



INVERTER

Control terminal option

FR-E8TS

INSTRUCTION MANUAL

*24 V external power
supply terminal block*

PRE-OPERATION INSTRUCTIONS

1

INSTALLATION AND WIRING

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CONNECTING THE 24 V EXTERNAL
POWER SUPPLY

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Safety Instructions

Thank you for choosing this Mitsubishi Electric inverter control terminal option.

This Instruction Manual provides handling information and precautions for use of this product. Incorrect handling might cause an unexpected fault. Before using this product, always read this Instruction Manual carefully to ensure proper use. Please forward this Instruction Manual to the end user.

Do not attempt to install, operate, maintain or inspect this product until you have read this Instruction Manual and supplementary documents carefully. Do not use this product until you have a full knowledge of this product mechanism, safety information and instructions. In this Instruction Manual, the safety instruction levels are classified into "WARNING" and "CAUTION".

 **WARNING** Incorrect handling may cause hazardous conditions, resulting in death or severe injury.

 **CAUTION** Incorrect handling may cause hazardous conditions, resulting in medium or slight injury, or may cause only material damage.

Note that even the  **CAUTION** level may lead to a serious consequence depending on conditions. Be sure to follow the instructions of both levels as they are critical to personnel safety.

◆ Electric shock prevention

WARNING

- Do not remove the front cover or the wiring cover while the power of the inverter is ON, and do not run the inverter with the front cover or the wiring cover removed as the exposed high voltage terminals or the charging part of the circuitry can be touched. Doing so may cause an electric shock.
 - Even if power is OFF, do not remove the front cover of the inverter except for wiring or periodic inspection as the inside of this product is charged. Doing so may cause an electric shock.
 - Before wiring or inspection, check that the display of the inverter operation panel is OFF. Any person who is involved in wiring or inspection shall wait for 10 minutes or longer after the power supply has been cut off, and check that there are no residual voltage using a tester or the like. The capacitor is charged with high voltage for some time after power OFF, and it is dangerous.
 - Any person who is involved in wiring or inspection of this product shall be fully competent to do the work.
 - The control terminal option must be installed before wiring. Otherwise you may get an electric shock or be injured.
 - Do not touch the control terminal option or handle the cables with wet hands. Doing so may cause an electric shock.
 - Do not subject the cables to scratches, excessive stress, heavy loads or pinching. Doing so may cause an electric shock.
-

◆ Injury prevention

CAUTION

- The voltage applied to each terminal must be as specified in the Instruction Manual. Otherwise an explosion or damage may occur.
 - The cables must be connected to the correct terminals. Otherwise an explosion or damage may occur.
 - The polarity (+ and -) must be correct. Otherwise an explosion or damage may occur.
 - While power is ON or for some time after power OFF, do not touch the inverter as it will be extremely hot. Doing so may cause burns.
-

◆ Additional instructions

The following instructions must be also followed. If this product is handled incorrectly, it may cause unexpected fault, an injury, or an electric shock.

CAUTION

Transportation and installation

- Do not install or operate the control terminal option if it is damaged or has parts missing.
- Do not stand or place any heavy object on the product.
- Ensure the mounting orientation of this product is correct.
- Foreign conductive objects must be prevented from entering the inverter. That includes screws and metal fragments or other flammable substance such as oil.
- If halogens (including fluorine, chlorine, bromine, and iodine) contained in fumigants for wood packages enter this product, the product may be damaged. Prevent the entry of fumigant residuals or use an alternative method such as heat disinfection. Note that sterilization or disinfection of wood packages should be performed before packing the product.

Test operation

- Before starting the test operation, confirm or adjust the parameter settings. Failure to do so may cause some machines to make unexpected motions.
-
-

WARNING

Usage

- Do not modify this product.
 - Do not remove any part which is not instructed to be removed in the Instruction Manuals. Doing so may lead to a failure or damage of the product.
-

CAUTION

Usage

- As all parameters return to their initial values after Parameter clear or All parameter clear is performed, the parameters must be set again as required before the operation is started.
- To avoid damage due to static electricity, static electricity in your body must be discharged before you touch this product.

Maintenance, inspection and parts replacement

- Do not carry out a megger (insulation resistance) test.

Disposal

- This product must be treated as industrial waste.
-

General instruction

- For clarity, illustrations in this Instruction Manual may be drawn with covers or safety guards removed. Ensure all covers and safety guards are properly installed prior to starting operation.
-



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1 PRE-OPERATION INSTRUCTIONS

1.1 Unpacking and product confirmation

Take the control terminal option out of the package, check the product name, and confirm that the product is as you ordered and intact.

This product is a control terminal option made for the FR-E800 series inverters.

This product cannot be connected to the Ethernet model, the safety communication model, and the IP67 model.

