

High Functioning & High Performance

SF3-043-5.5K/3.7KG ~ 355K/315KG

Thank you for choosing Shihlin inverters SF3 series. This instruction provides parameters list of SF3 series, for users to efficiently search for setting range and default setting of all parameters, and set accordingly. Before adjusting parameters please read this instruction carefully to use the inverter correctly.

*Actual maximum output frequency is 599Hz, Even if the parameter setting exceeds 599Hz, the maximum output frequency is still 599Hz.

1) System Parameter Group 00

| Group | No. | Name | Setting Range | Default Value | User Setting |
|-------|---------------------|---|--|---------------|--------------|
| 00-00 | P.90 | The inverter model | Read | Read | |
| 00-01 | P.188 | Program version | Read | Read | |
| 00-02 | P.996 ~ P.999 | Parameter restoration | 0: Non-function 1: Alarm history clear(P.996=1) 2: Inverter reset(P.997=1) 3: Restoring all parameters to default values(P.998=1) 4: Restoring some parameters to default values 1(P.999=1) 5: Restoring some parameters to default values 2(P.999=2) 6: Restoring some parameters to default values 3(P.999=3) | 0 | |
| 00-03 | P.77 | Parameters writing protection selection | 0: Parameters can be written only when the motor stops. 1: Parameters cannot be written. 2: Parameters can also be written when the motor is running. 3: Parameters cannot be written when in password protection. | 0 | |
| 00-04 | P.294 | Decryption parameter | 0-65535 | 0 | |
| 00-05 | P.295 | Password setup | 2-65535 | 0 | |
| 00-06 | P.110 | Operation panel monitoring selection | X0: When the inverter starts, the operation panel enters the monitoring mode automatically, and the screen displays the output frequency. X1: When inverter starts, screen of operation panel displays target frequency. X2: When inverter starts, keypad enters monitor mode automatically, screen displays current pressure and feedback pressure of the constant pressure system in percentage X5: When inverter starts, keypad enters monitor mode automatically, screen displays current pressure and feedback pressure of the constant pressure system (valid with PU301C) 0X: Boot screen to monitor model output frequency 1X: Boot screen to set the target frequency mode 2X: Boot screen to monitor model of output current 3X: Boot screen to monitor mode of the output voltage | 1 | |
| 00-07 | P.161 | Multi-function display | 0: Output voltage(V) 1: Inverter voltage between (+/P) and (-/N) terminals.(V) 2: Temperature rising accumulation rate of inverter (%) 3: Target pressure of the constant pressure system(%) 4: Feedback pressure of the constant pressure system(%) 5: Operation frequency(Hz) 6: Electronic thermal accumulation rate(%) 7: Signal value (V) of 2-5 simulating input terminals. 8: Signal value (mA) of 4-5 simulating input terminals (mA/V) 9: Output power (kW). 10: PG card's feedback rotation speed. (Hz) 11: Positive and reverse rotation signal. Then 1 represents positive rotation, 2 represents reverse rotation, and 0 represents stopping state. 12: NTC temperature(°C) 13: Electronic thermal accumulation rate of motor (%) 14: Reserve 15: Input frequency of terminal HDI. (kHz) 16: Real-time curling radius value. (mm) 17: Real-time line speed. (m/min) 18: Output torque of inverter (%) (Valid only when 00-21 (P. 300) or 00-22 (P. 370) is set to 3 ~ 6) 19: Digital terminal input state 20: Digital terminal output state 21: Actual working carrier frequency 22: Signal value (mA) of 3-5 simulating input terminals. (mA/V) 23: Synchronous motor rotor pole position (Show the motor rotor magnetic pole position of the encoder only at 00-21 (P. 300) = 5 effective) 24: Current target frequency 25: PTC Enter the percentage 26: Target pressure and feedback the constant pressure system 27: motor speed 28: Power factor 29: Power used KWH 30-33: Reserved | 0 | |
| 00-08 | P.37 | Speed display | 0: Display output frequency(the mechanical speed is not displayed) 0.1-5000.0 1-50000 | 0.0 | |

| Group | No. | Name | Setting Range | Default Value | User Setting |
|-------|----------|---|--|----------------------------------|--------------|
| 00-09 | P.259 | Speed unit selection | X0: set speed unit to 1 X1: set speed unit to 0.1 0X: Power used with no decimal point 1X: Power used with one decimal point 2X: Power used with two decimal point | 1 | |
| 00-10 | reserved | reserved | reserved | -- | -- |
| 00-11 | P.72 | Carrier frequency | A/B frame: 1-15 kHz C/D frame: 1-10 kHz E/F frame: 1-9 kHz G/H frame: 1-4 kHz | 2 kHz 2 kHz 2 kHz 2 kHz | |
| 00-12 | P.31 | Soft-PWM operation selection | 0: None Soft-PWM operation 1: When 00-11(P.72)< 5, Soft-PWM is valid (only apply to V/F control) | 0 | |
| 00-13 | P.71 | Idling braking /DC braking | 0: Idling braking 1: DC braking | 1 | |
| 00-14 | P.75 | Stop function selection | 0: Press STOP button and stop the operation only in PU and H2 mode 1: Press STOP button and stop the operation in all mode. | 1 | |
| 00-15 | P.78 | Forward/reverse rotation prevention selection | 0: Forward rotation and reverse rotation are both permitted. 1: Reverse rotation is prohibited 2: Forward rotation is prohibited | 0 | |
| 00-16 | P.79 | Operation mode selection | 0: "PU mode", "external mode" and "Jog mode" are interchangeable. 1: "PU mode" and "JOG mode" are interchangeable. 2: "External mode" only 3: "Communication mode" only 4: "Combined mode 1" 5: "Combined mode 2" 6: "Combined mode 3" 7: "Combined mode 4" 8: "Combined mode 5" 99999: The second operation mode, operating instruction is set by 00-18(P.109), the target frequency is set by 00-17(P.97) | 0 | |
| 00-17 | P.97 | The second target frequency selection | 0: Frequency set by operation panel 1: Frequency set by Communication RS485 2: Frequency set by the analog 3: Frequency set by communication expansion board 4: Reserved 5: Frequency set by HDI pulse | 0 | |
| 00-18 | P.109 | The second start signal selection | 0: Operating signal set by operation panel 1: Operating signal set by digital input terminal 2: Operating signal set by Communication RS485 3: Operating signal set by communication expansion board | 0 | |
| 00-19 | P.35 | Communication mode instruction selection | 0: In communication mode, operating instruction and setting frequency is set by communication. 1: In communication mode, operating instruction and setting frequency is set by external. | 0 | |
| 00-21 | P.300 | Motor control mode selection | 0: Induction motor V/F control 1: Reserved 2: Induction motor simple vector control 3: Induction motor sensor without speed vector control 6: Synchronous motor without PG vector control | 0 | |
| 00-22 | P.370 | The second motor control mode selection | 0: Induction motor V/F control 1: Induction motor V/F close-loop control (VF+PG) 2: Induction motor simple vector control 3: Induction motor sensor without speed vector control 4- 5: Reserve 6: Synchronous motor without PG vector control 99999: The second motor control mode is not selected. | 99999 | |
| 00-23 | P.186 | Motor types selection | 0: Normal Duty (ND), apply to the fans and water pump type duty. 1: Heavy Duty (HD), apply to other duties. | 0 | |
| 00-24 | P.189 | 50Hz/60Hz switch selection | 0: The frequency parameter default value is 60Hz system. 1: The frequency parameter default value is 50Hz system. | 0 1 | |
| 00-25 | P.990 | Parameter mode setting | 0: Parameter is displayed in "group mode" 1: Parameter is displayed in "sequence P mode" | 0 | |
| 00-26 | P.125 | Expansion board type | Read | Read only | |

