L, spring terminal	6ES7 193-1CH10-0XA0
Terminal block TB 32L, screw-type terminal	6ES7 193-1CL00-0XA0
Terminal block TB 32L, spring terminal	6ES7 193-1CL10-0XA0
Terminal block TB 16L AC, screw-type terminal	6ES7 193-1CH20-0XA0
Terminal block TB 16SC, spring terminal	6ES7 193-1CH10-0XA0
Terminal block TB 16SC, spring terminal	6ES7 193-1CL10-0XA0
Terminal block TB 16IM-SC, screw-type terminal	6ES7 120-0AH50-0AA0
Terminal block TB 16IM-SC, spring terminal	6ES7 120-0BH50-0AA0

Electronics Blocks

Table A-2 Electronics Block Order Numbers

Description	Order Number
Interface module IM-SC	6ES7 138-1XL00-0XB0
L 16 DI DC 24 V	6ES7 131-1BH00-0XB0
L-SC 16 DI DC 24 V	6ES7 131-1BH11-0XB0
L 16 DI AC 120 V	6ES7 131-1EH00-0XB0
L 32 DI DC 24 V	6ES7 131-1BL00-0XB0
L-SC 32 DI DC 24 V	6ES7 131-1BL11-0XB0
L 16 DO DC 24 V/0.5 A	6ES7 132-1BH00-0XB0
L-SC 16 DO DC 24 V/0.5 A	6ES7 132-1BH11-0XB0
L DO AC 120 V/1.0 A	6ES7 132-1EH00-0XB0
L 16 DO DC 24 V/AC 120V/2.0 A	6ES7 132-1JH00-0XB0
L 32 DO DC 24 V/0.5 A	6ES7 132-1BL00-0XB0
L 16 DI/16 DO DC 24 V/0.5 A	6ES7 133-1BL00-0XB0
L-SC 16 DI/16 DO DC 24 V/0.5 A	6ES7 133-1BL10-0XB0
L-8 DI/8 DO AC 120 V/1.0 A	6ES7 133-1EH00-0XB0
L 8DI AC 120V/8 DO DC 24V/AC 120V/2.0 A	6ES7 133-1JH00-0XB0