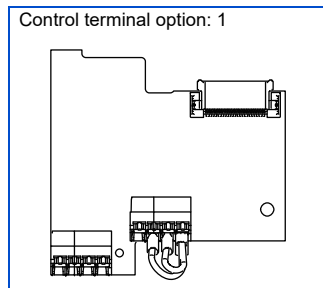
This product can be used only in combination with the FR-E800 series standard models (except for the FR-E860 and FR-E810W inverters) and the FR-A8NC E-kit.

When this product is used, the inverter does not support RS-485 communication, optional operation panels (FR-PU07, FR-LU08, or FR-PA07), or converter units (FR-XC in a mode other than power regeneration mode 2, FR-HC2, or FR-CV).

This product has safety stop input terminals and safety monitor output terminals. However, it does not comply with functional safety standards because it has not been certified by a third-party certification body.

1.1.1 Product confirmation

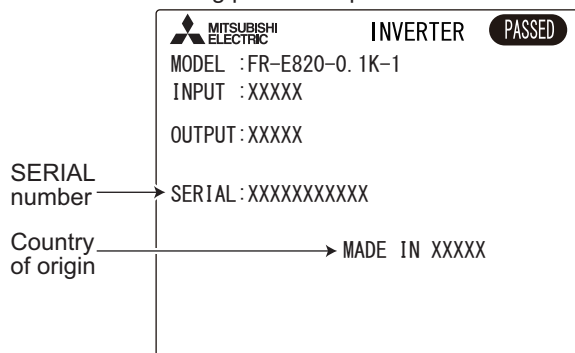
Check the enclosed items.



1.1.2 SERIAL number check

The FR-E8TS can be used with the inverters which have the following SERIAL number or later. Check the SERIAL number indicated on the inverter rating plate or package.

Rating plate example

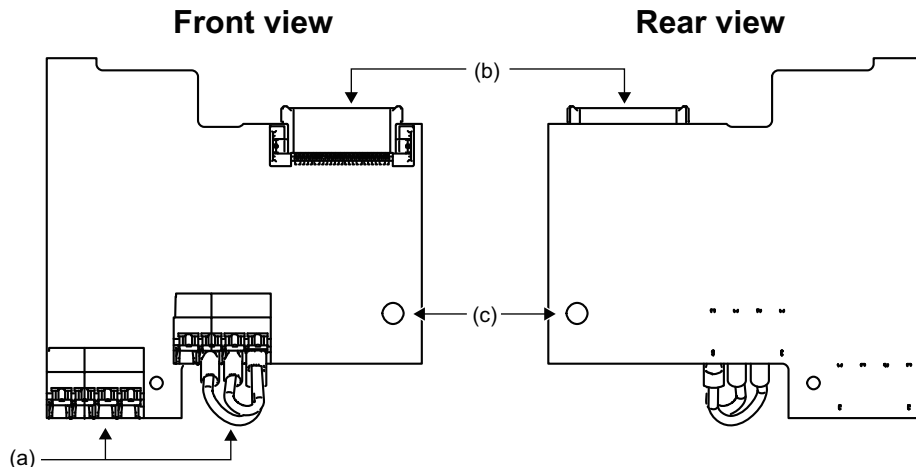


□□ ○○ ○ ○○○○○○
Symbol Year Month Control number
SERIAL

The SERIAL consists of two symbols, three characters indicating the production year and month, and six characters indicating the control number. The last two digits of the production year is indicated as the Year, and the Month is indicated by 1 to 9, X (October), Y (November), or Z (December).

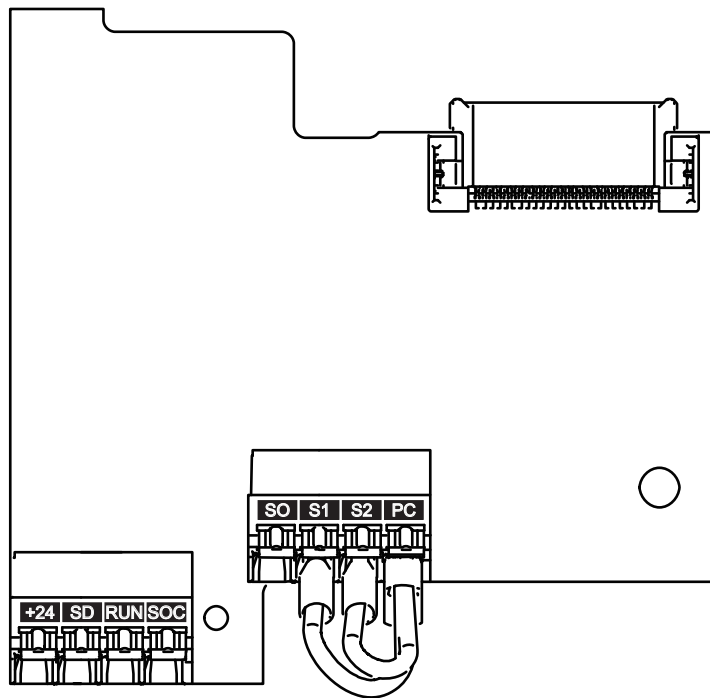
Model	Country of origin indication	SERIAL number
Standard model (excluding the FR-E860 and the FR-E810W)	MADE IN JAPAN	□□263○○○○○○ or later
	MADE IN CHINA	□□266○○○○○○ or later

