Discontinuation of the FR-D700 and FR-F700PJ Series General-Purpose Inverters

Thank you for your continued patronage of Mitsubishi Electric drive control products.
In January 2025, we have released the FR-D800 series inverters as the successors to the FR-D700 and FR-F700PJ series inverters. Consequently, we are discontinuing the production of the FR-D700 and FR-F700PJ series inverters according to the following schedule.
We ask for your understanding in this matter.

1. Models to be Discontinued

- FR-D700 series (117 models)
- FR-F700PJ series (36 models)
- Related options (FR-PU04)

2. Schedule

Production will continue on orders received by the last day of January 2027.
Made-to-order production starts on July 1, 2026 in advance of the discontinuation.
Requests for repairs and service will be accepted until the last day of January 2034.
* The products may be discontinued earlier depending on the difficulty of obtaining the electronic parts.
* Repairs are subject to the supply of service parts and may not be possible even within the repair service period.

3. Discontinued models

(1) FR-D700 series

Model			
Three-phase 200 V	Three-phase 400 V	Single-phase 200 V	Single-phase 100 V
FR-D720-0.1K	FR-D740-0.4K	FR-D720S-0.1K	FR-D710W-0.1K
FR-D720-0.2K	FR-D740-0.75K	FR-D720S-0.2K	FR-D710W-0.2K
FR-D720-0.4K	FR-D740-1.5K	FR-D720S-0.4K	FR-D710W-0.4K
FR-D720-0.75K	FR-D740-2.2K	FR-D720S-0.75K	FR-D710W-0.75K
FR-D720-1.5K	FR-D740-3.7K	FR-D720S-1.5K	-
FR-D720-2.2K	FR-D740-5.5K	FR-D720S-2.2K	-
FR-D720-3.7K	FR-D740-7.5K	-	-
FR-D720-5.5K	FR-D740-11K	-	-
FR-D720-7.5K	FR-D740-15K	-	-
FR-D720-11K	-	-	-
FR-D720-15K	-	-	-

Model			
Three-phase 200 V	Three-phase 400 V	Single-phase 200 V	Single-phase 100 V
FR-D720-008-NA	FR-D740-012-NA	FR-D720S-008-NA	FR-D710W-008-NA
FR-D720-014-NA	FR-D740-022-NA	FR-D720S-014-NA	FR-D710W-014-NA
FR-D720-025-NA	FR-D740-036-NA	FR-D720S-025-NA	FR-D710W-025-NA
FR-D720-042-NA	FR-D740-050-NA	FR-D720S-042-NA	FR-D710W-042-NA
FR-D720-070-NA	FR-D740-080-NA	FR-D720S-070-NA	-
FR-D720-100-NA	FR-D740-120-NA	FR-D720S-100-NA	-
FR-D720-165-NA	FR-D740-160-NA	-	-
FR-D720-238-NA	-	-	-
FR-D720-318-NA	-	-	-

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Model	
Three-phase 400 V	Single-phase 200 V
FR-D740-012-EC	FR-D720S-008-EC
FR-D740-022-EC	FR-D720S-014-EC
FR-D740-036-EC	FR-D720S-025-EC
FR-D740-050-EC	FR-D720S-042-EC
FR-D740-080-EC	FR-D720S-070-EC
FR-D740-120-EC	FR-D720S-100-EC
FR-D740-160-EC	-

Model	
Three-phase 400 V	Single-phase 200 V
FR-D740-012SC-EC	FR-D720S-008SC-EC
FR-D740-022SC-EC	FR-D720S-014SC-EC
FR-D740-036SC-EC	FR-D720S-025SC-EC
FR-D740-050SC-EC	FR-D720S-042SC-EC
FR-D740-080SC-EC	FR-D720S-070SC-EC
FR-D740-120SC-EC	FR-D720S-100SC-EC
FR-D740-160SC-EC	-

Model	
Three-phase 400 V	Single-phase 200 V
FR-D740-0.4K-CHT	FR-D720S-0.1K-CHT
FR-D740-0.75K-CHT	FR-D720S-0.2K-CHT
FR-D740-1.5K-CHT	FR-D720S-0.4K-CHT
FR-D740-2.2K-CHT	FR-D720S-0.75K-CHT
FR-D740-3.7K-CHT	FR-D720S-1.5K-CHT
FR-D740-5.5K-CHT	FR-D720S-2.2K-CHT
FR-D740-7.5K-CHT	-