2) Basic Parameter Group 01

| Group | No. | Name | Setting Range | Default Value | User Setting |
|-------|------|---|---|---------------------|--------------|
| 01-00 | P.1 | Maximum frequency | 0.00 ~ 01-02 (P.18) Hz : 55K/45KG and below model 0.00 ~ 01-02 (P.18) Hz : 75K/55KG and above model | 120.00Hz 60.00Hz | |
| 01-01 | P.2 | Minimum frequency | 0 ~ 120.00Hz | 0.00Hz | |
| 01-02 | P.18 | High-speed maximum frequency | 01-00 (P.1) ~ 650.00Hz | 120.00Hz | |
| 01-03 | P.3 | Base frequency | 50Hz system setting: 0 ~ 650.00Hz 60Hz system setting: 0 ~ 650.00Hz | 50.00Hz 60.00Hz | |
| 01-04 | P.19 | Base voltage | 0 ~ 1000.0V 99999: Change according to the input voltage | 99999 | |
| 01-05 | P.29 | Acceleration/deceleration curve selection | 0: Linear acceleration /deceleration curve 1: S pattern acceleration /deceleration curve 1 2: S pattern acceleration /deceleration curve 2 3: S pattern acceleration /deceleration curve 3 | 0 | |
| 01-06 | P.7 | Acceleration time | 0 ~ 360.00s/0 ~ 3600.0s | 20.00s | |
| 01-07 | P.8 | Deceleration time | 0 ~ 360.00s/0 ~ 3600.0s : 5.5K/3.7KG~7.5/5.5KG model 0 ~ 360.00s/0 ~ 3600.0s : 11K/7.5KG and above model | 10.00s 30.00s | |
| 01-08 | P.21 | Acc/Dec time unit | 0: Time unit is 0.01s 1: Time unit is 0.1s | 0 | |

| Group | No. | Name | Setting Range | Default Value | User Setting |
|-------|-------|--|---|----------------------|--------------|
| 01-09 | P.20 | Acc/Dec reference frequency | 50Hz system setting: 1.00 ~ 650.00Hz 60Hz system setting: 1.00 ~ 650.00Hz | 50.00Hz 60.00Hz | |
| 01-10 | P.0 | Torque boost | 0 ~ 30.0% : 5.5K/3.7KG~7.5/5.5KG model 0 ~ 30.0% : 11K/7.5KG~55K/45KG model 0 ~ 30.0% : 75K/55KG and above model | 3.0% 2.0% 1.0% | |
| 01-11 | P.13 | Starting frequency | 0 ~ 60.00Hz | 0.50Hz | |
| 01-12 | P.14 | Load pattern selection | 0: Applicable to constant torque loads (convey belt, etc.) 1: Applicable to variable torque loads (fans and pumps, etc.) 2, 3: Applicable to ascending / descending loads. 4: Multipoint V/F broken line 5 ~ 13: Special two-point V/F broken line 14: V/F complete detached mode 15: V/F semidetached mode | 0 | |
| 01-13 | P.15 | JOG frequency | 0 ~ 650.00Hz | 5.00Hz | |
| 01-14 | P.16 | JOG Acc/ Dec time | 0 ~ 360.00s/0 ~ 3600.0s | 0.50s | |
| 01-15 | P.28 | Output frequency filter time | 0 ~ 1000ms | 0ms | |
| 01-16 | P.91 | Frequency jump 1A | 0 ~ 650.00Hz 99999: invalid | 99999 | |
| 01-17 | P.92 | Frequency jump 1B | 0 ~ 650.00Hz 99999: invalid | 99999 | |
| 01-18 | P.93 | Frequency jump 2A | 0 ~ 650.00Hz 99999: invalid | 99999 | |
| 01-19 | P.94 | Frequency jump 2B | 0 ~ 650.00Hz 99999: invalid | 99999 | |
| 01-20 | P.95 | Frequency jump 3A | 0 ~ 650.00Hz 99999: invalid | 99999 | |
| 01-21 | P.96 | Frequency jump 3B | 0 ~ 650.00Hz 99999: invalid | 99999 | |
| 01-22 | P.44 | The second Acc time | 0 ~ 360.00s/0 ~ 3600.0s 99999: Not selected | 99999 | |
| 01-23 | P.45 | The second Dec time | 0 ~ 360.00s/0 ~ 3600.0s 99999: Not selected | 99999 | |
| 01-24 | P.46 | The second torque boost | 0 ~ 30.0% 99999: Not selected 99999: Not selected | 99999 | |
| 01-25 | P.47 | The second base frequency | 0 ~ 650.00Hz 99999: Not selected | 99999 | |
| 01-26 | P.98 | Middle frequency 1 | 0 ~ 650.00Hz | 3.00Hz | |
| 01-27 | P.99 | Output voltage 1 of middle frequency | 0 ~ 100.0% | 10.0% | |
| 01-28 | P.162 | Middle frequency 2 | 0 ~ 650.00Hz 99999: Not selected | 99999 | |
| 01-29 | P.163 | Output voltage 2 of middle frequency | 0 ~ 100.0% | 0.0% | |
| 01-30 | P.164 | Middle frequency 3 | 0 ~ 650.00Hz 99999: Not selected | 99999 | |
| 01-31 | P.165 | Output voltage 3 of middle frequency | 0 ~ 100.0% | 0.0% | |
| 01-32 | P.166 | Middle frequency 4 | 0 ~ 650.00Hz 99999: Not selected | 99999 | |
| 01-33 | P.167 | Output voltage 4 of middle frequency | 0 ~ 100.0% | 0.0% | |
| 01-34 | P.168 | Middle frequency 5 | 0 ~ 650.00Hz 99999: Not selected | 99999 | |
| 01-35 | P.169 | Output voltage 5 of middle frequency | 0 ~ 100.0% | 0.0% | |
| 01-36 | P.255 | S pattern time at the beginning of Acc | 0 ~ 25.00s/0 ~ 250.0s | 0.20s | |
| 01-37 | P.256 | S pattern time at the end of Acc | 0 ~ 25.00s/0 ~ 250.0s 99999: Not selected | 99999 | |
| 01-38 | P.257 | S pattern time at the beginning of Dec | 0 ~ 25.00s/0 ~ 250.0s 99999: Not selected | 99999 | |
| 01-39 | P.258 | S pattern time at the end of Dec | 0 ~ 25.00s/0 ~ 250.0s 99999: Not selected | 99999 | |
| 01-40 | P.219 | Remote function acc/dec time selection | 0: Use default acc/dec time (same as regular mode) 1: Use second acc/dec time | 0 | |

