1. REPLACING INVERTER

The FR-F800 series has two specifications types: FM type and CA type.

When replacing the FR-F700(P) series of the Japanese specifications, select the FM type (FR-F8[]0-[][K-1). For achieving compliance with the shipping classification of Class NK or others, use an FR-A800 inverter.

2. SIZE

When the FR-F700(P) series is replaced with the FR-F800 series, most of the FR-F800 series models have the same installation size as that of the corresponding FR-F700(P) series models. When replacing the FR-F720(P)-75K with the FR-F820-75K of different size, use the interchange attachment shown in the table below

For more information about the product size, refer to the outline dimension drawings on the following pages.

[Inverter alone]

Eviation inventor	Danianian in contan	Installation size /
Existing inverter	Replacing inverter	installation interchange attachment
FR-F720(P)-0.75K	FR-F820-0.75K	Same
FR-F720(P)-1.5K	FR-F820-1.5K	Same
FR-F720(P)-2.2K	FR-F820-2.2K	Same
FR-F720(P)-3.7K	FR-F820-3.7K	Same
FR-F720(P)-5.5K	FR-F820-5.5K	Same
FR-F720(P)-7.5K	FR-F820-7.5K	Same
FR-F720(P)-11K	FR-F820-11K	Same
FR-F720(P)-15K	FR-F820-15K	Same
FR-F720(P)-18.5K	FR-F820-18.5K	Same
FR-F720(P)-22K	FR-F820-22K	Same
FR-F720(P)-30K	FR-F820-30K	Same
FR-F720(P)-37K	FR-F820-37K	Same
FR-F720(P)-45K	FR-F820-45K	Same
FR-F720(P)-55K	FR-F820-55K	Same
FR-F720(P)-75K	FR-F820-75K	FR-F8AT01
FR-F720(P)-90K	FR-F820-90K	Same
FR-F720(P)-110K	FR-F820-110K	Same
FR-F740(P)-0.75K	FR-F840-0.75K	Same
FR-F740(P)-1.5K	FR-F840-1.5K	Same
FR-F740(P)-2.2K	FR-F840-2.2K	Same
FR-F740(P)-3.7K	FR-F840-3.7K	Same
FR-F740(P)-5.5K	FR-F840-5.5K	Same
FR-F740(P)-7.5K	FR-F840-7.5K	Same
FR-F740(P)-11K	FR-F840-11K	Same
FR-F740(P)-15K	FR-F840-15K	Same
FR-F740(P)-18.5K	FR-F840-18.5K	Same
FR-F740(P)-22K	FR-F840-22K	Same
FR-F740(P)-30K	FR-F840-30K	Same
FR-F740(P)-37K	FR-F840-37K	Same
FR-F740(P)-45K	FR-F840-45K	Same
FR-F740(P)-55K	FR-F840-55K	Same
FR-F740(P)-75K	FR-F840-75K	Same
FR-F740(P)-90K	FR-F840-90K	Same
FR-F740(P)-110K	FR-F840-110K	Same
FR-F740(P)-132K	FR-F840-132K	Same
FR-F740(P)-160K	FR-F840-160K	Same
FR-F740(P)-185K	FR-F840-185K	Same
FR-F740(P)-220K	FR-F840-220K	Same
FR-F740(P)-250K	FR-F840-250K	Same
FR-F740(P)-280K	FR-F840-280K	Same
FR-F740(P)-315K	FR-F840-315K	Same

Use screws with the proper lengths for installation as required.

When the panel through attachment is used, the enclosure cut dimensions are compatible with those of the FR-F700(P) series (except when the F720(P)-75K is replaced).

[When used with the panel through attachment]

Existing	panei inrougn attach inverter		ng inverter		
Inverter model	Panel through	Inverter model	Panel through	Outline dimensions*1 /	
inverter model	attachment model	inverter model	attachment model	enclosure cut dimensions	
ED E300(D) 0 351(allacriment model	ED 5000 0 751/	allaciment model		
FR-F720(P)-0.75K	_	FR-F820-0.75K	_	_	
FR-F720(P)-1.5K	_	FR-F820-1.5K	_		
FR-F720(P)-2.2K	FR-A7CN01	FR-F820-2.2K	FR-A8CN01	Same	
FR-F720(P)-3.7K	FR-A7CN01	FR-F820-3.7K	FR-A8CN01	Same	
FR-F720(P)-5.5K	FR-A7CN01	FR-F820-5.5K	FR-A8CN01	Same	
FR-F720(P)-7.5K	FR-A7CN02	FR-F820-7.5K	FR-A8CN02	Same	
FR-F720(P)-11K	FR-A7CN02	FR-F820-11K	FR-A8CN02	Same	
FR-F720(P)-15K	FR-A7CN03	FR-F820-15K	FR-A8CN03	Same	
FR-F720(P)-18.5K	FR-A7CN04	FR-F820-18.5K	FR-A8CN04	Same	
FR-F720(P)-22K	FR-A7CN04	FR-F820-22K	FR-A8CN04	Same	
FR-F720(P)-30K	FR-A7CN04	FR-F820-30K	FR-A8CN04	Same	
	FR-A7CN05		FR-A8CN05	Existing enclosure cut	
ED E700/D) 271/		ED E000 071/		dimensions compatible*2	
FR-F720(P)-37K	FR-A7CN103	FR-F820-37K		Same enclosure cut	
				dimensions	
ED E700/D) 4EV	FR-A7CN07	ED E000 451/	FR-A8CN06	Same enclosure cut	
FR-F720(P)-45K		FR-F820-45K		dimensions	
ED E700/D) <i>EEV</i>	FR-A7CN07	ED E000 <i>EEV</i>	FR-A8CN06	Same enclosure cut	
FR-F720(P)-55K		FR-F820-55K		dimensions	
	FR-A7CN10		FR-F8CN01	Same enclosure cut	
ED E700/D) 751/		ED E000 751/		dimensions	
FR-F720(P)-75K		FR-F820-75K	FR-A8CN07	Not compatible	
	FR-A7CN105		FR-A8CN103	·	
	FR-A7CN10		FR-A8CN08	Same enclosure cut	
FR-F720(P)-90K		FR-F820-90K		dimensions	
	FR-A7CN105		FR-A8CN104	Minor modification required	
	FR-A7CN10		FR-A8CN08	Same enclosure cut	
FR-F720(P)-110K		FR-F820-110K		dimensions	
()	FR-A7CN105		FR-A8CN104	Minor modification required	
FR-F740(P)-0.75K	FR-A7CN01	FR-F840-0.75K	FR-A8CN01	Same	
FR-F740(P)-1.5K	FR-A7CN01	FR-F840-1.5K	FR-A8CN01	Same	
FR-F740(P)-2.2K	FR-A7CN01	FR-F840-2.2K	FR-A8CN01	Same	
FR-F740(P)-3.7K	FR-A7CN01	FR-F840-3.7K	FR-A8CN01	Same	
FR-F740(P)-5.5K	FR-A7CN01	FR-F840-5.5K	FR-A8CN01	Same	
FR-F740(P)-7.5K	FR-A7CN02	FR-F840-7.5K	FR-A8CN02	Same	
FR-F740(P)-11K	FR-A7CN02	FR-F840-11K	FR-A8CN02	Same	
, ,	FR-A7CN03		FR-A8CN03	Same	
FR-F740(P)-15K	FR-A7CN102	FR-F840-15K	FR-A8CN102	Same	
	FR-A7CN03		FR-A8CN03	Same	
FR-F740(P)-18.5K	FR-A7CN102	FR-F840-18.5K	FR-A8CN102	Same	
FR-F740(P)-22K	FR-A7CN04	FR-F840-22K	FR-A8CN04	Same	
FR-F740(P)-30K	FR-A7CN04	FR-F840-30K	FR-A8CN04	Same	
FR-F740(P)-37K	FR-A7CN06	FR-F840-37K	FR-A8CN05	Same enclosure cut	
. ,				dimensions Same enclosure cut	
FR-F740(P)-45K	FR-A7CN07	FR-F840-45K	FR-A8CN06	dimensions	
FR-F740(P)-55K	FR-A7CN07	FR-F840-55K	FR-A8CN06	Same enclosure cut	
FR-F/40(P)-33K	1	1	1	dimensions	

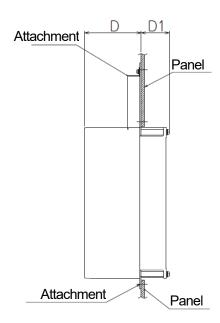
Existing inverter		Replac	cing inverter	Outline dimensions*1 /
Inverter model	Panel through attachment model	Inverter model	Panel through attachment model	enclosure cut dimensions
FR-F740(P)-75K	FR-A7CN07	FR-F840-75K	FR-A8CN06	Same enclosure cut dimensions
FR-F740(P)-90K	FR-A7CN08	FR-F840-90K	FR-A8CN09	Same enclosure cut dimensions
` ,	FR-A7CN106		FR-A8CN105	Minor modification required
FR-F740(P)-110K	FR-A7CN09	FR-F840-110K	FR-A8CN09	Same enclosure cut dimensions
	FR-A7CN107		FR-A8CN105	Minor modification required
FR-F740(P)-132K	FR-A7CN10	FR-F840-132K	FR-A8CN08	Same enclosure cut dimensions
	FR-A7CN105		FR-A8CN104	Minor modification required
FR-F740(P)-160K	FR-A7CN10	FR-F840-160K	FR-A8CN08	Same enclosure cut dimensions
` ,	FR-A7CN105		FR-A8CN104	Minor modification required
FR-F740(P)-185K	Changing the positions of installation frames	FR-F840-185K	Changing the positions of installation frames	Same
()	FR-A7CN109	FR-A8CN107		Same enclosure cut dimensions
FR-F740(P)-220K	Changing the positions of installation frames	FR-F840-220K	Changing the positions of installation frames	Same
	FR-A7CN109		FR-A8CN107	Same enclosure cut dimensions
FR-F740(P)-250K	Changing the positions of installation frames	FR-F840-250K	Changing the positions of installation frames	Same
FR-F740(P)-280K	Changing the positions of installation frames	FR-F840-280K	Changing the positions of installation frames	Same
	FR-A7CN110		FR-A8CN108	Same enclosure cut dimensions
FR-F740(P)-315K	Changing the positions of installation frames	FR-F840-315K	Changing the positions of installation frames	Same

^{*1:} When the outline dimensions are not the same, the installation outline dimensions of the panel through attachments are different. Refer to the Instruction Manual.

^{*2:} The enclosure cut dimensions of the FR-A7CN05 are available for the attachment (FR-A8CN05).

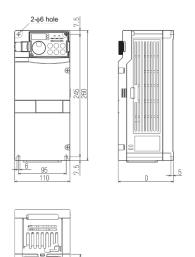
[Depth] When the FR-F700 series is replaced with the FR-F800 series, the depths inside and outside the enclosure are different for some attachment models as shown in the shaded areas below.

Before	Before replacement			After replacement	
Attachment model	D (mm)	D1 (mm)	Attachment model	D (mm)	D1 (mm)
FR-A7CN01	97	48.4	FR-A8CN01	97	48.4
FR-A7CN02	86	89.4	FR-A8CN02	86	89.4
FR-A7CN03	89	106.4	FR-A8CN03	89	106.4
FR-A7CN04	88.5	110.6	FR-A8CN04	96.7	102.4
FR-A7CN05, 06	123.5	71.5	FR-A8CN05	130.8	64.2
FR-A7CN07	96	154	FR-A8CN06	96	154
FR-A7CN11	97	153	FR-A8CN07	130	120
FR-A7CN10	176.5	183.5	FR-A8CN07	130	120
			FR-A8CN08	176.5	183.5
			FR-F8CN01	130	120
FR-A7CN08, 09	116.5	183.5	FR-A8CN09	152.3	147.7
FR-A7CN102	89	106.4	FR-A8CN102	88.5	106.9
FR-A7CN103	123.5	71.5	FR-A8CN05	130.8	64.2
FR-A7CN105	176.5	183.5	FR-A8CN103	130	120
			FR-A8CN104	176.5	183.5
FR-A7CN106	116.5	183.5	FR-A8CN105	152.3	147.7
FR-A7CN107	116.5	183.5	FR-A8CN105	152.3	147.7
FR-A7CN109	195	185	FR-A8CN107	195	185
FR-A7CN110	195	185	FR-A8CN108	195	185



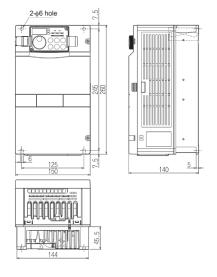
Outline dimension drawings (Unit: mm)

■FR-F720(P)-0.75K, 1.5K

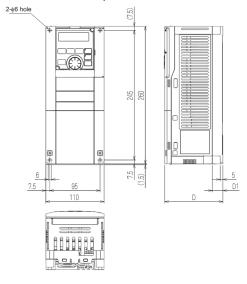


Inverter model	D	D1
FR-F720(P)-0.75K	110	21
FR-F720(P)-1.5K	125	36

■FR-F720(P)-2.2K, 3.7K, 5.5K

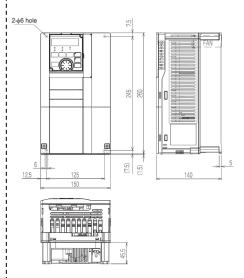


■FR-F820-0.75K, 1.5K

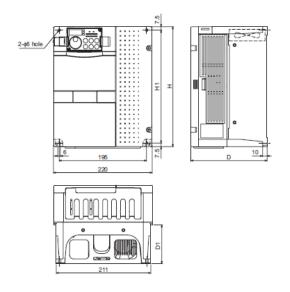


Inverter model	D	D1
FR-F820-0.75K	110	20
FR-F820-1.5K	125	35

■FR-F820-2.2K, 3.7K, 5.5K

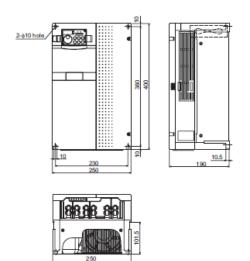


■FR-F720(P)-7.5K, 11K, 15K



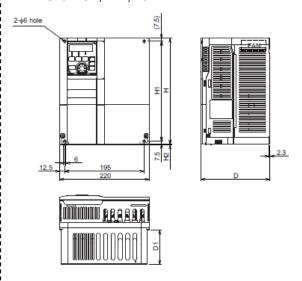
Inverter model	Н	H1	D	D1
FR-F720(P)-7.5K, 11K	260	245	170	84
FR-F720(P)-15K	300	285	190	101.5

■FR-F720(P)-18.5K, 22K, 30K



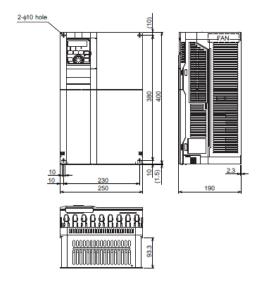
(Note) The FR-F720(P)-30K does not have the wiring cover.