Model		
Three-phase 200 V	Three-phase 400 V	Single-phase 200 V
FR-D720-0.1K-EA	FR-D740-0.4K-EA	FR-D720S-0.1K-EA
FR-D720-0.2K-EA	FR-D740-0.75K-EA	FR-D720S-0.2K-EA
FR-D720-0.4K-EA	FR-D740-1.5K-EA	FR-D720S-0.4K-EA
FR-D720-0.75K-EA	FR-D740-2.2K-EA	FR-D720S-0.75K-EA
FR-D720-1.5K-EA	FR-D740-3.7K-EA	FR-D720S-1.5K-EA
FR-D720-2.2K-EA	FR-D740-5.5K-EA	FR-D720S-2.2K-EA
FR-D720-3.7K-EA	FR-D740-7.5K-EA	-
FR-D720-5.5K-EA	-	-
FR-D720-7.5K-EA	-	-

(2) FR-F700PJ series

Model	
Three-phase 200 V	Three-phase 400 V
FR-F720PJ-0.4K	FR-F740PJ-0.4K
FR-F720PJ-0.75K	FR-F740PJ-0.75K
FR-F720PJ-1.5K	FR-F740PJ-1.5K
FR-F720PJ-2.2K	FR-F740PJ-2.2K
FR-F720PJ-3.7K	FR-F740PJ-3.7K
FR-F720PJ-5.5K	FR-F740PJ-5.5K
FR-F720PJ-7.5K	FR-F740PJ-7.5K
FR-F720PJ-11K	FR-F740PJ-11K
FR-F720PJ-15K	FR-F740PJ-15K

Model	
Three-phase 200 V	Three-phase 400 V
FR-F720PJ-0.4KF	FR-F740PJ-0.4KF
FR-F720PJ-0.75KF	FR-F740PJ-0.75KF
FR-F720PJ-1.5KF	FR-F740PJ-1.5KF
FR-F720PJ-2.2KF	FR-F740PJ-2.2KF
FR-F720PJ-3.7KF	FR-F740PJ-3.7KF
FR-F720PJ-5.5KF	FR-F740PJ-5.5KF
FR-F720PJ-7.5KF	FR-F740PJ-7.5KF
FR-F720PJ-11KF	FR-F740PJ-11KF
FR-F720PJ-15KF	FR-F740PJ-15KF

(3) Related options

Name	Model
Parameter unit	FR-PU04

4. Successor models

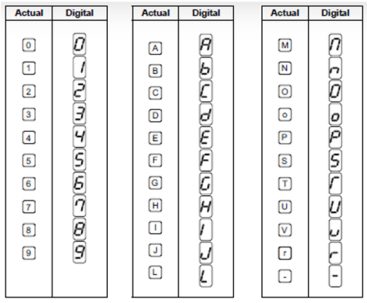
Category	Voltage class	Current model	Successor model	Supplemental information
FR-D700 standard model	Three-phase 200 V	FR-D720-□K	FR-D820-□K-[]	-
	Three-phase 400 V	FR-D740-□K	FR-D840-□K-[]	-
	Single-phase 200 V	FR-D720S-□K	FR-D820S-□K-[]	-
	Single-phase 100 V	FR-D710W-□K	FR-D810W-□K-[]	-
FR-F700PJ standard model	Three-phase 200 V	FR-F720PJ-□K	FR-D820-□K-[]	-
	Three-phase 400 V	FR-F740PJ-□K	FR-D840-□K-[]	-
FR-F700PJ with Filterpack	Three-phase 200 V	FR-F720PJ-□KF	FR-D820-□K-[]	Successor models require the purchase of the FR-BFP2 Filterpack separately.
	Three-phase 400 V	FR-F740PJ-□KF	FR-D840-□K-[]	

Note: □ in the current/successor model name indicates the applicable motor capacity, and [] in the successor model name indicates the inverter rated current (ND)(A).

Note: When replacing the current model with a successor model, refer to "5. Precautions for Replacement" for compatibility and other precautions.

