# NX-PD/PF/PC/TBX

CSM NX-PD PE PC TBX DS E 4 1

Power Supply Unit, Power Connection Unit, and FG Terminal Expansion Unit for NX-series



## **Features**

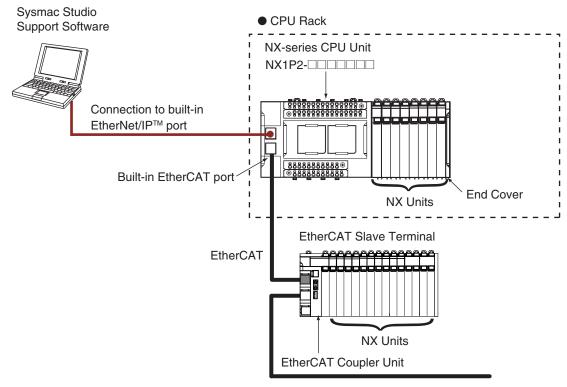
- Units to feed in additional Unit power and I/O power to an NX-series remote I/O terminal.
- Screwless clamp terminal block significantly reduces wiring work.
- · Space-saving 12 mm wide units.
- The NX Unit Power Supply Unit allows expansion of the I/O configuration beyond the maximum power supply capacity of the EtherCAT Coupler
- The I/O Power Supply Unit is used when the total allowed I/O current per feed terminal is exceeded, or to split I/O power into groups.
- The I/O Power Connection Unit can be used as an additional power supply terminal for connected sensors and actuators.
- The FG Terminal Expansion Unit can be used as ground terminal for wire shields.
- The screwless terminal block is detachable for easy commissioning and maintenance.

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## **System Configuration**

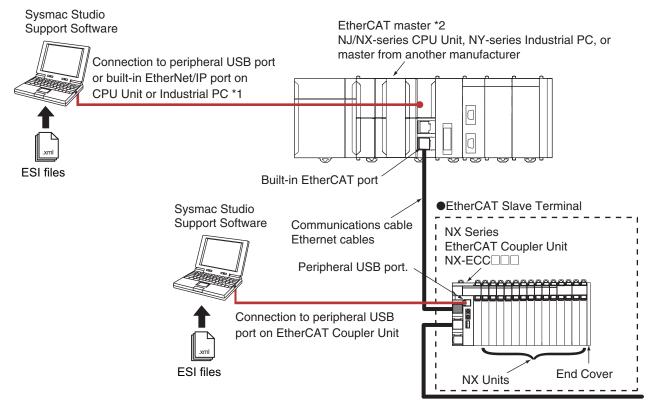
## System Configuration in the Case of a CPU Unit

The following figure shows a system configuration when a group of NX Units is connected to an NX-series CPU Unit.



## **System Configuration of Slave Terminals**

The following figure shows an example of the system configuration when an EtherCAT Coupler Unit is used as a Communications Coupler Unit.



- \*1. The connection method for the Sysmac Studio depends on the model of the CPU Unit or Industrial PC.
- \*2. An EtherCAT Slave Terminal cannot be connected to any of the OMRON CJ1W-NC□81/□82 Position Control Units even though they can operate as EtherCAT masters.

Note: For whether NX Units can be connected to the CPU Unit or Communications Coupler Unit to be used, refer to the user's manual for the CPU Unit or Communications Coupler Unit to be used.

## **Power Supply Systems**

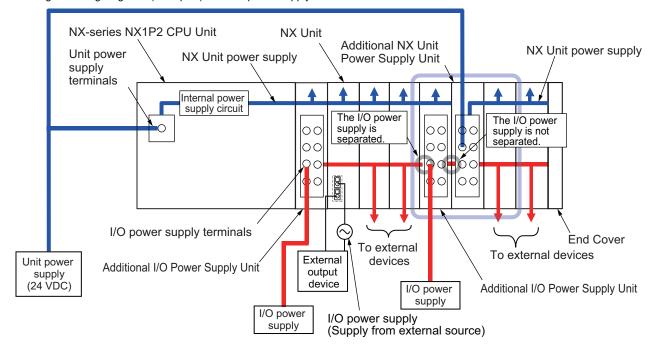
## Wiring the Power Supply to the CPU Unit

There are the following two types of power supplies that supply power to the CPU Rack of the NX1P2 CPU Units.