3) Analog Input and Output Parameter Group 02

| Group | No. | Name | Setting Range | Default Value | User Setting |
|-------|-------|------------------------------------|--|---------------|--------------|
| 02-00 | P.500 | Function selection of terminal 2-5 | 0: Non-function 1: Frequency reference 2: Torque reference 3: PID target value 4: PID feedback signal 5-10: reserved 11: PTC 12: PT100 13: VF detached function 14-18: Reserved | 1 | |
| 02-01 | P.501 | Function of terminal 4-5 | Same as 02-00 | 1 | |
| 02-02 | P.504 | Function of terminal 3-5 | Same as 02-00 | 0 | |
| 02-03 | P.503 | Function of terminal HDI | Same as 02-00 | 0 | |

| Group | No. | Name | Setting Range | Default Value | User Setting |
|--|-------|--|--|--------------------|--------------|
| 02-04 | P.54 | AM1 output function selection | 0: Output frequency, frequency display reference 02-51 (P.55) is 100%. | 0 | |
| | | | 1: Output current, use 02-52 (P.56) value as 100%. | | |
| | | | 2: Output DC bus voltage, the OV level is 100%. | | |
| | | | 3: Output temperature rising accumulation rate, NTC level is 100%. | | |
| | | | 4: Output electronic thermal rate of inverter, electronic thermal relay running (06-00(P.9)=0) or electronic thermal relay of inverter's IGBT module running (06-00(P.9)=0) is 100%. | | |
| | | | 5: Target frequency, frequency display reference 02-51(P.55) is 100%. | | |
| | | | 6: Fixed level output, voltage or current output level is set by 02-54(P.541)/02-53(P.539) | | |
| | | | 7: Output voltage, inverter rated voltage is 100% | | |
| | | | 8: Excitation current, the motor rated current is 100%. (Valid only when 00-21(P.300) or 00-22(P.370) is set to 3-6) | | |
| | | | 9: Output torque, two times motor rated torque is 100%. (Valid only when 00-21(P.300) or 00-22(P.370) is set to 3-6) | | |
| | | | 10: Output power, two times motor rated power is 100%. | | |
| | | | 11: The high-speed pulse, 100.00kHz is 100%. | | |
| | | | 12: Motor speed, to display the level of 02-51(P.55) is 100% | | |
| 13: PLC analog output, details refer to SA3 embedded PLC instructions | | | | | |
| 02-05 | P.537 | Function of terminal AM2 output | 6: Steady level output, voltage or current level is set by 02-53(P.539). 0-5, 7-13: Same as 02-04. | 0 | |
| 02-06 | P.185 | Proportion linkage gain | 0 ~ 100% | 0% | |
| 02-07 | P.240 | Auxiliary frequency | 0: No auxiliary frequency function is available. | 0 | |
| | | | 1: Operation freq. = basic freq. + auxiliary Freq. (from 2-5 terminal) | | |
| | | | 2: Operation freq. = basic freq. + auxiliary freq. (from 4-5 terminal) | | |
| | | | 3: Operation freq. = basic freq. - auxiliary Freq. (from 2-5 terminal) | | |
| | | | 4: Operation freq. = basic freq.- auxiliary freq. (from 4-5 terminal) | | |
| | | | 5: Operation frequency = terminal 2-5 as the proportion linkage signal | | |
| | | | 6: Operation frequency = terminal 4-5 as the proportion linkage signal | | |
| | | | 7: Operation frequency = terminal 3-5 as the proportion linkage signal | | |
| | | | 8: Operation freq. = basic freq. + auxiliary Freq. (from 3-5 terminal) | | |
| 9: Operation freq. = basic freq. - auxiliary Freq. (from 3-5 terminal) | | | | | |
| 02-08 | P.73 | 2-5 signal selection | 0: The valid range of signal sampling is 0-5V. | 1 | |
| | | | 1: The valid range of signal sampling is 0-10V. | | |
| | | | 2: The valid range of signal sampling is 0-5V. | | |
| | | | 3: The valid range of signal sampling is 0-10V. | | |
| | | | 4: The valid range of signal sampling is -5 ~ +5V. | | |
| 5: The valid range of signal sampling is -10 ~ +10V. | | | | | |
| 02-09 | P.38 | 2-5 maximum operation frequency | 50Hz system: 1.00 ~ 650.00Hz 60Hz system: 1.00 ~ 650.00Hz | 50.00Hz 60.00Hz | |
| 02-10 | P.60 | 2-5 filter time | 0 ~ 2000ms | 30ms | |
| 02-11 | P.139 | The bias rate of 2-5 voltage signal | -100.0%~100.0% | 0.0% | |
| 02-12 | P.192 | The minimum input positive voltage of 2-5 | 0 ~ 10.00V | 0.00V | |
| 02-13 | P.193 | The maximum input positive voltage of 2-5 | 0 ~ 10.00V | 10.00V | |
| 02-14 | P.194 | The percentage corresponding to the minimum positive voltage of terminal 2-5 | -100.0% ~ 100.0% | 0.0% | |
| 02-15 | P.195 | The percentage corresponding to the maximum positive voltage of terminal 2-5 | -100.0% ~ 100.0% | 100.0% | |
| 02-16 | P.512 | The minimum input negative voltage of 2-5 | 0 ~ 10.00V | 0.00V | |
| 02-17 | P.513 | The maximum input negative voltage of 2-5 | 0 ~ 10.00V | 0.00V | |
| 02-18 | P.510 | The percentage corresponding to the minimum negative voltage of terminal 2-5 | -100.0% ~ 100.0% | 0.0% | |
| 02-19 | P.511 | The percentage corresponding to the maximum negative voltage of 2-5 | -100.0% ~ 100.0% | 0.0% | |
| 02-20 | P.17 | 4-5 signal selection | 0: The effective range of signal sampling is 4-20mA. | 0 | |
| | | | 1: The effective range of signal sampling is 0 ~ 10V. | | |
| | | | 2: The effective range of signal sampling is 0 ~ 5V. | | |
| 02-21 | P.39 | Maximum operation frequency of 4-5 | 50Hz system: 1.00 ~ 650.00Hz | 50.00Hz | |
| | | | 60Hz system: 1.00 ~ 650.00Hz | 60.00Hz | |
| 02-22 | P.528 | 4-5 filter time | 0 ~ 2000ms | 30ms | |
| 02-23 | P.505 | The bias rate of 4-5 current/voltage signal | -100.0% ~ 100.0% | 0.0% | |
| 02-24 | P.184 | 4-5 disconnection selection | 0: Without disconnection selection | 0 | |
| | | | 1: Decelerate to 0Hz, the digital output terminal will set off the alarm | | |
| | | | 2: The inverter will stop immediately, and the panel will display the "AEr" alarm. | | |
| 3: Run with the frequency before disconnect, output alarm by I/O | | | | | |
| 02-25 | P.198 | The minimum input current/voltage of 4-5 | 0 ~ 20.00mA | 4.00mA | |

