5) Terminal Connection Diagrams





The instruction will describe on the use and points for attention of products. Before installing, please be sure to carefully read the Installation Instructions, so that the inverter can be used in proper and safe way.

1) Safety Instructions

Installation Guide

- Safety Instructions Installation, operation, maintenance and inspection must be performed by qualified personnel.
- In this instruction, the safety instruction levels are classified into "Warning" and "Caution".
- AWarning: Incorrect handling may cause hazardous conditions, resulting in death or severe injury.
- 🖄 Caution: Incorrect handling may cause hazardous conditions, resulting in medium or slight injury, or may cause only material damage. AWrning

✓ While the inverter power is ON, do not open the front cover or the wiring cover. Do not run the inverter with the front cover or the wiring cover

- removed .Otherwise you may access the exposed high voltage terminals or the charging part of the circuitry and get an electric shock It is crucial to turn off the motor drive power before any wiring installation or inspection is made. Before the inverter CHARGE light is OFF, which indicates that there is still high voltage in it, please do not touch the internal circuit and components. Operation must be made after measuring the voltage which is less than 24 VDC between +/P and - /N and with avometer.
- The inverter must be connected to the ground properly.

Shihlin

Shihlin Electric SF-G Series AC Drive

- ✓ Do not operate or touch the radiator or handle the cables with wet hands. Otherwise you may get an electric shock.
- ✓ Do not change the cooling fan while power is ON. It is dangerous to change the cooling fan while power is ON.

Caution

The voltage applied to each terminal must be the ones specified in the Instruction Manual. Otherwise burst, damage, etc. may occur Do not conduct a pressure test on the components inside the inverter, for semiconductor of the inverter is easily to be broke down and damaged by high voltage

While power is ON or for some time after power is OFF, do not touch the inverter as it will be extremely hot. Touching these devices may cause a

burn.

✓ The cables must be connected to the correct terminals. Otherwise burst, damage, etc. may occur.

✓ The polarity (+ and -) must be correct. Otherwise burst, damage, etc. may occur.

Inverter must be installed on a nonflammable wall without holes (so that nobody touches the inverter heat sink on the rear side, etc.). Mounting it to or near flammable material may cause a fire.

If the inverter has become faulty, the inverter power must be switched OFF. A continuous flow of large current may cause a fire. ✓ Do not connect a resistor directly to the DC terminals +/P and - /N. Doing so could cause a fire.

2) Description of Product Model Number SE - 040 - 7 5K/5 5K-G - **

| Series category | Voltage level | Capacity | Others | |
|-----------------|-------------------------|-------------|--|--|
| SF series | -040 : 400V three-phase | 7.5KW/5.5KW | None : General model | |
| | -020 : 200V three-phase | | -** : Customer motor or dedicated motor or | |
| | | | region difference | |

| 3) Installation Environment | | | | | | |
|-----------------------------|--|--|--|--|--|--|
| Ambient temperature | $-10 \sim +40^{\circ}$ C (non-freezing). | | | | | |
| Ambient humidity | Below 90%Rh (non-condensing). | | | | | |
| Storage temperature | -20 ~ +65°C. | | | | | |
| Surrounding environment | Indoor, no corrosive gas, no flammable gas, no flammable powder. | | | | | |
| Altitude | Altitude below 1000 meters | | | | | |
| Vibration | Below 5.9m/s ² (0.6G). | | | | | |
| Grade of protection | IP20 | | | | | |
| The degree of pollution | 2 | | | | | |

4) Installation and Wiring

Please ensure vertical arrangement to keep the cooling effect.



(c) Level arrangement (a) Vertical arrange (b) Horizontal arrangement

Please comply with installation conditions shown below to ensure enough ventilation space and wiring space for inverter cooling Arrangement of single or paralleling inverter:











Note1: When mounting inverters of different sizes in parallel, please align the clearance above each inverter to install, which is easy to change the cooling fan.

Note2: When it is inevitable to arrange inverters vertically to small space , since heat from the bottom inverters can increase the temperatures in the top inverters, causing inverter failures. take such measures as to provide guides.



Note 1: Do not let the PC terminal and SD terminal with short circuit.

Note 2: Dc reactor can be selected between + /P and P1, if it is not used, can take directly short circuit

Note 3: When FM/AM output terminals are selected for FM function, reference grounding is SD.

Note 4: Braking resistor connection method between +/P and PR is only used to the frame A and B. To the frame C, D, E, F, braking unit is between the (+/P) and (-N).

6) Main Circuit Wiring and Terminal Specification

| | Terminal | Tightening | Recom | nmended wir | ing specifica | tion(mm ²) | Recommended wiring specification (AWG) | | | | |
|--------------------|-------------------------|--------------------|---------|-------------|---------------|------------------------|--|---------|---------|--------------------|--|
| Inverter model | screw specifications | torque (Kgf.cm) | R, S, T | U, V, W | +/P, P1 | Grounding Cable | R, S, T | U, V, W | +/P, P1 | Grounding Cable | |
| SF-020-5.5K | | | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | |
| SF-020-7.5K/5.5K-G | | | 14 | 14 | 14 | 14 | 6 | 6 | 6 | 6 | |
| SF-040-5.5K | ME | 25 | 6 | 6 | 6 | 6 | 10 | 10 | 10 | 10 | |
| SF-040-7.5K/5.5K-G | IVID | 35 | 6 | 6 | 6 | 6 | 10 | 10 | 10 | 10 | |
| SF-040-11K/7.5K-G | | l İ | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | |
| SF-040-15K/11K-G | | | 14 | 14 | 14 | 14 | 6 | 6 | 6 | 6 | |
| SF-020-11K/5.5K-G | | | 25 | 25 | 25 | 16 | 4 | 4 | 4 | 4 | |
| SF-020-15K/11K-G | | | 35 | 35 | 35 | 16 | 2 | 2 | 2 | 4 | |
| SF-020-18.5K/15K-G | | | 50 | 50 | 50 | 25 | 1/0 | 1/0 | 1/0 | 2 | |
| SF-020-22K/18.5K-G | M6 | 44 | 60 | 60 | 60 | 30 | 2/0 | 2/0 | 2/0 | 2 | |
| SF-020-30K/22K-G | | | 95 | 95 | 95 | 50 | 3/0 | 3/0 | 3/0 | 1/0 | |
| SF-040-18.5K/15K-G | | | 25 | 25 | 25 | 16 | 4 | 4 | 4 | 4 | |
| SF-040-22K/18.5K-G | | | 25 | 25 | 25 | 16 | 4 | 4 | 4 | 4 | |
| SF-040-30K/22K-G | | | 35 | 35 | 35 | 35 | 2 | 2 | 2 | 2 | |
| SF-040-37K/30K-G | M8 | 61.2 | 60 | 60 | 60 | 30 | 2/0 | 2/0 | 2/0 | 2 | |
| SF-040-45K/37K-G | | | 60 | 60 | 60 | 30 | 2/0 | 2/0 | 2/0 | 2 | |
| SF-020-37K/30K-G | | | 120 | 120 | 120 | 60 | 4/0 | 4/0 | 4/0 | 2/0 | |
| SF-020-45K/37K-G | | | 120 | 120 | 120 | 60 | 4/0 | 4/0 | 4/0 | 2/0 | |
| SF-020-55K/45K-G | | | 185 | 185 | 185 | 95 | 500 | 500 | 500 | 3/0 | |
| SF-040-55K/45K-G | | | 95 | 95 | 95 | 50 | 3/0 | 3/0 | 3/0 | 1/0 | |
| SF-040-75K/55K-G | | | 120 | 120 | 120 | 60 | 4/0 | 4/0 | 4/0 | 2/0 | |
| SF-040-90K/75K-G | M10 | 102 | 120 | 120 | 120 | 60 | 4/0 | 4/0 | 4/0 | 2/0 | |
| SF-040-110K/90K-G | | | 185 | 185 | 185 | 95 | 500 | 500 | 500 | 3/0 | |
| SF-040-132K/110K-G | | | 95×2P | 95×2P | 95×2P | 95 | 3/0x2P | 3/0x2P | 3/0x2P | 3/0 | |
| SF-040-160K/132K-G | | | 240 | 240 | 240 | 120 | 4/0x2P | 4/0x2P | 4/0x2P | 4/0 | |
| SF-040-315K/280K-G | | | 95×4P | 95×4P | 95×4P | 95×2P | 300x4P | 300x4P | 300x4P | 300 | |
| SF-040-350K315K-G | | | 95×4P | 95×4P | 95×4P | 95×2P | 300x4P | 300x4P | 300x4P | 300 | |
| SF-040-185K/160K-G | | | 120×2P | 120×2P | 120×2P | 120 | 3/0x4P | 3/0x4P | 3/0x4P | 4/0 | |
| SF-040-220K/185K-G | | | 120×2P | 120×2P | 120×2P | 120 | 3/0x4P | 3/0x4P | 3/0x4P | 4/0 | |
| SF-040-250K/220K-G | M12 | 142 | 150×2P | 150×2P | 150×2P | 150 | 4/0x4P | /0x4P | /0x4P | 4/0 | |
| SF-040-280K/250K-G | 1 | | 120×2P | 150×2P | 150×2P | 150 | 4/0x4P | /0x4P | /0x4P | 4/0 | |