5. Precautions for Replacement

(1) For all applicable models

Item	Current model	Successor model	Supplemental information
Operation panel	Only the upper 4 digits of the parameter setting value can be displayed and set. For parameters that allow values from the hundreds place to the second decimal place, such as 120.00 Hz, only the first decimal place can be set (120.0 Hz).	Up to 5 digits of the parameter setting value can be displayed and set. For a 5-digit value, the upper 1 digit and the lower 4 digits of the value are displayed alternately. However, for parameters that allow values from the hundreds place to the second decimal place, such as 120.00 Hz, only the first decimal place can be set (120.0 Hz).	-
	Characters are indicated by the 7-segment display as follows. 	Characters are indicated by the 7-segment display as follows. (Changes from the current model are indicated in red.) 	
	The parameter is indicated by displaying "P." and the parameter number.	For parameters smaller than Pr.1000, "P" and the parameter number are displayed. For Pr.1000 or larger parameters, "Pr." and the 4-digit parameter number are displayed alternately.	

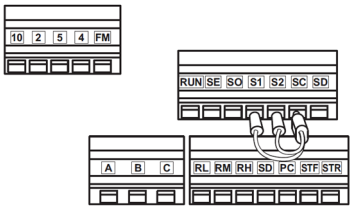
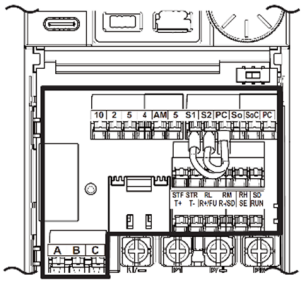
<table>
<tr><th>Item</th><th>Current model</th><th>Successor model</th><th>Supplemental information</th></tr>
<tr><td>FR-PA02</td><td>Available</td><td>Not available (Pr.146 and C22 (922) to C25 (923) are removed.)</td><td>FR-PA07 can be used.</td></tr>
<tr><td>FR-PU04</td><td>Available</td><td>Not available</td><td>FR-PU07 can be used.</td></tr>
<tr><td>Terminal FM</td><td>Available</td><td>Not available</td><td>When connecting a 1 mA full-scale analog frequency meter (e.g. KY-452, YM-206NRI) used for FM output of the FR-D700/F700PJ to terminal AM of the FR-D800, refer to the Technical News (MF-S-200).</td></tr>
<tr><td>Terminal AM</td><td>Not available</td><td>Available</td><td>The output signal range of the analog voltage output via terminal AM is 0 to +10 VDC.</td></tr>
<tr><td>Safety stop signal common terminal</td><td><table><tr><th>Terminal symbol</th><th>Current model (common terminal)</th><th>Successor model (common terminal)</th></tr><tr><td>S1</td><td>SC</td><td>PC</td></tr><tr><td>S2</td><td>SC</td><td>PC</td></tr><tr><td>SO</td><td>SC</td><td>SoC</td></tr></table></td><td colspan="2">Terminals PC and SoC are added as the common terminals.
Terminal SC is removed.</td></tr>
<tr><td>Torque boost (Pr.0)</td><td>Available</td><td>Available</td><td>Depending on the operating conditions and load conditions, the same torque boost value as that of the FR-D700/F700PJ may cause overload at start-up. Adjust the torque boost value.</td></tr>
<tr><td>Stall prevention operation level compensation factor at double speed (Pr.23)</td><td>9999: The Pr.22 (Stall prevention operation level) setting is applied.</td><td>9999: Stall prevention operation disabled at double speed.</td><td>-</td></tr>
<tr><td>Optimum excitation control (Pr.60)</td><td>Under General-purpose magnetic flux vector control, the optimum excitation function is disabled.</td><td>The function will be enabled under V/F control and Advanced magnetic flux vector control.</td><td>-</td></tr>
<tr><td>Retry selection (Pr.65)</td><td>When Pr.65 (Retry selection) = "0 or 4", the retry operation is performed when E.BE occurs.</td><td>E.BE does not trigger the retry operation.</td><td>-</td></tr>
<tr><td>Applied motor (Pr.71, Pr.450)</td><td>To select a constant-torque motor (such as SF-JRCA), set Pr.71 (Applied motor) or Pr.450 (Second applied motor) as follows.
1: Constant-torque motor (such as SF-JRCA)</td><td>To select a constant-torque motor (such as SF-JRCA), set Pr.71 (Applied motor) or Pr.450 (Second applied motor) as follows.
10: Constant-torque motor (such as SF-JRCA)</td><td>-</td></tr>
</table>