I/O power supply is also required to drive the built-in I/O output circuit. However, only the supply to the NX Unit is described in this section. For the I/O power supply to the built-in I/O, refer to the hardware user's manual for the CPU Unit to which NX Units are connected.

Power supply name	Description
Unit power supply	This is the power supply for generating the internal power supply required for the CPU Rack to operate. This power supply is connected to the Unit power supply terminals on the CPU Unit. From the Unit power supply, the internal power supply circuit in the CPU Unit generates the internal circuit power supply, Option Board power supply and NX Unit power supply. The internal circuits of the NX Unit operates on the NX Unit power supply. The NX Unit power supply is supplied to the NX Units in the CPU Rack through the NX bus connectors.
I/O power supply	This power supply is used for driving the I/O circuits of the NX Units and for the connected external devices.  There are the following two I/O power supply methods. Either supply method used depends on each model of NX Unit.  Supply from the NX bus  Supply from external source Refer to the Installation and Wiring in the NX-series System Units User's Manual (Cat. No. W523) for the details on the power supply methods.

The following are wiring diagrams (examples) for each power supply.



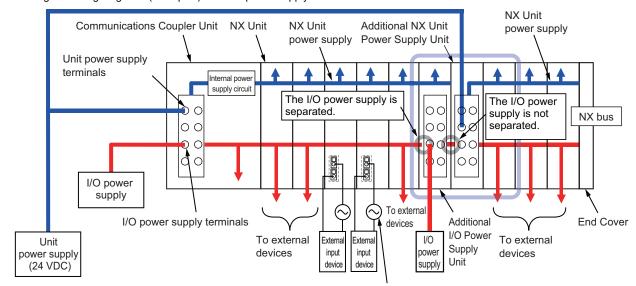
Note: Supply the Unit power and the I/O power from different power supplies. If you supply power from the same power supply the galvanic separation between the bus system and the I/O circuits is no longer effective. Noise generated in the I/O circuits may cause malfunctions in the internal circuits of the units.

## Wiring the Power Supply to the Slave Terminal

There are the following two types of power supplies that supply power to the Slave Terminal.

Power supply name	Description
Unit power supply	This is the power supply for generating the NX Unit power supply required for the Slave Terminal to operate.  This is connected to the Unit power supply terminal on the Communications Coupler Unit or on the Additional NX Unit Power Supply Unit.  The internal power supply circuit in the Communications Coupler Unit or the Additional NX Unit Power Supply Unit generates the NX Unit power supply from the Unit power supply.  The internal circuits of the Communications Coupler Unit and NX Units operate by the NX Unit power supply.  The NX Unit power supply is supplied to the NX Units in the Slave Terminal through the NX bus connectors.
I/O power supply	This power supply provides power to drive the I/O circuits of the Position Interface Units and it provides power to external devices such as external encoders and sensors.  There are the following two I/O power supply methods. Either supply method used depends on each model of NX Unit.  Supply from the NX bus  Supply from external source  Refer to the Installation and Wiring in the NX-series System Units User's Manual (Cat. No. W523) for the details on the power supply methods.

The following are wiring diagrams (examples) for each power supply.



I/O power supply (Supply from external source)

Note: Supply the Unit power and the I/O power from different power supplies. If you supply power from the same power supply the galvanic separation between the bus system and the I/O circuits is no longer effective. Noise generated in the I/O circuits may cause malfunctions in the internal circuits of the units.

## **Ordering Information**

#### **International Standards**

- The standards are abbreviated as follows: U: UL, U1: UL(Class I Division 2 Products for Hazardous Locations), C: CSA, UC: cULus, UC1: cULus (Class I Division 2 Products for Hazardous Locations), CU: cUL, N: NK, L: Lloyd, CE: EU Directives, RCM: Regulatory Compliance Mark, and KC: KC Registration.
- Contact your OMRON representative for further details and applicable conditions for these standards.