> Arrangement of main circuit terminal 1. Frame A

R | S | T | P1 | P | N | PR | U | V | W

2. Frame B







| Terminal type | Terminal name | Function instructions | Terminal specifications |
|--------------------------------|---------------------|--|--|
| | STF | | |
| | STR | | |
| | RL | | lanut inne dennes (1740 |
| | RM | The second state the 40 mention state and state the main state | Action surrents Fin A (where 24) (DO) |
| | RH | which app quiteb made of SINK/SOURCE | Action current: 5mA(when 24VDC) |
| Quitab sizes | AU | which can switch mode of SINK/SOURCE. | Vollage lange. 10~26VDC |
| Switch signal | RT | | Maximum frequency. TKHz |
| input | MRS | | |
| | RES | | |
| | SD | Common reference of these terminals with STF、 STR、RL、RM、RH、AU、RT、MRS、RES、FM | |
| | DC | In the mode of SOURCE, provide common power | Output voltage : 24VDC±20% |
| | PC | supply of these terminals above. | Maximum current : 5mA |
| | 10 | There is 5V power inside the terminals. | |
| | 2 | Voltage is 0~5v or 0~10v input point, to set the | |
| Analog signal | | target frequency. | Maximum current:10mA |
| input | 4 | Current is 4~20mA input point, to set the target | |
| | - | frequency. | |
| | 5 | Common reference of 10, 2, 4, and AM terminal | |
| | А | Multi-function relay output terminals. | |
| Relay output | В | A-C is the normally open contact, B-C is the | Contact ability VDC30V/VAC230V-0.3A |
| | С | normally closed contact, C is common terminal. | |
| | SU | | Maximum units and 400/DO |
| 0 | RUN | Multi-function open collector output terminal | |
| Open collector output | FU/10X | | Maximum current:50mA |
| | SE | The reference of open collector output | |
| | | | Output voltage:0~10VDC |
| Analog /Pulse signal output | A. A. 4/17 A. | Multi function and an eine al autout to main al | Maximum current:3mA ; |
| | | Multi-function analog signal output terminal | Outputcurrent:0~1mA |
| | | | Maximum load: 500 Ω |
| Communication | | Connector of inverter and RS-485 communication | Highest rate:19200bps |
| terminal | A/GIND/D | interface | Longest distance:500m |
| loto1 · Whon connecti | na control torminal | with external devices, please new attention to the | voltage and current energifications of terminals, avoiding |

damaging the inverter.



3. Frame C

Note2 : The function of the control terminal is decided by inverter parameters; please refer to Instruction Manual for setting. Note3 : Please pay attention to polarity when connecting external power and devices.

➢ Wiring method

Control terminal screw: M3

Tightening torque : 8kgf.cm

Power supply connection

Recommended connecting the wire using insulation covering U terminal

U terminal is applied to the wire, which cross-sectional area is 0.3 ~ 0.75 mm², suggesting that d1 is 3.2 mm, d2 is 6.2mm or less.



Note 1: Please Use a small cross head screw driver.

Note 2: Tightening torque is 8kgf.cm, too large tightening torque can cause crew slippage; too little tightening torque can cause a short circuit or malfunction

Wiring Precautions

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

When drilling mounting holes in an enclosure etc., please take caution not to allow chips powder to enter the inverter.

- To prevent a malfunction due to noise, keep the signal cables 10cm (3.94 inches) or more away from the power cables.

8) Appearance and Dimensions

➤ Frame A/B





Q)

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Paramete

number P.22 P.23 P.24

P.25 P.26 P.27

P.28

P.29

P.30

P.31

P.32

Flange installation schematic diagram of frame G、H, as follows:

Cutout dimensiUonnit

| Name | Setting range | Default value | User setting |
|---|--|--------------------|--------------|
| Stall prevention operation level | 0~400% | 120%/150% | value |
| Compensation factor at level reduction Speed 4 | 0~150%, 99999 0~400Hz, 99999 | 99999 99999 | |
| Speed 5 | 0~400Hz, 99999 | 99999 | |
| Speed 7 | 0~400Hz, 99999 0~400Hz, 99999 | 99999 | |
| Output frequency filter constant | 0~31 0: linear acceleration /deceleration curve | 0 | |
| Acceleration/ deceleration curve selection | 1: S pattern acceleration /deceleration curve 1 2: S pattern acceleration /deceleration curve 2 | 0 | |
| Regenerative brake function selection | 0: If regenerative brake duty is fixed at 3%, parameter P.70 will be invalid. 1: The regenerative brake duty is the set value of P.70 2: External brake unit protection function | 0/2 | |
| Carrier operation selection | The rated current decreases with rated carrier change when P.72 < 5,Soft-PWM is valid (only apply to V/F control) When P.72> 9(note 2),the temperature of module is higher than 60 degree, carrier will decrease to 9k automatically (note 2), after the temperature drops to lower than 40 degree, carrier will restore the setting value of P.72 automatically | 0 | |
| Serial communication Baud rate selection | 0: Baud rate:4800bps 1: Baud rate:9600bps 2: Baud rate:19200bps | 1 | |
| Communication protocol selection | 0: Modbus protocol 1: Shihlin protocol | 1 | |
| Block communication EEPROM write options | 0 : Through communication in parameter, block write EEPROM, RAM 1 : Through communication in parameter, block write RAM | 0 | |
| Communication mode operation & speed command selection | 0: both operation command and speed command are given by communication 1: both operation command and speed command are given by the external | 0 | |
| Inverter station number Speed display | 0~254 0~5000r/min, 0~9999 r/min | 0 0 r/min | |
| The maximum operation frequency (the target frequency is set by the input signal of terminal 2.5) | 1~400Hz | 50Hz/60Hz (Note 2) | |
| The maximum operation frequency (the target frequency is set by the input signal of terminal 4-5) | 1~400Hz | 50Hz/60Hz (Note 2) | |
| Multi-function output terminal SU function selection | C RUN (Inverter running): Signals will be sent out when output frequency is equal to or higher than the starting frequency. I: SU (Reaching the output frequency): Signals will be sent out once the output frequency reaches the set frequency. I: FU (Output frequency detection): It is the output signal when detecting the frequency exceeding the assigned frequency during the operation. I: OL (Overload detection): It is the output signal when the current limit function is triggered. (When P.260=1 and OL2 alarm is output, OL is output) I: OMD (Zero current detection): It is the output be signal. I: CL (Overload detection): It is the output be signal. I: ALARM (Alarm detection): It is the output the signal. I: ALARM (Alarm detection): In the programmed operation mode, the signal will be sent out at the end of each regramed operation mode, the signal will be sent out at the end of each operation cycle. B: PO3 (Pause detection): In the programmed operation mode, the signal will be sent out at the end of each operation cycle. B: PO3 (Pause detection): In the programmed operation mode, the signal will be sent out at the end of each operation cycle. B: PO3 (Pause detection): In the programmed operation mode, the signal will be sent out at the end of each operation cycle. B: PO3 (Pause detection): In the programmed operation mode, the signal will be sent out at the end of each operation cycle. B: PD3 (Pause detection): In the programmed operation mode, the signal will be sent out then the operation is suspended. B: P (Inverter output): Switch between the inverter operation, BP will send out signals. CP (Commercial power-supply operation function; in the commercial power-supply operation function; in the second water pump is operating, AUX will output signal. CP (Sommercial power-supply operation function; Selected, when the second water pump is operating, AUX will output sif and.<td>1</td><td></td> | 1 | |
| Up-to-frequency sensitivity | please refer to P.260 0~100% | 10% | |
| Output frequency detection for forward rotation | 0~400Hz | 6Hz | |
| Output frequency detection for reverse rotation | 0~400Hz, 99999 | 99999 | |
| The second acceleration time | 0~360s/0~3600s, 99999 | 99999 | |
| The second torque boost | 0~30%, 99999 | 99999 | |
| The second base frequency | 0~400Hz, 99999 0: 8bit | 99999 | |
| | 1: 7bit 0: 1bit | U | |
| Stop bit length Parity check selection | 1: 2bit 0: No parity verification 1: Odd | 0 | |
| CR & LF selection | 2: Even 1: CR only 2: Both CR and LE | 1 | |
| Number of communication abnormal condition | 0~10 | 1 | |
| | | - | |

