

■VF-nC3 software version up information

The changed specification points by software version up (V106→V108→V110) are followings.

The instruction manual E6581597①(Attached) and E6581595①(Detailed) attached with product is base on V106, so following contents are different.

The software version can be checked by the "CPU1 version" of status monitor. Refer to "8.2 Status monitor mode".

Added parameters

Title	Communication No.	Description																				
<i>F 3 1 5</i> (V110)	0315	<i>F 3 1 5</i> : Factory specific coefficient 3A Factory specific coefficient parameter is manufacturer setting parameter. Do not change the value.																				
<i>F 4 9 1</i> (V108)	0491	<i>F 4 9 1</i> : Motor specific coefficient 10 Motor specific coefficient parameter is manufacturer setting parameter. Do not change the value.																				
<i>F 7 1 9</i> (V108)	0719	<i>F 7 1 9</i> : Selection of operation command clear Default setting : 1 <table border="1"><tr><th colspan="2">Adjustment range</th></tr><tr><td>0:</td><td>Clear at coast stop and retained at <i>nOFFF</i></td></tr><tr><td>1:</td><td>Retained at coast stop and <i>nOFFF</i></td></tr><tr><td>2:</td><td>Clear at coast stop and <i>nOFFF</i></td></tr></table> This parameter allows you to select operation command retained or operation command canceled, when coast stop occurs due to standby terminal function (ST) or coast stop command terminal function(FRR), and when under voltage in main circuit alarm(<i>nOFFF</i>) occurs, during panel operation or RS485 communication operation. <table border="1"><tr><th>Parameter setting</th><th>At coast stop</th><th>At under voltage in main circuit alarm(<i>nOFFF</i>)</th></tr><tr><td><i>F 7 1 9</i>=0</td><td>Operation command canceled</td><td>Operation command retained</td></tr><tr><td><i>F 7 1 9</i>=1</td><td colspan="2">Operation command retained</td></tr><tr><td><i>F 7 1 9</i>=2</td><td colspan="2">Operation command canceled</td></tr></table> Operation command retained : Inverter restarts due to canceling coast stop at coast stop. Inverter restarts due to supply power source again when the under voltage in main circuit alarm (<i>nOFFF</i>) occurs. Operation command canceled : Inverter doesn't restart after coast stop or occurring the under voltage in main circuit alarm (<i>nOFFF</i>). Press RUN key to operate again in panel operation. Switch to ON the operation command in RS485 communication operation.	Adjustment range		0:	Clear at coast stop and retained at <i>nOFFF</i>	1:	Retained at coast stop and <i>nOFFF</i>	2:	Clear at coast stop and <i>nOFFF</i>	Parameter setting	At coast stop	At under voltage in main circuit alarm(<i>nOFFF</i>)	<i>F 7 1 9</i> =0	Operation command canceled	Operation command retained	<i>F 7 1 9</i> =1	Operation command retained		<i>F 7 1 9</i> =2	Operation command canceled	
Adjustment range																						
0:	Clear at coast stop and retained at <i>nOFFF</i>																					
1:	Retained at coast stop and <i>nOFFF</i>																					
2:	Clear at coast stop and <i>nOFFF</i>																					
Parameter setting	At coast stop	At under voltage in main circuit alarm(<i>nOFFF</i>)																				
<i>F 7 1 9</i> =0	Operation command canceled	Operation command retained																				
<i>F 7 1 9</i> =1	Operation command retained																					
<i>F 7 1 9</i> =2	Operation command canceled																					
<i>F 8 0 5</i> (V108)	0805	<i>F 8 0 5</i> : Communication waiting time Default setting : 0.00 Adjustment range : 0.00~2.00 Unit : s Communication waiting time can be changed by panel or communication operation.																				

Changed (improved) specifications

Item	Before changing (V106)	After changing (V108)	Page
The assignment of input terminal function to Always Active Function Selection(<i>F 1 0 8</i> and <i>F 1 1 0</i>)	The assignment of input terminal function reset command (8: RES. 9: RESN) to Always Active Function Selection (<i>F 1 0 8</i> and <i>F 1 1 0</i>) is effective .	The assignment of input terminal function reset command (8: RES. 9: RESN) to Always Active Function Selection (<i>F 1 0 8</i> and <i>F 1 1 0</i>) is ineffective .	F-7 K-4 K-16
<i>E F 2</i> trip Grand fault detection	The grand fault is detected only at power source on .	The grand fault is detected at power source on and in operation .	M-1
<i>0 C 1</i> , <i>0 C 2</i> , <i>0 C 3</i> trip	-	Added grand fault as the reason of <i>0 C 1</i> , <i>0 C 2</i> , <i>0 C 3</i> trip.	M-3
Start-up time for Auto-restart control selection <i>F 3 0 1</i> =4(At start-up) setting	It takes about 3 seconds to detect the motor speed at restart-up.	It takes about 1 second to detect the motor speed at restart-up.	F-26
Parameter <i>F 4 0 1</i> Slip frequency gain	Adjustment range : 0~ 150	Adjustment range : 0~ 250	F-38 K-8
Parameter <i>F 6 2 1</i> Cumulative operation time alarm setting	Adjustment range : 0.0~ 999.9	Adjustment range : 0.0~ 999.0	F-51 H-8 K-10