■FR-F820-7.5K, 11K, 15K

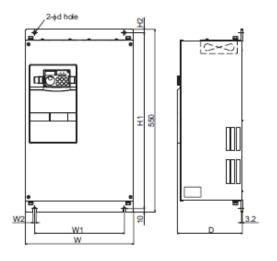


Inverter model	Η	H1	H2	D	D1
FR-F820-7.5K, 11K	260	245	1.5	170	84
FR-F820-15K	300	285	3	190	101.5

■FR-F820-18.5K, 22K, 30K

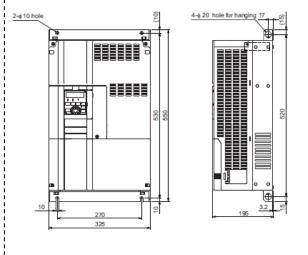


■FR-F720(P)-37K, 45K, 55K



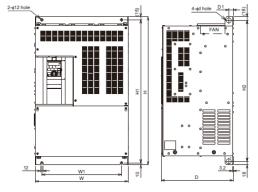
Inverter model	W	W1	W2	Н	H1	H2
FR-F720(P)-37K	325	270	10	550	530	10
FR-F720(P)-45K, 55K	435	380	12	550	525	15

Inverter model	d	D
FR-F720(P)-37K	10	195
FR-F720(P)-45K, 55K	12	250



■FR-F820-45K, 55K

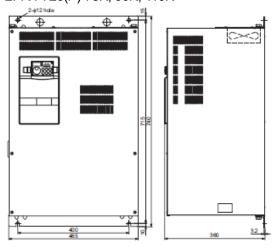
■FR-F820-37K



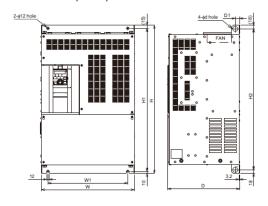
Inverter model	W	W1	Н	H1	H2
FR-F820-45K, 55K	435	380	550	525	514

Inverter model	d	D	D1
FR-F820-45K, 55K	25	250	24

■FR-F720(P)-75K, 90K, 110K



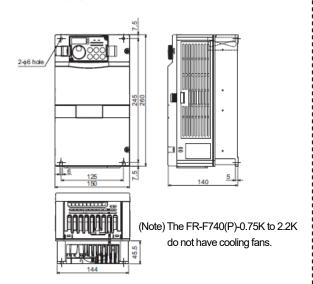
■FR-F820-75K, 90K, 110K



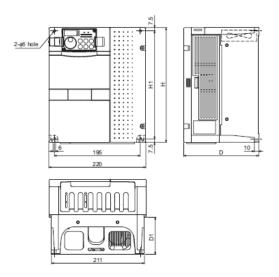
Inverter model	W	W1	Н	H1	H2
FR-F820-75K	465	410	700	675	664
FR-F820-90K, 110K	465	400	740	715	704

Inverter model	d	D	D1
FR-F820-75K	25	250	22
FR-F820-90K, 110K	24	360	22

■FR-F740(P)-0.75K, 1.5K, 2.2K, 3.7K, 5.5K



■FR-F740(P)-7.5K, 11K, 15K, 18.5K

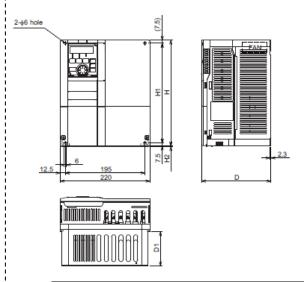


Inverter model	Ι	H1	D	D1
FR-F740(P)-7.5K, 11K	260	245	170	84
FR-F740(P)-15K, 18.5K	300	285	190	101.5

■FR-F840-0.75K, 1.5K, 2.2K, 3.7K, 5.5K

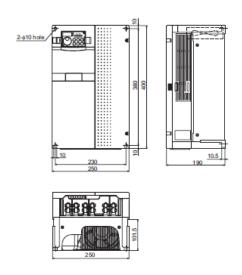


■FR-F840-7.5K, 11K, 15K, 18.5K

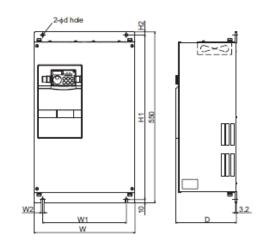


Inverter model	Η	H1	H2	D	D1
FR-F840-7.5K, 11K	260	245	1.5	170	84
FR-F840-15K, 18.5K	300	285	3	190	101.5

■FR-F740(P)-22K, 30K



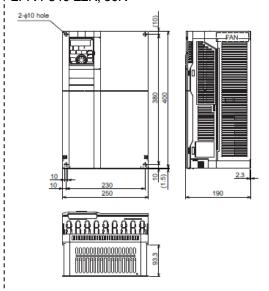
■FR-F740(P)-37K, 45K, 55K



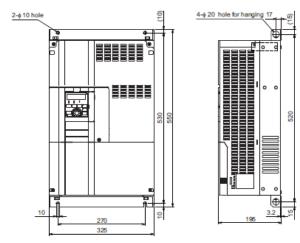
1	Inverter model	W	W1	W2	Ι	H1	H2
	FR-F740(P)-37K	325	270	10	550	530	10
	FR-F740(P)-45K, 55K	435	380	12	550	525	15

Inverter model	d	D
FR-F740(P)-37K	10	195
FR-F740(P)-45K, 55K	12	250

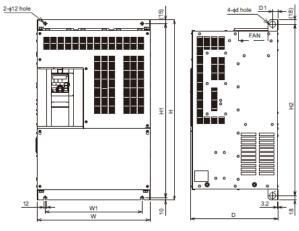
■FR-F840-22K, 30K



■FR-F840-37K



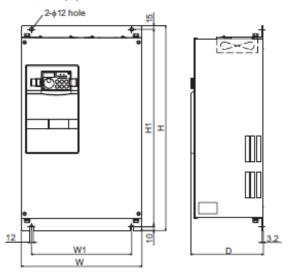
■FR-F840-45K, 55K



Inverter model	W	W1	Н	H1	H2
FR-F840-45K, 55K	435	380	550	525	514

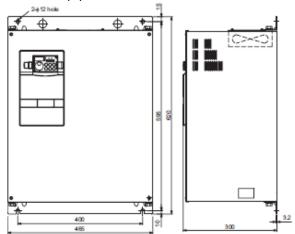
Inverter model	d	D	D1
FR-F840-45K. 55K	25	250	24

■FR-F740(P)-75K, 90K

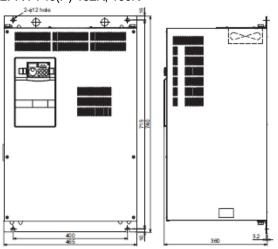


Inverter model	W	W1	Н	H1	D
FR-F740(P)-75K	435	380	550	525	250
FR-F740(P)-90K	465	400	620	595	300

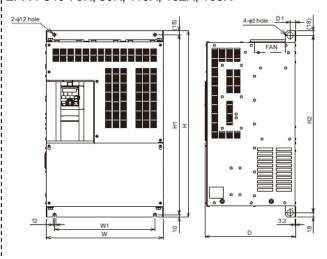
■FR-F740(P)-110K



■FR-F740(P)-132K, 160K



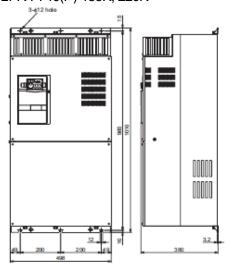
■FR-F840-75K, 90K, 110K, 132K, 160K



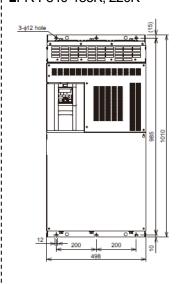
Inverter model	W	W1	Н	H1	H2
FR-F840-75K	435	380	550	525	514
FR-F840-90K, 110K	465	400	620	595	584
FR-F840-132K, 160K	465	400	740	715	704

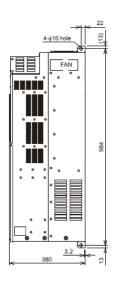
Inverter model	d	D	D1
FR-F840-75K	25	250	24
FR-F840-90K, 110K	24	300	22
FR-F840-132K, 160K	25	360	22

■FR-F740(P)-185K, 220K

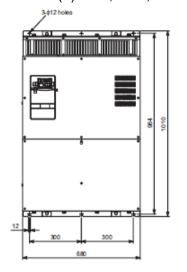


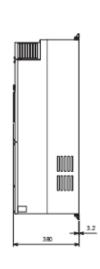
■FR-F840-185K, 220K



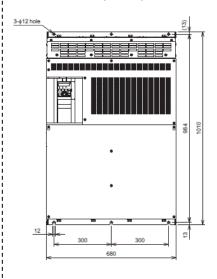


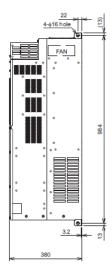
■FR-F740(P)-250K, 280K, 315K





■FR-F840-250K, 280K, 315K





3. CONNECTION

The wiring of the new inverters can follow the one of the existing inverters as the terminal names between them are almost the same.

Туре)	F700(P) terminal name	F800 compatible terminal name				
		R/L1, S/L2, T/L3	R/L1, S/L2, T/L3				
		U, V, W	U, V, W				
		R1/L11, S1/L21	R1/L11, S1/L21				
Main air			P/+, N/-				
Main cir	Cuit	P/+, N/-	P3, N/- *1				
		P/+, P1	P/+, P1				
		PR, PX (Cannot be used)	PR, PX (Cannot be used)				
		+	(4)				
		STF	STF				
		STR	STR				
		STOP	STP (STOP)				
		RH	RH				
		RM	RM				
		RL	RL				
Control circuit	Contact	JOG	JOG				
input signal	Contact	RT	RT				
		AU *2	AU				
		CS	CS				
		MRS	MRS				
		RES	RES				
		SD	SD				
		PC	PC				
		10E	10E				
		10	10				
Analog	Frequency	2	2				
Arialog	setting	4	4				
		1	1				
		5	5				
	Polov	A1, B1, C1	A1, B1, C1				
	Relay	A2, B2, C2	A2, B2, C2				
		RUN	RUN				
		SU	SU				
Control circuit	Open	OL	OL				
output signal	collector	IPF	IPF				
		FU	FU				
		SE	SE				
	Pulse	FM	FM				
	Analog	AM	AM				
Communication	RS-485	PU connector	PU connector				
Signal for the	brake unit	CN8 (equipped in 75K or higher)	None				
*1 For the FR F820	0 19 5K to 30	K and the ED EQ40 22K to 75K conn	ect a brake unit between terminals P3 and				

 $^{^{*}1}$ For the FR-F820-18.5K to 30K and the FR-F840-22K to 75K, connect a brake unit between terminals P3 and N/-.

^{*2} When a PTC thermistor is connected between terminals AU and SD with the AU/PTC switch set to PTC for the FR-F700(P), connect the thermistor between terminals 10 and 2 for the FR-F800.

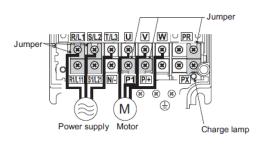
Main circuit terminal layout

The following shows the main circuit terminal layouts of the FR-F700(P) series and FR-F800 series. The main circuit terminal layout and the position of the earth (ground) terminal may differ depending on the capacity. Check the terminal names and positions before performing wiring.

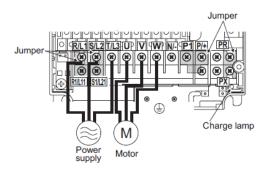
When the cable used for the FR-F700(P) series is too short for the FR-F800 series, prepare the longer one. The terminal screw size may differ depending on the capacity. Check the terminal screw size before performing wiring.

[200 V class]

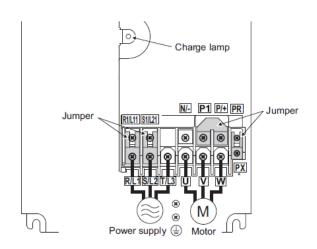
■FR-F720(P)-0.75K, 1.5K



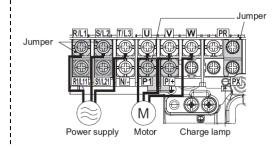
■FR-F720(P)-2.2K, 3.7K, 5.5K



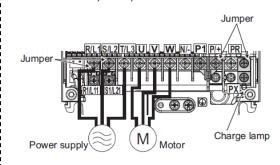
■FR-F720(P)-7.5K, 11K



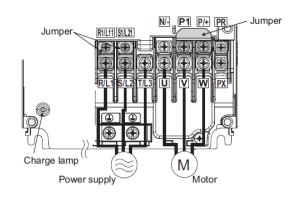
■FR-F820-0.75K, 1.5K



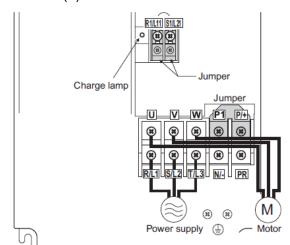
■FR -F820-2.2K, 3.7K, 5.5K



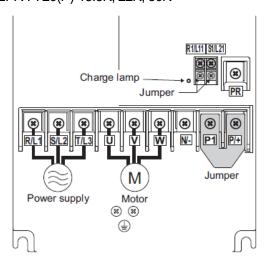
■FR-F820-7.5K, 11K



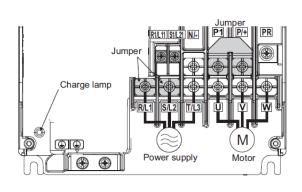
■FR-F720(P)-15K



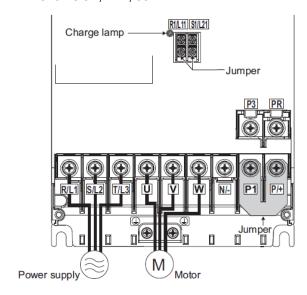
■FR-F720(P)-18.5K, 22K, 30K



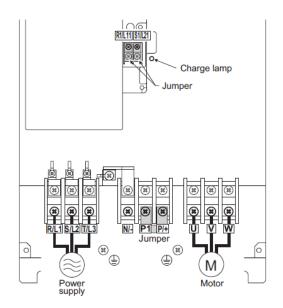
■FR-F820-15K



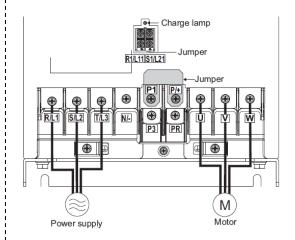
■FR-F820-18.5K, 22K, 30K



■FR-F720(P)-37K, 45K, 55K

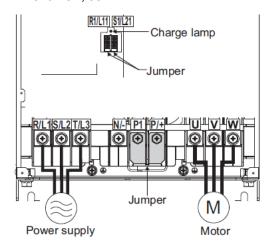


■FR-F820-37K

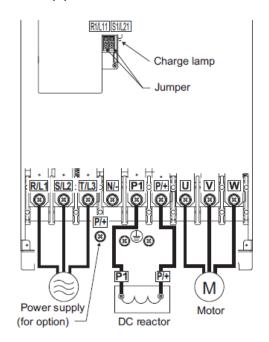


(Note) Terminals P3 and PR of the FR-F820-37K are not equipped with screws. Do not connect anything to these.

