Inverter(VFD) Setting Manual (MITSUBISHI)

⇨ Model (E500 / E700 / D700 / A800 / F800 Series)

Voltage	Blower for 3Ø 220V or 380V
Rotating Direction	Check whether it rotate clockwise (on the cooling fan side) with 100Hz drive after setting the inverter
Blower capacity	Drive below the rated capacity (electric current)
Minimum frequency	When continuous drive, set the frequency over 100Hz

1 Pr.0 Torque Boost

2.0

※ Recommend : 2.0
Applicable Range : 1.5~2.5

2 Pr.18 High-speed Maximum Frequency

Refer to "TABLE 1"

★ex) 3S-CA1000 : 320Hz

3 Pr.3 Base Frequency

Refer to "TABLE 1"

★ex) 3S-CA1000 : 320Hz

4 Pr.7 Acceleration Time

20 (Recommend)

※ Possible over 20 depending on the site conditions.

5 Pr.8 Deceleration Time

60 (Recommend)

※ Possible over 60 depending on the site conditions.

6 Pr.14 Load Pattern

0 (Constant Torque)

※ F800 Model must be set to "0"

7 Pr.19 Base Frequency Voltage

220V (Δ wiring)
380V (Y wiring)

※ Must set the voltage value following motor wiring type

8 Pr.20 Acceleration/deceleration reference frequency

Refer to "TABLE 1"

★ex) 3S-CA1000 : 320Hz

9 Pr.72 PWM Frequency

7 (Recommend)

※ Refer to "Attention No.4"

10 Pr.250 Stop (Free Run)

0

※ During Stop, "RUN" is prohibited

Attention

1. Check the inverter input voltage and blower rated voltage. (Please check the wiring diagram inside the terminal box.)
2. Be sure to check the direction of rotation on the cooling fan side (Check clockwise rotation by driving at 10Hz)
3. In case of free run (stop), please operate "Run" after 20 sec.
4. Please change the PWM frequency (Pr.72) following the wiring length (Over 100m: 2 or less)
5. When operating the frequency (Hz) with button at the external terminal,
   - Enter the value of "Table 1" for Pr.125(Terminal 2 frequency setting gain frequency)
   - Enter the value of "Table 1" for Pr.126(Terminal 4 frequency setting gain frequency)
6. Do not drive below 100Hz during continuous operation.
7. For other details, refer to the inverter manufacturer's manual.

"TABLE 1"

Model Number (CENAIR BLOWER)	Frequency
3S-CA500	270 Hz
3S-CA750	290 Hz
★ex) 3S-CA1000	320 Hz
3S-CA1500	340 Hz
3L-CA1000	310 Hz
3L-CA1500	340 Hz
4S-CA1000	310 Hz
4S-CA1500	320 Hz
4L-CA2000	300 Hz

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Inverter(VFD) Setting Manual (LS)

⇨ Model (iG5A Series)

Voltage	Blower for 3Ø 220V or 380V
Rotating Direction	Check whether it rotate clockwise (on the cooling fan side) with 100Hz drive after setting the inverter
Blower capacity	Drive below the rated capacity (electric current)
Minimum frequency	When continuous drive, set the frequency over 100Hz

1 ACC Acceleration Time
20 (Recommend)
※ Possible over 20 depending on the site conditions.

2 dEC Deceleration Time
60 (Recommend)
※ Possible over 60 depending on the site conditions.