1.2 Component names

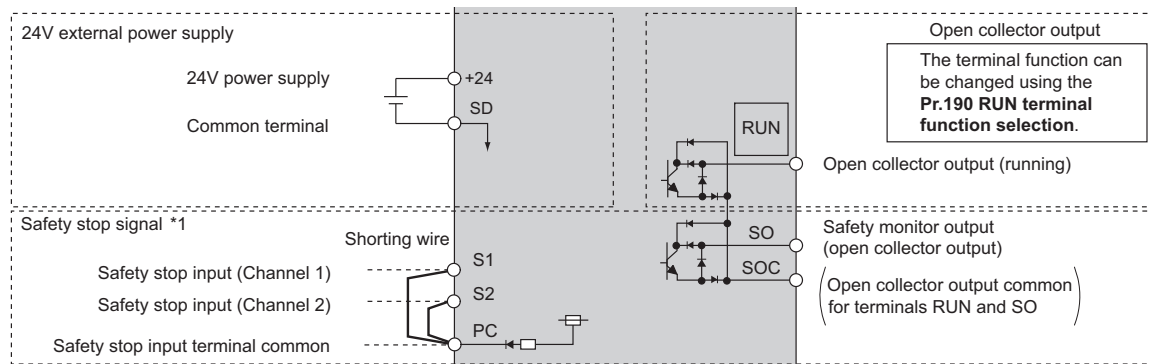


Symbol	Name	Description	Refer to page
a	Terminal block	Used to connect the device to input signals to the inverter, and the device to receive the signal from the inverter.	9
b	Board mounted option connector	Connected to the control circuit connection connector of the inverter.	17
c	Mounting hole	Used to fix this product to the inverter using the hexagon spacer supplied with the FR-A8NC E kit.	17

1.3 Terminal layout



1.4 Terminal connection diagram



*1 This product has safety stop input terminals and safety monitor output terminals. However, it does not comply with functional safety standards because it has not been certified by a third-party certification body.

1.5 Details on the control circuit terminals

◆ Input signal (24 V external power supply)

Terminal symbol	Common	Terminal name	Terminal function description	Rated specification
+24	SD	24 V external power supply	Connected to the 24 V external power supply. Select a 24 V external power supply that can output a current of 0.7 A or more. Even when the main circuit power supply is turned OFF, communication continues via the external power supply.	Input voltage: 23.5 to 26.5 VDC

◆ Output signal (open collector)

Terminal symbol	Common	Terminal name	Terminal function description	Rated specification
RUN ^{*1}	SOC	Inverter running	The output is in LOW state when the inverter output frequency is equal to or higher than the starting frequency (initial value: 0.5 Hz). The output is in HIGH state during stop or DC injection brake operation. ^{*2}	Permissible load: 24 VDC (27 VDC at maximum) 0.1 A (The voltage drop is 3.4 V at maximum while the signal is ON.)

*1 The terminal function can be selected using **Pr.190 RUN terminal function selection**. (Refer to the FR-E800 Instruction Manual (Function).)

*2 The open collector transistor is ON (conductive) in LOW state. The transistor is OFF (not conductive) in HIGH state.

◆ Safety stop function

This product has not been certified by a third-party certification body for this function.

Terminal symbol	Common	Terminal name	Terminal function description	Rated specification
S1	PC	Safety stop input (Channel 1) ^{*1}	The Inverter judges the condition of the internal safety circuit from the status (shorted/opened) between terminals S1 and PC, or between S2 and PC. When the status is opened, the inverter output is shut off. In the initial status, terminals S1 and S2 are shorted with terminal PC by shorting wires. For inverter operating status corresponding to input terminal status, refer to "I/O status and inverter operation" on page 13 .	Input resistance: 4.7 kΩ Voltage when contacts are open: 21 to 26 VDC Current when contacts are short-circuited: 4 to 6 mADC
S2	PC	Safety stop input (Channel 2) ^{*1}		
SO	SOC	Safety monitor output ^{*1}	The output status varies depending on the input status of the safety stop signals. (Open collector output between SO and SOC) The output is in HIGH state during occurrence of the internal safety circuit failure. The output is in LOW state otherwise. ^{*2} For information on corrective actions for faults, refer to "Diagnostic" on page 15 .	Permissible load: 24 VDC (27 VDC at maximum) 0.1 A (The voltage drop is 3.4 V at maximum while the signal is ON.)