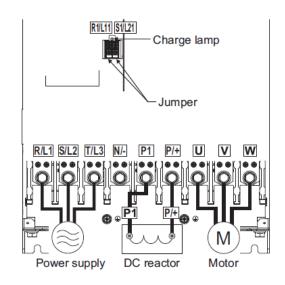
■FR-F820-45K, 55K



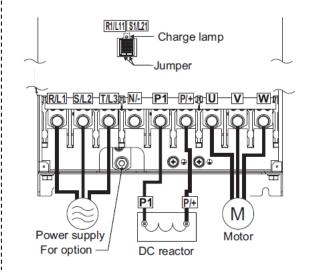
■FR-F720(P)-75K, 90K, 110K



■FR-F820-75K

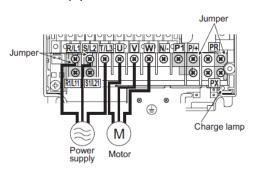


■FR-F820-90K, 110K

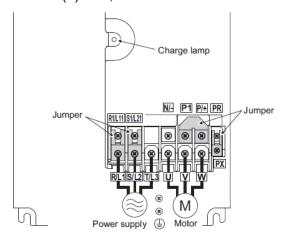


[400 V class]

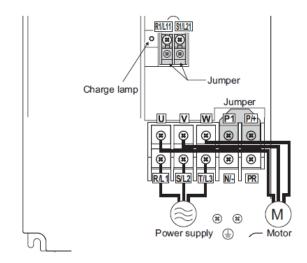
■FR-F740(P)-0.75K, 1.5K, 2.2K, 3.7K, 5.5K



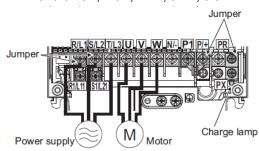
■FR-F740(P)-7.5K, 11K



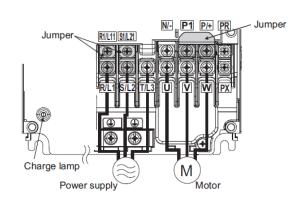
■FR-F740(P)-15K, 18.5K



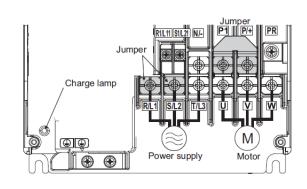
■FR-F840-0.75K, 1.5K, 2.2K, 3.7K, 5.5K



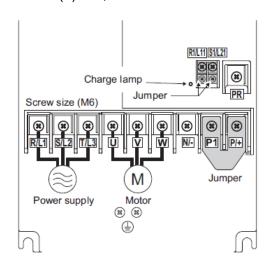
■FR-F840-7.5K, 11K



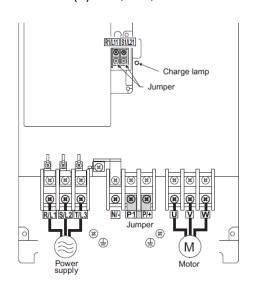
■FR-F840-15K, 18.5K



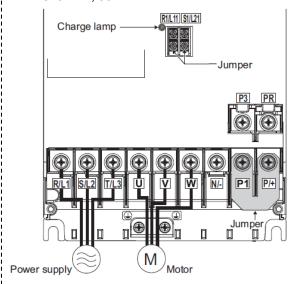
■FR-F740(P)-22K, 30K



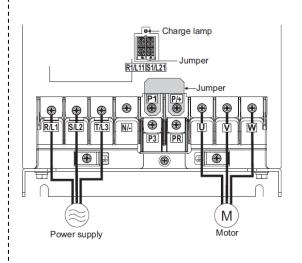
■FR-F740(P)- 37K, 45K, 55K



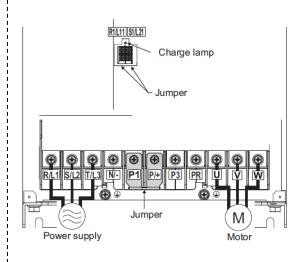
■FR-F840-22K, 30K



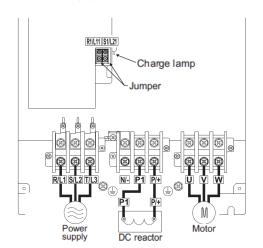
■FR-F840-37K



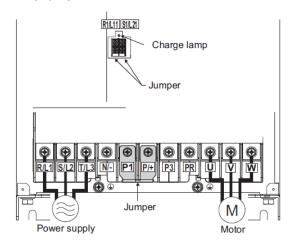
■FR-F840-45K, 55K



■FR-F740(P)-75K, 90K, 110K

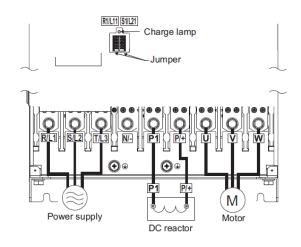


! ■FR-F840-75K

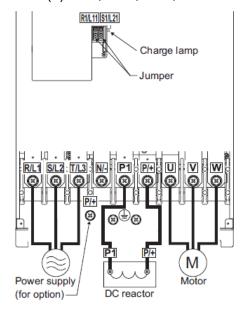


(Note) For FR-F840-75K, a jumper is not installed across terminals P1 and P/+. Always connect a DC reactor (FR-HEL), which is available as an option, across the terminals P1 and P/+.

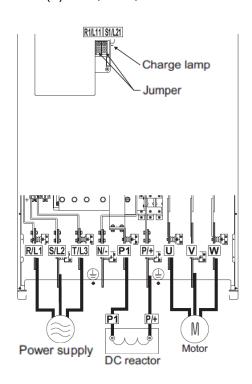
■FR-F840-90K, 110K



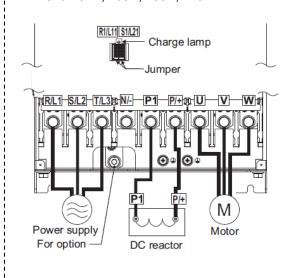
■FR-F740(P)-132K, 160K, 185K, 220K



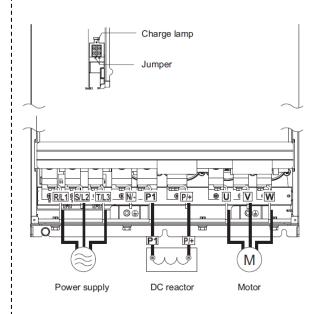
■FR-F740(P)-250K, 280K, 315K



■FR-F840-132K, 160K, 185K, 220K



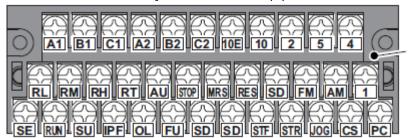
¦■FR-F840-250K, 280K, 315K



Control circuit terminal layout

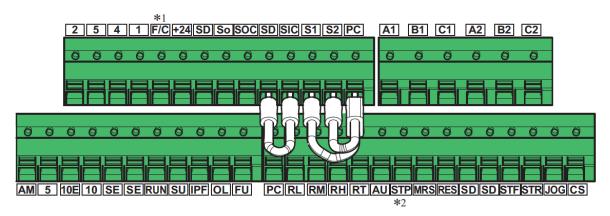
The following shows the control circuit terminal layouts of the FR-F700(P) series and the FR-F800 series. The control circuit terminal layout differs between the FR-F700(P) and the FR-F800 series. Check the terminal names and positions before performing wiring.

■ Control circuit terminal layout of the FR-F700(P) series



Terminal screw size: M3.5 Tightening torque: 1.2 N·m

■ Control circuit terminal layout of the FR-F800 series



- *1) This terminal operates as the terminal FM for the FM type inverter, and as the terminal CA for the CA type inverter.
- *2) Represents the terminal STOP.

The control circuit terminal block intercompatibility attachment (FR-A8TAT) can be used for installing control circuit terminal blocks of the FR-F700(P) series. However, some restrictions apply for the installation. Refer to the FR-F800 catalog for the descriptions on the FR-A8TAT.

♦Wiring method

· Power supply connection

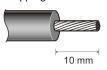
For the control circuit wiring, strip off the sheath of a cable, and use it with a blade terminal. For a single wire, strip off the sheath of the wire and apply directly.

Insert the blade terminal or the single wire into a socket of the terminal.

(1)Strip off the sheath for the below length. If the length of the sheath peeled is too long, a short circuit may occur with neighboring wires. If the length is too short, wires might come off.

Wire the stripped cable after twisting it to prevent it from becoming loose. In addition, do not solder it.







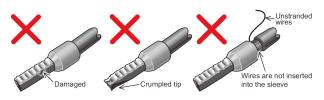


(2)Crimp the blade terminal.

Insert wires to a blade terminal, and check that the wires come out for about 0 to 0.5 mm from a sleeve.

Check the condition of the blade terminal after crimping. Do not use a blade terminal of which the crimping is inappropriate, or the face is damaged.





Blade terminals commercially available (as of February 2012)
 Phoenix Contact Co., Ltd.

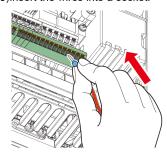
Cable gauge		Crimping tool				
(mm ²)	With insulation sleeve	Without insulation sleeve	insulation sleeve For UL wire*1			
0.3	AI 0,5-10WH	_	_			
0.5	AI 0,5-10WH	_	AI 0,5-10WH-GB			
0.75	AI 0,75-10GY	A 0,75-10	AI 0,75-10GY-GB	CRIMPFOX 6		
1	AI 1-10RD	A 1-10	AI 1-10RD/1000GB	CRIMPPOX		
1.25, 1.5	AI 1,5-10BK	A 1,5-10	AI 1,5-10BK/1000GB*2			
0.75 (for two wires)	AI-TWIN 2 × 0,75-10GY	_	_			

- *1 A blade terminal with an insulation sleeve compatible with the MTW wire which has a thick wire insulation.
- *2 Applicable for the terminal A1, B1, C1, A2, B2, C2.

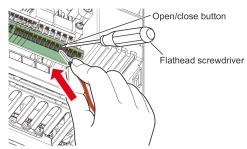
NICHIFU Co., Ltd.

Cable gauge (mm²)	Blade terminal product number	Insulation product number	Crimping tool product number
0.3 to 0.75	BT 0.75-11	VC 0.75	NH 69

(3)Insert the wires into a socket.



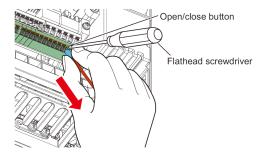
When using a single wire or stranded wires without a blade terminal, push the open/close button all the way down with a flathead screwdriver, and insert the wire.





- When using stranded wires without a blade terminal, twist enough to avoid short circuit with a nearby terminals or wires.
- Place the flathead screwdriver vertical to the open/close button. In case the blade tip slips, it may cause an inverter damage or injury.

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





- 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 February 2012)

Name	Model	Manufacturer
Driver	SZF 0- 0,4 × 2,5	Phoenix Contact Co., Ltd.

 Place the flathead screwdriver vertical to the open/close button. In case the blade tip slips, it may cause an inverter damage or injury.

4. 1. Parameter List

Although most parameter numbers are the same, some setting values differ. Refer to the following table to set the parameters.

List of FR-F800 series parameters compatible with the FR-F700(P) series

The following table shows the parameter settings required when replacing an FR-F700(P) series inverter by an FR-F800 series inverter.

When an FR-F700(P) series parameter is set to a value other than the initial value, set the corresponding FR-F800 parameter according to the following table.

When an FR-F700(P) series parameter is set to an initial value, it is usually not necessary to change the corresponding FR-F800 series parameter setting.

The parameters with Δ are used for adjustment. Set them as required.

FR-F700(P) parameter list

parameters are the functions that were added to the FR-F700P series inverter.

The parameter replacement following the table below does not guarantee the inverter characteristics or performance.

The parameter number of the parameters differs from that of the FR-F700(P) series inverter.

FR-F800 compatible parameter

FR-F800.

O: Set the FR-F700(P) parameter as it is.

 Δ : Change the FR-F700(P) parameter and set.

Parameter setting

×: Adjust or set the FR-F800 parameter.

		oo(i) paramotor not				compatible parameter			r drameter county
Pr.	Name	Setting range	Initial value	Pr.	Name	Setting range	Initial value	Setting	Remarks
0	Torque boost	0 to 30%	0.75K: 6% 1.5K to 3.7K: 4% 5.5K, 7.5K: 3% 11K to 37K: 2% 45K, 55K: 1.5% 75K or higher: 1%	0	Torque boost	0 to 30%	0.75K: 6% 1.5K to 3.7K: 4% 5.5K, 7.5K: 3% 11K to 37K: 2% 45K, 55K: 1.5% 75K or higher: 1%	Δ	Basically, the FR-F700(P) parameter can be used as it is. Set the parameter according to the device as required.
1	Maximum frequency	0 to 120 Hz	120 Hz / 60 Hz	1	Maximum frequency	0 to 120 Hz	120 Hz / 60 Hz	•	
2	Minimum frequency	0 to 120 Hz	0 Hz	2	Minimum frequency	0 to 120 Hz	0 Hz	•	
3	Base frequency	0 to 400 Hz	60 Hz	3	Base frequency	0 to 590 Hz	60 Hz	•	
4	Multi-speed setting (high speed)	0 to 400 Hz	60 Hz	4	Multi-speed setting (high speed)	0 to 590 Hz	60 Hz	•	
5	Multi-speed setting (middle speed)	0 to 400 Hz	30 Hz	5	Multi-speed setting (middle speed)	0 to 590 Hz	30 Hz	•	
6	Multi-speed setting (low speed)	0 to 400 Hz	10 Hz	6	Multi-speed setting (low speed)	0 to 590 Hz	10 Hz	•	
7	Acceleration time	0 to 3600 s / 0 to 360 s	5s/15s	7	Acceleration time	0 to 3600 s	5s/15s	•	Changing Pr.21 after setting this parameter will change the set value.
8	Deceleration time	0 to 3600 s / 0 to 360 s	10 s / 30 s	8	Deceleration time	0 to 3600 s	10 s / 30 s	•	Changing Pr.21 after setting this parameter will change the set value.
9	Electronic thermal O/L relay	55K or lower: 0 to 500 A 75K or higher: 0 to 3600 A	Rated output current	9	Electronic thermal O/L relay	55K or lower: 0 to 500 A 75K or higher: 0 to 3600 A	Rated output current	•	Set the rated motor current.
10	DC injection brake operation frequency	0 to 120 Hz, 9999	3 Hz	10	DC injection brake operation frequency	0 to 120 Hz, 9999	3 Hz	•	
11	DC injection brake operation time	0 to 10 s	0.5 s	11	DC injection brake operation time	0 to 10 s, 8888	0.5 s	•	
12	DC injection brake operation voltage	0 to 30%	7.5K or lower: 4% 11K to 55K: 2% 75K or higher: 1%	12	DC injection brake operation voltage	0 to 30%	7.5K or lower: 4% 11K to 55K: 2% 75K or higher: 1%	Δ	Basically, the FR-F700(P) parameter can be used as it is. Set the parameter according to the device as required.
13	Starting frequency	0 to 60 Hz	0.5 Hz	13	Starting frequency	0 to 60 Hz	0.5 Hz	•	
14	Load pattern selection	0, 1	1	14	Load pattern selection	0, 1	1	•	
15	Jog frequency	0 to 400 Hz	5 Hz	15	Jog frequency	0 to 590 Hz	5 Hz	•	
16	Jog acceleration/deceleration time	0 to 3600 s / 0 to 360 s	0.5 s	16	Jog acceleration/deceleration time	0 to 3600 s	0.5 s	•	Changing Pr.21 after setting this parameter will change the set value.
17	MRS input selection	0, 2, <mark>4</mark>	0	17	MRS input selection	0, 2, 4	0	•	
18	High speed maximum frequency	120 to 400 Hz	55K or lower: 120 Hz 75K or higher: 60 Hz	18	High speed maximum frequency	0 to 590 Hz	55K or lower: 120 Hz 75K or higher: 60 Hz	•	
19	Base frequency voltage	0 to 1000 V, 8888, 9999	9999	19	Base frequency voltage	0 to 1000 V, 8888, 9999	9999	•	
20	Acceleration/deceleration reference frequency	1 to 400 Hz	60 Hz	20	Acceleration/deceleration reference frequency	1 to 590 Hz	60 Hz	•	
21	Acceleration/deceleration time increments	0, 1	0	21	Acceleration/deceleration time increments	0, 1	0	•	
22	Stall prevention operation level	0 to 150%, 9999	120%	22	Stall prevention operation level	0 to 400%	120%	Δ	When the FR-F700(P) setting is "9999", set Pr.868 = "4" and use the initial setting of Pr.22 for the