3 F4 Stop Mode
2 (Free-Run)
※ During Free-Run, operation is prohibited

4 F21 Maxumum Frequency
Refer to "TABLE 1"
※ ex) 3S-CA1000 : 320Hz

5 F22 Base Frequency
Refer to "TABLE 1"
※ ex) 3S-CA1000 : 320Hz

6 F39 Output Voltage Adjustment
Refer to "TABLE 2"
※ ex) 200V : 110.00%

7 H31 Number of Motor Pole
2
※ CENAIR Blower: 2 Pole

8 H33 Motor Rated Current
Refer to "TABLE 3"
※ ex) 3S-CA1000 : 14.5A(380V)

9 H39 Carrier Frequency
4
※ Recommend : 4
Refer to "Attention No. 4"

10 I5 NV Input Maximum Voltage
Refer to "TABLE 1"
※ ex) 3S-CA1000 : 320Hz

11 I10 V1 Input Maximum Voltage
Refer to "TABLE 1"
※ ex) 3S-CA1000 : 320Hz

12 I15 I Input Maximum Voltage
Refer to "TABLE 1"
※ ex) 3S-CA1000 : 320Hz

Attention

1. Check the inverter input voltage and blower rated voltage.
2. Be sure to check the direction of rotation on the cooling fan side (Check clockwise rotation by driving at 10Hz)
3. In case of free run (stop), please operate "Run" after 20 sec.
4. Carrier frequency (H39) is changed according to wire length (Over 100m: 2.5 or less)
5. Drv (Drive Group): Please set "0" when the inverter starts.
6. Do not drive below 100Hz during continuous operation.
7. For other details, refer to the inverter manufacturer's manual.

"TABLE 1"

MODEL	Frequency
3S-CA500	270
3S-CA750	290
★ex) 3S-CA1000	320
3S-CA1500	340
3L-CA1000	310
3L-CA1500	340
4S-CA1000	310
4S-CA1500	320
4L-CA2000	300

"TABLE 2"

★ex) 200V	110.00%	350V	108.57%
210V	104.76%	360V	105.56%
220V	100.00%	370V	102.70%
230V	95.65%	380V	100.00%
240V	91.67%	390V	97.44%
250V	88.00%	400V	95.00%
260V	84.62%	410V	92.68%
270V	81.48%	420V	90.48%
280V	78.57%	430V	88.37%
290V	75.86%	440V	86.36%

"TABLE 3"

Voltage	3.7kW (5HP)	5.6kW (7.5HP)	★ex) 7.5kW (10HP)	11.3kW (15HP)	15kW (20HP)
220V	12.5A	18.5A	24.6A	37A	49.2A
380V	7.5A	10.7A	14.5A	21.4A	28.5A

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Inverter(VFD) Setting Manual (LS)

Clean Energy! Clean World!
KUNWOO Tech.

⇨ Model (LSLV-S100 / G100 Series)

Voltage	Blower for 3Ø 220V or 380V
Rotating Direction	Check whether it rotate clockwise (on the cooling fan side) with 100Hz drive after setting the inverter
Blower capacity	Drive below the rated capacity (electric current)
Minimum frequency	When continuous drive, set the frequency over 100Hz

1 dr/3 Acceleration Time
20 (Recommend)
※ Possible over 20 depending on the site conditions.

2 dr/4 Deceleration Time
60 (Recommend)
※ Possible over 60 depending on the site conditions.

3 dr/18 Base Frequency
Refer to "TABLE 1"
※ ex) 3S-CA1000 : 320Hz

4 dr/20 Maxumum Frequency
Refer to "TABLE 1"
※ ex) 3S-CA1000 : 320Hz

5 bA/11 Number of Motor Pole
2
※ CENAIR Blower: 2 Pole

6 bA/13 Motor Rated Current
Refer to "TABLE 2"
※ ex) 3S-CA1000 : 14.5A(380V)

7 bA/15 Motor Rated Voltage
220V (Δ wiring)
380V (Y wiring)
※ Must set the voltage value following motor wiring type

8 Cn/4 Carrier frequency
4
※ Recommend : 4
Refer to "Attention No. 4"

9 Ad/8 Stop mode
2 (Free-Run)
※ During Free-Run, operation is prohibited

Attention

1. Check the inverter input voltage and blower rated voltage.
2. Be sure to check the direction of rotation on the cooling fan side (Check clockwise rotation by driving at 10Hz)
3. In case of free run (stop), please operate "Run" after 20 sec.
4. Carrier frequency (Cn/4) is changed according to wire length (Over 100m: 2.5 or less)
5. Drv (Drive Group): Please set "0" when the inverter starts.
6. Do not drive below 100Hz during continuous operation.
7. For other details, refer to the inverter manufacturer's manual.

"TABLE 1"

MODEL	Frequency
3S-CA500	270
3S-CA750	290
★ex) 3S-CA1000	320
3S-CA1500	340
3L-CA1000	310
3L-CA1500	340
4S-CA1000	310
4S-CA1500	320
4L-CA2000	300

"TABLE 2"

Voltage	3.7kW (5HP)	5.6kW (7.5HP)	★ex) 7.5kW (10HP)	11.3kW (15HP)	15kW (20HP)
220V	12.5A	18.5A	24.6A	37A	49.2A
380V	7.5A	10.7A	14.5A	21.4A	28.5A

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