| Group | No. | Name | Setting Range | Default Value | User Setting |
|--|-------|--|--|--------------------|--------------|
| 02-26 | P.199 | The maximum input | 0 ~ 20.00mA | 20.00mA | |
| 02-27 | P.196 | The percentage corresponding to the minimum input current/voltage of 4-5 | -100.0% ~ 100.0% | 0.0% | |
| 02-28 | P.197 | The percentage corresponding to the maximum input current/voltage of 4-5 | -100.0% ~ 100.0% | 100.0% | |
| 02-29 | P.531 | 3-5 signal selection | 0: The valid range of signal sampling is 4 ~ 20mA. | 1 | |
| | | | 1: The valid range of signal sampling is 0 ~ 10V. | | |
| | | | 2: The valid range of signal sampling is 0 ~ 5V. | | |
| 02-30 | P.508 | The maximum operation frequency of 3-5 | 50Hz system: 1.00 ~ 650.00Hz 60Hz system: 1.00 ~ 650.00Hz | 50.00Hz 60.00Hz | |
| 02-31 | P.527 | 3-5 filter time | 0 ~ 2000ms | 30ms | |
| 02-32 | P.507 | The bias rate of 3-5 current/voltage signal | -100.0% ~ 100.0% | 0.0% | |
| 02-33 | P.545 | 3-5 disconnection selection | 0: No disconnection selection. | 0 | |
| | | | 1: Decelerate to 0 Hz, the digital output terminal will set off the alarm. | | |
| | | | 2: The inverter will stop immediately, and the panel will display the "AEr" alarm. | | |
| 3: The inverter will run continuously according to the frequency reference before the disconnection. The digital output terminal will set off the alarm. | | | | | |
| 02-34 | P.548 | Minimum input current/voltage of 3-5 | 0 ~ 10.00V | 0.00V | |
| 02-35 | P.549 | Maximum input current/voltage of 3-5 | 0 ~ 10.00V | 10.00V | |
| 02-36 | P.546 | The percentage corresponding to the minimum input current/voltage of 3-5 | -100.0% ~ 100.0% | 0.0% | |
| 02-37 | P.547 | The percentage corresponding to the maximum input current/voltage of 3-5 | -100.0% ~ 100.0% | 100.0% | |
| 02-38 | P.526 | HDI filter time | 0 ~ 2000ms | 10ms | |
| 02-39 | P.524 | HDI input minimum frequency | 0 ~ 100.00kHz | 0 kHz | |
| 02-40 | P.525 | HDI input maximum frequency | 0 ~ 100.00kHz | 100kHz | |
| 02-41 | P.522 | The percentage corresponding to HDI input minimum frequency | -100.0% ~ 100.0% | 0.0% | |
| 02-42 | P.523 | The percentage corresponding to HDI input maximum frequency | -100.0% ~ 100.0% | 100.0% | |
| 02-43 | P.74 | HDO frequency multiplication coefficient | 0: Select FM function as the output function of terminal HDO. 1 ~ 9000: Select the square-wave pulse which is 02-43(P.74) times of running frequency as the output of terminal | 0 | |
| 02-44 | P.543 | FM output function selection | 0: Output frequency, frequency display reference 02-51(P.55) is 100%. | 0 | |
| | | | 1: Output current, the current monitoring reference 02-52(P.56) is 100%. | | |
| | | | 2: Output DC bus voltage, the OV level is 100%. | | |
| | | | 3: Output the temperature rising accumulation rate of inverter, the NTC level is 100%. | | |
| | | | 4: Output the electronic thermal rate of the inverter: The electronic thermal relay running (when 06-00(P.9)=0) or the electronic thermal relay of the inverter's IGBT module running (when 06-00(P.9)=0) is 100%. | | |
| | | | 5: Target frequency, frequency display reference 02-51(P.55) is 100%. | | |
| | | | 6: Fixed voltage output, voltage output level is set by 02-54 (P.541). | | |
| | | | 7: Output voltage, the inverter rated voltage is 100%. | | |
| | | | 8: Excitation current, motor rated current is 100%(Valid only when 00-21(P.300) or 00-22(P.370) is set to 3-6) | | |
| | | | 9: Output torque, two times motor rated torque is 100% (Valid only when 00-21 (P.300) or 00-22 (P.370) is set to 3-6) | | |
| | | | 10: Output power, two times motor rated power is 100%. | | |
| 11: The high-speed pulse as 100.00kHz is 100%. | | | | | |
| 12: Motor speed as displaying the level of 02-51(P.55) is 100%. | | | | | |
| 02-45 | P.64 | AM1 output signal selection | 0: 0-10V voltage can be output across terminal AM1-5. | 0 | |
| | | | 1: Reserve | | |
| | | | 2: 0-20mA current can be output across AM1-5. | | |
| 3: 4-20mA current can be output across AM1-5. | | | | | |
| 02-46 | P.191 | AM1 output gain | 0 ~ 150.00% | 100% | |
| 02-47 | P.190 | AM1 output bias | 0 ~ 150.00% | 0.00% | |
| 02-48 | P.538 | AM2 output signal selection | Same as 02-45 | 0 | |
| 02-49 | P.536 | AM2 output gain | 0 ~ 150.00% | 100% | |
| 02-50 | P.535 | AM2 output bias | 0 ~ 150.00% | 0.00% | |
| 02-51 | P.55 | Frequency display reference at the analog output | 50Hz system: 1.00 ~ 650.00Hz | 50Hz | |
| | | | 60Hz system: 1.00 ~ 650.00Hz | 60Hz | |
| 02-52 | P.56 | Current monitoring reference at the analog output | 0-500.00A: Types below Frame G | By types | |
| | | | 0-5000.0A: Frame G and types above | | |
| 02-53 | P.539 | AM2 fixed output level | 0 ~ 100.0% | 0.0% | |
| 02-54 | P.541 | AM1/FM fixed output level | 0 ~ 100.0% | 0.0% | |
| 02-55 | P.592 | PT100 voltage level 1 | 0 ~ 10.00V | 5.00V | |
| 02-56 | P.593 | PT100 voltage level 2 | 0 ~ 10.00V | 7.00V | |
| 02-57 | P.594 | PT100 level 1 starting frequency | 0 ~ 650.00Hz | 0.00Hz | |
| 02-58 | P.595 | Starting PT100 level 1 delay time | 0 ~ 6000s | 60s | |
| 02-59 | P.187 | FM calibration parameter | 0 ~ 9998 | 450 | |