*1 This product has safety stop input terminals and safety monitor output terminals. However, it does not comply with functional safety standards because it has not been certified by a third-party certification body.

*2 The open collector transistor is ON (conductive) in LOW state. The transistor is OFF (not conductive) in HIGH state.

■ I/O status and inverter operation

The following table shows the input/output status of signals related to the inverter safety stop function and inverter operation. When diagnosing or testing the function, check that the input/output status and the inverter operation match those in the table.

Input power	Internal safety circuit status	Input terminal ^{*1*2}		Output terminal	Output signal ^{*8*9*10}		Inverter running status	Operation panel indication	
		S1	S2	SO	SAFE	SAFE2		E.SAF ^{*6}	SA ^{*7}
OFF ^{*11}	—	—	—	OFF	OFF	OFF	Output shutoff	Not displayed	Not displayed
ON	Normal	ON	ON	ON ^{*3}	OFF	ON ^{*3}	Drive enabled	Not displayed	Not displayed
	Normal	ON	OFF	OFF ^{*4}	OFF ^{*4}	OFF ^{*4}	Output shutoff	Displayed	Displayed
	Normal	OFF	ON	OFF ^{*4}	OFF ^{*4}	OFF ^{*4}	Output shutoff	Displayed	Displayed
	Normal	OFF	OFF	ON ^{*3}	ON ^{*3}	ON ^{*3}	Output shutoff	Not displayed	Displayed
	Fault	ON	ON	OFF	OFF	OFF	Output shutoff	Displayed	Not displayed ^{*5}
	Fault	ON	OFF	OFF	OFF	OFF	Output shutoff	Displayed	Displayed
	Fault	OFF	ON	OFF	OFF	OFF	Output shutoff	Displayed	Displayed
	Fault	OFF	OFF	OFF	OFF	OFF	Output shutoff	Displayed	Displayed

^{*1} ON: The transistor is conducted. OFF: The transistor is not conducted.

^{*2} When not using the safety stop function, short across terminals S1 and PC, and S2 and PC to use the inverter. (In the initial status, terminals S1 and PC, and S2 and PC are respectively shorted with shorting wires.)

*3 If any of the faults shown in the following table occurs, terminal SO, the SAFE signal, and the SAFE2 signal are turned OFF.

Error definition	Operation panel indication
Option fault	E.OPT
Communication option fault	E.OP1
Internal storage device fault	E.PE6
Parameter storage device fault (control circuit board)	E.PE
Retry count excess	E.RET
Parameter storage device fault (main circuit board)	E.PE2
Safety circuit fault	E.SAF
Overspeed occurrence	E.OS

Error definition	Operation panel indication
Speed deviation excess detection	E.OSD
Signal loss detection	E.ECT
Excessive position fault	E.OD
Brake sequence fault	E.MB1 to E.MB7
Acceleration error	E.OA
CPU fault	E.CPU
	E.5 to E.7
Internal circuit fault	E.13

- *4 When the internal safety circuit is operated normally (no fault occurs), terminal SO, the SAFE signal, and the SAFE2 signal remain ON until "E.SAF" is displayed. Terminal SO, the SAFE signal, and the SAFE2 signal are turned OFF when "E.SAF" is displayed.
- *5 "SA" is displayed when the terminals S1 and S2 are identified as OFF due to the internal safety circuit failure.
- *6 If another fault occurs at the same time as E.SAF, the other fault can be displayed.
- *7 If another warning occurs at the same time as SA, the other warning can be displayed.
- *8 The ON/OFF state of the output signal is the one for the positive logic. The ON and OFF are reversed for the negative logic.
- *9 To assign the functions of the SAFE signal and SAFE2 signal to output terminals, set either value shown in the following table. To output the signals via physical terminals, the functions can be assigned to **Pr.190**. To output the signals via communication, the functions can be assigned also to **Pr.190 to Pr.197 (Output terminal function selection)**. For details, refer to the FR-A8NC E kit Instruction Manual.

Output signal	Pr.190 to Pr.197 settings	
	Positive logic	Negative logic
SAFE	80	180
SAFE2	81	181

- *10 The use of the SAFE signal and SAFE2 signal has not been certified for compliance with safety standards.
- *11 Terminal SO, the SAFE signal, and the SAFE2 signal are always OFF while the main circuit power supply is OFF. The same applies when the main circuit power supply is turned OFF and 24 V external power is supplied to the control circuit.