## **Additional NX Unit Power Supply Unit**

Unit type	Product name	Power supply voltage	NX Bus power supply capacity	Model	Standards
	Additional NX Unit Power Supply Unit				
NX Series System Unit		24 VDC (20.4 to 28.8 VDC)	10 W max.	NX-PD1000	UC1, N, L, CE, RCM, KC

## Additional I/O Power Supply Unit

Unit type	Product name	Power supply voltage	I/O power feed maximum current	Model	Standards
NX Series	Additional I/O Power Supply Unit	5 to 24 VDC	4 A	NX-PF0630	UC1, N, L,
System Unit	20 20 20 20 20 20 20 20 20 20 20 20 20 2	(4.5 to 28.8 VDC)	10 A	NX-PF0730	CE, RCM, KC

## I/O Power Supply Connection Unit

Unit type	Product name	Number of I/O power terminals	Current capacity of I/O power terminal	Model	Standards
I/O Power Supply Connection Unit		IOG: 16 terminals	4 A/terminal max.	NX-PC0010	UC1, N, L, CE, RCM, KC
NX Series System Unit	IOV: 16 terminals	4 A/terminal max.	NX-PC0020	UC1, N, L, CE, RCM, KC	
	11	IOV:8 terminals IOG:8 terminals	4 A/terminal max.	NX-PC0030	UC1, N, L, CE, RCM, KC

### **Shield Connection Unit**

Unit type	Product name	Number of shield terminals	Model	Standards
	Shield Connection Unit			
NX Series System Unit		14 terminals (The lower two terminals are functional ground terminals.)	NX-TBX01	UC1, N, L, CE, RCM, KC

## **Optional Products**

Product Name	Specification	Model	Standards
Unit/Terminal Block Coding Pins	For 10 Units (Terminal Block: 30 pins, Unit: 30 pins)	NX-AUX02	_

	Specification					
Product Name	No. of terminals	Terminal number indications	Ground terminal mark	Terminal current capacity	Model	Standards
Terminal Block	8	- A/B	None	10 A	NX-TBA082	
			Provided		NX-TBC082	
	40		None		NX-TBA162	
	16		Provided	-	NX-TBC162	

### **Accessories**

There are no accessories.

## **General Specification**

	Item	Specification
Enclosure		Mounted in a panel
Grounding method		Ground to 100 $\Omega$ or less
	Ambient operating temperature	0 to 55°C
	Ambient operating humidity	10% to 95% (with no condensation or icing)
	Atmosphere	Must be free from corrosive gases.
	Ambient storage temperature	-25 to 70°C (with no condensation or icing)
	Altitude	2,000 m max.
	Pollution degree	2 or less: Conforms to JIS B3502 and IEC 61131-2.
Operating environment	Noise immunity	2 kV on power supply line (Conforms to IEC61000-4-4.)
CHVIIOIIIICIII	Overvoltage category	Category II: Conforms to JIS B3502 and IEC 61131-2.
	EMC immunity level	Zone B
	Vibration resistance	Conforms to IEC 60068-2-6. 5 to 8.4 Hz with 3.5-mm amplitude, 8.4 to 150 Hz, acceleration of 9.8 m/s², 100 min each in X, Y, and Z directions (10 sweeps of 10 min each = 100 min total)
	Shock resistance	Conforms to IEC 60068-2-27. 147 m/s², 3 times each in X, Y, and Z directions
Applicable sta	andards *	cULus: Listed (UL508), ANSI/ISA 12.12.01, EU: EN 61131-2, C-Tick or RCM, KC Registration, NK, and LR

<sup>\*</sup> Refer to the OMRON website (www.ia.omron.com) or ask your OMRON representative for the most recent applicable standards for each model.