4) Digital Input/ Output Parameter Group 03

| Group | No. | Name | Setting Range | Default Value | User Setting |
|-------|------|------------------------|--|---------------|--------------|
| 03-00 | P.83 | STF function selection | 0: STF (the inverter runs forward) | 0 | |
| | | | 1: STR (the inverter runs reverse) | | |
| | | | 2: RL (Multi-speed low speed) | | |
| | | | 3: RM (Multi-speed medium speed) | | |
| | | | 4: RH (Multi-speed high speed) | | |
| | | | 5: AU (analog terminal 4-5 priority) | | |
| | | | 6: The external thermal relay operation | | |
| | | | 7: MRS (the instantaneous stopping of the output) | | |
| | | | 8: RT (the inverter second function) | | |
| | | | 9: EXT (external JOG) | | |
| | | | 10 : STF+EXJ | | |
| | | | 11 : STR+EXJ | | |
| | | | 12 : STF+RT | | |
| | | | 13 : STR+RT | | |
| | | | 14 : STF+RL | | |
| | | | 15 : STR+RL | | |
| | | | 16 : STF+RM | | |
| | | | 17 : STR+RM | | |
| | | | 18 : STF+RH | | |
| | | | 19 : STR+RH | | |
| | | | 20 : STF+RL+RM | | |
| | | | 21 : STR+RL+RM | | |
| | | | 22 : STF+RT+RL | | |
| | | | 23 : STR+RT+RL | | |
| | | | 24 : STF+RT+RM | | |
| | | | 25 : STR+RT+RM | | |
| | | | 26 : STF+RT+RL+RM | | |
| | | | 27 : STR+RT+RL+RM | | |
| | | | 28: RUN (the inverter runs forward) | | |
| | | | 29: STF/STR (it is used with RUN, when STF/STR is "on", the inverter runs reversal ; when STF/STR is "off", the inverter runs forward) | | |
| | | | 30: RES (external reset function) | | |
| | | | 31: STOP (it can be used as a three-wire mode with the RUN signal or the STF-STR terminal) | | |
| | | | 32: REX (multi-speed set (16 levels)) | | |
| | | | 33: PO (in "external mode", programmed operation mode is chosen) | | |
| | | | 34: RES_E (external Reset signal become valid only when the alarm goes off.) | | |
| | | | 35: MPO (in "external mode" the manually operation cycle mode is chosen.) | | |
| | | | 36: TRI (triangle wave function is chosen) | | |
| | | | 37: GP_BP (Automatic switch over frequency between inverter and commercial power-supply operation.) | | |
| | | | 38: CS(Manual switch to commercial power supply) | | |
| | | | 39: STF/STR +STOP(The motor has a reverse rotation when the RUN signal is on. When it is off, stop the motor and then run the motor for forward rotation.) | | |
| | | | 40: P_MRS (the inverter output instantaneously stops, The MRS is pulse signal input) | | |
| | | | 41: PWM setting frequency | | |
| | | | 42: Reserve | | |
| | | | 43: RUN_EN (the digital input terminal running enable) | | |
| | | | 44: PID_OFF (the digital input terminal stopping PID enable) | | |
| | | | 45 : The second mode | | |
| | | | 46-56 : reserved | | |
| | | | 57: High-speed pulse input function | | |
| | | | 58: Analog terminal 2-5 priority | | |
| | | | 59: Analog terminal 3-5 priority | | |
| | | | 60: Starting/Stopping of PLC | | |
| | | | 61-64 : reserved | | |
| | | | 65: External accelerate/decelerate pause | | |
| | | | 66: External forced stop | | |
| | | | 67-71 : reserved | | |
| | | | 72 : Pump 1 manual soft start | | |
| | | | 73 : Pump 2 manual soft start | | |
| | | | 74 : Pump 3 manual soft start | | |
| | | | 75 : Pump 4 manual soft start | | |
| | | | 76 : Pump 5 manual soft start | | |
| | | | 77 : Pump 6 manual soft start | | |
| | | | 78 : Pump 7 manual soft start | | |
| | | | 79 : Pump 1 failure | | |
| | | | 80 : Pump 2 failure | | |
| | | | 81 : Pump 3 failure | | |
| | | | 82 : Pump 4 failure | | |
| | | | 83 : Pump 5 failure | | |
| | | | 84 : Pump 6 failure | | |
| | | | 85 : Pump 7 failure | | |
| | | | 86 : Failure of all pumps | | |
| | | | 87-89 : reserved | | |
| | | | 90 : Upper level of sump | | |
| | | | 91 : Lower limit of sump water level | | |
| | | | 92 : Fire mode command 1 (with run command) | | |
| | | | 93 : Fire mode command 2 (without run command) | | |
| | | | 99999 : Not choose in addition of terminal function | | |

| Group | No. | Name | Setting Range | Default Value | User Setting |
|-------|---------|--|--|---------------|--------------|
| 03-01 | P.84 | STR function selection | Same as 03-00 | 1 | |
| 03-02 | P.86 | RES function selection | Same as 03-00 | 30 | |
| 03-03 | P.80 | M0 function selection | Same as 03-00 | 2 | |
| 03-04 | P.81 | M1 function selection | Same as 03-00 | 3 | |
| 03-05 | P.82 | M2 function selection | Same as 03-00 | 4 | |
| 03-06 | P.126 | M3 function selection | Same as 03-00 | 5 | |
| 03-07 | P.127 | M4 function selection | Same as 03-00 | 8 | |
| 03-08 | P.128 | M5 function selection | Same as 03-00 | 7 | |
| 03-09 | P.550 | HDI terminal function | Same as 03-00 | 57 | |
| 03-10 | P.40 | SO1-SE function | 0: RUN (inverter running) | 1 | |
| | | | 1: SU (reaching the output frequency) | | |
| | | | 2: FU (output frequency detection) | | |
| | | | 3: OL (overload detection) | | |
| | | | 4: OMD (zero current detection) | | |
| | | | 5: ALARM (alarm detection) | | |
| | | | 6: PO1 (programmed operation section detection) | | |
| | | | 7: PO2 (programmed operation periodical detection) | | |
| | | | 8: PO3 (programmed operation pause detection) | | |
| | | | 9: BP (Switch between the power frequency and the frequency conversion, the power frequency output) | | |
| | | | 10: GP (Switch between the power frequency and the frequency conversion, the frequency conversion output) | | |
| | | | 11: OMD1 (Zero current detection) | | |
| | | | 12 : Pump 1 frequency conversion control | | |
| | | | 13 : Pump 1 power frequency control | | |
| | | | 14 : Pump 2 frequency conversion control | | |
| | | | 15 : Pump 2 power frequency control | | |
| | | | 16: Reserve | | |
| | | | 17: RY (the accomplishment of inverter running preparation) | | |
| | | | 18: Maintenance alarm function detection | | |
| | | | 19: OL2 (Over torque alarm output) | | |
| | | | 20: Capacitor lifetime abnormal | | |
| | | | 21-22: reserved | | |
| | | | 23 : Power marker detection | | |
| | | | 24 : Pump 3 frequency conversion control | | |
| | | | 25 : Pump 3 power frequency control | | |
| | | | 26 : Pump 4 frequency conversion control | | |
| | | | 27 : Pump 4 power frequency control | | |
| | | | 28 : Pump 5 frequency conversion control | | |
| | | | 29 : Pump 5 power frequency control | | |
| | | | 30 : Pump 6 frequency conversion control | | |
| | | | 31 : Pump 6 power frequency control | | |
| | | | 32 : Pump 7 frequency conversion control | | |
| | | | 33 : Pump 7 power frequency control | | |
| | | | 34 : Indication of dormant operation | | |
| | | | 35 : Hydraulic overpressure indication | | |
| | | | 36 : Underpressure indication of water pressure | | |
| | | | 37-38 : reserved | | |
| | | | 39 : Power frequency control of dormant pump (16-01~16-07 have been set to sleep pump this function is invalid.) | | |
| | | | 40 : Sewage pump power frequency control (16-01~16-07 have been set to sleep pump this function is invalid.) | | |
| | | | 41 : PID feedback line break (AER) alarm | | |
| | | | 42 : Fire mode indication | | |
| | | | 43 : Fire mode bypass indication | | |
| | | | 03-11 | | |
| 03-12 | P.129 | SO2-SE function selection | Same as 03-10 | 2 | |
| 03-13 | P.130 | A2-B2-C2 function selection | Same as 03-10 | 0 | |
| 03-14 | P.87 | Multi-function terminal digital input negative/positive logic | 0 ~ 1023 | 0 | |
| 03-15 | P.88 | Multi-function terminal digital output negative/ positive logic(noumenon and slot 3) | 0 ~ 4095 | 0 | |
| 03-16 | P.120 | Output signal delay time | 0 ~ 3600.0s | 0.0s | |
| 03-17 | P.157 | Digital input terminal filter time | 0 ~ 2000ms | 4ms | |
| 03-18 | P.158 | Digital input terminal power enable | 0: Digital input terminal power unable 1: Digital input terminal power enable | 0 | |
| 03-19 | Reserve | Reserve | Reserve | -- | -- |
| 03-20 | P.41 | Up-to-frequency sensitivity | 0 ~ 100.0% | 10.0% | |
| 03-21 | P.42 | Output frequency detection for | 0 ~ 650.00Hz | 6.00Hz | |
| 03-22 | P.43 | Output frequency detection for reverse rotation | 0 ~ 650.00Hz 99999: Same as the setting of 03-21(P.42) | 99999 | |
| 03-23 | P.62 | Zero current detection level | 0 ~ 200.0% 99999: Function invalid | 5.0% | |

