7.2 BU type A0, light-colored version, with AUX terminals

Short designation

Short designation: BU15-P16+A10+2D

7.2.1 Product overview

Delivery options (packing unit PU)

6ES7193-6BP20-0DA0 (PU: 1 unit)
6ES7193-6BP20-2DA0 (PU: 10 units)

View

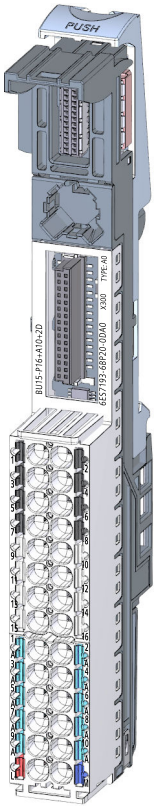


Figure 7-1 BU type A0, light-colored version, with AUX terminals

Properties

- BaseUnit suitable for all I/O modules of the BaseUnit type "A0/A1". Can be recognized by the laser inscription on the front and/or the last two digits of the article number.
  - Supply voltage (L+ terminal, ground): Max. 24 V DC/10 A
  - Current-carrying capacity per process terminal (terminal 1 to 16): Max. 2 A
- The BaseUnit opens up a new potential group. The self-assembling voltage buses P1 and P2, and the AUX busbar are interrupted to the left-hand neighboring module (BaseUnit, interface module).
- Access to the AUX busbar via terminals
- 16 terminals to the process (assignment through the I/O module)
- 10 AUX terminals for connecting a protective conductor or potential. The AUX busbar is not connected to the I/O module. Max. 24 V DC/10 A
- Connection system in the form of push-in terminals Connection cross-sections are available in the ET 200SP System Manual (https://support.industry.siemens.com/cs/ww/en/view/58649293).

Maximum configuration per potential group

The number of I/O modules that can be used per potential group depends on the following factors:

1. Total power requirement of all I/O modules operated on this potential group
2. Total power requirement of all loads connected externally to this potential group

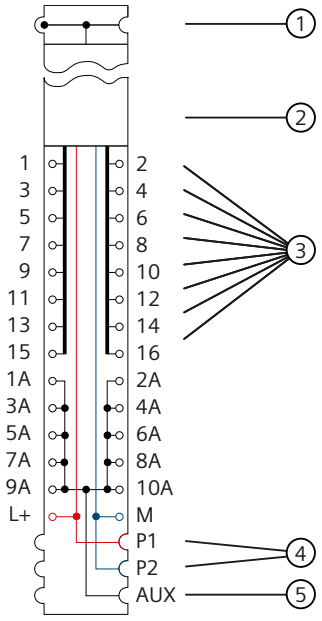
The total current calculated according to item 1. and item 2. must not exceed 10 A.

7.2.2 Connecting

Pin assignment

Pin assignment for BaseUnit BU type A0, light-colored version with AUX terminals	
Terminal	**Explanations**
1 to 16	Assignment is determined by the I/O module. You can find additional information in the I/O Module (http://support.automation.siemens.com/WW/view/en/55679691/133300) manual.
1 A, 2 A, 3 A, 4 A, 5 A, 6 A, 7 A, 8 A, 9 A, 10 A	Protective conductor connection or voltage bus freely usable up to 24 V DC with max. 10 A
L+/M	L+: Rated supply voltage 24 V DC with max. 10 A M: Ground

Block diagram



① Backplane bus

② I/O module

③ Terminals with connection to the I/O module

④ System-integrated, self-assembling voltage buses P1, P2 with connection to the infeed terminals, interrupted to the adjacent module on the left, form a new potential group

⑤ System-integrated, self-assembling AUX voltage bus with connection to the 10 AUX terminals, interrupted to the adjacent module on the left forms a new potential group

Figure 7-2 Block diagram of the BU type A0, light-colored version with AUX terminals

7.2.3 Technical specifications

Technical specifications of the BU type A0, light-colored version with AUX terminals

The following table lists the technical specifications as of the issue date. You can find a data sheet including daily updated technical specifications on the Internet (https://support.industry.siemens.com/cs/de/en/pv/6ES7193-6BP20-2DA0/td?dl=de).

Article number	6ES7193-6BP20-2DA0
General information	
Product type designation	BU type A0
HW functional status	From FS07
Supply voltage	
Rated value (DC)	24 V
external protection for power supply lines	Yes; 24 V DC/10 A miniature circuit breaker with type B or C tripping characteristic

Article number	6ES7193-6BP20-2DA0
Current carrying capacity	
For P1 and P2 bus, max.	10 A
For AUX bus, max.	10 A
For process terminals, max.	2 A
Hardware configuration	
Formation of potential groups	
• New potential group	Yes
• Potential group continued from the left	No
Potential separation	
between the potential groups	Yes
Isolation	
Isolation tested with	707 V DC (type test)
Ambient conditions	
Ambient temperature during operation	
• horizontal installation, min.	-30 °C
• horizontal installation, max.	60 °C
• vertical installation, min.	-30 °C
• vertical installation, max.	50 °C
Altitude during operation relating to sea level	
• Installation altitude above sea level, max.	5 000 m; Restrictions for installation altitudes > 2 000 m, see manual
Accessories	
Color coding labels	
• for process terminals	CC00 to CC09
• for AUX terminals	CC71 to CC73
• for add-on terminals	does not exist
Connection method	
Terminals	
• Terminal type	Push-in terminal
• Conductor cross-section, min.	0.14 mm²; AWG 26
• Conductor cross-section, max.	2.5 mm²; AWG 14
• Number of process terminals to I/O module	16
• Number of terminals to AUX bus	10
• Number of add-on terminals	0
• Number of terminals with connection to P1 and P2 bus	2