BCN-C21002-171K

Pr. Name Setting range Initial value Pr. Name Setting range Initial value Setting Remarks Stall prevention operation level compensation factor at double speed of the compensation factor at double		FR-F70	00(P) parameter list			FR-F800 cc	ompatible parameter		Parameter setting		
25 Self procention operation loved on the part of the block of the part of	Pr.	,		Initial value	Pr.			Initial value	Setting	9	
Multi-speed earling of speed 0 to 400 Ft, 0006 0 0000 2	23	Stall prevention operation level				Stall prevention operation level			Ŭ	7,071,011,0	
25 Multispend sating (5 speed) O to 400 to 500 to 50	24		0 to 400 Hz, 9999	9999	24		0 to 590 Hz, 9999	9999	•		
20	25		0 to 400 Hz, 9999	9999	25	, , ,	0 to 590 Hz, 9999	9999	•		
28	26		0 to 400 Hz, 9999	9999	26	,	0 to 590 Hz, 9999	9999	•		
Accessman Color	27	Multi-speed setting (7 speed)	0 to 400 Hz, 9999	9999	27	Multi-speed setting (speed 7)	0 to 590 Hz, 9999	9999	•		
Selection	28	selection	0, 1	0	28	selection	0, 1	0	•		
Regenerable function selection	29		0, 1, 2, 3, <mark>6</mark>	0	29		0 to 3, 6	0	•		
1.00 1.00			0, 1, 2, <mark>10, 11, 20, 21</mark> : 75K or higher	,		, and the second	110, 111, 120, 121			in the parameter frequency setting, select the frequency display to change the setting. After the setting, select the machine speed display	
33 Frequency Jump 2A			,				,				
34 Frequency Jump 2B 0 to 40014z 9999 9999 35 Frequency Jump 3A 0 to 59014z 9999 9999 0			,				,				
Second deceleration time			•				*				
36 Prequency Jump 3B 0 to 400 Hz, 9999 9999 36 Prequency Jump 3B 0 to 590 Hz, 9999 9999 0			•				,				
37 Speed display 0.1 to 9998 0 1 to 9999 0 1 to			*				,				
41 Ubbe-frequency sensitivity			•			. , , .	,				
August A	_	1 7	,				,				
43 Criestes roblation for reviewers roblation for roblation for reviewers roblation for reviewers roblation for reviewers roblation for roblation for reviewers roblation for roblation for roblation for roblation for roblation for roblation fo		, , ,									
1-3 reverse rotation 1-3 reverse rotat	42		0 to 400 Hz	6 HZ	42		0 to 590 Hz	6 HZ	•		
time	43	reverse rotation	•	9999	43	reverse rotation	0 to 590 Hz, 9999	9999	•	Charging Dr. 24 often acting this parameter	
45 Second torque boost 0 to 360 s, 9999 9999 45 Second torque boost 0 to 30%, 9999 9999 0	44		0 to 360 s	5 s	44		0 to 3600 s	5 s	•	will change the set value.	
48 Second VIF (base frequency) 0 to 400 Hz, 9999 9999 47 Second VIF (base frequency) 0 to 590 Hz, 9999 9999 0			0 to 360 s, 9999		45		ŕ				
Second stall prevention operation 10 to 150% 120% 48 Second stall prevention operation 10 to 400% 120% ©	46	•	,		46	•	•				
49 Second stail prevention operation 0 to 400 Hz, 9999 0 Hz 49 Second stail prevention operation 0 to 590 Hz, 9999 0 Hz 0	47	` ;	0 to 400 Hz, 9999	9999	47	. ,	0 to 590 Hz, 9999	9999	•		
Fequency 100 400 Hz 30 Hz 50 Second output frequency detection 25K or lower: 0 to 500 A	48	current	0 to 150%	120%	48	level	0 to 400%	120%	•		
Second electronic thermal O/L relay S5K or lower: 0 to 500 A 75K or higher: 0 to 3600 A 50K or hig	3	frequency			70	frequency	·				
Second electronic thermal UL relay 75K or higher: 0 to 3600 A 9999 51 Second electronic thermal UL relay 75K or higher: 0 to 3600 A 9999 52	50	Second output frequency detection	0 to 400 Hz	30 Hz	50	Second output frequency detection	0 to 590 Hz	30Hz	•		
S2 DU/PU main display data selection DU/PU main display data selection S7, 100 S2 Operation patient main motion Selection S6, 68, 81 to 96, 98, 100 Selection S6, 68, 81 to 96, 98, 100 Selection S6, 68, 81 to 96, 98, 100 S6, 69, 98, 100 S6, 68, 81 to 96, 98, 100 S6, 69, 10	51	Second electronic thermal O/L relay		9999	51	Second electronic thermal O/L relay		9999	•		
54 FM terminal function selection 55 Frequency monitoring reference 55 Frequency monitoring reference 56 Current monitoring reference 57 Restart coasting time 58 Restart cushion time 59 Remote function selection 50 S2, 53, 61, 62, 67, 70, 85, 87 to 90, 92, 93, 95, 98 55 Frequency monitoring reference 55 For lower: 0 to 500 A 75 For lower:	52	DU/PU main display data selection		0	52		38, 40 to 45, 50 to 57, 61, 62, 64, 67, 68, 81 to 96, 98, 100	0	•		
Current monitoring reference 55K or lower: 0 to 500 A 75K or higher: 0 to 3600 A Rated output current 56	54		53	ı	54	FM/CA terminal function selection	50, 52, 53, 61, 62, 67, 70, 85, 87 to 90, 92, 93, 95, 98	1			
Current monitoring reference 75K or higher: 0 to 3600 A current 55 Restart coasting time 55K or lower: 0, 0.1 to 5 s, 9999 75K or higher: 0.01 to 30 s, 9999 57 Restart coasting time 0, 0.1 to 30 s, 9999 57	55	Frequency monitoring reference			55	Frequency monitoring reference			0		
57 Restart coasting time 58 Restart cushion time 59 Remote function selection 60 Energy saving control selection 65 Retry selection 66 Stall prevention operation reduction 67 Restart coasting time 9999 57 Restart coasting time 9999 57 Restart coasting time 9999 57 Restart coasting time 9999 9999 9999 9999 9999 9999 9999	56	Current monitoring reference			56	Current monitoring reference			•		
59 Remote function selection 0, 1, 2, 3, 11, 12, 13 0 59 Remote function selection 0 to 3, 11 to 13 0 © 60 Energy saving control selection 0, 4, 9 0 © 65 Retry selection 0 to 5 0 65 Retry selection 0 to 5 0 © 65 Stall prevention operation reduction 0 to 50 Hz 66 Stall prevention operation reduction 0 to 500 Hz 60 Hz 60 Hz 66	57	· ·	75K or higher: 0.01 to 30 s, 9999		57	<u> </u>			•	terminal, the restart operation is enabled at	
60 Energy saving control selection 0, 4, 9 0 60 Energy saving control selection 0, 4, 9 0 © 65 Retry selection 0 to 5 0 65 Retry selection 0 to 5 0 0 © 66 Stall prevention operation reduction 0 to 400 Hz 66 Stall prevention operation reduction 0 to 500 Hz 60 Hz	58	Restart cushion time		1.0 s	58	Restart cushion time		1.0 s			
65 Retry selection 0 to 5 0 65 Retry selection 0 to 5 0 © 68 Stall prevention operation reduction 0 to 400 Hz 66 Stall prevention operation reduction 0 to 500 Hz 60 Hz	59	Remote function selection	0, 1, 2, 3, <mark>11, 12, 13</mark>	0	59	Remote function selection	0 to 3, 11 to 13	0			
Stall prevention operation reduction O to 400 Hz 66 Stall prevention operation reduction O to 500 Hz 60 Hz	60	Energy saving control selection	0, 4, 9	0	60	Energy saving control selection	0, 4, 9	0	•		
	65	Retry selection	0 to 5	0	65	Retry selection	0 to 5	0	•		
	66		0 to 400 Hz	60 Hz	66		0 to 590 Hz	60 Hz	•		

	FR-F700(P	P) parameter list		FR-F800 compatible parameter					Parameter setting		
Pr.	Name	Setting range	Initial value	Pr.	Name	Setting range	Initial value	Setting	Remarks		
67	Number of retries at fault occurrence	0 to 10, 101 to 110	0	67	Number of retries at fault occurrence	0 to 10, 101 to 110	0	⊙			
68	Retry waiting time	0 to 10 s	1 s	68	Retry waiting time	0.1 to 600 s	1 s	Δ	FR-F700(P) \rightarrow FR-F800 0 \rightarrow 0.1 s		
69	Retry count display erase	0	0	69	Retry count display erase	0	0	×			
70	Special regenerative brake duty	75K or higher: 0 to 10%	0%	70	Special regenerative brake duty	0 to 100%	0%	•			
71	Applied motor	0, 1, 2, 20, <mark>120, 210, 2010, 2110</mark>	0	71	Applied motor	0 to 6, 13 to 16, 20, 23, 24, 40, 43, 44, 50, 53, 54, 70, 73, 74, 210, 213, 214, 8090, 8093, 8094, 9090, 9093, 9094	0	Δ	Set as follows: "120" for the F700(P) → "8090" for the F800		
72	PWM frequency selection	55K or lower: 0 to 15 75K or higher: 0 to 6, 25	2	72	PWM frequency selection	55K or lower: 0 to 15 75K or higher: 0 to 6, 25	2	•			
73	Analog input selection	0 to 7, 10 to 17	1	73	Analog input selection	0 to 7, 10 to 17	1	•			
74	Input filter time constant	0 to 8	1	74	Input filter time constant	0 to 8	1	•			
75	Reset selection/disconnected PU detection/PU stop selection	0 to 3, 14 to 17	14	75	Reset selection/disconnected PU detection/PU stop selection	55K or lower: 0 to 3, 14 to 17 75K or higher: 0 to 3, 14 to 17, 100 to 103, 114 to 117	14	•			
76	Fault code output selection	0, 1, 2	0	76	Fault code output selection	0, 1, 2	0	•			
77	Parameter write selection	0, 1, 2	0	77	Parameter write selection	0, 1, 2	0	•			
78	Reverse rotation prevention selection	0, 1, 2	0	78	Reverse rotation prevention selection	0, 1, 2	0	•			
79	Operation mode selection	0 to 4, 6 to 7	0	79	Operation mode selection	0 to 4, 6 to 7	0	•			
				80	Motor capacity	55K or lower: 0.4 to 55 kW, 9999 75K or higher: 0 to 3600 kW, 9999	9999	•			
80	Motor capacity	55K or lower: 0.4 to 55 kW, 9999 75K or higher: 0 to 3600 kW,	9999	81	Number of motor poles	2, 4, 6, 8, 10, 12, 9999	9999	×	When Pr.80 ≠ "9999" for the FR-F800, set this parameter according to the motor.		
	Motor capacity	9999		89	Speed control gain	0 to 200%, 9999	9999	×	When Pr.80 ≠ "9999" and Pr.71 ≠ "120, 210, 2010, or 2110" for the FR-F700(P), set Pr.81 = "4" and Pr.89 = "0" for the FR-F800.		
90	Motor constant (R1)	55K or lower: 0 to 50 Ω , 9999 75K or higher: 0 to 400 m Ω , 9999	9999	90	Motor constant (R1)	55K or lower: 0 to 50 Ω , 9999 75K or higher: 0 to 400 m Ω , 9999	9999	•			
				95	Online auto tuning selection	0 to 2	0	•			
				96	Auto tuning setting/status	0, 1, 11, 101	0	Δ	If auto tuning has been performed, perform tuning again as required.		
100	V/F1 (first frequency)	0 to 400 Hz, 9999	9999	100	V/F1 (first frequency)	0 to 590 Hz, 9999	9999	•			
101	V/F1 (first frequency voltage)	0 to 1000 V	0 V	101	V/F1 (first frequency voltage)	0 to 1000 V	0 V	•			
102	V/F2 (second frequency)	0 to 400 Hz, 9999	9999	102	V/F2 (second frequency)	0 to 590 Hz, 9999	9999	•			
103	V/F2 (second frequency voltage)	0 to 1000 V	0 V	103	V/F2 (second frequency voltage)	0 to 1000 V	0 V	•			
104	V/F3 (third frequency)	0 to 400 Hz, 9999	9999	104	V/F3 (third frequency)	0 to 590 Hz, 9999	9999	•			
105	V/F3 (third frequency voltage)	0 to 1000 V	0 V	105	V/F3 (third frequency voltage)	0 to 1000 V	0 V	•			
106	V/F4 (fourth frequency)	0 to 400 Hz, 9999	9999	106	V/F4 (fourth frequency)	0 to 590 Hz, 9999	9999	•			
107	V/F4 (fourth frequency voltage)	0 to 1000 V	0 V	107	V/F4 (fourth frequency voltage)	0 to 1000 V	0 V	•			
108	V/F5 (fifth frequency)	0 to 400 Hz, 9999	9999	108	V/F5 (fifth frequency)	0 to 590 Hz, 9999	9999	•			
109	V/F5 (fifth frequency voltage)	0 to 1000 V	0 V	109	V/F5 (fifth frequency voltage)	0 to 1000 V	0 V	•			