## **Specification**

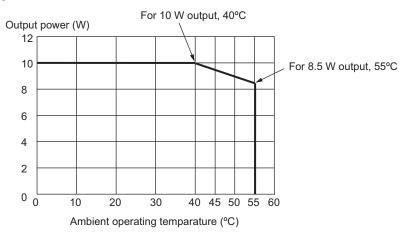
#### **Additional NX Unit Power Supply Unit NX-PD1000 Unit name** Additional NX Unit Power Supply Unit Model NX-PD1000 **External connection** Screwless push-in terminal block (8 terminals) terminals 24 VDC (20.4 to 28.8 VDC) Power supply voltage NX Bus power supply 10 W max. (Refer to Installation orientation and restrictions for details.) capacity **NX Unit power supply** 70% efficiency **Unwired terminal** 4 A max. (Including the current of through-wiring) current capacity **Dimensions** 12 (W) × 100 (H) 71 × (D) Isolation method No-isolation Insulation resistance 20 M $\Omega$ min. between isolated circuits (at 100 VDC) Dielectric strength 510 VAC between isolated circuits for 1 minute at a leakage current of 5 mA max. · Connected to a CPU Unit **NX Unit power** 0.85 W max. consumption Connected to a Communications Coupler Unit 0.45 W max. I/O current No consumption consumption Weight 65 g max. **Terminal** (Functional ground block terminal) No-isolatio powe (Functional ground supply **UNIT PWR** terminal) circuit LED **Circuit layout** NX Unit power supply + NX Unit power supply + Internal circuits NX bus NX bus NX Unit power supply -NX Unit power supply connector connector (left) (right) I/O power supply + I/O power supply + I/O power supply -I/O power supply -DIN Track contact plate (Unit track surface)

## Installation orientation:

- Connected to a CPU Unit: Possible in upright installation.
- Connected to a Communications Coupler Unit: Possible in 6 orientations.

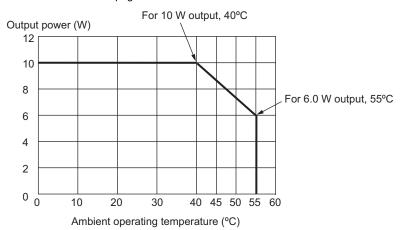
#### Restrictions:

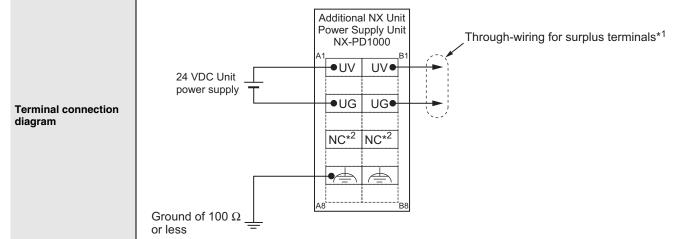
· For upright installation



## Installation orientation and restrictions

· For any installation other than upright



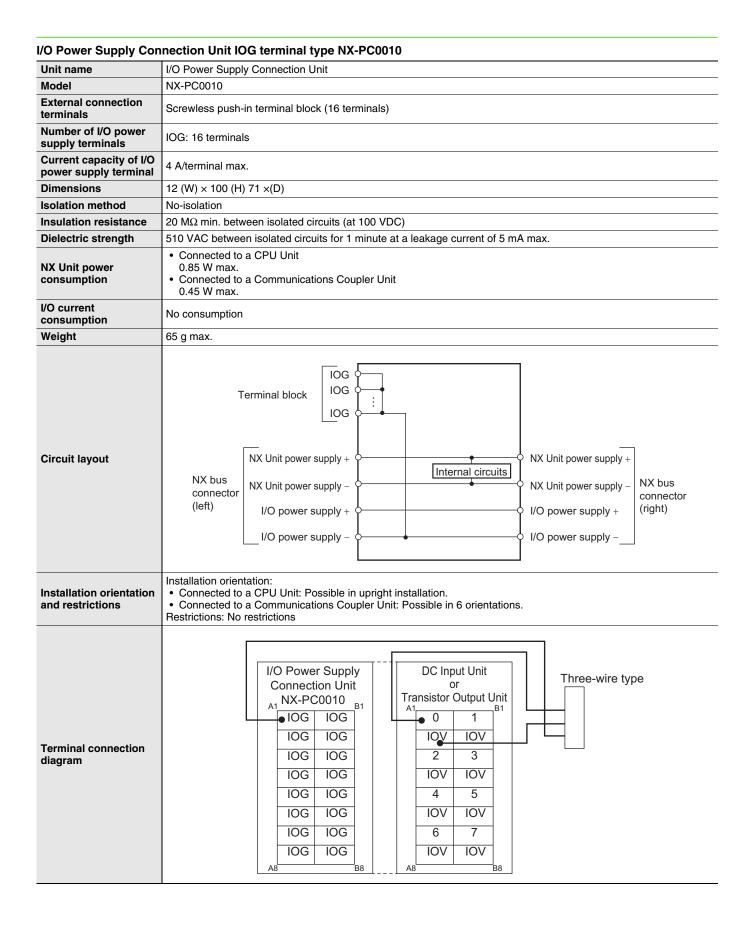


<sup>\*1.</sup> You can use the unwired terminals of the Unit power supply terminals (UV/UG) for through-wiring of the Additional NX Unit Power Supply Unit or the Unit power supply terminals on the EtherCAT Coupler Unit.

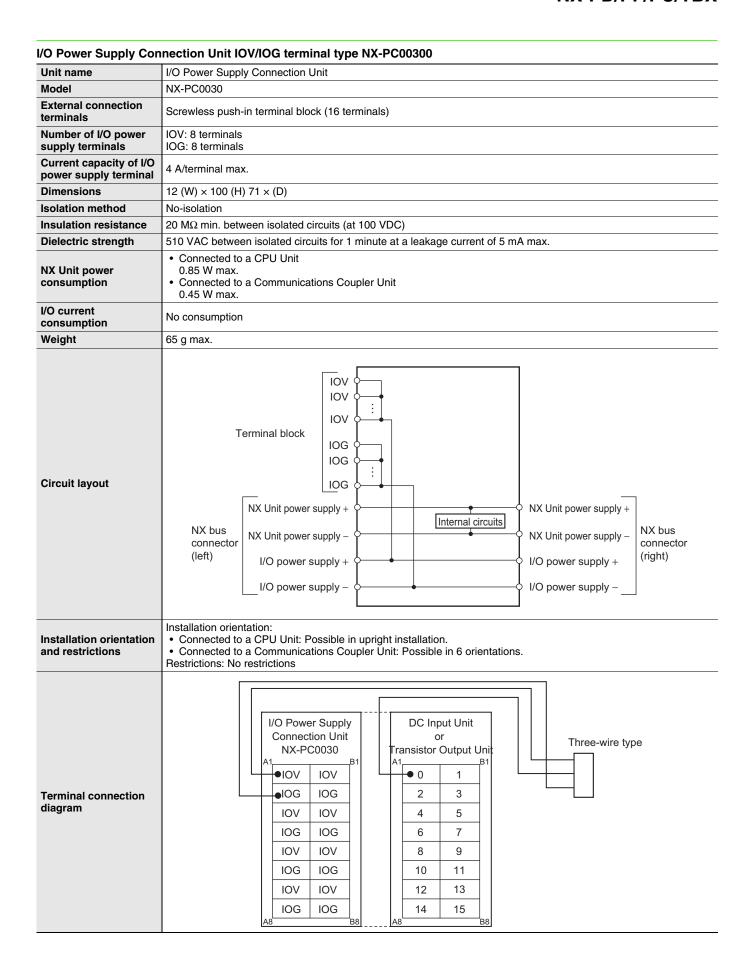
<sup>\*2.</sup> The NC terminal is not connected to the internal circuit.