| Group | No. | Name | Setting Range | Default Value | User Setting |
|-------|-------|---|--|---------------|--------------|
| 03-24 | P.63 | Zero current detection time | 0 ~ 100.00s 99999: Function invalid | 0.50s | |
| 03-25 | P.551 | Expanded digital input terminal M10 | Same as 03-00 | 99999 | |
| 03-26 | P.552 | Expanded digital input terminal M11 | Same as 03-00 | 99999 | |
| 03-27 | P.553 | Expanded digital input terminal M12 | Same as 03-00 | 99999 | |
| 03-28 | P.554 | Expanded digital input terminal M13 | Same as 03-00 | 99999 | |
| 03-29 | P.555 | Expanded digital input terminal M14 | Same as 03-00 | 99999 | |
| 03-30 | P.556 | Expanded digital input terminal M15 | Same as 03-00 | 99999 | |
| 03-41 | P.567 | Expanded digital input terminal negative / positive logic | 0 ~ 65535 | 0 | |
| 03-42 | P.568 | Expanded digital output terminal A10 | Same as 03-10 | 99999 | |
| 03-43 | P.569 | Expanded digital output terminal A11 | Same as 03-10 | 99999 | |
| 03-44 | P.570 | Expanded digital output terminal A12 | Same as 03-10 | 99999 | |
| 03-45 | P.571 | Expanded digital output terminal A13 | Same as 03-10 | 99999 | |
| 03-46 | P.572 | Expanded digital output terminal A14 | Same as 03-10 | 99999 | |
| 03-47 | P.573 | Expanded digital output terminal A15 | Same as 03-10 | 99999 | |
| 03-48 | P.574 | Expanded digital output terminal A16 | Same as 03-10 | 99999 | |
| 03-49 | P.575 | Expanded digital output terminal A17 | Same as 03-10 | 99999 | |
| 03-59 | P.585 | Monitor noumenon digital input terminal state | Read | Read | |
| 03-60 | P.586 | Monitor noumenon and expanded output terminal state | Read | read | |
| 03-61 | P.587 | Monitor expanded digital input terminal state | Read | read | |
| 03-62 | P.588 | reserved | | | |

5) Multi-speed Parameter Group 04

| Group | No. | Name | Setting Range | Default Value | User Setting |
|-------|-------|--|--|---------------|--------------|
| 04-00 | P.4 | Speed 1 (high speed) | 0 ~ 650.00Hz | 60.00Hz | |
| 04-01 | P.5 | Speed 2 (medium speed) | 0 ~ 650.00Hz | 30.00Hz | |
| 04-02 | P.6 | Speed 3 (low speed) | 0 ~ 650.00Hz | 10.00Hz | |
| 04-03 | P.24 | Speed 4 | 0 ~ 650.00Hz 99999: Function invalid | 99999 | |
| 04-04 | P.25 | Speed 5 | Same as 04-03 | 99999 | |
| 04-05 | P.26 | Speed 6 | Same as 04-03 | 99999 | |
| 04-06 | P.27 | Speed 7 | Same as 04-03 | 99999 | |
| 04-07 | P.142 | Speed 8 | Same as 04-03 | 99999 | |
| 04-08 | P.143 | Speed 9 | Same as 04-03 | 99999 | |
| 04-09 | P.144 | Speed 10 | Same as 04-03 | 99999 | |
| 04-10 | P.145 | Speed 11 | Same as 04-03 | 99999 | |
| 04-11 | P.146 | Speed 12 | Same as 04-03 | 99999 | |
| 04-12 | P.147 | Speed 13 | Same as 04-03 | 99999 | |
| 04-13 | P.148 | Speed 14 | Same as 04-03 | 99999 | |
| 04-14 | P.149 | Speed 15 | Same as 04-03 | 99999 | |
| 04-15 | P.100 | Minute/second selection | 0: The unit of selection time is minute. 1: The unit of selection time is second. | 1 | |
| 04-16 | P.121 | Run direction in each section | 0 ~ 255 | 0 | |
| 04-17 | P.122 | Cycle selection | 0: Cycle function is invalid 1 ~ 8: Run circularly from the setting section. | 0 | |
| 04-18 | P.123 | Acceleration/deceleration time setting selection | 0: Acc. time is determined by 01-06, Dec. time is determined by 01-07). 1: Acc. time and Dec. time are both determined by 04-35 ~ 04-42 . | 0 | |
| 04-19 | P.131 | Programmed operation mode speed 1 | 0 ~ 650.00Hz | 0.00Hz | |
| 04-20 | P.132 | Programmed operation mode speed 2 | 0 ~ 650.00Hz | 0.00Hz | |
| 04-21 | P.133 | Programmed operation mode speed 3 | 0 ~ 650.00Hz | 0.00Hz | |
| 04-22 | P.134 | Programmed operation mode speed 4 | 0 ~ 650.00Hz | 0.00Hz | |
| 04-23 | P.135 | Programmed operation mode speed 5 | 0 ~ 650.00Hz | 0.00Hz | |
| 04-24 | P.136 | Programmed operation mode speed 6 | 0 ~ 650.00Hz | 0.00Hz | |
| 04-25 | P.137 | Programmed operation mode speed 7 | 0 ~ 650.00Hz | 0.00Hz | |
| 04-26 | P.138 | Programmed operation mode speed 8 | 0 ~ 650.00Hz | 0.00Hz | |
| 04-27 | P.101 | Programmed operation mode speed 1 operating time | 0 ~ 6000.0s | 0.0s | |
| 04-28 | P.102 | Programmed operation mode speed 2 operating time | 0 ~ 6000.0s | 0.0s | |