| Parameter | N | 0. " | D (| User setting | Parameter | | 0.11 | | User setting | Parameter | N | 2.11 | | User setting |
|--------------|---------------------------------------|--|----------------------------------|--------------|----------------|--|---|----------------|--|----------------|--|---|------------------------|--------------|
| number | Name | Setting range | Default value | value | number | Name | Setting range | Default value | value | number | Name | Setting range | Default value | value |
| P.53 | Communication check time interval | 0~999.8s, 99999 | 99999 | | | | 36: TRI(Triangle wave function) | | | | | XX0X: One electrify | | |
| P.55 | Frequency display reference | 0~400Hz | 50Hz/60Hz (Note 2) | | | | 38 : CS (Manual switch power frequency | | | | | XX2X: Stop momentary | | |
| P.56 | Current monitoring reference | 0~500A/5000A (Note 5) | Rated output | | P.80 | Multi-function terminal RL function | signal) | 2 | | P.150 | Restart mode selection | X0XX: No detection of rotation | 0 | |
| P.57 | Restart coasting time | 0~30s, 99999 | 99999 | | | Selection | 40~43 : reserve | | | | | X1XX: The detection of rotation X2XX: P78=0 . The direction of | | |
| | | | 5s(7.5kW 以下) | | | | 44 : PID_OFF | | | | | rotation;P78=1, 2 No direction of | | |
| P.58 | Restart cushion time | 0~60s | 10s(11kW~55kW) 20s(75kW以上) | | | Multi-function terminal BM function | 45 : SEC_FRE | | | D (5) | 7 | 0 : There is no output at zero-speed. | <u> </u> | |
| P.59 | Reserve | | / | | P.81 | selection | Same as P.80 | 3 | | P.151 | Zero-speed control function selection | 1 : Control by DC (Note 1 and 3) | 0 | |
| P.60 | Input signal filter constant} | 0~2047 0: No remote setting function | 31 | | P.82 | selection | Same as P.80 | 4 | | | | | 4% (7.5KW or below) | |
| | | 1: Remote setting function, frequency | | | P.83 | Multi-function terminal STF function | Same as P.80 | 0 | | P.152 | Voltage instruction at zero-speed control | 0~30% | 2%(11kW~55kW) | |
| | | setup storage is available. | | | Dat | Multi-function terminal STR function | 2 5.02 | | | | | | 1% (75kW or above) | |
| P.61 | Remote setting function selection | setup storage is not available. | 0 | | P.84 | selection | Same as P.80 | 1 | | P.153 | Communication error handling | 0: Warn and call to stop | 0 | |
| | | Remote setting function, frequency setup storage is not available, the | | | P.85 | relay | Same as P.40 | 5 | | | | 0: 1, 7, N, 2 (Modbus, ASCII) | | |
| | | remote setting frequency is cleared | | | P.86 | Multi-function terminal RES function | Same as P.80 | 30 | | | | 1: 1, 7, E, 1 (Modbus, ASCII) | | |
| P.62 | Zero current detection level | 0~200%, 99999 | 5% | | P 87 | Multi-Function Control-Terminal Input | 0~511 | 0 | | P.154 | Modbus communication data format | 3: 1, 8, N, 2 (Modbus, ASCII) | - 4 | |
| P.63 | Zero current detection time | 0.05~1s, 99999 | 0.5s | | | Positive/Negative Logic Multi-Function Output-Terminal | | • | | | | 4: 1, 8, E, 1 (Modbus, RTU) | | |
| 1.04 | ThirAm output terminal selection | 0: Retry is invalid. | 0 | | P.88 | Positive/Negative Logic | 0~15 | 0 | | P.155 | Over-torgue detection level | 0~200% | 0% | |
| | | 1: Over-voltage occurs, the AC Drive will perform the retry function | | | P.89 P.90 | Slip compensation coefficient Inverter model Inverter model | 0~10 0~4000 | 0 | | P.156 | Over-torque detection time | 0.1~60s | 1s | |
| | | 2: Over-current occurs, the AC Drive will | | | P.91 | Frequency jump 1A | 0~400Hz, 99999 | 99999 | | P.157 | function | 0~200 | 4 | |
| P.65 | Retry selection | perform the retry function. 3: Over-voltage or over-current occurs | 0 | | P.92 P.93 | Frequency jump 1B Frequency jump 2A | 0~400Hz, 99999 0~400Hz, 99999 | 99999 | | P.158 | External terminal power enable | 0: Digital input terminal power unable | 0 | |
| | | the AC Drive will perform the retry | | | P.94 | Frequency jump 2B | 0~400Hz, 99999 | 99999 | | D 150 | Energy equips central function | 0: Normal running mode. | 0 | |
| | | 4: All the alarms have the retry function. | | | P.95 P.96 | Frequency jump 3A Frequency jump 3B | 0~400Hz, 99999 0~400Hz, 99999 | 99999 99999 | | P.159 | Energy-saving control function | 1: Energy-saving running mode. | 0 | |
| P.66 | Stall prevention operation reduction | 0~400Hz | 50Hz/60Hz (Note | | P.97 | The second target frequency selection | 0~2 | 0 | | P.160 | restart | 0~150% | 100% | |
| P.67 | Number of retries at alarm occurrence | 0~10 | 2) | | P.98 P.99 | Middle frequency 1 Output voltage 1 of middle frequency | 0~400Hz 0~100% | 3Hz 10% | | | | 0 : The monitoring voltage file displays | | |
| P.68 | Retry waiting time | 0~360s | 1s | | 1.00 | Supar volage i or madie requerter | 0: The minimum increment of run time is | 1070 | | | | 1: The monitoring voltage file displays | | |
| P.69 P.70 | Special regenerative brake duty | 0 0~60% | 0 | | P.100 | Minute/second selection | 1 minute. 1: The minimum increment of run time is | 1 | | | | the current voltage between P and N terminals | | |
| P.71 | Idling braking and linear braking | 0: Idling braking | 1 | | | Duntime of Costing 4 in an | 1 second. | | | | | 2: The monitoring voltage file displays | 1 | |
| | selection | 1: DC braking | Frame A/B/C | | P.101 | operation mode | 0~6000s | 0s | | | | the accumulation rate of temperature increase of the inverter. | | |
| | | Frame A/B/C: 0.7~14.5KHZ | 5KHZ | | P.102 | Runtime of Section 2 in programmed | 0~6000s | 0s | | | | 3: The monitoring voltage file displays | | |
| P.72 | Carrier frequency | Frame D/E: 0.7~9KHZ | Frame D/E: 4KHZ | | D 102 | Runtime of Section 3 in programmed | 0~6000s | 0.5 | | | | constant pressure system | | |
| | | Frame F/G: 0.7~9KHZ Frame H: 0.7~6KHZ | Frame F/G: 2KHZ Frame H: 2KHZ | | F.103 | operation mode | 0.00005 | 05 | | | | 4: The monitoring voltage file displays | | |
| | | 0: The valid range of signal sampling | | | P.104 | operation mode | 0~6000s | 0s | | | | constant pressure system | | |
| P.73 | Voltage signal selection | 1: The valid range of voltage signal | 0 | | P.105 | Runtime of section 5 in programmed | 0~6000s | 0s | | | | 5: The monitoring voltage file displays | | |
| D 74 | | sampling (terminal 2-5) is 0~10V | 0 | | P 106 | Runtime of section 6 in programmed | 0~6000s | 0s | | | | 6: The monitoring voltage file displays | | |
| P.74 | FU/10X output terminal selection | 0~10 0: Press STOP button and stop the | 0 | | 1.100 | operation mode Runtime of Section 7 in programmed | 0 00003 | - | | | | the current electronic thermal accumulation rate | | |
| P.75 | Stop or reset function selection | operation only in PU and H2 mode | 1 | | P.107 | operation mode | 0~6000s | 0s | | | | 7: The monitoring voltage file displays | | |
| | - | operation in all mode. | | | P.108 | Runtime of Section 8 in programmed operation mode | 0~6000s | 0s | | | | the signal value (V) of 2-5 simulating input terminals | | |
| P.76 | Reserve | 0: Parameters can be written only when | | | | | 0 : When the inverter starts, the operation | | | | | 8: The monitoring voltage file displays | | |
| | | the motor stops. | | | | | automatically, and the screen displays | | | | | input terminals | | |