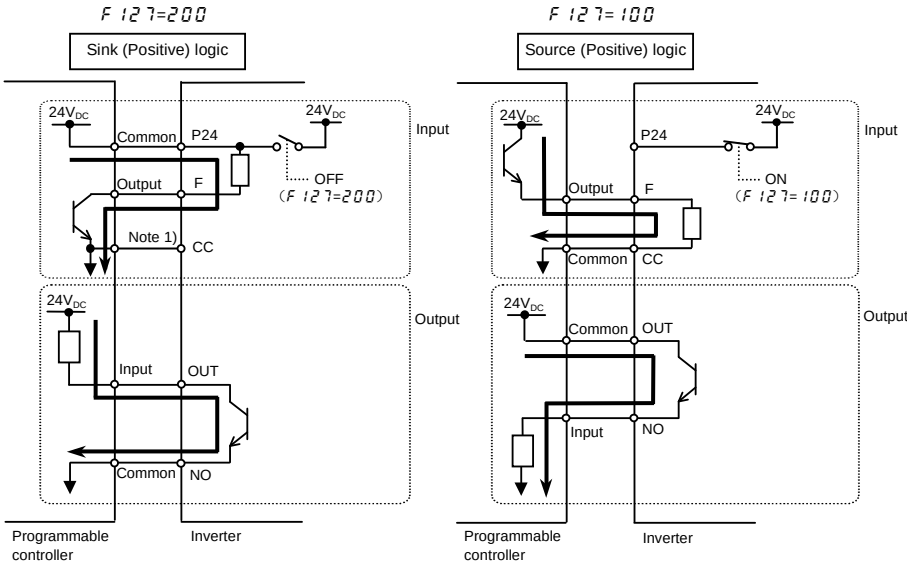
■Errata sheet

This errata sheet provides updated information on VF-nc3 Instruction Manual E6581597①(Attached) and E6581595① (Detailed).

No.	Page	Error	Correct
1	F-18	Note 2: During DC braking, the carrier frequency becomes the setting of <u>parameter F300 (PWM carrier frequency).</u>	Note 2: During DC braking, the carrier frequency becomes the setting of <u>whichever is lower parameter F249 or F300.</u>
2	M-3	Trip information <u>E r r 7</u>	There is not trip information <u>E r r 7</u> .
3	H-7	Note 3: The input (DC) voltage displayed is $1/\sqrt{2}$ times as large as the rectified d.c. input voltage. <u>In case of 1ph-120, displayed value is 1/2 times in addition.</u>	Note 3: The input (DC) voltage displayed is $1/\sqrt{2}$ times as large as the rectified d.c. input voltage. <u>In case of 1ph-120, the voltage was raised to twice as large as by voltage double rectifier circuit and displayed the value is $1/\sqrt{2}$ times as large as the rectified d.c. input voltage.</u> <u>(Example : In case of AC100V input, displayed value is "200V")</u>
4	K-1	Adjustment range <u>RU2=0 : Disabled</u>	Adjustment range <u>RU2=0 : -</u>
	K-5	<u>F108, F110=0-123</u>	<u>F108, F110=0-7, 10-123 (8, 9 : -)</u>
	K-12	<u>F707=0.00 : Disabled</u>	<u>F707=0.00: Automatic</u>

■Examples of connections when an external power supply is used (page B-11)

Updated information on VF-nc3 Instruction Manual E6581597①(Attached) and E6581595①(Detailed).



Note 1) Be sure to connect 0V of external power supply and CC terminal of the inverter.

■ Trip information

Updated information on VF-nC3 Instruction E6581597①(Attached) and E6581595①(Detailed).

[Trip information] (page M-2 and M-3)

Error code	Failure code	Problem	Possible causes	Remedies
OL 1	000D	Inverter overload	• The acceleration time ACC is too short. • The DC braking amount is too large. • The V/F setting is improper. • A restart signal is input to the rotating motor after a momentary stop, etc. • The load is too large.	• Increase the acceleration time ACC. • Reduce the DC braking amount F251 and the DC braking time F252. • Check the V/F parameter setting. • Use F301 (auto-restart) and F302 (ride-through control). • Use an inverter with a larger rating. • Set the setting of F300=4 and less.
Et0 Et01 Et02 Et03	0028 0054 0055 0056	Auto-tuning error	• The motor parameter UL, ULU, F405, F415, F417 are not set correctly. • The motor with the capacity of 2 classes or less than the inverter is used. • The output cable is too thin. • The inverter is used for loads other than those of three-phase induction motors. • The motor is not connected. • The motor is rotating.	• Set the left column parameters correctly as a motor name plate and make an auto-tuning again. • Set parameter F415 to smaller 70% of the present value, and execute the auto-tuning again. • Set the left column parameters correctly as a motor name plate and make an auto-tuning again. • Then set F400=1, when trip occurs. • Connect the motor. • Check whether the secondary magnetic contactor. • Make an auto-tuning again after the rotation of the motor stops.