NOTE

- The response time from safety stop signal input to drive shutoff is faster than 4 ms.
- Hold the ON or OFF status for 2 ms or longer to input signal to terminal S1 or S2.
Signal input shorter than 2 ms is not recognized.

■ Diagnostic

If a failure is detected, the inverter outputs a fault signal and "E.SAF" is indicated at the display.

When the inverter outputs a fault signal, take following actions.

1. Check that the input signal logic is the same between S1-PC and S2-PC. If these are different, correct the input signal and reset the inverter.
2. Disconnect the wires from terminals S1, S2, and PC, then reset or turn OFF and ON the power. If the "SA" is indicated on the operation panel, there is a failure in the system except for the inverter. When "E.SAF" is indicated and a fault signal is output, a fault may be occurring in the inverter.

■ Self diagnostic test

The inverter has the self-diagnostic test function at power-ON.

If the inverter outputs a fault signal (SA, E.SAF) at power-ON, take the action described above.

■ Operation check procedure

Check the operation of the safety stop function as follows.

1. Change the status between terminals S1 and PC, and between S2 and PC, then check the input/output status described in "I/O status and inverter operation" on [page 13](#).
2. In Step 1, if the inverter behaves differently from the table on [page 13](#), the inverter may have failed.
3. In Step 1, if the inverter behaves as described in the table on [page 13](#), check the operation of the entire system. Press the emergency switch, press the start/restart button while a failure is detected (SO-SOC opened), and so on.
4. Finally clear the fault history of the inverter (see the Instruction Manual for how to clear the fault history).

◆ Common terminal

Terminal symbol	Common	Terminal name	Terminal function description
SD	—	24 V external power supply common	Common terminal for terminal +24.
PC	—	Safety stop input terminal common ^{*1}	Common terminal for safety stop input terminals S1 and S2.
SOC	—	Safety monitor output terminal common ^{*1}	Common terminal for terminals RUN and SO.

^{*1} This product has safety stop input terminals and safety monitor output terminals. However, it does not comply with functional safety standards because it has not been certified by a third-party certification body.



NOTE

- Terminals SD, PC, and SOC are common terminals for I/O signals. (All common terminals are isolated from each other.) Do not earth (ground) these terminals. Avoid connecting terminals SD and PC and terminals SOC and PC.
- The FR-E8TS does not have relay output (fault output) terminals.

2 INSTALLATION AND WIRING

2.1 Pre-installation instructions

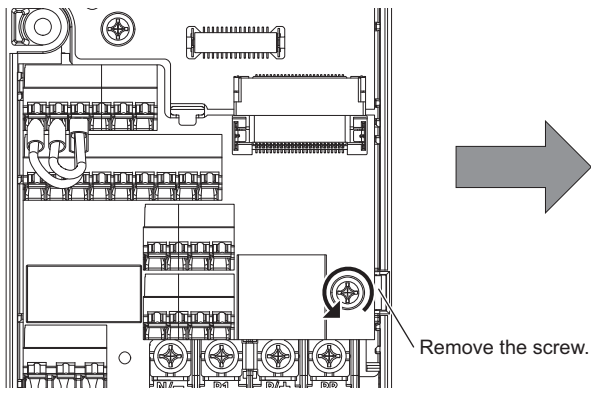
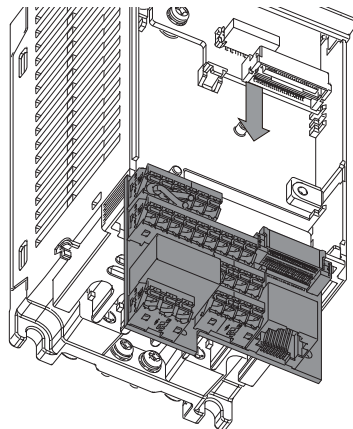
Check that all the power supplies to be input to the inverter are OFF.

CAUTION

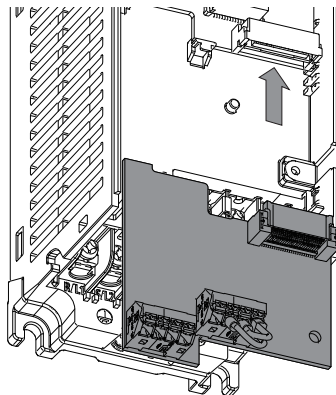
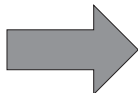
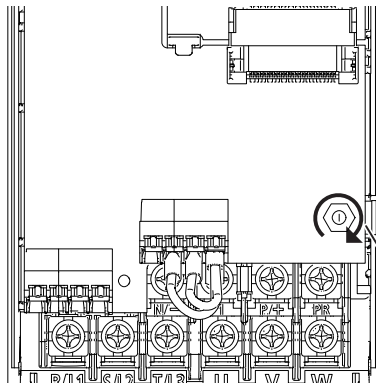
- Do not install or remove the control terminal option while the input power is ON. Doing so may damage the inverter or the control terminal option.
-

2.2 Installation procedure

1. Remove the inverter front cover.
(Refer to the FR-E800 Instruction Manual (Connection) for instructions to remove the cover.)
2. Remove the installation screw of the standard control circuit terminal block. (The removed screw is not used to install the control terminal option.)
Slide down the standard control circuit terminal block to remove it.