| P 77 | Parameters write protection | 1: Parameters cannot be written. | 0 | | | | the output frequency | | | D 161 | Multi function display selection | 9: The monitoring voltage file displays | 0 | |
| 1.77 | i arameters whe prototion | the motor is running. | 0 | | | | the operation panel displays the target | | | F.101 | wulti-function display selection | 10: The monitoring voltage file displays | 0 | |
| | | Parameters cannot be written when in password protection | | | P.110 | Operation panel monitoring selection | frequency 2 When the inverter starts, the operation | 1 | | | | PG card's feedback rotation speed | | |
| | | 0: Forward rotation and reverse rotation | | | | | panel enters the monitoring mode | | | | | forward and reverse rotation signal. | | |
| | | are both permitted. 1: Reverse rotation is prohibited (Press | | | | | automatically, and the screen displays the current pressure and feedback | | | | | Then 1 represents forward rotation, 2 represents reverse rotation, and 0 | | |
| P.78 | Forward/reverse rotation prevention | the reverse reference to decelerate | 0 | | | | pressure of the constant pressure | | | | | represents stopping state | - | |
| | selection | 2: Forward rotation is prohibited (Press | - | | D 111 | Acceleration/deceleration time of section | system | 00 | | | | 12: The monitoring voltage file displays module temperature | | |
| | | the forward rotation reference to | | | P.111 | 1 Acceleration/deceleration time of section | 0~8005/0~80005 | 05 | | | | 13: The monitoring voltage file displays | | |
| | | 0: "PU mode", "external mode" and "Jog | | | P.112 | 2 | 0~600s/0~6000s | 0s | | | | rate of motor | | |
| | | mode" are interchangeable. | | | P.113 | Acceleration/deceleration time of | 0~600s/0~6000s | 0s | | | | 14~17: Reserved | | |
| | | interchangeable. | | | P 114 | Acceleration/deceleration time of | 0~600s/0~6000s | 0s | | | | output torque of inverter (%) | | |
| P 70 | Operation mode selection | 2: "External mode" only 3: "Communication mode" only | 0 | | | Section 4 Acceleration/deceleration time of | | | | | | External terminal input state(about the sort of terminal, please refer to the | | |
| 1.75 | Operation mode selection | 4: "Combined mode 1" | 0 | | P.115 | Section 5 | 0~600s/0~6000s | Us | | | | table of the special monitor code in | | |
| | | 5: "Combined mode 2" 6: "Combined mode 3" | | | P.116 | Acceleration/deceleration time of Section 6 | 0~600s/0~6000s | 0s | | | | 20: External terminal output state(about | - | |
| | | 7: "Combined mode 4 | | | P.117 | Acceleration/deceleration time of | 0~600s/0~6000s | 0s | | | | the sort of terminal, please refer to the | | |
| | <u> </u> | 8: "Combined mode 5" | | | D 119 | Acceleration/deceleration time of | 0~600s/0~6000s | Ωs | | | | communication part) | | |
| | | 1: STR | | | P 110 | Section 8 The dead time of forward/reverse | 0~3000s | 05 | | | | 21: Show the current effective carrier 22~23: Reserved | - | |
| | | 2: RL(Multi-speed) 3: RM(Multi-speed) | | | P.120 | Output signal delay time | 0~3600s | 0s | | | | 24: Show the current target frequency | | |
| | | 4: RH(Multi-speed) | | | P.121 P.122 | Run direction in each section | 0~255 | 0 | | P.162 P.163 | Niddle trequency 2 Output voltage 2 of middle frequency | 0~100% | 0 99999 | |
| | | 5. AU 6: OH | | | P.123 | Acceleration/deceleration time setting | 0, 1 | 0 | | P.164 | Middle frequency 3 | 0~400Hz, 99999 | 99999 | |
| | | 7: MRS | | | P.125 | selection Reserve | · · · · · · · · · · · · · · · · · · · | | ┨────┤ | P.165 P.166 | Output voltage 3 of middle frequency Middle frequency 4 | 0~100% 0~400Hz, 99999 | 0 99999 | |
| | | 8: KI 9: EXJ(External JOG) | | | P.126 | Multi-function terminal AU function | Same as P.80 | 5 | | P.167 | Output voltage 4 of middle frequency | 0~100% | 0 | |
| | | 10: STF+EXJ | | | | Multi-function terminal RT function | Samo as P 90 | 0 | <u> </u> | P.168 P.169 | Output voltage 5 of middle frequency | 0~100% | 0 99999 | |
| | | 12: STF+RT | | | P.127 | selection | Saille as F.OU | ٥ | | | | 0: PID function non-selected | | |
| | | 13: STR+RT | | | P.128 | selection | Same as P.80 | 7 | | | | The target value is determined by P.225. The feedback value is | | |
| | | 14: STF+RL 15: STR+RL | | | P.129 | Multi-function terminal RUN function | Same as P.40 | 0 | | D 170 | DID function extention | determined by the voltage of terminal | 0 | |
| | | 16: STF+RM | | | P 130 | Multi-function terminal FU/10X function | Same as P 40 | 2 | | P.170 | PID function selection | 2: The target value is determined by | 0 | |
| | | 17: STR+RM 18: STF+RH | | | P 131 | selection Frequency of section 1 | 0~400Hz | - 0Hz | | | | P.225. The feedback value is determined by the voltage of termined | | |
| | Multi-function terminal DL function | 19: STR+RH | | | P.132 | Frequency of section 2 | 0~400Hz | OHz | | | | 4-5 | | |
| P.80 | selection | 20: STF+RL+RM 21: STR+RL+RM | 2 | | P.133 | Frequency of section 3 | 0~400Hz | 0Hz 0Hz | | | | U:Negative feedback control The calculation for the deviation is | | |
| | | 22: STF+RT+RL | | | P.135 | Frequency of section 5 | 0~400Hz | OHz | | | | target value minors the feedback value. | | |
| | | 23. STR+RT+RL 24: STF+RT+RM | | | P.136 P.137 | Frequency of section 6 | 0~400Hz | 0Hz 0Hz | | | | frequency will increase the feedback | | |
| | | 25: STR+RT+RM | | | P.138 | Frequency of section 8 | 0~400Hz | 0Hz | | P.171 | PID feedback control method selection | value, select this setup | 0 | |
| | | 20: STF+RT+RL+RM 27: STR+RT+RL+RM | | | P.139 P 140 | Voltage signal bias | 0~100% | 0% | | | | The calculation for the deviation is | | |
| | | 28: RUN | | | P 141 | Voltage signal bias direction and | 0~11 | 0 | <u> </u> | | | teedback value minors the target value. When an increase in the output | | |
| | | 29: STE/STR 30: RES(External reset function) | | | P.142 | rotational direction setup Speed 8 | 0~400Hz | 0Hz | | | | frequency will decrease the feedback | | |
| | | 31: STOP | | | P.143 | Speed 9 | 0~400Hz, 99999 | 99999 | | P.172 | PID proportion Gain | 1~100 | 20 | |
| | | 3∠: KEX(Multi-speed set (16 levels) 33: PO(In "external mode" and when PO | | | P.144 P 145 | Speed 10 Speed 11 | 0~400Hz, 99999 0~400Hz, 99999 | 99999 99999 | <u> </u> | P.173 | PID integration Gain | 0~100s | 1s Ome | |
| | | is "on", programmed operation mode is | | | P.146 | Speed 12 | 0~400Hz, 99999 | 99999 | | P.174 P.175 | Abnormal deviation level | 0~100% | 0 | |
| | | 34: RES_E (When alarms occur, external | | | P.147 P 148 | Speed 13 | 0~400Hz, 99999 0~400Hz, 99999 | 99999 | | P.176 | Exception duration time | 0~600s | 30s | |
| | | reset become valid only when the alarm | | | P.149 | Speed 15 | 0~400Hz, 99999 | 99999 | | D 477 | Exception bandling mode | 1: Decelerate and stop | | |
| | | 35: MPO(In "external mode" and when | | | P 150 | Restart mode selection | XXX0 : No frequency search | 0 | | P.1// | Exception handling mode | 2: Continue to run when the alarm goes | 0 | |
| | | MPO is "on", the manually operation | | | 11.100 | | XXX2: Cheapen voltage | Ŭ. | | P.178 | Sleep detects deviation | 0~100% | 0 | |
| | | ayore mode ta choacit.) | | | | | | | | - | | | | |