Item	Current model	Successor model	Supplemental information
Offline auto tuning (Pr.96) (for V/F control with frequency search for the automatic restart after instantaneous power failure)	To select offline auto tuning for V/F control, set the value as follows. 11: Offline auto tuning is performed without the motor rotating (under General-purpose magnetic flux vector control). 21: Offline auto tuning for V/F control	To select offline auto tuning for V/F control, set the value as follows. 1: Tuning is performed without the motor rotating. 11: Offline auto tuning for V/F control	-
PWM frequency automatic switchover (Pr.260)	To enable the carrier frequency auto-reduction, set the value as follows. 1: When the load increases, the PWM carrier frequency is reduced.	To enable the carrier frequency auto-reduction, set the value as follows. 10: When the load increases, the PWM carrier frequency is reduced.	For the FR-D800, the carrier frequency will reduce automatically with continuous operation of 85% of the inverter rated current or higher for the SLD rating, or 150% or higher for the ND rating.
V/F control	To select V/F control, set Pr.80 (Motor capacity) as follows. 9999: V/F control	To select V/F control, set Pr.800 (Control method selection) as follows. 40: V/F control	-
General-purpose magnetic flux vector control	Available	Not available	Advanced magnetic flux vector control is the updated function of General-purpose magnetic flux vector control.
Advanced magnetic flux vector control	Not available	To select Advanced magnetic flux vector control, set Pr.71 (Applied motor), Pr.80 (Motor capacity), Pr.81 (Number of motor poles), and Pr.800 (Control method selection) as follows. Pr.71 (Applied motor) Setting value for induction motor Pr.80 (Motor capacity) Other than 9999 Pr.81 (Number of motor poles) Other than 9999 Pr.800 (Control method selection) 20: Advanced magnetic flux vector control	Advanced magnetic flux vector control can be used to adjust the slip compensation amount and thus keep the motor speed under load torque constant. The motor speed fluctuation amount can be adjusted with Pr.89 (Speed control gain). In addition, the auto-tuning function enables highly accurate calculation by the inverter to measure and record the motor circuit constants, thus widening the speed control range compared to using General-purpose magnetic flux vector control.
Warning: Incorrect parameter setting	Not available	"SE" is displayed. SE	According to the control method setting (Pr.800), the warning is displayed in the following case: A start command is input while the condition to start operation is not satisfied in the motor setting (Pr.71, Pr.80, or Pr.81).
Warning: Overcurrent stall prevention	"OL" is displayed. OL	"OLC" is displayed. oLC	-
Warning: Overvoltage stall prevention	"oL" is displayed. oL	"OLV" is displayed. oLu	-
Fault history	Up to 8 fault records can be stored.	Up to 10 fault records can be stored.	-

(2) FR-D700 series

<table>
<tr><th>Item</th><th>Description</th><th>Supplemental information</th></tr>
<tr><td>Outline dimensions</td><td>The outline dimensions are compatible.
However, the dimensions are different between the current model and the FR-D800 inverter for some capacity models. The following table shows applicable models.
<table>
<tr><th>Voltage/capacity</th><th>Width</th><th>Height</th><th>Depth</th></tr>
<tr><td>3-phase 200 V-0.4K</td><td>-</td><td>-</td><td>112.5 mm → 102.5 mm</td></tr>
<tr><td>3-phase 200 V-1.5K, 2.2K</td><td>-</td><td>-</td><td>135.5 mm → 132.5 mm</td></tr>
<tr><td>3-phase 200 V-3.7K</td><td>170 mm → 108 mm</td><td>-</td><td>-</td></tr>
<tr><td>3-phase 200 V-5.5K, 7.5K</td><td>-</td><td>(Note 1)</td><td>-</td></tr>
<tr><td>3-phase 200 V-11K, 15K</td><td>-</td><td>(Note 2)</td><td>-</td></tr>
<tr><td>3-phase 400 V-0.4K, 0.75K</td><td>108 mm → 68 mm</td><td>-</td><td>-</td></tr>
<tr><td>3-phase 400 V-1.5K</td><td>108 mm → 68 mm</td><td>-</td><td>135.5 mm → 167.5 mm</td></tr>
<tr><td>3-phase 400 V-3.7K</td><td>-</td><td>-</td><td>165.5 mm → 155.5 mm</td></tr>
<tr><td>3-phase 400 V-5.5K, 7.5K</td><td>-</td><td>(Note 1)</td><td>-</td></tr>
<tr><td>3-phase 400 V-11K, 15K</td><td>220 mm → 180 mm</td><td>(Note 2)</td><td>-</td></tr>
<tr><td>1-phase 200 V-0.4K</td><td>-</td><td>-</td><td>142.5 mm → 132.5 mm</td></tr>
<tr><td>1-phase 200 V-0.75K</td><td>-</td><td>-</td><td>162.5 mm → 142.5 mm</td></tr>
<tr><td>1-phase 200 V-1.5K</td><td>-</td><td>-</td><td>155.5 mm → 145 mm</td></tr>
<tr><td>1-phase 200 V-2.2K</td><td>140 mm → 108 mm</td><td>150 mm → 128 mm</td><td>-</td></tr>
<tr><td>1-phase 100 V-0.4K</td><td>-</td><td>-</td><td>142.5 mm → 132.5 mm</td></tr>
<tr><td>1-phase 100 V-0.75K</td><td>-</td><td>-</td><td>149.5 mm → 145 mm</td></tr>
</table></td><td>(Note 1)
There is a 2 mm protrusion of the head at the cooling fan cover fixing screw.