3. Carefully insert the control terminal option without bending the pins on the inverter control circuit connector, and fix it with the hexagon spacer supplied with the FR-A8NC E kit.
(Tightening torque: 0.56 to 0.75 N·m)



Tighten the hexagon spacer.

2

- 4.** Connect wiring to the control terminal option.

5. Install the FR-A8NC E kit. (For details, refer to the FR-A8NC E kit Instruction Manual.)
6. Connect wiring to the CC-Link communication connector of the FR-A8NC E kit. (For details, refer to the FR-A8NC E kit Instruction Manual.)
7. Install the plug-in option front cover supplied with the FR-A8NC E kit onto the inverter. (For details, refer to the FR-A8NC E kit Instruction Manual.)
8. For FR-E820-0240(5.5K) inverters or higher and FR-E840-0230(11K) inverters or higher, install the option small cover supplied with the FR-A8NC E kit and the lower front cover of the inverter. (For details, refer to the FR-A8NC E kit Instruction Manual.)



NOTE

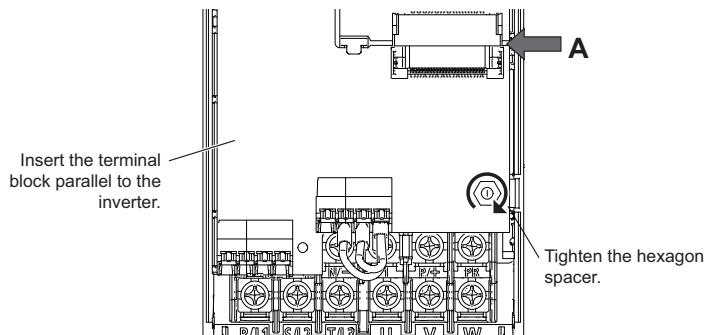
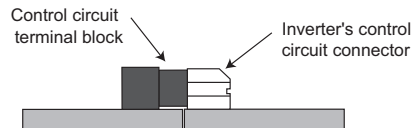
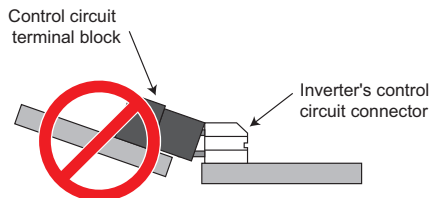
- The inverter recognizes the control terminal option when the state of the power supply is changed from OFF to ON.

◆ Removal and reinstallation precautions

The following shows the precautions for removing and installing the control circuit terminal block (standard or option). Observe the following precautions and handle the inverter properly to avoid malfunctions or failures.

- To remove or reinstall the control circuit terminal block, keep it upright so that it is parallel with the inverter.
- Check that the terminal block is parallel to the inverter and the pins on the inverter control circuit connector are not bent.

After checking proper connection, use a hexagon spacer to fix the terminal block.



View from side A

2

NOTE

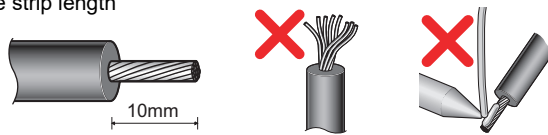
- Do not tilt the control circuit terminal block while tightening the hexagon spacer or removing it from the product. (Otherwise, stress applied to the control circuit terminal block or the control circuit connector may damage the pins.)
- When the control circuit terminal block is not connected to the inverter properly, a board combination fault (E.CMB) occurs.

2.3 Wiring

◆ Wiring connection

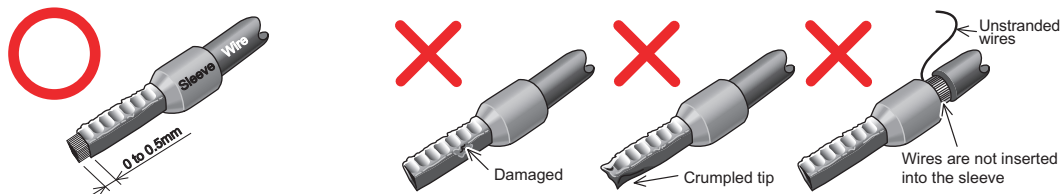
1. For the wiring, strip off the sheath of a cable, and use it with a crimp terminal. For a single wire, strip off the sheath of the wire and apply directly. Insert the crimp terminal or the single wire into a socket of the terminal. Strip the signal wires as follows. If too much of the wire is stripped, a short circuit may occur with neighboring wires. If not enough of the wire is stripped, wires may become loose and fall out. Twist the stripped end of wires to prevent them from fraying. Do not solder them. Use a crimp terminal as necessary.