| Parameter number | Name | Setting range | Default value | User setting value |
|---------------------|--|--|-----------------------------|--------------------|
| P.179 | Sleep detects duration time | 0~255s | 1s | Value |
| P.180 P.181 | Outage level | 0~100% 0~120Hz | 90% 40Hz | |
| P.182 | Integral upper limit frequency Deceleration step length with stable | 0~120Hz | 50Hz/60Hz (Note 2) | |
| P.183 | pressure | 0~10Hz | 0.5Hz | |
| | | available. | | |
| | | terminal will set off the alarm | _ | |
| P.184 | terminal disconnection handling | the panel will display "AErr" alarm. | 0 | |
| | | according to frequency reference | | |
| D 196 | SE G model selection function | output terminal will set off alarm. | 0 | |
| P.187 | FM calibration parameter | 0~9998 | 166 | |
| P.188 | Software firmware version | 0: The default value of frequency-related | | |
| P.189 | Factory setting function | parameter belongs to the 60Hz system | U(60Hz System) | |
| | | parameter belongs to the 50Hz system | 1(50Hz System) | |
| P.190 P.191 | AM output bias AM output gain | 0~1400 0~1400 | 0 (Note 4) 1335 (Note 4) | |
| P.192 | 2-5 terminal minimum input voltage | 0~10 | 0 | |
| P.193 | 2-5 terminal maximum input voltage Frequency corresponds to the minimum | 0~10 | 0 | |
| P.194 | input voltage of terminal 2-5 | 0~0012 | UTZ | |
| P.195 | input voltage of terminal 2-5 | 0~400Hz | 50Hz/60Hz (Note 2) | |
| P.196 | 4-5 terminal minimum input current corresponded frequency | 0~60Hz | 0Hz | |
| P.197 | 4-5 terminal maximum input current | 0~400Hz | 50Hz/60Hz(Note 2) | |
| P.198 | 4-5 terminal minimum input current | 0~20 | 0 | |
| P.199 | 4-5 terminal maximum input current Constant pressure system function | 0~20 | 0 | |
| P.200 | selection | 0~14 | U 5min | |
| P.209 P.210 | Minimum frequency duration | 0.1~10min | 5min | |
| P.213 | Acceleration time for starting the commercial power supply frequency | 0.01~20s/0.1~200s | 5s | |
| P.214 | Deceleration time for starting the | 0.01~20s/0.1~200s | 5s | |
| P.215 | Maximum frequency | 20~60Hz | 50Hz | |
| P.216 | Minimum frequency | 0~20Hz | 20Hz | |
| P.217 P.223 | Analog feedback bias pressure | 0~100% | 0% | |
| P.224 P.225 | Analog feedback gain pressure Panel command | 0~100% | 100% | |
| P.229 | Backlash compensation function | 0~1 | 0 | |
| P 220 | The backlash compensation | 0~400Hz | 147 | |
| P.230 | acceleration interrupt frequency | 0~400HZ | INZ | |
| P.231 | acceleration interrupt time | 0~360 s | 0.5s | |
| P.232 | The back lash compensation deceleration interrupt frequency | 0~400Hz | 1Hz | |
| P.233 | The backlash compensation | 0~360 s | 0.5s | |
| | | 0: None. | | |
| P.234 | Triangular wave function selection | External TRI is turned on, triangular wave function will be valid. | 0 | |
| 1.201 | | 2: The triangular wave function is | | |
| P.235 | Maximum amplitude | 0~25% | 10% | |
| P.236 | Amplitude compensation for | 0~50% | 10% | |
| P.237 | Amplitude compensation for acceleration | 0~50% | 10% | |
| P.238 P.239 | Amplitude acceleration time Amplitude deceleration time | 0~360s/0~3600 s 0~360s/0~3600s | 10s 10s | |
| | · | 0: no auxiliary frequency function is available | | |
| | | 1: operation frequency = basic frequency + auxiliary frequency (given by the 2-5 | | |
| | | terminal) 2: operation frequency = basic frequency | | |
| P.240 | Auxiliary frequency function selection | + auxiliary frequency (given by the 4-5 terminal) | 0 | |
| | | 3: operation frequency = basic frequency - auxiliary frequency (given by the 2-5) | | |
| | | terminal) 4: operation frequency = basic frequency | | |
| | | - auxiliary frequency (given by the 4-5 terminal) | | |
| | | 0: DC injection brake function is not | | |
| P.242 | starting selection | available before starting. 1: DC brake injection function is selected | 0 | |
| P 2/3 | DC injection brake time before storting | before starting. 0~60s | 0.5s | |
| 1.27J | So injection state time before starting | | 4% (7.5kW or | |
| P.244 | DC injection brake voltage before | 0~30% | below) 2% (11kW~55kW) | |
| | starting | | 1% (75kW or above) | |
| P.245 | Cooling fan operation selection | 0~3, 10~13 | 0 | |
| P.246 P.247 | Modulation coefficient MC switchover interlock time | 0.90~1.20 0.1~100s | 1 1s | |
| P.248 | Start waiting time | 0.1~100s | 0.5s | |
| | Automatic switchover frequency from | | | |
| P.249 | inverter to commercial power supply | 0~60Hz,99999 | 99999 | |
| | | | | |
| P.250 | Automatic switchover frequency range from commercial power supply to | 0~10Hz,99999 | 99999 | |
| | inverter | 0: no injection modeling masking | | |
| | | function | | |
| | Injection molding machine mode | 1: only the flow channel is valid 2: only the pressure channel is valid | | |
| P.251 | selection | 3: Flow channel and stress combination | U | |
| | | 4: Flow channel and pressure taking | | |
| P 252 | Flow channel weighted coefficient | absolute value | 100% | |
| P.253 | Pressure channel weighted coefficient | 0~100% | 100% | |
| P.254 P.259 | Corner frequency Speed unit selection | 0~100Hz | 0 Hz | |
| 200 | | 0: The OL2 alarm is not reported after | | |
| P.260 | Over torque detection selection | Drive keeps running. | 1 | |
| | | 1: The OL2 alarm is reported after over torgue detection, and AC Drive stops | | |
| P.261 | Maintenance alarm time | 0~9998 day | 0 | |
| P.281 | Input phase failure protection | U: NO Phase Failure Protection 1: Phase Failure Protection | 0 | |