nit name	Additional I/O Power Supply Unit				
lodel	NX-PF0630	NX-PF0730			
xternal connection rminals	Screwless push-in terminal block (8 terminals)	crewless push-in terminal block (8 terminals)			
ower supply voltage	5 to 24 VDC (4.5 to 28.8 VDC)*				
O power supply naximum current	4 A	10 A			
current capacity of I/O ower supply terminal	4 A max.	10 A max.			
imensions	12 (W) × 100 (H) 71 × (D)				
solation method	No-isolation				
sulation resistance	20 M $\Omega$ min. between isolated circuits (at 100 VDC)				
Dielectric strength	510 VAC between isolated circuits for 1 minute at a leaka	age current of 5 mA max.			
IX Unit power consumption	Connected to a CPU Unit     0.85 W max.     Connected to a Communications Coupler Unit     0.45 W max.				
O current consumption	10 mA max.				
Veight	65 g max.				
Circuit layout	NX bus connector (left)  NX Unit power supply - I/O	NX Unit power supply +  NX Unit power supply -  NX bus connector (right)  NY bus connector (right)			
nstallation orientation and restrictions	Installation orientation:  Connected to a CPU Unit: Possible in upright installation Connected to a Communications Coupler Unit: Possible Restrictions: No restrictions				
erminal connection liagram	Additional I/O Power Supply Unit NX-PF0630  A1  IOV IOV IOV IOV IOG IOG IOG A8  B8  A8	0 1 • IOV IOV • IOG IOG IOG • IOG IOG • IO			
	[A0 B0] [A0	, 50			

<sup>\*</sup> Use an output voltage that is appropriate for the I/O circuits of the NX Units and the connected external devices.



I/O Power Supply Con	nection Unit IOV terminal type NX-PC0020				
Unit name	I/O Power Supply Connection Unit				
Model	NX-PC0020				
External connection terminals	crewless push-in terminal block (16 terminals)				
Number of I/O power supply terminals	DV: 16 terminals				
Current capacity of I/O power supply terminal	A/terminal max.				
Dimensions	2 (W) × 100 (H) 71 × (D)				
Isolation method	No-isolation				
Isolation resistance	20 MΩ min. between isolated circuits (at 100 VDC)				
Dielectric strength	510 VAC between isolated circuits for 1 minute at a leakage current of 5 mA max.				
NX Unit power consumption	Connected to a CPU Unit 0.85 W max. Connected to a Communications Coupler Unit 0.45 W max.				
I/O current consumption	No consumption				
Weight	65 g max.				
Circuit layout	Terminal block  IOV  IOV  IOV  INX Unit power supply +  NX Unit power supply -  I/O po				
Installation orientation and restrictions	Installation orientation:      Connected to a CPU Unit: Possible in upright installation.     Connected to a Communications Coupler Unit: Possible in 6 orientations.  Restrictions: No restrictions				
Terminal connection diagram	I/O Power Supply Connection Unit A1 NX-PC0020 B1  IOV A8 B8 B8  A8 B8				



Init nama	Shield Connection Unit		
Init name	Shield Connection Unit  NX-TBX01		
lodel	NX-1BXUI		
xternal connection erminals	crewless push-in terminal block (16 terminals)		
umber of shield rminals	14 terminals (The following two terminals are functional ground terminals.)		
imensions	2 (W) × 100 (H) 71 × (D)		
olation method	solation between the SHLD functional ground terminal, and internal circuit: No-isolation		
sulation resistance	20 MΩ min. between isolated circuits (at 100 VDC)		
ielectric strength  X Unit power  ponsumption	<ul> <li>510 VAC between isolated circuits for 1 minute at a leakage current of 5 mA max.</li> <li>Connected to a CPU Unit 0.85 W max.</li> <li>Connected to a Communications Coupler Unit 0.45 W max.</li> </ul>		
O current onsumption	No consumption		
/eight	65 g max.		
Circuit layout	SHLD terminal   SHLD terminal		
nstallation orientation nd restrictions	Installation orientation:  Connected to a CPU Unit: Possible in upright installation.  Connected to a Communications Coupler Unit: Possible in 6 orientations.  Restrictions: No restrictions		
erminal connection liagram	Shield Connection Unit NX-TBX01  A1  SHLD		

## **Version Information**

## **Connecting with CPU Units**

Refer to the user's manual for the CPU Unit for the models of CPU Unit to which NX Units can be connected.