(Note 2)
There is a 3 mm protrusion of the head at the cooling fan cover fixing screw.</td></tr>
<tr><td>Installation size</td><td>The installation size of some FR-D800 models is different as they are compact.
For the following models, the intercompatibility attachment can be used to overcome this issue.
<table>
<tr><th>Voltage/capacity</th><th>Intercompatibility attachment</th></tr>
<tr><td>3-phase 200 V-3.7K</td><td>FR-E8AT03</td></tr>
<tr><td>3-phase 400 V-0.4K to 1.5K</td><td>FR-D8AT01</td></tr>
<tr><td>3-phase 400 V-11K, 15K</td><td>FR-D8AT02</td></tr>
<tr><td>1-phase 200 V-2.2K</td><td>FR-E7AT02</td></tr>
</table></td><td>-</td></tr>
<tr><td>Panel through attachment</td><td>Refer to the Technical News (MF-K-201).</td><td>-</td></tr>
</table>

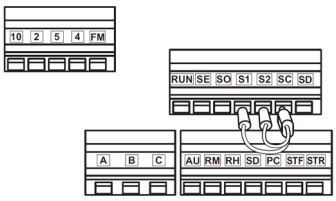
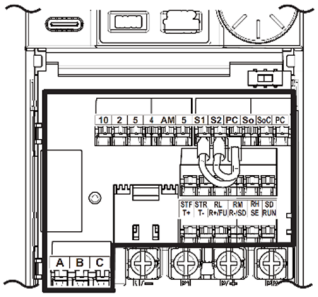
<table>
<tr><th>Item</th><th>Description</th><th>Supplemental information</th></tr>
<tr><td>EMC filter</td><td>Different EMC filters are used for the FR-D800 following the replacement. The product complies with the EMC Directive (EN 61800-3 2nd environment (Class 3)), KN standards, and Radio Waves Act (South Korea) (KS C 9800-3:2017).
<table>
<tr><th>Voltage/capacity</th><th>Current model's filter</th><th>Successor model's filter</th></tr>
<tr><td>3-phase 200 V-0.1K</td><td>SF1306</td><td>FN3288-10-44-C21-R65</td></tr>
<tr><td>3-phase 200 V-0.2K</td><td>SF1306</td><td>FN3288-10-44-C21-R65</td></tr>
<tr><td>3-phase 200 V-0.4K</td><td>SF1306</td><td>FN3288-10-44-C21-R65</td></tr>
<tr><td>3-phase 200 V-0.75K</td><td>SF1306</td><td>FN3288-10-44-C21-R65</td></tr>
<tr><td>3-phase 200 V-1.5K</td><td>SF1306</td><td>FN3288-16-44-C21-R65</td></tr>
<tr><td>3-phase 200 V-2.2K</td><td>SF1309</td><td>FN3288-25-33-C21-R65</td></tr>
<tr><td>3-phase 200 V-3.7K</td><td>SF1309</td><td>FN3288-40-33-C21-R65</td></tr>
<tr><td>3-phase 200 V-5.5K</td><td>SF1260</td><td>FN3288-50-53-C21-R65</td></tr>
<tr><td>3-phase 200 V-7.5K</td><td>SF1260</td><td>FN3288-63-53-C21-R65</td></tr>
<tr><td>3-phase 200 V-11K</td><td>SF1260</td><td>FN3288-80-34-C21-R65</td></tr>
<tr><td>3-phase 200 V-15K</td><td>SF1261</td><td>FN3288-100-35-C21-R65</td></tr>
<tr><td>3-phase 400 V-0.4K</td><td>FR-E5NF-H0.75K</td><td>FN3288-10-44-C34-R65</td></tr>
<tr><td>3-phase 400 V-0.75K</td><td>FR-E5NF-H0.75K</td><td>FN3288-10-44-C34-R65</td></tr>