| Group | No. | Name | Setting Range | Default Value | User Setting |
|-------|-------|--|-------------------------|---------------|--------------|
| 04-29 | P.103 | Programmed operation mode speed 3 operating time | 0 ~ 6000.0s | 0.0s | |
| 04-30 | P.104 | Programmed operation mode speed 4 operating time | 0 ~ 6000.0s | 0.0s | |
| 04-31 | P.105 | Programmed operation mode speed 5 operating time | 0 ~ 6000.0s | 0.0s | |
| 04-32 | P.106 | Programmed operation mode speed 6 operating time | 0 ~ 6000.0s | 0.0s | |
| 04-33 | P.107 | Programmed operation mode speed 7 operating time | 0 ~ 6000.0s | 0.0s | |
| 04-34 | P.108 | Programmed operation mode speed 8 operating time | 0 ~ 6000.0s | 0.0s | |
| 04-35 | P.111 | Programmed operation mode speed 1 Acc/Dec time | 0 ~ 600.00s/0 ~ 6000.0s | 0.00s | |
| 04-36 | P.112 | Programmed operation mode speed 2 Acc/Dec time | 0 ~ 600.00s/0 ~ 6000.0s | 0.00s | |
| 04-37 | P.113 | Programmed operation mode speed 3 Acc/Dec time | 0 ~ 600.00s/0 ~ 6000.0s | 0.00s | |
| 04-38 | P.114 | Programmed operation mode speed 4 Acc/Dec time | 0 ~ 600.00s/0 ~ 6000.0s | 0.00s | |
| 04-39 | P.115 | Programmed operation mode speed 5 Acc/Dec time | 0 ~ 600.00s/0 ~ 6000.0s | 0.00s | |
| 04-40 | P.116 | Programmed operation mode speed 6 Acc/Dec time | 0 ~ 600.00s/0 ~ 6000.0s | 0.00s | |
| 04-41 | P.117 | Programmed operation mode speed 7 Acc/Dec time | 0 ~ 600.00s/0 ~ 6000.0s | 0.00s | |
| 04-42 | P.118 | Programmed operation mode speed 8 Acc/Dec time | 0 ~ 600.00s/0 ~ 6000.0s | 0.00s | |

6) Motor Parameter Group 05

| Group | No. | Name | Setting Range | Default Value | User Setting |
|-------|-------|--|---|--------------------------|--------------|
| 05-00 | P.301 | Motor parameter auto-tuning function selection | 0: Parameter auto-tuning function with no motor 1 : Automatic measurement for induction motor in dynamic state1 2 : Automatic measurement for induction motor in static state 1 3: Induction motor online auto-tuning function 5: Automatic measurement for induction motor in static state 2 8: Synchronous motor parameter auto-tuning | 0 | |
| 05-01 | P.302 | Motor rated power | 0 ~ 650.00kW | 0.00kW | |
| 05-02 | P.303 | Motor poles | 0 ~ 256 | 4 | |
| 05-03 | P.304 | Motor rated voltage | 440 voltage : 0 ~ 510V | 440V | |
| 05-04 | P.305 | Motor rated frequency | 50Hz system : 0 ~ 650.00Hz 60Hz system : 0 ~ 650.00Hz | 50.00Hz 60.00Hz | |
| 05-05 | P.306 | Motor rated current | 0~500.00A : Types below frame G 0~5000.0A : Types and above frame G | By types | |
| 05-06 | P.307 | Motor rated rotation speed | 50Hz system : 0 ~ 65000r/min 60Hz system : 0 ~ 65000r/min | 1410 r/min 1710 r/min | |
| 05-07 | P.308 | Motor excitation current | 0~500.00A : Types below frame G 0~5000.0A : Types and above frame G | By types | |
| 05-08 | P.309 | IM motor stator resistance | 0 ~ 65000mΩ : 55K/45KG Types and below 0 ~ 650.00mΩ : 75K/55KG Types and above | By types | |
| 05-09 | P.310 | IM motor rotor resistance | 0 ~ 65000mΩ : 55K/45KG Types and below 0 ~ 650.00mΩ : 75K/55KG Types and above | By types | |
| 05-10 | P.311 | IM motor leakage inductance | 0 ~ 6500.0mH : 55K/45KG Types and below 0 ~ 650.00mH : 75K/55KG Types and above | By types | |
| 05-11 | P.312 | IM motor mutual inductance | 0 ~ 6500.0mH : 55K/45KG Types and below 0 ~ 650.00mH : 75K/55KG Types and above | By types | |
| 05-12 | P.313 | PM motor stator resistance | 0 ~ 65000mΩ : 55K/45KG Types and below 0 ~ 650.00mΩ : 75K/55KG Types and above | By types | |
| 05-13 | P.314 | PM motor d-axis inductance | 0 ~ 650.00mH | By types | |
| 05-14 | P.315 | PM motor q-axis inductance | 0 ~ 650.00mH | By types | |
| 05-15 | P.316 | PM motor back-emf coefficient | 0 ~ 6500.0V/krpm | By types | |
| 05-17 | P.318 | Rotation inertia | 0 ~ 6.5000kg. m²: 5.5K/7.5KG and types below 0 ~ 65.000kg. m²: 7.5K/11KG~ 90K/110KG types 0 ~ 650.00kg. m²: 110K/132KG and types above | By types | |
| 05-18 | P.319 | Load inertia ratio | 0~600.0 | 1.0 | |
| 05-22 | P.332 | The second motor rated power | 0 ~ 650.00kW 99999 | 99999 | |
| 05-23 | P.333 | The second motor poles | 0 ~ 256 99999 | 99999 | |
| 05-24 | P.334 | The second motor rated voltage | 0 ~ 510V 99999 | 99999 | |
| 05-25 | P.335 | The second motor rated frequency | 0 ~ 650.00Hz 99999 | 99999 | |
| 05-26 | P.336 | The second motor rated current | 0~500.00A : Types below frame G 0~5000.0A : Types and above frame G 99999 | 99999 | |
| 05-27 | P.337 | The second motor rated rotation speed | 0 ~ 65000r/min 99999 | 99999 | |
| 05-28 | P.338 | The second motor excitation current | 0~500.00A : Types below frame G 0~5000.0A : Types and above frame G 99999 | 99999 | |
| 05-29 | P.339 | The second motor (IM) stator resistance | 0 ~ 65000mΩ : 55K/45KG Types and below 0 ~ 650.00mΩ : 75K/55KG Types and above 99999 | 99999 | |
| 05-30 | P.340 | The second motor (IM) rotor resistance | 0 ~ 65000mΩ : 55K/45KG Types and below 0 ~ 650.00mΩ : 75K/55KG Types and above 99999 | 99999 | |

| | | | | | |
|-------|-------|--|---|--------|--|
| 10-52 | P.265 | Over excitation current level | 0 ~ 200.0% | 150.0% | |
| 10-53 | P.266 | Over excitation gain | 1.00 ~ 1.40 | 1.10 | |
| 10-54 | P.362 | Short-circuit brake time at PM motor start | 0~60.0s | 0.0s | |
| 10-55 | P.780 | PLC Action choice | 0:PLC Function invalid 1:PLC Function effective, PLC RUN signal from the external terminal input signal or 10-56 (P.781) 2:PLC Function effective, PLC RUN signal from external terminal input signal | 0 | |
| 10-56 | P.781 | PLC run | 0: No effect 1: PLC RUN | 0 | |
| 10-57 | P.782 | PLC Program erase | 0: invalid 1: Erase PLC program, after the success of the erasure parameter value is 0 | 0 | |
| 10-58 | P.783 | PLC Monitor choosing component | 0~326 | 0 | |
| 10-59 | P.784 | PLC Component monitoring value | Read | read | |