Article number	6ES7193-6BP20-2DA0
Dimensions	
Width	15 mm
Height	141 mm
Depth	35 mm
Weights	
Weight, approx.	50 g

7.3 BU type A0, light-colored version, without AUX terminals

Short designation

Short designation: BU15-P16+A0+2D

7.3.1 Product overview

Delivery options (packing unit PU)

6ES7193-6BP00-0DA0 (PU: 1 unit)
6ES7193-6BP00-2DA0 (PU: 10 units)

View

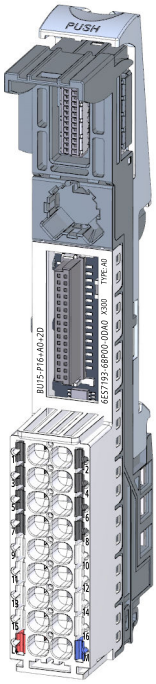


Figure 7-3 BU type A0, light-colored version, without AUX terminals

Dimension drawings of I/O modules

C

Dimension drawing BU15-P16+A10+2D, BU15-P16+A10+2B, BU15-P16+A0+12D/T, BU15-P16+A0+12B/T

The figure below shows the dimension drawing of the BU15-P16+A10+2D with plugged-in I/O module as an example.

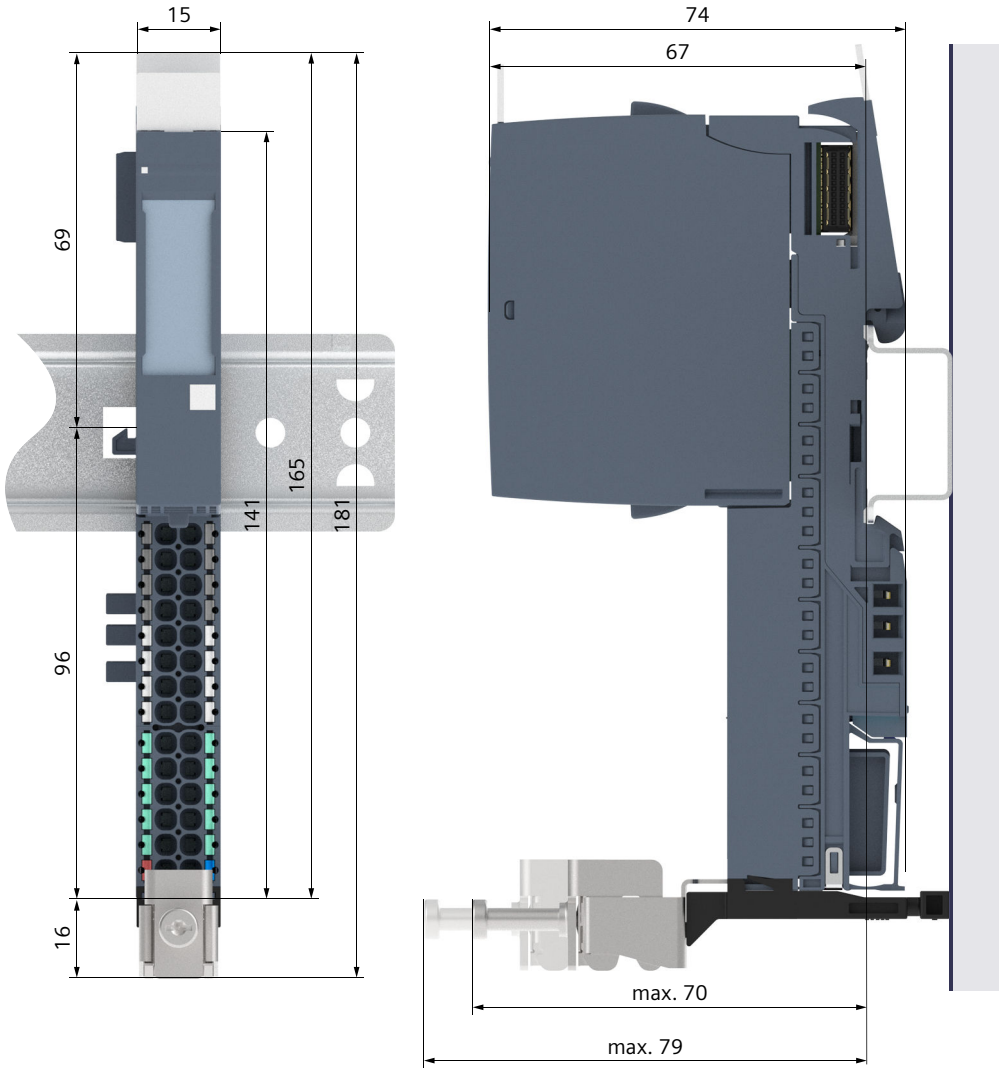


Figure C-1 Dimension drawing BU15-P16+A10+2D