Process		FR-F700(P) para	meter list		FR-F800 compatible parameter				Parameter setting		
1972 P. Izermanization number 0.15 0.15 1972	Pr			Initial value	Pr.	•	<u>'</u>	Initial value	Setting	<u> </u>	
119 PU communication speed 48, 96, 192, 394 192 119 PU communication speed 48, 96, 192, 394 192 193 PU communication speed 48, 96, 192, 394 192 193 PU communication speed 48, 96, 192, 394 192 193 PU communication speed 48, 96, 192, 394 192 193 PU communication speed 48, 96, 192, 394 192 193 PU communication speed 48, 96, 192, 394 192 193 PU communication speed 48, 96, 192, 394 192 193 PU communication speed 48, 96, 192, 394 192 193 PU communication speed 48, 96, 192, 394 192 193 PU communication speed 48, 96, 192, 394 192 193 PU communication speed 48, 96, 192, 394 PU communicati			ŭ ŭ							romano	
10 P. Commission party enters 1 1 2 1 2 1 2 1 2 1 2 2				-			48, 96, 192, 384, 576, 768,				
Number of PL communication review Ou 10,000 00	119	PU communication stop bit length	0, 1, 10, 11	1	119	PU communication stop bit length / data length	0, 1, 10, 11	1	•		
PU communication check three interval	120	PU communication parity check		2	120		, ,	2	•		
Proceedings Procedings Proceedings Procedings Proceedings Pr	121	Number of PU communication retries	0 to 10, 9999	1	121		0 to 10, 9999	1	•		
Selfing	122		0, 0.1 to 999.8 s, 9999	9999	122	interval	0, 0.1 to 999.8 s, 9999	9999	•		
Teamwise 2 Requency setting gain O to 400 Hz 60 Hz 125 Requency setting gain O to 500 Hz 60 Hz 0 Requency setting gain O to 500 Hz 60 Hz 0 Requency setting gain O to 500 Hz 60 Hz 0 Requency setting gain O to 500 Hz 60 Hz 0 Requency Requency setting gain O to 500 Hz 60 Hz 0 Requency Requency setting gain O to 500 Hz 60 Hz 0 Requency Requency setting gain O to 500 Hz 60 Hz 0 Requency Requency setting gain O to 500 Hz 60 Hz 0 Requency	123	setting	0 to 150 ms, 9999	9999	123	setting	0 to 150 ms, 9999	9999	•		
Processor Proc	124		0, 1, 2	1	124		0, 1, 2	1	•		
Taminian 4 Requirely setting gain	125		0 to 400 Hz	60 Hz	125		0 to 590 Hz	60 Hz	•		
PiD control automatic switchover PiD control switchower PiD control sw		Terminal 4 frequency setting gain				Terminal 4 frequency setting gain			•		
100 100	407		0 to 400 LI= 0000	0000	407		0 to 500 LI= 0000	0000	-		
PID action selection	127		0 to 400 Hz, 9999	9999	127		0 to 590 Hz, 9999	9999	•		
130 PID integral time		PID action selection	110, 111, 120, 121				61, 70, 71, 80, 81, 90, 91, 100, 101, 1000, 1001, 1010, 1011, 2000, 2001, 2010, 2011	-		"14" (X14 signal) is set in a parameter from Pr.178 to Pr.189 in the FR-F700(P), set "0" in Pr.128 in the FR-F800. When the X14 signal is not assigned to any input terminal, just set Pr.128 to enable PID control in the	
131 PID upper limit 0 to 100%, 9999 9999 131 PID upper limit 0 to 100%, 9999 9999 0 132 PID lower limit 0 to 100%, 9999 9999 0 134 PID differential time 0 to 100%, 9999 9999 134 PID differential time 0 to 100%, 9999 9999 134 PID differential time 0 to 100%, 9999 9999 134 PID differential time 0 to 100%, 9999 9999 134 PID differential time 0 to 100%, 9999 9999 134 PID differential time 0 to 100%, 9999 9999 134 PID differential time 0 to 100%, 9999 9999 134 PID differential time 0 to 100%, 9999 9999 134 PID differential time 0 to 100%, 9999 9999 134 PID differential time 0 to 100%, 9999 9999 135 PID differential time 0 to 100%, 9999 9999 136 PID differential time 0 to 100%, 9999 9999 137 PID differential time 0 to 100%, 9999 9999 139 PID differential time 0 to 100%, 9999 9999 139 PID differential time 0 to 100%, 9999 9999 139 PID differential time 0 to 100%, 9999 9999 139 PID differential time 0 to 100%, 9999 9999 139 PID differential time 0 to 100%, 9999 9999 139 PID differential time 0 to 100%, 9999 9999 139 PID differential time 0 to 100%, 9999 9999 139 PID differential time 0 to 100%, 9999 9999 139 PID differential time 0 to 100%, 9999 9999 139 PID differential time 0 to 100%, 9999 9999 139 PID differential time 0 to 300%, 9999 139 PID differential time 0 to 300%, 9999 139 PID differential time 0 to 300%, 9999 9999 139 PID differential time 0 to 300%, 9999 139 PID differential time 0 to 300%, 9999 9999 139 PID differential time 0 to 300%, 9999 9999 139 PID differential time 0 to 300%, 9999 9999 139 PID differential time 0 to 300%, 9999 9999 PID differential time 0 to 300%, 99			,				,				
132 PID lower limit 0 to 100%, 9999 9999 132 PID oxide limit 0 to 100%, 9999 9999 0 133 PID action set point 0 to 100%, 9999 9999 134 PID differential time 0.01 to 10.00 s, 9999 9999 134 PID differential time 0.01 to 10.00 s, 9999 9999 0 134 PID differential time 0.01 to 10.00 s, 9999 9999 0 135 PID action set point 0.01 to 10.00 s, 9999 9999 0 136 PID action set point 0.01 to 10.00 s, 9999 9999 0 136 PID action set point 0.01 to 10.00 s, 9999 9999 0 136 PID action set point 0.01 to 10.00 s, 9999 9999 0 136 PID action set point 0.01 to 10.00 s, 9999 9999 0 136 PID action set point 0.01 to 10.00 s, 9999 9999 0 136 PID action set point 0.01 to 10.00 s, 9999 9999 0 137 PID action set point 0.01 to 10.00 s, 9999 9999 0 137 PID action set point 0.01 to 10.00 s, 9999 9999 0 137 PID action set point 0.01 to 10.00 s, 9999 9999 0 137 PID action set point 0.01 to 10.00 s, 9999 9999 0 137 PID action set point 0.01 to 10.00 s, 9999 9999 0 138 PID action set point 0.01 to 10.00 s, 9999 9999 0 138 PID action set point 0.01 to 10.00 s, 9999 9999 0 138 PID action set point 0.01 to 10.00 s, 9999 9999 0 138 PID action set point 0.01 to 10.00 s, 9999 9999 0 138 PID action set point 0.01 to 10.00 s, 9999 9999 0 138 PID action set point 0.01 to 10.00 s, 9999 9999 0 138 PID action set point 0.01 to 10.00 s, 9999 9999 0 138 PID action set point 0.01 to 10.00 s, 9999 9999 0 138 PID action set point 0.01 to 10.00 s, 9999 9999 0 138 PID action set point 0.01 to 10.00 s, 9999 9999 0 138 PID action set point 0.01 to 10.00 s, 9999 9999 0 138 PID action set point 0.01 to 10.00 s, 9999 9999 0 138 PID action set point 0.01 to 10.00 s, 9999 9999 0 138 PID action set point 0.01 to 10.00 s, 9999 9999 0 138 PID action set point 0.01		<u> </u>	,			<u> </u>	,				
138 PiD action set point 0 to 100%, 9999 9999 133 PiD differential time 0.01 to 1000 s, 9999 9999 0		• •	•			• •	·				
PID differential time											
135 Electronic bypass sequence selection 0.1 0 135 Electronic bypass sequence 0.1 0 0 0			·				,				
136 MC switchover interlock time			·			Electronic bypass sequence	·				
138 Bypass selection at a fault 0,1 0 138 Bypass selection at a fault 0,1 0 0 0	136	MC switchover interlock time	0 to 100 s	1 s	136		0 to 100 s	1 s	•		
138 Bypass selection at a fault		Start waiting time	0 to 100 s	0.5 s		Start waiting time	0 to 100 s	0.5 s	•		
140	138		0, 1	0	138	Bypass selection at a fault	0, 1	0	•		
Head Frequency 1	139	inverter to bypass operation	0 to 60 Hz, 9999	9999	139	from inverter to bypass operation	0 to 60 Hz, 9999	9999	•		
Backlash deceleration stopping frequency Do to 360 Do to 50 Backlash deceleration stopping frequency Do to 400 Do to 7 Do to 50 Do to 50 Do to 50 Do to 50 Do to 400		frequency				frequency					
142 frequency	141	•	0 to 360 s	0.5 s	141	1. 0	0 to 360 s	0.5 s	•		
144 Speed setting switchover 0, 2, 4, 6, 8, 10, 102, 104, 106, 108, 110 4 144 Speed setting switchover 0, 2, 4, 6, 8, 10, 12, 102, 104, 106, 108, 110, 112 4 0 145 PU display language selection 0 to 7 0 145 PU display language selection 0 to 7 1 0 147 Acceleration/deceleration time switchover frequency 0 to 400 Hz, 9999 9999 147 Acceleration/deceleration time switchover frequency 0 to 400 Hz, 9999 9999 0 148 Stall prevention level at 0V input 0 to 150% 120% 149 Stall prevention level at 0V input 0 to 400% 120% 0 149 Stall prevention level at 10V input 0 to 150% 120% 149 Stall prevention level at 10V input 0 to 400% 150% 0 150 Output current detection level 0 to 150% 120% 150 Output current detection level 0 to 400% 120% 0 151 Output current detection signal delay time 0 to 150% 5% 152 Zero current detection level 0 to 400% 5% 0 152 Zero current detection level 0 to 150% 5% 152 Zero current detection level 0 to 400% 5% 0 153 Zero current detection selection during stall prevention selection during stall prevention operation 0, 1, 10, 11 1 154 Voltage reduction selection during stall prevention operation 0, 1, 10, 11 1 0 185 RT signal function validity condition 0 100 0		frequency				frequency					
144 Speed setting switch over 106, 108, 110 4 144 Speed setting switch over 106, 108, 110, 112 4 6 145 PU display language selection 0 to 7 0 145 PU display language selection 0 to 7 1 6 147 Acceleration/deceleration time switchover frequency 0 to 400 Hz, 9999 9999 147 Acceleration/deceleration time switchover frequency 148 Stall prevention level at 0V input 0 to 150% 120% 148 Stall prevention level at 10 V input 0 to 400% 120% 6 149 Stall prevention level at 10V input 0 to 150% 150% 149 Stall prevention level at 10 V input 0 to 400% 150% 6 150 Output current detection level 0 to 150% 120% 150 0 151 Output current detection signal delay time 0 to 150% 5% 152 Zero current detection level 0 to 400% 5% 6 152 Zero current detection level 0 to 150% 5% 152 Zero current detection level 0 to 400% 5% 6 153 Zero current detection selection during stall prevention operation 0, 1, 10, 11 1 154 Voltage reduction selection during stall prevention operation 0, 1, 10, 11 1 0 155 RT signal function validity condition 0, 10 0 155 RT signal function validity condition 0, 10 0 0 150 0 155 RT signal function validity condition 0, 10 0 150	143	Backlash deceleration stopping time		0.5 s	143	Backlash deceleration stopping time		0.5 s	•		
Acceleration/deceleration time switchover frequency 148 Stall prevention level at 0V input 149 Stall prevention level at 10V input 150 Output current detection signal delay time 151 Zero current detection level 152 Zero current detection level 153 Zero current detection ime 154 Voltage reduction selection during stall prevention operation 155 RT signal function validity condition 156 Stall prevention level at 10V input 157 Ot to 400 Hz, 9999 158 Stall prevention level at 10 V input 158 Ot to 400% 159 Ot to 400% 150 Output current level at 10 V input 150 Output current detection signal delay time 150 Ot to 10 s 151 Output current detection signal delay time 152 Zero current detection level 153 Zero current detection time 154 Voltage reduction selection during stall prevention operation 155 RT signal function validity condition 156 RT signal function validity condition 157 Output current valor time 158 Stall prevention level at 10 V input 159 Ot 400% 150 Ot 400% 150 Output current detection level 155 Output current detection signal delay time 156 Output current detection level 157 Output current detection level 158 Output current detection level 159 Ot 10 s 150 Output current detection level 150 Output current detection level 150 Output current detection level 155 Output current detection level 156 Output current detection level 157 Output current detection level 158 Output current detection level 159 Output current detection level 150 Output		,	106, 108, 110	•			106, 108, 110, 112	4			
switchover frequency 148 Stall prevention level at 0V input 149 Stall prevention level at 10V input 140 Output current detection level 150 Output current detection signal delay time 151 Zero current detection level 152 Zero current detection level 153 Zero current detection level 154 Voltage reduction selection during stall prevention operation 155 RT signal function validity condition 156 Stall prevention level at 0V input 157 Output current detection level 158 Stall prevention level at 10V input 159 Output current detection level 150 Output current detection level 151 Output current detection signal delay time 152 Zero current detection level 153 Zero current detection level 154 Voltage reduction selection during stall prevention operation 155 RT signal function validity condition 156 RT signal function validity condition	145		0 to 7	0	145	. ,	0 to 7	1	•		
Stall prevention level at 10V input 0 to 150% 150% 149 Stall prevention level at 10 V input 0 to 400% 150% 0		switchover frequency	,			switchover frequency	,				
Output current detection level Output current detection signal delay time Output current detection signal delay time Output current detection level Output current detection signal delay time Output current detection signal delay time Output current detection signal delay time Output current detection signal to to 10 s Os Os Os Os Os Os Os Os Os		·	ı			·					
151 Output current detection signal delay time 152 Zero current detection level 153 Zero current detection time 154 Voltage reduction selection during stall prevention operation 155 RT signal function validity condition 156 Output current detection signal delay delay time 157 Output current detection signal delay time 158 Ot 10 s 159 Ot 10 s 150 Output current detection signal delay delay time 150 Ot 10 s						·					
time 152 Zero current detection level 153 Zero current detection time 154 Voltage reduction selection during stall prevention operation 155 RT signal function validity condition 156 Lero current detection level 157 Other than 158 Cero current detection time 158 Lero current detection time 159 Lero current detection time 150 Lot 400% 150 Other than 159 Other than 150 Ot		Output current detection signal delay				Output current detection signal					
To a signal function validity condition To a signal function validity condit	152		0 to 150%	5%	152		0 to 400%	5%	•		
Voltage reduction selection during stall prevention operation 154 Voltage reduction selection during stall prevention operation 155 RT signal function validity condition 156 RT signal function validity condition 157 RT signal function validity condition 158 RT signal function validity condition 159 RT signal function validity condition 150 PT signal function validity condition 150 PT signal function validity condition											
RT signal function validity condition 0.10 0.155 RT signal function validity condition 0.10		Voltage reduction selection during stall		1		Voltage reduction selection during					
	155	RT signal function validity condition	0, 10	0	155	RT signal function validity condition	0, 10	0	•		