| number | Name | | Setting range | Default value | value |
|--|--|---|--|--|-------|
| P.285 | Low frequency vibration inhibition fa | ctor | 0~3 | 1 | |
| P.286 | High frequency vibration inhibition fa | actor | 0~15 | 0 | |
| P.287 | selection | ouon | 0~1 | 1 | |
| P.288 | Alarm code display option | | 0~12 | 0 | |
| P.289 P.290 | Alarm code The latest alarm status selection | | 0~7 | 0 | |
| P.291 | The latest alarm message | | | 0 | |
| P.292 | Accumulative motor operation | time | 0~1439 min | 0 min | |
| | (minutes) | time | | • | |
| P.293 | (days) | une | 0~9999 day | 0 day | |
| P.294 | Decryption parameter | | 0~65535 | 0 | |
| P.295 | Password setup | | 2~65535 | 0 | |
| P.300 | Motor control mode selection | | 1: Close-loop V/F control (VF + PG) 2: General flux vector control | 0 | |
| P.301 Motor parameter auto-tuning function selection | | 3: Close-loop vector control (FOC + PC 4: Close-loop vector control (FOC + PC 0: Parameter auto-tuning function with motor 1: Motor parameter auto-tuning measuring the running motor 2: Motor parameter auto-tuning measuring the stopped motor | <u>0</u> 0 | | |
| D 202 | Mater rated newer | | 3: Online auto-tuning function | 0 | |
| P.302 | Motor poles | | 0~8 | 4 | |
| P.304 | Motor rated voltage | | 0~440V | 220/440V | |
| P.305 | Motor rated frequency | - | 0~400Hz | 50Hz/60Hz (Note 2) | |
| P.306 | Motor rated current | | 0~500A/5000A(Note 5) | Horsepower-based | |
| P.307 | Motor rated rotation speed | | 0~65535 r/min | (Note 2) | |
| P.308 | Motor excitation current | | 0~500A/5000A(Note 5) | Horsepower-based | |
| P.309 | Stator resistance | | 0~65535mΩ | Horsepower-based | |
| P 311 | Leakage inductance | | 0~6553 5mH | Horsepower-based | |
| P.312 | Mutual inductance | | 0~6553.5mH | Horsepower-based | |
| P.320 | Speed control proportion coefficient | 1 | 0~2000% | 100% | |
| P.321 | Speed control integral coefficient 1 | | 0~20s | 0.3s | |
| P.322 P.323 | Switching frequency 1 Speed control proportion coefficient | 2 | 0~2000% | 5.00HZ 100% | |
| P.324 | Speed control integral coefficient 2 | 2 | 0~20s | 0.3s | |
| P.325 | Switching frequency 2 | | P.322~the maximum output frequency | 5.00HZ | |
| P.350 | Number of pulses per revolution of | f the | 0~20000 | 1024 | |
| P 351 | Encoder input mode setup | | 0~4 | 0 | |
| D 252 | PG signal abnormality (zero sp | eed) | 0-1000 | 10 | |
| D 050 | detection time | | 0 1003 | 13 | |
| P.354 | PG over-speed detection time | сy | 0~100s | 4nz 1s | |
| P.994 | Parameter copy readout | | | | 1 |
| P.995 | Parameter copy write-in | | | | |
| 996 P.007 | Alarm history clear | | | | |
| 997 | Restoring all parameters to de | efault | | | |
| P.998 | values | | | | |
| P.999 | Restoring some parameters to de values | efault | | | |
| 1. The torqu | ue boost, motor rated current and state | r resista | ance values are shown in the table as foll | ows : | |
| | Inverter type | | P.0 | P.9 | |
| SF-020 | -5.5K | | 3 | 24 | |
| SF-020 | -7.5K/5.5K-G | | 3 | 33/24 | |
| SF-020 | -11K/7.5K-G | | 2/3 | 49/33 | |
| SF-020 | -15K/11K-G | | 2 | 65/49 | |
| SF-020 | -18.5K/15K-G | | 2 | /5/65 | |
| SE 020 | -221/10.31-0 | | 2 | 120/00 | |
| SF-020 | -37K/30K-G | | 2 | 145/120 | |
| SF-020 | -45/37K-G | | 2 | 170/145 | |
| SF-020 | -55K/45K-G | | 2 | 212/170 | |
| SF-040 | -5.5K | | 3 | 13 | |
| SE-040 | -7.5K/5.5K-G | | 3 | 18/13 | |
| 040- | | | 2/3 | 24/18 | |
| SF-040 | -11K/7.5K-G | | | 32/24 | |
| SF-040 SF-040 | -11K/7.5K-G -15K/11K-G | | 2 | | |
| SF-040 SF-040 SF-040 | -11K//.5K-G -15K/11K-G -18.5/15K-G | | 2 2 | 38/32 | |
| SF-040 SF-040 SF-040 SF-040 | -11K/1.5K-G -15K/11K-G -18.5/15K-G -22K/18.5K-G -22K/18.5K-G | | 2 2 2 2 | 38/32 45/38 | _ |
| SF-040 SF-040 SF-040 SF-040 SF-040 SF-040 | -11K/.11K-G -15K/11K-G 18.5/15K-G -22K/18.5K-G -30K/22K-G(S) -37K/20K -37K/20K -42K-0 | | 2 2 2 2 2 | 38/32 45/38 60/45 73/60 | |
| SF-040 SF-040 SF-040 SF-040 SF-040 SF-040 SF-040 SF-040 | -11K/, 15K-G -15K/11K-G -15K/15K-G -22K/18.5K-G -30K/22K-G(S) -37K/30K -45K/37K-G | | 2 2 2 2 2 2 2 2 | 38/32 45/38 60/45 73/60 91/73 | |
| SF-040 SF-040 SF-040 SF-040 SF-040 SF-040 SF-040 SF-040 SF-040 | -11K/, 15K-G -15K/11K-G -15K/15K-G -22K/18.5K-G -30K/22K-G(S) -37K/30K -45K/37K-G -55K/45K-G | | 2 2 2 2 2 2 2 2 2 2 | 38/32 45/38 60/45 73/60 91/73 110/91 | |
| SF-040 SF-040 SF-040 SF-040 SF-040 SF-040 SF-040 SF-040 SF-040 | -11K/, 15K-G -15K/11K-G -15K/15K-G -22K/18.5K-G -30K/22K-G(S) -37K/30K -45K/37K-G -55K/45K-G -75K/55K-G | | 2 2 2 2 2 2 2 2 2 2 2 2 2 2 1/2 | 38/32 45/38 60/45 73/60 91/73 110/91 150/110 | |
| SF-040 SF-040 SF-040 SF-040 SF-040 SF-040 SF-040 SF-040 SF-040 | -11K/1.5K-G -15K/11K-G -18.5/15K-G -22K/18.5K-G -30K/22K-G(S) -37K/30K -45K/37K-G -55K/45K-G -90K/75K-G -90K/75K-G | | 2 2 2 2 2 2 2 2 2 1/2 1 | 38/32 45/38 60/45 73/60 91/73 110/91 150/110 180/150 | |
| SF-040 SF-040 SF-040 SF-040 SF-040 SF-040 SF-040 SF-040 SF-040 | -11K/7.5K-G -15K/11K-G -18.5/15K-G -22K/18.5K-G -30K/22K-G(S) -37K/30K -45K/37K-G -55K/45K-G -90K/75K-G -90K/75K-G -111K/90K-G | | 2 2 2 2 2 2 2 2 2 2 2 1/2 1 1 1 | 38/32 45/38 60/45 73/60 91/73 110/91 150/110 180/150 220/180 | |
| SF-040 SF-040 SF-040 SF-040 SF-040 SF-040 SF-040 SF-040 SF-040 SF-040 SF-040 SF-040 SF-040 | -11K/1.5K-G -15K/11K-G -15K/11K-G -22K/18.5K-G -22K/18.5K-G -37K/30K -45K/37K-G -55K/45K-G -55K/45K-G -55K/45K-G -00K/75K-G -110K/90K-G -110K/90K-G -132K/110K-G -00K/15K-G | | 2 2 2 2 2 2 2 2 1/2 1 1 1 1 1 1 1 | 38/32 45/38 60/45 73/60 91/73 110/91 150/110 180/150 220/180 260/220 | |
| SF-040 SF-040 SF-040 SF-040 SF-040 SF-040 SF-040 SF-040 SF-040 SF-040 SF-040 SF-040 SF-040 | -11K/, 15K-G -15K/11K-G -15K/11K-G -22K/18.5K-G -22K/18.5K-G -30K/22K-G(S) -37K/30K -45K/37K-G -55K/45K-G -55K/45K-G -90K/75K-G -110K/90K-G -132K/110K-G -100K/132K-G -100K/132K-G | | 2 2 2 2 2 2 2 2 1/2 1 1 1 1 1 1 1 1 1 1 1 1 1 | 38/32 45/38 60/45 73/60 91/73 110/91 150/110 180/150 220/180 220/180 260/220 310/260 | |
| SF-040 SF-040 SF-040 SF-040 SF-040 SF-040 SF-040 SF-040 SF-040 SF-040 SF-040 SF-040 SF-040 SF-040 SF-040 SF-040 SF-040 | -11K/, 15K-G -15K/11K-G -15K/11K-G -22K/18.5K-G -22K/18.5K-G -30K/22K-G(S) -37K/30K -45K/37K-G -55K/45K-G -55K/45K-G -55K/45K-G -10K/90K-G -110K/90K-G -132K/110K-G -160K/132K-G -185K/160K-G -20K/45K-C -20K/45K-C | | 2 2 2 2 2 2 2 1/2 1 1 1 1 1 1 1 1 1 1 1 1 | 38/32 45/38 60/45 73/60 91/73 110/91 150/110 180/150 220/180 220/180 260/220 310/260 340/310 405/240 | |
| SF-040 SF-040 SF-040 SF-040 SF-040 SF-040 SF-040 SF-040 SF-040 SF-040 SF-040 SF-040 SF-040 SF-040 SF-040 SF-040 SF-040 | -11K/1.5K-G -15K/11K-G -18.5/15K-G -22K/18.5K-G -30K/22K-G(S) -37K/30K -45K/37K-G -55K/45K-G -55K/55K-G -90K/75K-G -110K/90K-G -132K/110K-G -132K/110K-G -185K/160K-G -220K/185K-G -220K/185K-G -250K/220K-G | | 2 2 2 2 2 2 2 2 1/2 1 1 1 1 1 1 1 1 1 1 1 1 1 | 38/32 45/38 60/45 73/60 91/73 110/91 150/110 180/150 220/180 260/220 310/260 340/310 425/340 480/25 | |
| 5F-040 SF | -11K/1.5K-G -15K/11K-G -22K/18.5K-G -22K/18.5K-G -30K/22K-G(S) -37K/30K -45K/37K-G -55K/45K-G -55K/45K-G -55K/45K-G -00K/75K-G -101K/90K-G -110K/90K-G -105K/110K-G -160K/132K-G -160K/132K-G -220K/185K-G -220K/185K-G -220K/20K-G | | 2 2 2 2 2 2 2 2 1/2 1 1 1 1 1 1 1 1 1 1 1 1 1 | 38/32 45/38 60/45 73/60 91/73 110/91 150/110 180/150 220/180 260/220 310/260 310/260 340/310 425/340 480/425 530/480 | |
| SF-040 | -11K/1.5K-G -15K/11K-G -15K/11K-G -22K/18.5K-G -22K/18.5K-G -37K/30K -45K/37K-G -55K/45K-G -55K/45K-G -55K/45K-G -00K/75K-G -10K/90K-G -10K/90K-G -132K/110K-G -160K/132K-G -165K/160K-G -220K/185K-G -220K/185K-G -280K/250K-G -315K/280K-G | | 2 2 2 2 2 2 2 2 1/2 1 1 1 1 1 1 1 1 1 1 1 1 1 | 38/32 45/38 60/45 73/60 91/73 110/91 150/110 150/110 220/180 260/220 310/260 340/310 425/340 480/425 530/480 620/530 | |
| SF-040 | -11K/1.5K-G -15K/11K-G -15K/11K-G -22K/18.5K-G -22K/18.5K-G -37K/30K -45K/37K-G -35K/45K-G -55K/45K-G -55K/45K-G -10K/90K-G -132K/110K-G -132K/110K-G -185K/160K-G -220K/125K-G -220K/125K-G -250K/220K-G -315K/280K-G -355K/315K-G -355K/315K-G | | 2 2 2 2 2 2 2 2 1/2 1 1 1 1 1 1 1 1 1 1 1 1 1 | 38/32 45/38 60/45 73/60 91/73 110/91 150/110 180/150 220/180 220/180 220/20 310/260 340/310 425/340 425/340 425/340 620/530 683/620 | |