<tr><td>3-phase 400 V-1.5K</td><td>FR-E5NF-H3.7K</td><td>FN3288-10-44-C34-R65</td></tr>
<tr><td>3-phase 400 V-2.2K</td><td>FR-E5NF-H3.7K</td><td>FN3288-16-44-C35-R65</td></tr>
<tr><td>3-phase 400 V-3.7K</td><td>FR-E5NF-H3.7K</td><td>FN3288-20-33-C35-R65</td></tr>
<tr><td>3-phase 400 V-5.5K</td><td>FR-E5NF-H7.5K</td><td>FN3288-25-33-C35-R65</td></tr>
<tr><td>3-phase 400 V-7.5K</td><td>FR-E5NF-H7.5K</td><td>FN3288-40-33-C35-R65</td></tr>
<tr><td>3-phase 400 V-11K</td><td>SF1175</td><td>FN3288-40-33-C35-R65</td></tr>
<tr><td>3-phase 400 V-15K</td><td>SF1175</td><td>FN3288-50-53-C35-R65</td></tr>
<tr><td>1-phase 200 V-0.1K</td><td>FR-S5NFSA-0.75K</td><td>FN3288-10-44-C21-R65</td></tr>
<tr><td>1-phase 200 V-0.2K</td><td>FR-S5NFSA-0.75K</td><td>FN3288-10-44-C21-R65</td></tr>
<tr><td>1-phase 200 V-0.4K</td><td>FR-S5NFSA-0.75K</td><td>FN3288-10-44-C21-R65</td></tr>
<tr><td>1-phase 200 V-0.75K</td><td>FR-S5NFSA-0.75K</td><td>FN3288-16-44-C21-R65</td></tr>
<tr><td>1-phase 200 V-1.5K</td><td>FR-S5NFSA-1.5K</td><td>FN3288-25-33-C21-R65</td></tr>
<tr><td>1-phase 200 V-2.2K</td><td>SF1309</td><td>FN3288-25-33-C21-R65</td></tr>
<tr><td>1-phase 100 V-0.1K</td><td>FR-S5NFSA-0.75K</td><td>FN3288-10-44-C21-R65</td></tr>
<tr><td>1-phase 100 V-0.2K</td><td>FR-S5NFSA-0.75K</td><td>FN3288-10-44-C21-R65</td></tr>
<tr><td>1-phase 100 V-0.4K</td><td>FR-S5NFSA-0.75K</td><td>FN3288-10-44-C21-R65</td></tr>
<tr><td>1-phase 100 V-0.75K</td><td>FR-S5NFSA-1.5K</td><td>FN3288-25-33-C21-R65</td></tr>
</table></td><td>-</td></tr>
<tr><td>Control circuit terminals</td><td>Spring clamp terminals are used.
 
</td><td>Although spring clamp terminals are used as well as on the FR-D700, the terminal layout is different.
[Changes of the terminal layout]
· Terminal FM is removed and terminal AM is added.
· Terminal SC is removed and terminals PC and SoC are added.
  </td></tr>
</table>

Item	Current model	Successor model	Supplemental information
Speed display	The value set in Pr.37 (Speed display) switches the speed display. To display the machine speed, set Pr.37 to the value which corresponds to the speed of machine operated at 60 Hz.	The value set in Pr.53 (Frequency / rotation speed unit switchover) switches the speed display unit. To display the machine speed, set Pr.37 (Speed display) to the value which corresponds to the speed of machine operated at the frequency set in Pr.505 (Speed setting reference).	-