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	ED 5700(D)	, P.		ED ESSO					
	FR-F700(P)		1 20 1 1		FR-F800 compatible parameter			0 11	Parameter setting
Pr.	Name	Setting range	Initial value	Pr.	Name	Setting range	Initial value	Setting	g Remarks
156	Stall prevention operation selection	0 to 31, 100, 101	0	156	Stall prevention operation selection	0 to 31, 100, 101	0	<u> </u>	
157	OL signal output timer	0 to 25 s, 9999	0 s	157	OL signal output timer	0 to 25 s, 9999	0 s	•	
158	AM terminal function selection	1 to 3, 5, 6, 8 to 14, 17, 21, 24, 50, 52, 53	1	158	AM terminal function selection	1 to 3, 5 to 14, 17, 18, 21, 24 34, 50, 52 to 54, 61, 62, 67, 70, 86 to 96, 98	1	•	
159	Automatic switchover frequency range from bypass to inverter operation	0 to 10 Hz, 9999	9999	159	Automatic switchover frequency range from bypass to inverter operation	0 to 10 Hz, 9999	9999	•	
160	User group read selection	0, 1, 9999	9999	160	User group read selection	0, 1, 9999	9999	•	
161	Frequency setting/key lock operation selection	0, 1, 10, 11	0	161	Frequency setting/key lock operation selection	0, 1, 10, 11	0	•	
162	Automatic restart after instantaneous power failure selection	0, 1, 10, 11	0	162	Automatic restart after instantaneous power failure selection	0 to 3, 10 to 13	0	•	
163	First cushion time for restart	0 to 20 s	0 s	163	First cushion time for restart	0 to 20 s	0 s	•	
164	First cushion voltage for restart	0 to 100%	0%	164	First cushion voltage for restart	0 to 100%	0%	•	
165	Stall prevention operation level for restart	0 to 150%	120%	165	Stall prevention operation level for restart	0 to 400%	120%	•	
166	Output current detection signal retention time	0 to 10 s, 9999	0.1 s	166	Output current detection signal retention time	0 to 10 s, 9999	0.1 s	•	
167	Output current detection operation selection	0, 1, <mark>10, 11</mark>	0	167	Output current detection operation selection	0, 1, 10, 11	0	•	
170	Watt-hour meter clear	0, 10, 9999	9999	170	Watt-hour meter clear	0, 10, 9999	9999	×	Setting not required
171	Operation hour meter clear	0, 9999	9999	171	Operation hour meter clear	0, 9999	9999	×	Setting not required
172	User group registered display/batch clear	9999, (0 to 16)	0	172	User group registered display/batch clear	9999, (0 to 16)	0	×	
173	User group registration	0 to 999, 9999	9999	173	User group registration	0 to 1999, 9999	9999	×	Set the parameter as required.
174	User group clear	0 to 999, 9999	9999	174	User group clear	0 to 1999, 9999	9999	×	
178	STF terminal function selection	0 to 8, 10 to 12, 14, 16, 24, 25, 60, 62, 64 to 67, 70 to 72, 9999	60	178	STF terminal function selection	0 to 8, 10 to 14, 16, 18, 24, 25, 28, 37 to 40, 46 to 48, 50, 51, 60, 62, 64 to 67, 70 to 73, 77 to 81, 84, 94 to 98, 9999	60	•	
179	STR terminal function selection	0 to 8, 10 to 12, 14, 16, 24, 25, 61, 62, 64 to 67, 70 to 72, 9999	61	179	STR terminal function selection	0 to 8, 10 to 14, 16, 18, 24, 25, 28, 37 to 40, 46 to 48, 50, 51, 60, 62, 64 to 67, 70 to 73, 77 to 81, 84, 94 to 98, 9999	61	•	
180	RL terminal function selection		0	180	RL terminal function selection		0	•	
181	RM terminal function selection	0 to 8, 10 to 12, 14, 16, 24, 25,	1	181	RM terminal function selection		1	•	
182	RH terminal function selection	62, 64 to 67, <mark>70 to 72</mark> , 9999	2	182	RH terminal function selection		2	•	
183	RT terminal function selection		3	183	RT terminal function selection		3	•	
184	AU terminal function selection	0 to 8, 10 to 12, 14, 16, 24, 25, 62 to 67, 70 to 72, 9999	4	184	AU terminal function selection	0 to 8, 10 to 14, 16, 18, 24, 25, 28, 37 to 40, 46 to 48, 50, 51, 62, 64 to 67,	4	•	
185	JOG terminal function selection		5	185	JOG terminal function selection	70 to 73, 77 to 81, 84, 94 to 98, 9999	5	•	
186	CS terminal function selection	0 to 8, 10 to 12, 14, 16, 24, 25, 62,	6	186	CS terminal function selection]	9999	Δ	
187	MRS terminal function selection	64 to 67, <mark>70 to 72</mark> , 9999	24	187	MRS terminal function selection]	24	•	
188	STOP terminal function selection		25	188	STOP terminal function selection]	25	•	
189	RES terminal function selection		62	189	RES terminal function selection		62	•	

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		parameter list			FR-F800 co		Parameter setting		
Pr.	Name	Setting range	Initial value	Pr.	Name	Setting range	Initial value	Setting	Remarks
190	RUN terminal function selection	0 to 5, 7, 8, 10 to 19, 25, 26, 45	0	190	RUN terminal function selection	0 to 5, 7, 8, 10 to 19, 25, 26, 35, 39, 40,	0	•	For driving IPM, set the FB and FB2 signals
191	SU terminal function selection	to 48, 57, 64, 67, 70, 79, 85, 90, 91, 92, 93, 94 to 96, 98, 99, 100	1	191	SU terminal function selection	45 to 54, 57, 64 to 68, 70 to 79, 82, 85, 90 to 96, 98 to 105, 107, 108, 110 to	1	•	instead of the FU and FU2 signals.
192	IPF terminal function selection	to 105, 107, 108, 110 to 116, 125, 126, 145 to 148, 157, 164,	2	192	IPF terminal function selection	116, 125, 126, 135, 139, 140, 145 to 154, 157, 164 to 168, 170 to 179, 182,	2	•	
193	OL terminal function selection	167, 170, 179, 185, 190, 191, 192, 193, 194 to 196, 198, 199,	3	193	OL terminal function selection	185, 190 to 196, 198 to 208, 211 to 213, 215, 300 to 308, 311 to 313,	3	•	
194	FU terminal function selection	9999	4	194	FU terminal function selection	315, 9999	4	•	
195	ABC1 terminal function selection	0 to 5, 7, 8, 10 to 19, 25, 26, 45 to 48, 57, 64, 67, 70, 79, 85, 90, 91, 92, 93, 94 to 96, 98, 99, 100 to 105, 107, 108, 110 to 116, 125, 126, 145 to 148, 157, 164, 167, 170, 179, 185, 190, 191,	99	195	ABC1 terminal function selection	0 to 5, 7, 8, 10 to 19, 25, 26, 35, 39, 40, 45 to 54, 57, 64 to 68, 70 to 79, 82, 85, 90, 91, 94 to 96, 98 to 105, 107, 108, 110 to 116, 125, 126, 135, 139, 140, 145 to 154, 157, 164 to 168, 170 to 179, 182, 185, 190, 191, 194 to 196,	99	•	
196	ABC2 terminal function selection	192, 193, 194 to 196, 198, 199, 9999	9999	196	ABC2 terminal function selection	198 to 208, 211 to 213, 215, 300 to 308, 311 to 313, 315, 9999	9999	•	
232	Multi-speed setting (8 speed)	0 to 400 Hz, 9999	9999	232	Multi-speed setting (speed 8)	0 to 590 Hz, 9999	9999	•	
233	Multi-speed setting (9 speed)	0 to 400 Hz, 9999	9999	233	Multi-speed setting (speed 9)	0 to 590 Hz, 9999	9999	•	
234	Multi-speed setting (10 speed)	0 to 400 Hz, 9999	9999	234	Multi-speed setting (speed 10)	0 to 590 Hz, 9999	9999	•	
235	Multi-speed setting (11 speed)	0 to 400 Hz, 9999	9999	235	Multi-speed setting (speed 11)	0 to 590 Hz, 9999	9999	•	
236	Multi-speed setting (12 speed)	0 to 400 Hz, 9999	9999	236	Multi-speed setting (speed 12)	0 to 590 Hz, 9999	9999	•	
237	Multi-speed setting (13 speed)	0 to 400 Hz, 9999	9999	237	Multi-speed setting (speed 13)	0 to 590 Hz, 9999	9999	•	
238	Multi-speed setting (14 speed)	0 to 400 Hz, 9999	9999	238	Multi-speed setting (speed 14)	0 to 590 Hz, 9999	9999	•	
239	Multi-speed setting (15 speed)	0 to 400 Hz, 9999	9999	239	Multi-speed setting (speed 15)	0 to 590 Hz, 9999	9999	•	
240	Soft-PWM operation selection	0, 1	1	240	Soft-PWM operation selection	0, 1	1	•	
241	Analog input display unit switchover	0, 1	0	241	Analog input display unit switchover	0, 1	0	•	
242	Terminal 1 added compensation amount (terminal 2)	0 to 100%	100%	242	Terminal 1 added compensation amount (terminal 2)	0 to 100%	100%	•	
243	Terminal 1 added compensation amount (terminal 4)	0 to 100%	75%	243	Terminal 1 added compensation amount (terminal 4)	0 to 100%	75%	•	
244	Cooling fan operation selection	0, 1	1	244	Cooling fan operation selection	0, 1, 101 to 105	1	•	
245	Rated slip	0 to 50%, 9999	9999	245	Rated slip	0 to 50%, 9999	9999	•	
246	Slip compensation time constant	0.01 to 10 s	0.5 s	246	Slip compensation time constant	0.01 to 10 s	0.5 s	•	
247	Constant-power range slip compensation selection	0, 9999	9999	247	Constant-output range slip compensation selection	0, 9999	9999	•	
250	Stop selection	0 to 100 s, 1000 to 1100 s, 8888, 9999	9999	250	Stop selection	0 to 100 s, 1000 to 1100 s, 8888, 9999	9999	•	
251	Output phase loss protection selection	0, 1	1	251	Output phase loss protection selection	0, 1	1	•	
252	Override bias	0 to 200%	50%	252	Override bias	0 to 200%	50%	•	
253	Override gain	0 to 200%	150%	253	Override gain	0 to 200%	150%	•	
255	Life alarm status display	(0 to 15)	0	255	Life alarm status display	(0 to 31)	0	×	Setting not required
256	Inrush current limit circuit life display	(0 to 100%)	100%	256	Inrush current limit circuit life display	(0 to 100%)	100%	×	Setting not required
257	Control circuit capacitor life display	(0 to 100%)	100%	257	Control circuit capacitor life display	(0 to 100%)	100%	×	Setting not required
258	Main circuit capacitor life display	(0 to 100%)	100%	258	Main circuit capacitor life display	(0 to 100%)	100%	×	Setting not required
259	Main circuit capacitor life measuring	0, 1	0	259	Main circuit capacitor life measuring	0, 1	0	×	Setting not required
260	PWM frequency automatic switchover	0, 1	1	260	PWM frequency automatic switchover	0, 1	1	•	

FR-F700(P) parameter list					FR-F800 compatible parameter				Parameter setting
Dr			Initial value	Dr		•	leitial value	Cotting	
Pr.	Name	Setting range		Pr.	Name	Setting range	Initial value	Setting	Remarks
261	Power failure stop selection	0, 1, 2, <mark>21, 22</mark>	0	261	Power failure stop selection	0, 1, 2, 11, 12, 21, 22	0	•	
262	Subtracted frequency at deceleration start	0 to 20 Hz	3 Hz	262	Subtracted frequency at deceleration start	0 to 20 Hz	3 Hz	•	
263	Subtraction starting frequency	0 to <mark>400</mark> Hz, 9999	60 Hz	263	Subtraction starting frequency	0 to 590 Hz, 9999	60 Hz	•	
264	Power-failure deceleration time 1	0 to 3600 / 0 to 360 s	5 s	264	Power-failure deceleration time 1	0 to 3600 s	5 s	•	Changing Pr.21 after setting this parameter will change the set value.
265	Power-failure deceleration time 2	0 to 3600, 9999 / 0 to 360 s, 9999	9999	265	Power-failure deceleration time 2	0 to 3600, 9999	9999	•	Changing Pr.21 after setting this parameter will change the set value.
266	Power failure deceleration time switchover frequency	0 to 400 Hz	60 Hz	266	Power failure deceleration time switchover frequency	0 to 590 Hz	60 Hz	•	
267	Terminal 4 input selection	0, 1, 2	0	267	Terminal 4 input selection	0, 1, 2	0	•	
268	Monitor decimal digits selection	0, 1, 9999	9999	268	Monitor decimal digits selection	0, 1, 9999	9999	•	
	meriner desirrer algue estesaeri				l linerimen decirrism digite ecisedeni	3, 1, 3333		 	
296	Password lock level	0 to 6, 99, 100 to 106, 199,	9999	296	Password lock level	0 to 6, 99, 100 to 106, 199,	9999	•	
207	Password lock/unlock	9999 (0 to 5), 1000 to 9998, 9999	9999	297	Password lock/unlock	9999 (0 to 5), 1000 to 9998, 9999	9999		Sat the parameter as required
297	Rotation direction detection selection	,			Rotation direction detection selection at	(0 to 5), 1000 to 9996, 9999		×	Set the parameter as required.
299	at restart	0, 1, 9999	9999	299	restart	0, 1, 9999	9999	•	
331	RS-485 communication station number	0 to 31 (0 to 247)	0	331	RS-485 communication station number	0 to 31 (0 to 247)	0	•	
332	RS-485 communication speed	3, 6, 12, 24, 48, 96, 192, 384	96	332	RS-485 communication speed	3, 6, 12, 24, 48, 96, 192, 384, 576, 768, 1152	96	•	
333	RS-485 communication stop bit length	0, 1, 10, 11	1	333	RS-485 communication stop bit length / data length	0, 1, 10, 11	1	•	
334	RS-485 communication parity check selection	0, 1, 2	2	334	RS-485 communication parity check selection	0, 1, 2	2	•	
335	RS-485 communication retry count	0 to 10, 9999	1	335	RS-485 communication retry count	0 to 10, 9999	1	•	
336	RS-485 communication check time interval	0, 0.1 to 999.8 s, 9999	0 s	336	RS-485 communication check time interval	0 to 999.8 s, 9999	0 s	•	
337	RS-485 communication waiting time setting	0 to 150 ms, 9999	9999	337	RS-485 communication waiting time setting	0 to 150 ms, 9999	9999	•	
338	Communication operation command source	0, 1	0	338	Communication operation command source	0, 1	0	•	
339	Communication speed command source	0, 1, 2	0	339	Communication speed command source	0, 1, 2	0	•	
340	Communication startup mode selection	0, 1, 2, 10, 12	0	340	Communication startup mode selection	0, 1, 2, 10, 12	0	•	
341	RS-485 communication CR/LF selection	0, 1, 2	1	341	RS-485 communication CR/LF selection	0, 1, 2	1	•	
342	Communication EEPROM write selection	0, 1	0	342	Communication EEPROM write selection	0, 1	0	•	
343	Communication error count	_	0	343	Communication error count	-	0	×	Setting not required
374	Overspeed detection level	0 to 400 Hz, 9999	9999	374	Overspeed detection level	0 to 590 Hz	9999	•	
495	Remote output selection	0, 1, 10, 11	0	495	Remote output selection	0, 1, 10, 11	0	•	
496	Remote output data 1	0 to 4095	0	496	Remote output data 1	0 to 4095	0	•	
497	Remote output data 2	0 to 4095	0	497	Remote output data 2	0 to 4095	0	•	
502	Stop mode selection at communication error	0 to 3	0	502	Stop mode selection at communication error	0 to 3	0	•	
503	Maintenance timer	0 (1 to 9998)	0	503	Maintenance timer 1	0 (1 to 9998)	0	×	Setting not required
504	Maintenance timer alarm output set time	0 to 9998, 9999	9999	504	Maintenance timer 1 warning output set time	0 to 9998, 9999	9999	•	
505	Speed setting reference	1 to 120 Hz	60 Hz	505	Speed setting reference	1 to 590 Hz	60 Hz	•	
522	Output stop frequency	0 to 400 Hz, 9999	9999	522	Output stop frequency	0 to 590 Hz, 9999	9999	•	
539	Modbus-RTU communication check time interval	0, 0.1 to 999.8 s, 9999	9999	539	Modbus-RTU communication check time interval	0 to 999.8 s, 9999	9999	•	

