

General Specifications

AEP7D Primary Power Supply Bus Unit



GS 33J60K40-01EN

[Release 6]

■ GENERAL

This hardware GS covers the AEP7D Primary Power Supply Bus Unit which distributes power to equipment mounted in the same cabinet.

AFV30□, AFV40□, ACB51, ANB10□, ANB11□, and ANT10U can also be constructed by combining the Base Plate and each module. Refer to "FIO System Overview" (GS 33J60A10-01EN).

■ STANDARD SPECIFICATIONS

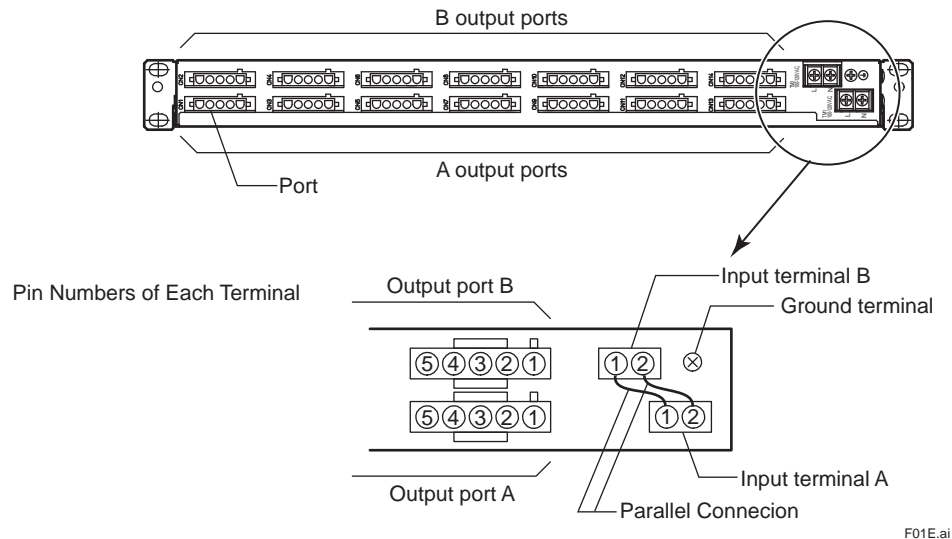
For common installation environmental conditions and standards conformed with, see "System Overview" (GS 33J01A10-01EN).

● Electrical Specifications

Item	Description		
Model	AEP7D-1□	AEP7D-2□	AEP7D-4□
Input power supply voltage	100 to 120 V AC	220 to 240 V AC	24 V DC
Withstanding voltage	1500 V AC	1500 V AC	500 V AC
Max. Input current / Primary Power Supply Bus Unit	20 A	20 A	30 A
Max. Input current / port	6 A	6 A	10 A
Weight	Approx. 1.8 kg	Approx. 1.8 kg	Approx. 1.8 kg

■ NAME OF EACH PART

The AEP7D is designed to operate from two independent power sources “A” and “B” and provide seven sets of outputs corresponding to each input. (In the following diagram, the seven “A” output ports correspond to the “A” input terminal, and the seven “B” output ports correspond to the “B” input terminal, respectively.)
If input terminals A and B are connected in parallel, as shown in the figure below, a single input provides 14 outputs.



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Correspondence Between Pin Numbers and Signals

Terminal	Pin No.	Model		
		AEP7D-1□	AEP7D-2□	AEP7D-4□
Input Terminals A and B	1	L	L	+ (24P)
	2	N	N	– (24N)
Ground Terminal	—	Protective ground	Protective ground	Functional ground
Output Ports A and B (14-ports) MATE-N-LOK Connector (5 pins)	1	Protective ground	Protective ground	Functional ground
	2	N	—	– (24N)
	3	—	N	+ (24P)
	4	L	L	—
	5	—	—	—

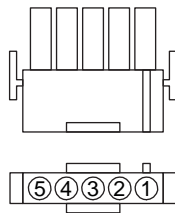
● Cables

The three types of cables shown below are provided for connecting the Primary Power Supply Bus Unit and equipment used.