(3) FR-F700PJ series

<table>
<tr><th>Item</th><th>Description</th><th>Supplemental information</th></tr>
<tr><td>Outline dimensions</td><td>The outline dimensions are compatible.
However, the dimensions are different between the current model and the FR-D800 inverter for some capacity models.
<table>
<tr><th>Voltage/capacity</th><th>Width</th><th>Height</th><th>Depth</th></tr>
<tr><td>3-phase 200 V-0.4K</td><td>-</td><td>-</td><td>112.5 mm → 102.5 mm</td></tr>
<tr><td>3-phase 200 V-1.5K, 2.2K</td><td>-</td><td>-</td><td>135.5 mm → 132.5 mm</td></tr>
<tr><td>3-phase 200 V-3.7K</td><td>170 mm → 108 mm</td><td>-</td><td>-</td></tr>
<tr><td>3-phase 200 V-5.5K, 7.5K</td><td>-</td><td>(Note 1)</td><td>-</td></tr>
<tr><td>3-phase 200 V-11K, 15K</td><td>-</td><td>(Note 2)</td><td>-</td></tr>
<tr><td>3-phase 400 V-0.4K, 0.75K</td><td>108 mm → 68 mm</td><td>-</td><td>-</td></tr>
<tr><td>3-phase 400 V-1.5K</td><td>108 mm → 68 mm</td><td>-</td><td>135.5 mm → 167.5 mm</td></tr>
<tr><td>3-phase 400 V-3.7K</td><td>-</td><td>-</td><td>165.5 mm → 155.5 mm</td></tr>
<tr><td>3-phase 400 V-5.5K, 7.5K</td><td>-</td><td>(Note 1)</td><td>-</td></tr>
<tr><td>3-phase 400 V-11K, 15K</td><td>220 mm → 180 mm</td><td>(Note 2)</td><td>-</td></tr>
</table></td><td>(Note 1)
There is a 2 mm protrusion of the head at the cooling fan cover fixing screw.

(Note 2)
There is a 3 mm protrusion of the head at the cooling fan cover fixing screw.</td></tr>
<tr><td>Installation size</td><td>The installation size of some FR-D800 models is different as they are compact.
For the following models, the intercompatibility attachment can be used to overcome this issue.
<table>
<tr><th>Voltage/capacity</th><th>Intercompatibility attachment</th></tr>
<tr><td>3-phase 200 V-3.7K</td><td>FR-E8AT03</td></tr>
<tr><td>3-phase 400 V-0.4K to 1.5K</td><td>FR-D8AT01</td></tr>
<tr><td>3-phase 400 V-11K, 15K</td><td>FR-D8AT02</td></tr>
</table></td><td>-</td></tr>
</table>

<table>
<tr><th>Item</th><th>Description</th><th>Supplemental information</th></tr>
<tr><td>EMC filter</td><td>Different EMC filters are used for the FR-D800 following the replacement.
The product complies with the EMC Directive (EN 61800-3 2nd environment (Class 3)), KN standards, and Radio Waves Act (South Korea) (KS C 9800-3:2017).
<table>
<tr><th>Voltage/capacity</th><th>Current model's filter</th><th>Successor model's filter</th></tr>
<tr><td>3-phase 200 V-0.4K</td><td>SF1306</td><td>FN3288-10-44-C21-R65</td></tr>
<tr><td>3-phase 200 V-0.75K</td><td>SF1306</td><td>FN3288-10-44-C21-R65</td></tr>
<tr><td>3-phase 200 V-1.5K</td><td>SF1306</td><td>FN3288-16-44-C21-R65</td></tr>
<tr><td>3-phase 200 V-2.2K</td><td>SF1309</td><td>FN3288-25-33-C21-R65</td></tr>
<tr><td>3-phase 200 V-3.7K</td><td>SF1309</td><td>FN3288-40-33-C21-R65</td></tr>
<tr><td>3-phase 200 V-5.5K</td><td>SF1260</td><td>FN3288-50-53-C21-R65</td></tr>
<tr><td>3-phase 200 V-7.5K</td><td>SF1260</td><td>FN3288-63-53-C21-R65</td></tr>
<tr><td>3-phase 200 V-11K</td><td>SF1260</td><td>FN3288-80-34-C21-R65</td></tr>
<tr><td>3-phase 200 V-15K</td><td>SF1261</td><td>FN3288-100-35-C21-R65</td></tr>
<tr><td>3-phase 400 V-0.4K</td><td>FR-E5NF-H0.75K</td><td>FN3288-10-44-C34-R65</td></tr>
<tr><td>3-phase 400 V-0.75K</td><td>FR-E5NF-H0.75K</td><td>FN3288-10-44-C34-R65</td></tr>
<tr><td>3-phase 400 V-1.5K</td><td>FR-E5NF-H3.7K</td><td>FN3288-10-44-C34-R65</td></tr>
<tr><td>3-phase 400 V-2.2K</td><td>FR-E5NF-H3.7K</td><td>FN3288-16-44-C35-R65</td></tr>
<tr><td>3-phase 400 V-3.7K</td><td>FR-E5NF-H3.7K</td><td>FN3288-20-33-C35-R65</td></tr>
<tr><td>3-phase 400 V-5.5K</td><td>FR-E5NF-H7.5K</td><td>FN3288-25-33-C35-R65</td></tr>
<tr><td>3-phase 400 V-7.5K</td><td>FR-E5NF-H7.5K</td><td>FN3288-40-33-C35-R65</td></tr>
<tr><td>3-phase 400 V-11K</td><td>SF1175</td><td>FN3288-40-33-C35-R65</td></tr>
<tr><td>3-phase 400 V-15K</td><td>SF1175</td><td>FN3288-50-53-C35-R65</td></tr>
</table></td><td>-</td></tr>
<tr><td>Control circuit terminals</td><td>Spring clamp terminals are used.
 