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	FR-F700	(P) parameter list			FR-F800 comp	atible parameter			Parameter setting
Pr.	Name	Setting range	Initial value	Pr.	Name	Setting range	Initial value	Setting	Remarks
549	Protocol selection	0, 1	0	549	Protocol selection	0, 1, 2	0	•	
	NET mode operation command	0.4.0000	0000		NET mode operation command	, ,	0000	_	
550	source selection	0, 1, 9999	9999	550	source selection	0, 1, 9999	9999	•	
551	PU mode operation command	1, 2	2	551	PU mode operation command source	1, 2, 3, 9999	9999	•	
	source selection	<u> </u>			selection				
552	Frequency jump range	0 to 30 Hz, 9999	9999	552	Frequency jump range	0 to 30 Hz, 9999	9999	•	
553	PID deviation limit	0 to 100.0%, 9999	9999	553	PID deviation limit	0 to 100.0%, 9999	9999	•	
554	PID signal operation selection	0 to 3, 10 to 13	0	554	PID signal operation selection	0 to 3, 10 to 13	0	•	
555	Current average time	0.1 to 1.0 s	1 s	555	Current average time	0.1 to 1.0 s	1 s	•	
556	Data output mask time	0.0 to 20.0 s	0 s	556	Data output mask time	0.0 to 20.0 s	0 s	•	
557	Current average value monitor	55K or lower: 0 to 500 A/	Inverter rated current	557	Current average value monitor signal	55K or lower: 0 to 500 A/	Inverter rated	•	
	signal output reference current	75K or higher: 0 to 3600 A			output reference current	75K or higher: 0 to 3600 A	current		
563	Energization time carrying-over times	((0 to 65535))	0	563	Energization time carrying-over times	((0 to 65535))	0	×	Setting not required
564	Operating time carrying-over times	((0 to 65535))	0	564	Operating time carrying-over times	((0 to 65535))	0	×	Setting not required
- 55 :	operating time sanying ever times	((0 10 00000))	Ů		operating time sarrying even times	((0 to 0000))	<u> </u>		Sound Hot rodanoa
571	Holding time at a start	0.0 to 10.0 s, 9999	9999	571	Holding time at a start	0.0 to 10.0 s, 9999	9999	•	
575	Output interruption detection time	0 to 3600 s, 9999	1 s	575	Output interruption detection time	0 to 3600 s, 9999	1 s	•	
576	Output interruption detection level	0 to 400 Hz	0 Hz	576	Output interruption detection level	0 to 590 Hz	0 Hz	•	
577	Output interruption cancel level	900 to 1100%	1000%	577	Output interruption cancel level	900 to 1100%	1000%	•	
611	Acceleration time at a restart	0 to 3600 s, 9999	55K or lower: 5 / 75K or higher: 15 s	611	Acceleration time at a restart	0 to 3600 s, 9999	9999	•	
653	Speed smoothing control	0 to 200%	0%	653	Speed smoothing control	0 to 200%	0%	•	
654	Speed smoothing cutoff frequency	0 to 120 Hz	20 Hz	654	Speed smoothing cutoff frequency	0 to 120 Hz	20 Hz	•	
665	Regeneration avoidance frequency gain	0 to 200%	100%	665	Regeneration avoidance frequency gain	0 to 200%	100%	•	
779	Operation frequency during	0 to 400 Hz, 9999	9999	779	Operation frequency during	0 to 590 Hz, 9999	9999	•	
119	communication error	0 10 400 112, 9999	9999	119	communication error	0 10 390 112, 9999		U	
791	Acceleration time in low-speed range	0 to 3600 / 360 s, 9999	9999	791	Acceleration time in low-speed range	0 to 3600 / 360 s, 9999	9999	•	Changing Pr.21 after setting this parameter will change the set value.
792	Deceleration time in low-speed range	0 to 3600 / 360 s, 9999	9999	792	Deceleration time in low-speed range	0 to 3600 / 360 s, 9999	9999	•	Changing Pr.21 after setting this parameter will change the set value.
799	Pulse increment setting for output	0.1 kWh, 1 kWh, 10 kWh,	1 kWh	799	Pulse increment setting for output	0.1 kWh, 1 kWh, 10 kWh,	1 kWh	•	
	power	100 kWh, 1000 kWh			power	100 kWh, 1000 kWh			
800	Control method selection	9, 20	20	800	Control method selection	9, 20	20	•	
820	Speed control P gain 1	0 to 1000%	25%	820	Speed control P gain 1	0 to 1000%	25%	•	
821	Speed control integral time 1	0 to 20 s	0.333 s	821	Speed control integral time 1	0 to 20 s	0.333 s	<u> </u>	
867	AM output filter	0 to 5 s	0.01 s	867	AM output filter	0 to 5 s	0.01 s	0	
870	Speed detection hysteresis	0 to 5 Hz	0 Hz	870	Speed detection hysteresis	0 to 5 Hz	0 Hz	0	
872	Input phase loss protection selection	0, 1	0	872	Input phase loss protection selection	0, 1	0	•	
882	Regeneration avoidance operation selection	0, 1, 2	0	882	Regeneration avoidance operation selection	0, 1, 2	0	•	
883	Regeneration avoidance operation level	300 to 800 V	380 VDC/ 760 VDC	883	Regeneration avoidance operation level	300 to 800 V	380 VDC/ 760 VDC	•	
884	Regeneration avoidance at deceleration detection sensitivity	0 to 5	0	884	Regeneration avoidance at deceleration detection sensitivity	0 to 5	0	•	

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	FR-F70	D(P) parameter list			FR-F800 c	FR-F800 compatible parameter			Parameter setting		
Pr.	Name	Setting range	Initial value	Pr.	Name	Setting range	Initial value	Setting	Remarks		
885	Regeneration avoidance compensation frequency limit value	0 to <mark>30</mark> Hz, 9999	6 Hz	885	Regeneration avoidance compensation frequency limit value	0 to 590 Hz, 9999	6 Hz	•			
886	Regeneration avoidance voltage gain	0 to 200%	100%	886	Regeneration avoidance voltage gain	0 to 200%	100%	•			
888	Free parameter 1	0 to 9999	9999	888	Free parameter 1	0 to 9999	9999	•			
889	Free parameter 2	0 to 9999	9999	889	Free parameter 2	0 to 9999	9999	•			
891	Cumulative power monitor digit shifted times	0 to 4, 9999	9999	891	Cumulative power monitor digit shifted times	0 to 4, 9999	9999	•			
892	Load factor	30 to 150%	100%	892	Load factor	30 to 150%	100%	•			
893	Energy saving monitor reference (motor capacity)	55K or lower: 0.1 to 55 kW / 75K or higher: 0 to 3600 kW	Inverter rated capacity	893	Energy saving monitor reference (motor capacity)	55K or lower: 0.1 to 55 kW, 9999 / 75K or higher: 0 to 3600 kW, 9999	Inverter rated capacity	•			
894	Control selection during commercial power-supply operation	0, 1, 2, 3	0	894	Control selection during commercial power-supply operation	0, 1, 2, 3	0	•			
895	Power saving rate reference value	0, 1, 9999	9999	895	Power saving rate reference value	0, 1, 9999	9999	•			
896	Power unit cost	0 to 500, 9999	9999	896	Power unit cost	0 to 500, 9999	9999	•			
897	Power saving monitor average time	0, 1 to 1000 h, 9999	9999	897	Power saving monitor average time	0, 1 to 1000 h, 9999	9999	•			
898	Power saving cumulative monitor clear	0, 1, 10, 9999	9999	898	Power saving cumulative monitor clear	0, 1, 10, 9999	9999	×	Setting not required		
899	Operation time rate (estimated value)	0 to 100%, 9999	9999	899	Operation time rate (estimated value)	0 to 100%, 9999	9999	•			
C0 (900)	FM terminal calibration	_	-	C0 (900)	FM/CA terminal calibration	_	-	×	Calibrate the parameter as required.		
C1 (901)	AM terminal calibration	_	-	C1 (901)	AM terminal calibration	_	-	×	Calibrate the parameter as required.		
C2 (902)	Terminal 2 frequency setting bias frequency	0 to 400 Hz	0 Hz	C2 (902)	Terminal 2 frequency setting bias frequency	0 to 590 Hz	0 Hz	Δ			
C3 (902)	Terminal 2 frequency setting bias	0 to 300%	0%	C3 (902)	Terminal 2 frequency setting bias	0 to 300%	0%	Δ			
125 (903)	Terminal 2 frequency setting gain frequency	0 to 400 Hz	60 Hz	125 (903)	Terminal 2 frequency setting gain frequency	0 to 590 Hz	60 Hz	Δ	Set the parameter as required. For the details, refer to section "5.12.5		
C4 (903)	Terminal 2 frequency setting gain	0 to 300%	100%	C4 (903)	Terminal 2 frequency setting gain	0 to 300%	100%	Δ	Frequency setting voltage (current) bias and gain" and "5.12.6 Bias and gain for		
C5 (904)	Terminal 4 frequency setting bias frequency	0 to 400 Hz	0 Hz	C5 (904)	Terminal 4 frequency setting bias frequency	0 to 590 Hz	0 Hz	Δ	torque (magnetic flux) and set voltage (current)" of the Instruction Manual		
C6 (904)	Terminal 4 frequency setting bias	0 to 300%	20%	C6 (904)	Terminal 4 frequency setting bias	0 to 300%	20%	Δ	(Detailed).		
126 (905)	Terminal 4 frequency setting gain frequency	0 to 400 Hz	60 Hz	126 (905)	Terminal 4 frequency setting gain frequency	0 to 590 Hz	60 Hz	Δ			
C7 (905)	Terminal 4 frequency setting gain	0 to 300%	100%	C7 (905)	Terminal 4 frequency setting gain	0 to 300%	100%	Δ			
C42 (934)	PID display bias coefficient	0 to 500%, 9999	9999	C42 (934)	PID display bias coefficient	0 to 500%, 9999	9999	Δ	Set the parameter as required. For the details, refer to		
C43 (934)	PID display bias analog value	0 to 300%	20%	C43 (934)	PID display bias analog value	0 to 300%	20%	Δ	"♦ Calibration of PID display bias and gain" in section "5.11.7 Changing the		
C44 (935)	PID display gain coefficient	0 to 500.0, 9999	9999	C44 (935)	PID display gain coefficient	0 to 500.0, 9999	9999	Δ	display increment of the numerical values used in PID control" of the		
C45 (935)	PID display gain analog value	0 to 300%	100%	C45 (935)	PID display gain analog value	0 to 300%	100%	Δ	Instruction Manual (Detailed).		
989	Parameter copy alarm release	55K or lower: 10 / 75K or higher: 100	55K or lower: 10 / 75K or higher: 100	989	Parameter copy alarm release	55K or lower: 10 / 75K or higher: 100	55K or lower: 10 / 75K or higher: 100	Δ			
990	PU buzzer control	0, 1	1	990	PU buzzer control	0, 1	1	•			
991	PU contrast adjustment	0 to 63	58	991	PU contrast adjustment	0 to 63	58	•			

FR-F700(P) parameter list					FR-F800 compatible parameter				Parameter setting		
	Pr.	Name	Setting range	Initial value	Pr.	Name	Setting range	Initial value	Setting	Remarks	
	997	Fault initiation	16 to 18, 32 to 34, 48, 49, 64, 80 to 82, 96, 97, 112, 128, 129, 144, 145, 160, 161, 176 to 179, 192 to 194, 196 to 199, 208, 230, 241, 245 to 247, 253, 9999	9999	997	Fault initiation	0 to 255, 9999	9999	×	Setting not required	
	998	IPM parameter initialization	0, 1, 12, 22, 32, 101, 112, 122, 132	0	998	PM parameter initialization	0, 12, 112, 8009, 8109, 9009, 9109	0	×	Setting not required	
	999	Automatic parameter setting	10, 11, 20, 21, 30, 31, 9999	9999	999	Automatic parameter setting	1, 2, 10, 11, 12, 13, 20, 21, 9999	9999	×	Setting not required	

4.2. PTC Thermistor Input

When a PTC thermistor is connected between terminals AU and SD with the AU/PTC switch set to PTC for the FR-F700(P), connect the thermistor between terminals 10 and 2 for the FR-F800.

For the FR-F800, set Pr.561 (PTC thermistor protection level) and Pr.1016 (PTC thermistor protection detection time).

4.3. Compatibility of the Terminal Response Speed

The response of the input/output terminals of the FR-F800 series is improved compared to the FR-F700(P) series. Operation timing of the device may differ depending on the usage.

In this case, set Pr.289 (Inverter output terminal filter) and Pr.699 (Input terminal filter) to adjust the terminal response time.

Set 5 to 8 ms in Pr.289 and Pr.699 and adjust according to the system.

5. OPTION

5. 1. Option

The following table shows which FR-F700(P) series options are compatible with the FR-F800 series inverters and their corresponding FR-F800 series options.