Power Supply Cables for Primary Power Supply Bus Unit

Part number	Description	Correspondence between terminal pin numbers and cables		
		Black	White	Green
S9756UV	For AEP7D-1□, 100 V AC, 2 m, one end unterminated	4	2	1
S9757UV	For AEP7D-2□, 220 V AC, 2 m, one end unterminated	4	3	1
S9758UV	For AEP7D-4□, 24 V DC, 2 m, one end unterminated	3	2	1

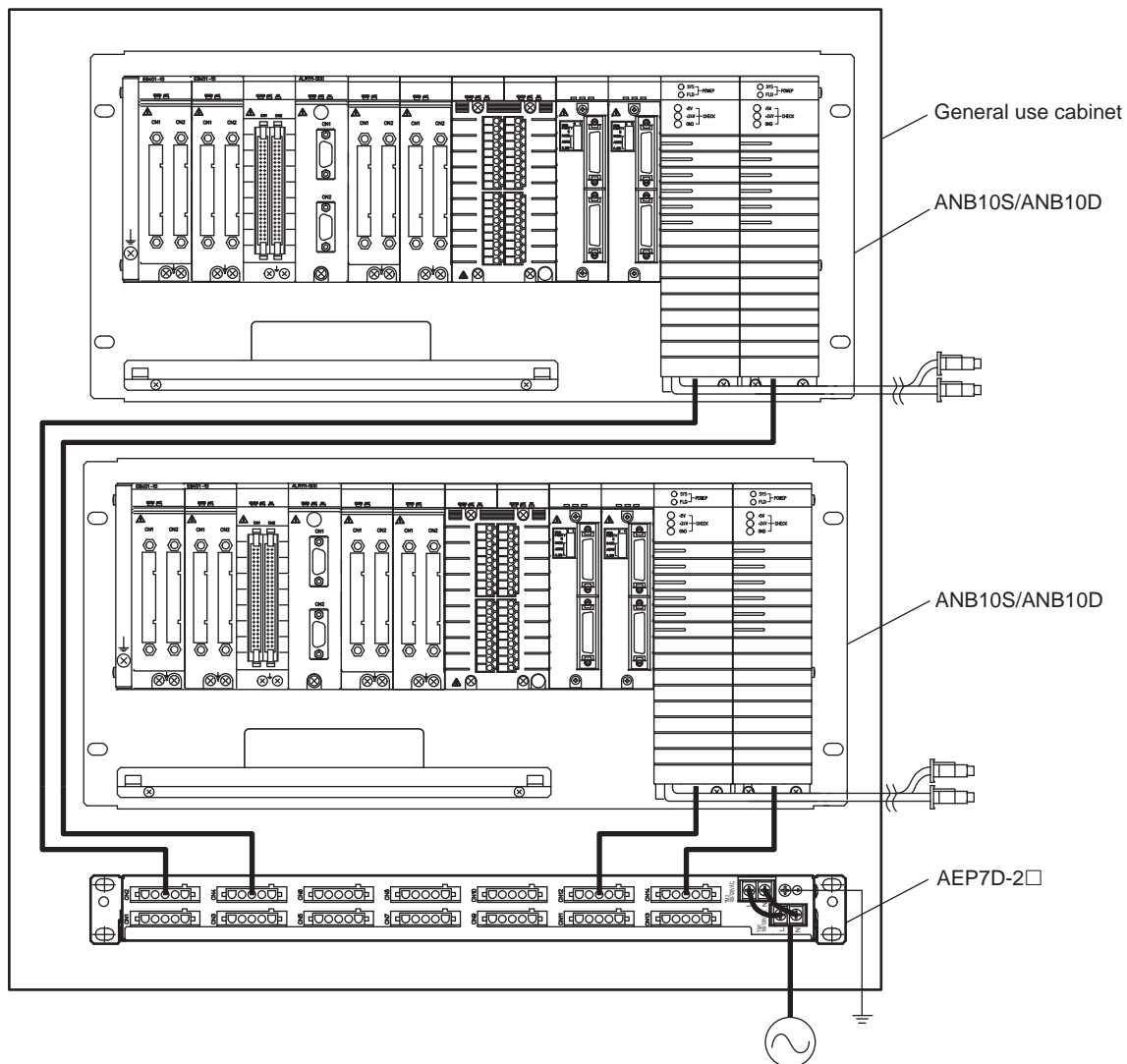
Connector



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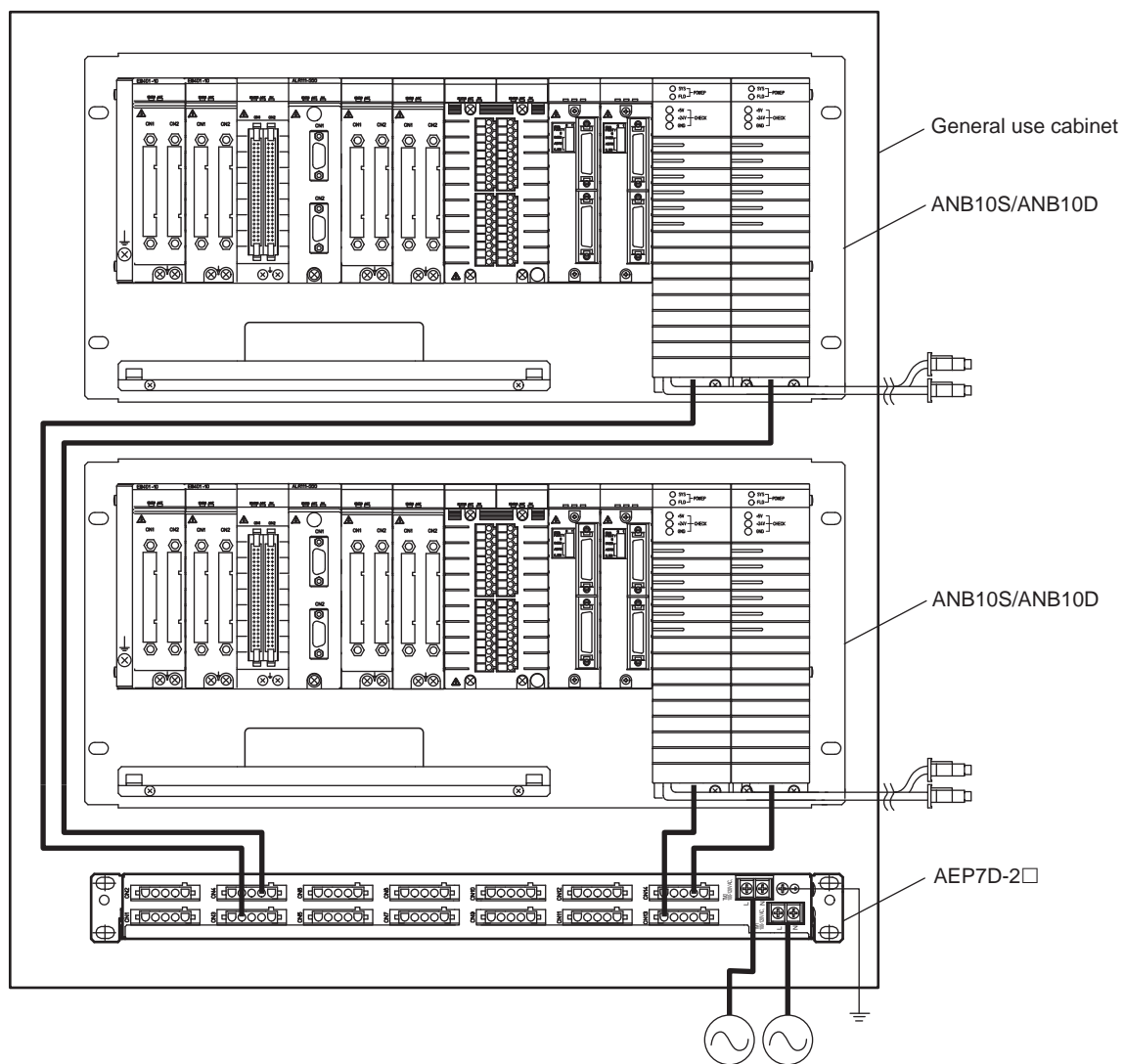
■ INSTALLATION EXAMPLE