Wire strip length



Crimp the terminals on the wire.

Insert the wire into a crimp terminal, making sure that 0 to 0.5 mm of the wire protrudes from the end of the sleeve. Check the condition of the crimp terminals after crimping. Do not use the crimp terminals of which the crimping is inappropriate, or the face is damaged.



⚠ CAUTION

- After wiring, wire offcuts must not be left in the inverter. Wire offcuts can cause an alarm, failure or malfunction.

**NOTE**

Crimp terminals commercially available (as of September 2025)

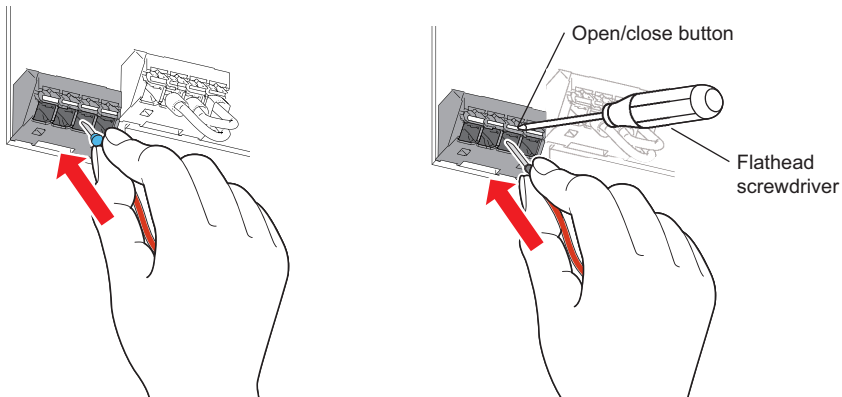
- Phoenix Contact GmbH & Co. KG

Wire gauge (mm ²)	Ferrule part No.		Crimping tool model No.
	With insulation sleeve	Without insulation sleeve	
0.3	Al 0,34-10TQ	—	CRIMPFOX 6
0.5	Al 0,5-10WH	—	

- NICHIFU Co., Ltd.

Wire gauge (mm ²)	Blade terminal part No.	Insulation cap part No.	Crimping tool model No.
0.3 to 0.75	BT 0.75-11	VC 0.75	NH 69

2. Insert the wire into the terminal block.
When using single wire or stranded wire without crimp terminal, push an open/close button all the way down with a flathead screw driver, and insert the wire.

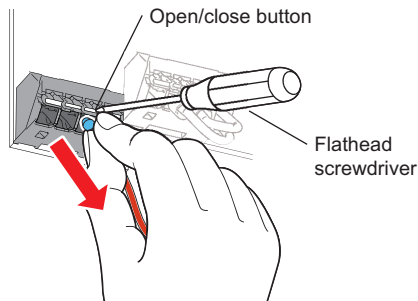


NOTE

- When using stranded wires without a blade terminal, twist enough to avoid short circuit with a nearby terminals or wires.

◆ Wire removal

Pull the wire while pushing the open/close button all the way down firmly with a flathead screwdriver.



NOTE

- Pulling out the wire forcefully without pushing the open/close button all the way down may damage the terminal block.
- Use a small flathead screwdriver (tip thickness: 0.4 mm / tip width: 2.5 mm).
If a flathead screwdriver with a narrow tip is used, terminal block may be damaged.
Commercially available products (as of September 2025)

Product name	Model	Manufacturer
Screwdriver	SZF 0- 0,4 × 2,5	Phoenix Contact GmbH & Co. KG

- Place the flathead screwdriver vertical to the open/close button. In case the blade tip slips, it may cause an inverter damage or injury.
- Before wiring, remove the wiring cover of the inverter. (Refer to the FR-E800 Instruction Manual (Connection) for instructions to remove or reinstall the cover.)

3 CONNECTING THE 24 V EXTERNAL POWER SUPPLY

Connect the 24 V external power supply across terminals +24 and SD to turn ON/OFF the I/O terminal, keep the operation panel ON, and carry out communication with other devices even at power-OFF state of inverter's main circuit power supply. When the main circuit power supply is turned ON, the power supply is switched from the 24 V external power supply to the main circuit power supply.