IIIVCITO	is and then	corresponding FR-F800		Option model		
		Name	FR-F700(P)	FR-F800		
	16-bit digital	input	FR-A7AX	FR-A8AX		
)	t, additional analog output	FR-A7AY	FR-A8AY		
/pe	Relay output	, , , , , , , , , , , , , , , , , , , ,	FR-A7AR	FR-A8AR		
.⊑	Profibus-DP		FR-A7NP	FR-A8NP		
Plug-in type	Device Net		FR-A7ND	FR-A8ND		
₫	CC-Link		FR-A7NC	FR-A8NC		
	CC-Link IE F	-ield	FR-A7NCE	FR-A8NCE		
	Parameter u		FR-PU07	Some function restricted (parameter copy, operable parameters, etc.)		
	Parameter u	ınit connection cable	FR-CB201, 203, 205	Compatible		
	Intercompati	bility attachment	FR-AAT, FR-A5AT	Compatible		
	Panel throug	gh attachment	FR-A7CN	FR-A8CN(1) Enclosure cut dimensions are compatible except for some capacities. The depths inside and outside the enclosure differ. For details, refer to the Instruction Manual of the FR-A8CN1[[]] or the FR-A8CN[[]].		
	Surge voltac	ge suppression filter	FR-ASF-H	Compatible		
ø.		r improving DC reactor	FR-BEL-(H)	Compatible.		
Stand-alone type		r improving AC reactor	FR-BAL-(H), MT-BAL-(H)	If replacing the reactor, use FR-HAL-(H)* or FR-HEL-(H).		
<u>a</u>	Radio noise	filter	FR-BIF-(H)	Compatible		
힏	Line noise fil	ter	FR-BSF01, FR-BLF	Compatible		
Sts	BU type brake unit		BU1500 to 15K, H7.5K to 30K	Compatible		
	Brake unit		FR-BU-(H), FR-BU2	Compatible. The MT-BU5 is not compatible.		
	Resistor unit		FR-BR-(H), MT-BR5-(H)	Compatible		
		er regeneration converter	FR-RC-(H), MT-RC-(H)	Compatible		
	converter	er regeneration common	FR-CV-(H)7.5K(-AT) to 55K	Compatible		
	Stand-alone FR-CV	reactor dedicated for the	FR-CVL-(H)7.5K to 55K	Compatible		
	FR-HC high	power factor converter	FR-HC-(H), MT-HC-(H), FR-HC2-(H)	Compatible		
	Sine wave	Reactor	MT-BSL-(H)	Compatible		
	filter	Capacitor	MT-BSC-(H)	Compatible		
l	Manual cont		FR-AX	Compatible		
eed	DC tach. foll		FR-AL	Compatible		
, sp	Three speed		FR-AT	Compatible		
ler/ er	Remote spe	ed setter	FR-FK	Compatible		
를 다	Ratio setter		FR-FH	Compatible		
Controller controller	Speed detec		FR-FP	Compatible		
ial (Master contr	roller	FR-FG	Compatible		
Manual Controller / speed controller	Soft starter		FR-FC	Compatible		
Σ	Deviation de	etector	FR-FD	Compatible		
	Preamplifier		FR-FA	Compatible		
	Pilot generat		QVAH-10	Compatible		
SIS	Deviation se		YVGC-500W-NS	Compatible		
Others		setting potentiometer	WA2W 1kΩ	Compatible		
	Analog frequ	-	YM206NRI 1mA	Compatible		
	Calibration re	esistor	RV24YN 10kΩ	Compatible		

^{*} When FR-RC-(H) or MT-RC-(H) is used, use FR-BAL-(H) or MT-BAL-(H).

5. 2. Replacement When the FR-A7NC Is Used

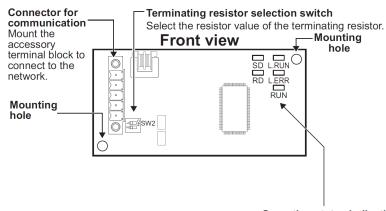
The FR-A7NC (CC-Link communication option) used with the FR-F700(P) series cannot be used with the FR-F800 series. For the CC-Link communication with the FR-F800 series, use the FR-A8NC.

(1) Shape and installation method

The following table shows the differences in the shape and installation method.

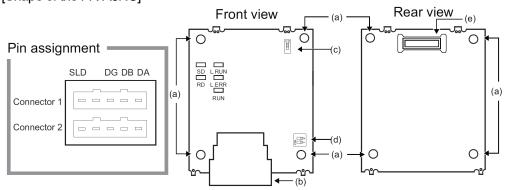
Item	FR-A7NC	FR-A8NC	Remarks
Shape	Inverter plug-in option type, terminal block connection	Inverter plug-in option type, terminal block connection	Although the connection method is the same, the circuit board of the option has a different shape.
Connection terminal block	Dedicated terminal block (M2 small flathead screw)	A6CON-L5P Insertion wiring	The shape of the terminal block and wiring method differ. A terminal block is not enclosed.
Installation procedure	Connected to the option connector 3. * After wiring the terminal block, install the front cover.	Connected to the option connector 1. * After wiring the terminal block, install the front cover.	
Terminating resistor	Terminating resistor selection switch	Terminating resistor selection switch	
Connection cable	CC-Link dedicated cable	CC-Link dedicated cable	
Connector for communication	Located on the side.	Located at the bottom.	Wiring route differs. Attention must be paid to the connection cable length.

[Shape of the FR-A7NC]



Operation status indication LED Lit/flicker of the LED indicate operation status.

[Shape of the FR-A8NC]

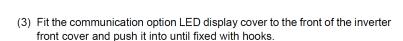


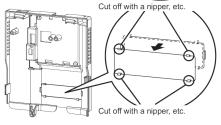
Symbol	Name	Description
а	Mounting hole	Used to fix the option to the inverter by inserting a mounting screw
		or a spacer.
b	CC-Link communication one-touch connector	CC-Link communication can be performed with the CC-Link
		communication connector.
С	Switch for manufacturer setting	Switch for manufacturer setting. Do not change the initial setting
		(OFF).
d	Terminating resistor selection switch	Select the resistor value of the terminating resistor.
е	Connector	Connected to the option connector of the inverter.

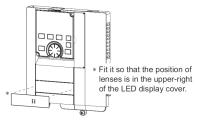
[Installation procedure of the FR-A8NC]

♦ Installation of the communication option LED display cover

- (1) Remove the inverter front cover. (Refer to Chapter 2 of the Instruction Manual (Detailed) of the inverter for details on how to remove the front cover.)
 - Mount the cover for displaying the operation status indication LED for the communication option on the inverter front cover.
- (2) Cut off hooks on the rear of the inverter front cover with nipper, etc. and open a window for fitting the LED display cover.





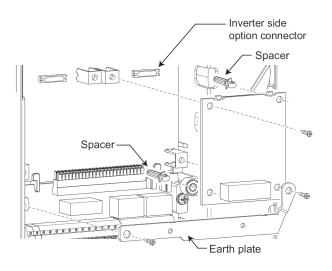


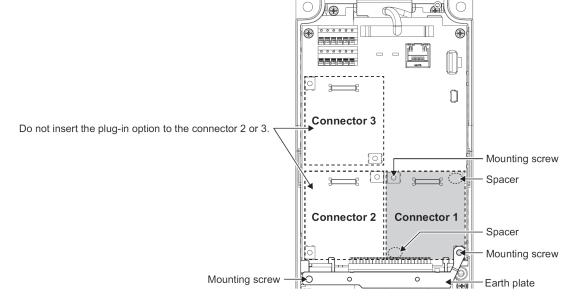


The protective structure (JEM1030) changes to the open type (IP00).

♦ Installing the option

- (1) For the two mounting holes (as shown in the next page) that will not be tightened with mounting screws, insert spacers.
- (2) Fit the connector of the plug-in option to the guide of the connector on the inverter unit side, and insert the plug-in option as far as it goes. (Insert it to the inverter option connector 1.)
- (3) Fit the one location on the left of the earth plate (as shown in the next page) securely to the inverter unit by screwing in the supplied mounting screw. (tightening torque 0.33 N·m to 0.40 N·m)
- (4) Fit the one location on the left of the plug-in option securely to the inverter unit and the right of the plug-in option to the inverter unit together with the earth plate by screwing in the supplied mounting screws. (tightening torque 0.33 N·m to 0.40 N·m) If the screw holes do not line up, the connector may not be inserted deep enough. Check the connector.





Insertion positions for screws and spacers

[Connection cable of the FR-A8NC]

In the CC-Link system, use CC-Link dedicated cables.

If the cable used is other than the CC-Link dedicated cable, the performance of the CC-Link system is not guaranteed.

For the specifications of the CC-Link dedicated cable, refer to the website of the CC-Link Partner Association.

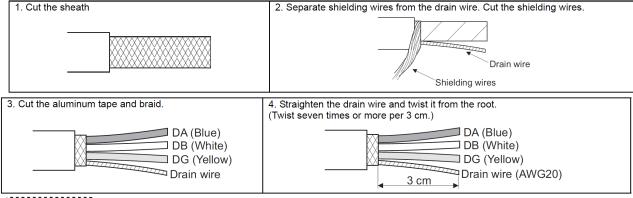
- · Website of the CC-Link Partner Association http://www.cc-link.org/
- One-touch communication connector plug (as of July 2013)

Refer to the following table for the plug required to fabricate a cable on your own.

Model	Manufacturer				
A6CON-L5P	Mitsubishi Electric Corporation				
35505-6000-B0M GF	Sumitomo 3M Limited				

(1) Cable-end treatment

Apply the following treatment to the CC-Link dedicated cable that is inserted to a one-touch communication connector plug.



• NOTE

- Where possible, round the cable tip that is cut off with a tool such as nippers. If the cable is not rounded, it may get caught in the middle of a plug, without fully entering into the plug.
- If required, apply an insulation treatment to the shielding wire area where it is not covered by the one-touch communication connector plug.

(2) Plug cover check

Check that a plug cover is snapped into a plug

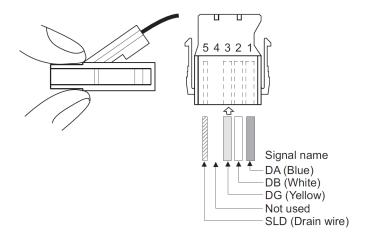




· Do not push the plug cover onto the plug before inserting a cable. Once crimped, the plug cover cannot be reused.

(3) Cable insertion

Lift up the tail of the plug cover, and fully insert a cable. Insert different signal wires to the one-touch communication connector plug as shown in the right figure.

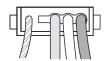


• NOTE

- Insert the cable fully. Failure to do so may cause a crimping failure.
- A cable sometimes comes out of the head of the cover. In that case, pull the cable a little so that the cable stays under the plug cover.

(4) Crimping the plug cover

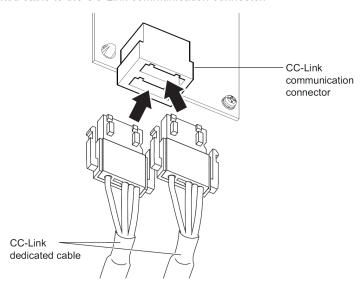
Push the plug cover onto the plug with a tool such as pliers. After crimping, check that the plug cover is securely snapped into the plug as shown in the right figure.



NOTE:

 Misaligned latches between the plug cover and the plug may keep the cover lifted. The plug cover is not sufficiently crimped in this condition. Push the plug cover until it snaps into the plug.

Connect the CC-Link dedicated cable to the CC-Link communication connector.



NOTE:

When wiring cables to the inverter's RS-485 terminals while a plug-in option is mounted, take caution not to let the
cables touch the circuit board of the option or of the inverter. Otherwise, electromagnetic noises may cause
malfunctions.

[Setting of the terminating resistor selection switch of the FR-A8NC]

For the inverter (FR-A8NC) of the end station, configure the terminating resistor selection switch setting in advance

The following table shows the specifications of the terminating resistor selection switch.

Configure the same setting as the terminating resistor selection switch of the FR-A7NC.

Setting	1	2	Description
1 O N	OFF	OFF	Without terminating resistor (initial setting)
1 0 0 2 1 N	ON	OFF	Do not use.
1 0 0 2 1 N	OFF	ON	130 Ω (resistance value with the CC-Link Ver. 1.00 dedicated high performance cable)
1O 2N	ON	ON	110 Ω

The parameter numbers are the same. Refer to the following table to set the parameters.

List of FR-A8NC parameters compatible with the FR-A7NC

The following table shows the parameter settings of the FR-F800 series inverter required when replacing an FR-A7NC by an FR-A8NC. When an FR-F700(P) series parameter is set to <u>a value other than the initial value</u>, set the corresponding FR-F800 parameter according to the following table. When an FR-F700(P) series parameter is set to an initial value, it is usually not necessary to change the corresponding FR-F800 parameter setting.

Setting Θ : Set the FR-F700(P) parameter as it is.

Δ: Change the FR-F700(P) parameter and set.

x: Adjust or set the FR-F800 parameter.

	FR-F700(P) param		FR-F800 compatible parameter					Parameter setting		
Pr.	Name	Setting range	Initial value	Pr.	Name	Setting range	Initial value	Setting	Remarks	
313	DO0 output selection	0 to 5, 7, 8, 10 to 19, 25, 26, 45 to 48, 57, 64, 67, 70, 79, 85 to	9999	313	DO0 output selection	0 to 5, 7, 8, 10 to 19, 25, 26, 35, 39, 40, 45 to 54, 57, 64 to 68, 70 to 79,	9999	•		
314	DO1 output selection	96, 89, 99, 100 to 105, 107, 108, 110 to 119, 125, 126, 145 to 148, 157,	9999	314	DO1 output selection	82, 85 to 96, 98 to 105, 107, 108, 110 to 116, 125, 126, 135, 139, 140, 145 to 154, 157, 164 to 168, 170 to 179, 182, 185 to 196, 198 to 208,	9999	•		
315	DO2 output selection	164, 167, 170, 179, 185 to 196, 198, 199, 9999	9999	315	DO2 output selection	211 to 213, 215, 300 to 308, 311 to 313, 315, 9999	9999	•		
338	Communication operation command source	0, 1	0	338	Communication operation command source	0, 1	0	•		
339	Communication speed command source	0, 1, 2	0	339	Communication speed command source	0, 1, 2	0	•		
340	Communication startup mode selection	0, 1, 2, 10, 12	0	340	Communication startup mode selection	0, 1, 2, 10, 12	0	•		
342	Communication EEPROM write selection	0, 1	0	342	Communication EEPROM write selection	0, 1	0	•		
349	Communication reset selection	0, 1	0	349	Communication reset selection	0, 1	0	•		
500	Communication error execution waiting time	0 to 999.8 s	0 s	500	Communication error execution waiting time	0 to 999.8 s	0 s	•		
501	Communication error occurrence count display	0	0	501	Communication error occurrence count display	0	0	•		
502	Stop mode selection at communication error	0 to 3	0	502	Stop mode selection at communication error	0 to 3	0	•		
541	Frequency command sign selection (CC-Link)	0, 1	0	541	Frequency command sign selection (CC-Link)	0, 1	0	•		
542	Communication station number (CC-Link)	1 to 64	1	542	Communication station number (CC-Link)	1 to 64	1	•		
543	Baud rate selection (CC-Link)	0 to 4	0	543	Baud rate selection (CC-Link)	0 to 4	0	•		
544	CC-Link extended setting	0, 1, 12, 14, 18	0	544	CC-Link extended setting	0, 1, 12, 14, 18, 100, 112, 114, 118	0	•		
550	NET mode operation command source selection	0, 1, 9999	9999	550	NET mode operation command source selection	0, 1, 9999	9999	•		

Revisions

Revisions		
Revision date	Version	Revision
Feb. 2021	K	Additional note (*1) for panel through attachment installation
		outline dimensions