● For a Single AC Power Supply Line



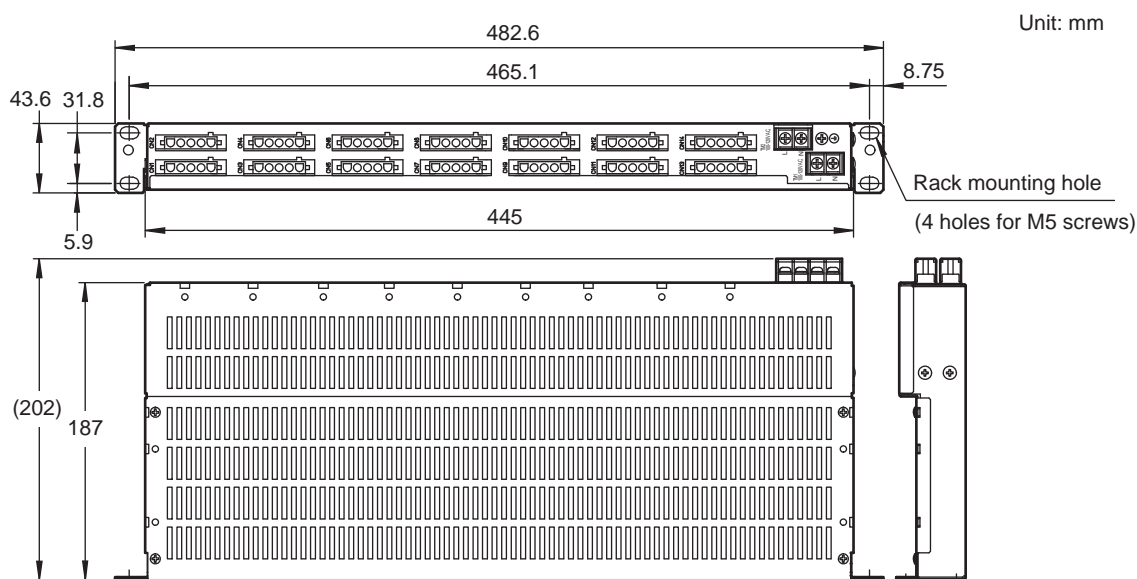
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● For Dual AC Power Supply Line



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EXTERNAL DIMENSIONS



Nominal tolerances :

Nominal tolerance is ± 0.8 mm for the dimensions of 0.5 mm or more and 120 mm or less, and the combined nominal tolerance is ± 1.5 mm.

The nominal tolerance is in accordance with JEM 1459 for the dimensions over 120 mm.

MODEL AND SUFFIX CODES

Primary Power Supply Bus Unit

		Description
Model	AEP7D	Primary Power Supply Bus Unit
Suffix Codes	-1	100 - 120 V AC input
	-2	220 - 240 V AC input
	-4	24 V DC input
	5	Basic type with no explosion protection
	6	With ISA Standard G3 option and no explosion protection
	E	Basic type with explosion protection
	F	With ISA Standard G3 option and explosion protection

APPLICABLE STANDARDS

Refer to the GS "Integrated Production Control System CENTUM VP System Overview (GS 33J01A10-01EN)."

ORDERING INFORMATION

Specify model and suffix codes when ordering.

For selecting the right products for explosion protection, please refer to TI 33Q01J30-01E, TI 32S01J30-01E without fail.

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