◆ Specification of the applied 24 V external power supply

Item	Rated specification*1
Output voltage	23.5 to 26.5 VDC
Output current	0.7 A or more

*1 Prepare a 24 V external power supply according to the rated specification.

◆ Starting and stopping the 24 V external power supply operation

- Supplying 24 V external power across terminals +24 and SD while the main circuit power is OFF starts the 24 V external power supply operation. Likewise, turning OFF the main circuit power while supplying 24 V external power starts the 24 V external power supply operation.
- Turning ON the main circuit power stops the 24 V external power supply operation and enables the normal operation.



NOTE

- During the 24 V external power supply operation, the inverter operation is disabled.
- In the initial setting, when the main circuit power supply is turned ON during the 24 V external power supply operation, a reset is performed in the inverter, then the power supply changes to the main circuit power supply. (The reset can be disabled using **Pr.30 Regenerative function selection**. For details, refer to the FR-E800 Instruction Manual (Function).)

◆ Confirming the 24 V external power supply input

- When the 24 V external power is supplied and the main circuit power is turned OFF, the inverter enters 24 V external power supply mode, and "EV" blinks on the operation panel.



- During the 24 V external power supply operation, the 24 V external power supply operation (EV) signal is output. To use the EV signal, set "68 (positive logic)" or "168 (negative logic)" in any parameter from **Pr.190 to Pr.197 (Output terminal function selection)** to assign the function to the output terminal.

◆ Operation while the 24 V external power is supplied

- The operation stops when the power supply changes to the 24 V external power supply from the main circuit power supply regardless of the operating status (in a stop, in running, in automatic restart after instantaneous power failure, in offline tuning, in main circuit capacitor life measurement).
- Fault records and parameters can be read and parameters can be written (when the parameter write is enabled).
- The safety stop function is also valid while the 24 V external power is supplied. When the safety stop function is active, however, "SA" is not displayed because "EV" is displayed. The "EV" display has priority over the "SA" display.
- While the 24 V external power is supplied, monitoring function and signals related to the main circuit power supply are not available. (For details, refer to the FR-E800 Instruction Manual (Function).)
- The alarms, which have occurred when the main circuit power supply is ON, continue to be output after the power supply is changed to the 24 V external power supply. Perform the inverter reset or turn OFF then ON the power to reset the faults.
- The retry function is invalid for all faults while the 24 V external power is supplied.
- If the power supply changes from the main circuit power supply to the 24 V external power supply while measuring the main circuit capacitor's life, the measurement completes after the power supply changes back to the main circuit power supply (**Pr.259 = "3"**).
- The output data is retained when "1 or 11" is set in **Pr.495 Remote output selection**.

 NOTE

- Inrush current equal to or higher than the 24 V external power supply specification may flow at power-ON. Confirm that the power supply and other devices are not affected by the inrush current and the voltage drop caused by it. Depending on the power supply, the overcurrent protection may be activated to disable the power supply. Select the power supply and capacity carefully.
 - When the wiring length between the external power supply and the inverter is long, the voltage often drops. Select the appropriate wiring size and length to keep the voltage in the rated input voltage range.
 - When several inverters are daisy-chained, the current increases when it flows through the inverter wiring near the power supply. The increase of the current causes voltage to drop further. When connecting different inverters to different power supplies, use the inverters after confirming that the input voltage of each inverter is within the rated input voltage range. Up to four inverters can be connected. Depending on the power supply, the overcurrent protection may be activated to disable the power supply. Select the power supply and capacity carefully.
 - When an external 24 V power supply is used, "E.SAF" may appear if the power supply start-up time is too long (less than 1.5 V/s).
 - Do not touch the option board while the 24 V external power is supplied (when conducted). Doing so may cause an electric shock or burn.
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4 SPECIFICATIONS

4.1 Availability of the inverter functions during 24 V external power supply operation

Function	Availability
Reading/writing parameters	Available (The option parameters are available even when a compatible option is not installed.)
Monitor display	Available (The monitor items related to the main circuit power supply are not available.*1)
Operation panel indication / key operation	Available (The RUN key is disabled.)
Input terminals	Available (Only terminals S1 and S2 are provided.)
Output terminals	Available (Only terminals RUN and SO are provided. The output signals related to inputs to the main circuit power supply are invalid.*1)
Fault indication	Available
USB connector	Available
Others	Terminal PC cannot be used for 24 VDC power supply.

*1 For details, refer to the FR-E800 Instruction Manual (Function).



NOTE

- During the 24 V external power supply operation, the inverter operation is disabled.
- Up to four inverters can be daisy-chained.

MEMO

REVISIONS

*The manual number is given on the bottom left of the back cover.

Revision date	* Manual number	Revision
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INVERTER

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