</td><td>Although spring clamp terminals are used as well as on the FR-F700PJ, the terminal layout is different.
[Changes of the terminal layout]
· Terminal FM is removed and terminal AM is added.
· Terminal SC is removed and terminals PC and SoC are added.
· Terminal AU is removed and terminal RL is added.
 
</td></tr>
</table>

<table>
<tr><th>Item</th><th>Current model</th><th>Successor model</th><th>Supplemental information</th></tr>
<tr><td>Speed display</td><td>The combination of the values set in Pr.37 (Speed display) and Pr.144 (Speed setting switchover) switches the speed display.
To display the machine speed, set Pr.37 to the value which corresponds to the speed of machine operated at the frequency set in Pr.505 (Speed setting reference), and set Pr.144 to the number of motor poles (2, 4, 6, 8, or 10).</td><td>The value set in Pr.53 (Frequency / rotation speed unit switchover) switches the speed display unit. To display the machine speed, set Pr.37 (Speed display) to the value which corresponds to the speed of machine operated at the frequency set in Pr.505 (Speed setting reference).</td><td>-</td></tr>
<tr><td>PWM frequency selection (Pr.72)</td><td colspan="2">For PM sensorless vector control, configure the setting referring to the FR-D800 Instruction Manual (Function). The carrier frequency value is different from that of the FR-F700PJ.</td><td>-</td></tr>
<tr><td>Overspeed detection level (Pr.374)</td><td>9999: No function</td><td>9999:
E.OS occurs when the frequency exceeds the value calculated by adding 10 Hz to the maximum motor frequency (Pr.702).
When Pr.702 (Maximum motor frequency) = "9999", the value set in Pr.84 (Rated motor frequency) is used as the maximum motor frequency.</td><td>-</td></tr>
<tr><td>Stop mode selection at communication error (Pr.502)</td><td>Select the operation at a communication error occurrence by setting "0 to 2, or 3".</td><td>Select the operation at a communication error occurrence by setting "0 to 2, or 6".</td><td>When "3" is set for the FR-F700PJ, set "6" for the FR-D800. Note that CF warning is output at error occurrence when "6" is set for the FR-D800.</td></tr>
<tr><td>PM parameter initialization (Pr.998)</td><td>To use the MM-EF/MM-EFS motor, set Pr.998 = "1, 12, 101, or 112".
<table><tr><th>Pr. No.</th><th>Current model setting</th><th>Successor model setting</th></tr><tr><td rowspan="2">Pr.998</td><td>1, 12</td><td>8009</td></tr><tr><td>101, 112</td><td>8109</td></tr></table></td><td>To use the MM-EF/MM-EFS motor, set Pr.71 = "8090 or 8093" and perform offline auto tuning for PM motors.</td><td>-</td></tr>
<tr><td>Applied motor (Pr.71)</td><td>To select the IPM motor, set as follows.
120: High-efficiency IPM motor (MM-EF)
210: Premium high-efficiency IPM motor (MM-EFS)</td><td>To select the IPM motor, set as follows.
8090: IPM motor</td><td>-</td></tr>
</table>