N	( Unit	Corresponding versions *		
Model	Unit Version	CPU Unit	Sysmac Studio	
NX-PD1000				
NX-PF0630				
NX-PF0730				
NX-PC0020	Ver.1.0	Ver.1.13 or later	Ver.1.17 or higher	
NX-PC0010				
NX-PC0030				
NX-TBX01				

<sup>\*</sup> Some Units do not have all of the versions given in the above table. If a Unit does not have the specified version, support is provided by the oldest available version after the specified version. Refer to the user's manuals for the specific Units for the relation between models and versions

## **Connecting with Coupler Units**

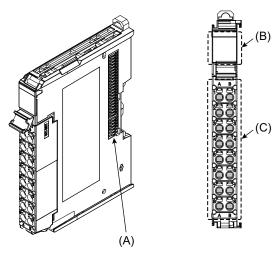
NX	Unit	Corresponding versions *					
			EtherCAT	Ethernet/IP			
Model	Unit Version	Communications Coupler Unit	NJ/NX-series CPU Units or NY-series Industrial PCs	Sysmac Studio	Communications Coupler Unit	Sysmac Studio	
NX-PD1000				Ver.1.06 or higher			
NX-PF0630				ver. 1.00 or riigher			
NX-PF0730				Ver.1.08 or higher			
NX-PC0020	Ver.1.0	Ver.1.0 or later	Ver.1.05 or later		Ver.1.0 or later	Ver.1.10 or higher	
NX-PC0010				Var 1 06 or bigher			
NX-PC0030				Ver.1.06 or higher			
NX-TBX01	1						

<sup>\*</sup> Some Units do not have all of the versions given in the above table. If a Unit does not have the specified version, support is provided by the oldest available version after the specified version. Refer to the user's manuals for the specific Units for the relation between models and versions.

## **External Interface**

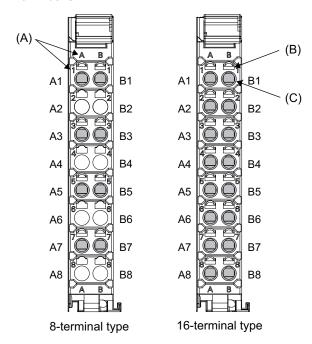
# Additional NX Unit Power Supply Unit, Additional I/O Power Supply Unit, I/O Power Supply Connection Unit, and Shield Connection Unit

NX-PD1000/NX-PF0 30/NX-PC00 0/NX-TBX01



Symbol	Name	Function			
(A)	NX bus connector	This connector is used to connect each Unit.			
(B)	Indicators	The indicators show the current operating status of the Unit.			
(C)	Terminal block	The terminal block is used to connect external devices. The number of terminals depends on the type of Unit.			

## **Terminal Blocks**



Symbol	Name	Function
{A)	Terminal number indications	Terminal numbers for which A and B indicate the column, and 1 to 8 indicate the line are displayed. The terminal number is a combination of column and line, so A1 to A8 and B1 to B8 are displayed.  The terminal number indications are the same regardless of the number of terminals on the terminal block.
(B)	Release holes	Insert a flat-blade screwdriver into these holes to connect and remove the wires.
(C)	Terminal holes	The wires are inserted into these holes.

## **Applicable Terminal Blocks for Each Unit Model**

	Terminal Blocks							
Unit model	Model	No. of terminals	Terminal number indications	Ground terminal mark	Terminal current capacity			
NX-PD1000	NX-TBC082	8	A/B	Provided	10 A			
NX-PF0630	NX-TBA082	8	A/B	None	10 A			
NX-PF0730	NX-TBA082	8	A/B	None	10 A			
NX-PC□□□□	NX-TBA162	16	A/B	None	10 A			
NX-TBX01	NX-TBC162	16	A/B	Provided	10 A			

## **Applicable Wires**Using Ferrules

If you use ferrules, attach the twisted wires to them.

Observe the application instructions for your ferrules for the wire stripping length when attaching ferrules.

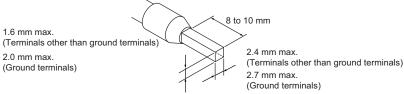
Always use plated one-pin ferrules. Do not use unplated ferrules or two-pin ferrules.