11) Parameter setting process

> The flow chart for switching the operation mode using DU01 operation panel: When P.79=0:



When P.79 = 1:

shihlin SET Pr. O. . OHZ REVO FWDO Read old parameter value from CPU shihlin z 🛢 |





Alarm record (note4)

Alarm record (note4) Set EXTO PUO REVO FWDO

gliter Shiphin Ship ering parameter setting m

tentening inequality set shiftinin MONO EXTO PU REVO FWDO SET stittinin MONO EXTO PU SET Stittinin MONO EXTO PU REVO FWDO SC

Entering frequency setting mode By pressing **V**(Read old frequency In the CPU of inverter)

٢

shihlin **60.00** MON © EXT © PU REV © FWDO

gliter Entering frequency setting mode

0-

> Operation flow charts for parameter setting mode with DU01



→ Pr. ____ OHZ MONO EXTO PUO REVO FWDO

SET Pr. 120, or MONO EXTO PUO REVO FWDO

en

12) Others

To improve our products, the parameters and contents may be modified, (http://automation.seec.com.tw/en/index.html) to download the latest version





> The flow chart for switching the working mode using DU01 operation panel:

Entering surveillance mode $\frac{\text{glitter}}{\kappa}$ Entering frequency setting mode Shihin Shihin MON[®] EXTO PU[®] MON[®] EXTO PU[®] MON[®] EXTO PU[®] KEVO PU[®] MON[®] EXTO PU[®] KEVO PU[®] MODE



> Operation flow charts for monitoring mode with DU01:



> Operation flow charts for frequency setting mode with DU01:

Use or V key for setting up the frequency :

| · · · · · · · · · · · · · · · · · · · | |
|--|----|
| se v to set new operation frequency | |
| During the procedure, CPU frequency will be | |
| freshed after pressing SET button in one second, i | it |
| ill roll back to surveillance mode automatically) | |
| shihlin | |

| shihlin | | |
|---------|----------------|------------|
| 6 | s. <i>oo</i> | |
| MONO | EXT O REV O | PU FWD0 |

Press the MODE key to enter the frequency setting mode



r refer to Shihlin web

V1.03-02 January, 2021