The applicable ferrules, wires, and crimping tool are given in the following table.

Terminal types	Manufacturer	Ferrule model	Applicable wire (mm² (AWG))	Crimping tool	
Terminals other			Phoenix Contact (The figure in parentheses is the applicable wire		
than ground terminals		AI0,5-8	0.5 (#20)	size.)   CRIMPFOX 6 (0.25 to 6 mm², AWG 24 to 10)	
terriiriais		AI0,5-10		Orman 1 0x 0 (0.25 to 0 mm , AWG 24 to 10)	
		AI0,75-8	0.75 (#18)	1	
		AI0,75-10			
		AI1,0-8	1.0 (#18)		
		AI1,0-10			
		Al1,5-8	1.5 (#16)		
Ground terminals		Al2,5-10	2.0 *1		
Terminals other	Weidmuller	H0.14/12	0.14 (#26)	Weidmueller (The figure in parentheses is the applicable wire size.)	
than ground terminals		H0.25/12	0.25 (#24)	PZ6 Roto (0.14 to 6 mm², AWG 26 to 10)	
terriiriais		H0.34/12	0.34 (#22)		
		H0.5/14	0.5 (#20)		
		H0.5/16			
		H0.75/14	0.75 (#18)		
		H0.75/16			
		H1.0/14	1.0 (#18)		
		H1.0/16	7		
		H1.5/14	1.5 (#16)		
		H1.5/16	7		

<sup>\*1.</sup> Some AWG 14 wires exceed 2.0 mm² and cannot be used in the screwless clamping terminal block.

When you use any ferrules other than those in the above table, crimp them to the twisted wires so that the following processed dimensions are achieved.



## **Using Twisted Wires/Solid Wires**

If you use the twisted wires or the solid wires, use the following table to determine the correct wire specifications.

Terminals		Wire type				Wire size	Conductor length (stripping length)
		Twisted wires		Solid wire			
Classification	Current capacity	Plated	Unplated	Plated	Unplated		(surpping length)
	2 A max.	Possible	Possible	Possible	Possible		
All terminals except ground terminals	Greater than 2 A and 4 A or less		Not	Not Possible		Not Possible	0.08 to 1.5 mm <sup>2</sup> AWG28 to 16
	Greater than 4 A	Possible *1	FUSSIDIE	Not Possible	rossible		
Ground terminals		Possible	Possible	Possible *2	Possible *2	2.0 mm <sup>2</sup>	9 to 10 mm

Secure wires to the screwless clamping terminal block. Refer to the Securing Wires in the USER'S MANUAL for how to secure wires. With the NX-TB — 1 Terminal Block, use twisted wires to connect the ground terminal. Do not use a solid wire.



Conductor length (stripping length)

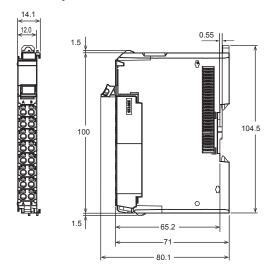
<sup>&</sup>lt; Additional Information > If more than 2 A will flow on the wires, use plated wires or use ferrules.

Dimensions (Unit: mm)

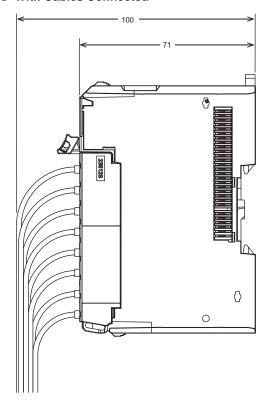
# Additional NX Unit Power Supply Unit, Additional I/O Power Supply Unit, I/O Power Supply Connection Unit, and Shield Connection Unit

NX-PD1000/NX-PF0 30/NX-PC00 0/NX-TBX01

## Unit Only



## With Cables Connected



## **Related Manuals**

Man. No	Model	Manual	Application	Description
W523	NX-PD1	NX-series System Unit User's Manual	Learning how to use NX- series System Units	The hardware and functions of the NX-series System Units are described.

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