11) Speed and Torque Control Parameter Group 11

| Group | No. | Name | Setting Range | Default Value | User Setting |
|-------|-------|--|---|---------------|--------------|
| 11-00 | P.320 | Speed control proportion coefficient 1 | 0 ~ 200.00 | 10.00 | |
| 11-01 | P.321 | Speed control integral time 1 | 0 ~ 20.000s | 0.500s | |
| 11-02 | P.322 | PI coefficient switching frequency 1 | 11-25 (P.414) ~ 11-05 (P.325) Hz | 5.00Hz | |
| 11-03 | P.323 | Speed control proportion coefficient 2 | 0 ~ 200.00 | 10.00 | |
| 11-04 | P.324 | Speed control integral time 2 | 0 ~ 20.000s | 0.500s | |
| 11-05 | P.325 | PI coefficient switching frequency 2 | 11-02 (P.322) ~ 650.00Hz | 10.00Hz | |
| 11-06 | P.326 | Current control proportion coefficient | 0 ~ 20 | 0 | |
| 11-07 | P.327 | PM motor types | 0 : SPM 1 : IPM | 0 | |
| 11-08 | P.328 | PM initial motor position detection selection | 0: Pull in. 1: High frequency pulse | 0 | |
| 11-09 | P.329 | PM motor acceleration id | 0 ~ 200% | 80% | |
| 11-10 | P.330 | PM motor constant speed id | 0 ~ 200% | 0% | |
| 11-11 | P.331 | PM motor estimate rotation | 0 ~ 1000ms | 2ms | |
| 11-19 | P.408 | Forward motor torque limit | 0 ~ 400.0% | 200.0% | |
| 11-20 | P.409 | Reverse regenerative torque | 0 ~ 400.0% | 200.0% | |
| 11-21 | P.410 | Reverse motor torque limit | 0 ~ 400.0% | 200.0% | |
| 11-22 | P.411 | Forward regenerative torque | 0 ~ 400.0% | 200.0% | |
| 11-23 | P.412 | Zero velocity ratio | 0 ~ 200.00 | 10.00 | |
| 11-24 | P.413 | Zero speed integration time | 0 ~ 20.000s | 0.500s | |
| 11-25 | P.414 | Zero speed switching frequency | 0~11-02 (P.322) Hz | 5.00Hz | |
| 11-26 | P.415 | IM motor estimate speed filter time | 0-100.00ms | 0 | |
| 11-30 | P.371 | The second motor speed control proportion coefficient 1 | 0 ~ 200.00 99999 | 10.00 | |
| 11-31 | P.372 | The second motor Speed control integral time1 | 0 ~ 20.000s 99999 | 0.500s | |
| 11-32 | P.373 | The second motor PI coefficient switching frequency 1 | 0 ~ 11-35 (P.376)Hz 99999 | 5.00Hz | |
| 11-33 | P.374 | The second motor speed control proportion coefficient 2 | 0 ~ 200.00 99999 | 10.00 | |
| 11-34 | P.375 | The second motor Speed control integral time 2 | 0 ~ 20.000s 99999 | 0.500s | |
| 11-35 | P.376 | The second motor PI coefficient switching frequency 2 | 11-32(P.373)~650.00Hz 99999 | 10.00Hz | |
| 11-36 | P.377 | The second motor current control proportion coefficient | 0 ~ 20 99999 | 0 | |
| 11-37 | P.378 | The second PM motor types | 0 : SPM 1 : IPM 99999 | 0 | |
| 11-38 | P.379 | The second PM initial motor position detection selection | 0: Pull in. 1: High frequency pulse 99999 | 0 | |
| 11-39 | P.380 | The second PM motor acceleration id | 0 ~ 200% 99999 | 80% | |
| 11-40 | P.381 | The second PM motor constant speed id | 0 ~ 200% 99999 | 0% | |
| 11-41 | P.382 | The second PM motor estimated rotation speed filter time | 0 ~ 1000ms 99999 | 2ms | |
| 11-43 | P.366 | PM motor speed estimation observer Kp | 0 ~ 65000 | 30 | |
| 11-44 | P.367 | PM motor speed estimation observer Ki | 0 ~ 65000 | 10000 | |
| 11-48 | P.387 | Speed loop zero speed bandwidth | 0 ~ 100.0Hz | 5.0Hz | |
| 11-49 | P.388 | Speed loop zero speed bandwidth | 0 ~ 100.0Hz | 5.0Hz | |
| 11-50 | P.389 | Speed loop zero speed bandwidth | 0 ~ 100.0Hz | 5.0Hz | |
| 11-51 | P.390 | Speed loop self settle select | 0:invalid 1:valid | 0 | |

| Group | No. | Name | Setting Range | Default Value | User Setting |
|-------|-------|---|---------------|---------------|--------------|
| 11-52 | P.368 | Speed loop output low pass filter time constant | 0~500.0ms | 0 | |

12) Special Adjustment Parameter Group 13

| Group | No. | Name | Setting Range | Default Value | User Setting |
|-------|-------|--|---|---------------|--------------|
| 13-00 | P.89 | Slip compensation coefficient | 0 ~ 10 | 0 | |
| 13-01 | P.246 | Modulation coefficient | 0.90 ~ 1.20 | 1.00 | |
| 13-02 | P.285 | Low frequency vibration inhibition factor | 0 ~ 8 | 5 | |
| 13-03 | P.286 | High frequency vibration inhibition factor | XX00 ~ XX15 00XX ~ 15XX | 509 | |
| 13-04 | P.480 | vibration suppression mode | 0 : vibration suppression disable 1 : vibration suppression mode 1 2 : vibration suppression mode 2 3 : vibration suppression mode 3 | 1 | |
| 13-05 | P.481 | Vibration suppression factor | 0~100.0 | 10.0 | |
| 13-06 | P.482 | Vibration suppression Kp | 0~500 | 50 | |
| 13-07 | P.483 | Vibration suppression time | 0~65000 | 1010 | |

13) User Parameter Group 15

| Group | No. | Name | Setting Range | Default Value | User Setting |
|-------|-------|------------------------------|---------------|---------------|--------------|
| 15-00 | P.900 | User registered parameter 1 | 0 ~ 1299 | 99999 | |
| 15-01 | P.901 | User registered parameter 2 | 0 ~ 1299 | 99999 | |
| 15-02 | P.902 | User registered parameter 3 | 0 ~ 1299 | 99999 | |
| 15-03 | P.903 | User registered parameter 4 | 0 ~ 1299 | 99999 | |
| 15-04 | P.904 | User registered parameter 5 | 0 ~ 1299 | 99999 | |
| 15-05 | P.905 | User registered parameter 6 | 0 ~ 1299 | 99999 | |
| 15-06 | P.906 | User registered parameter 7 | 0 ~ 1299 | 99999 | |
| 15-07 | P.907 | User registered parameter 8 | 0 ~ 1299 | 99999 | |
| 15-08 | P.908 | User registered parameter 9 | 0 ~ 1299 | 99999 | |
| 15-09 | P.909 | User registered parameter 10 | 0 ~ 1299 | 99999 | |
| 15-10 | P.910 | User registered parameter 11 | 0 ~ 1299 | 99999 | |
| 15-11 | P.911 | User registered parameter 12 | 0 ~ 1299 | 99999 | |
| 15-12 | P.912 | User registered parameter 13 | 0 ~ 1299 | 99999 | |
| 15-13 | P.913 | User registered parameter 14 | 0 ~ 1299 | 99999 | |
| 15-14 | P.914 | User registered parameter 15 | 0 ~ 1299 | 99999 | |
| 15-15 | P.915 | User registered parameter 16 | 0 ~ 1299 | 99999 | |
| 15-16 | P.916 | User registered parameter 17 | 0 ~ 1299 | 99999 | |
| 15-17 | P.917 | User registered parameter 18 | 0 ~ 1299 | 99999 | |
| 15-18 | P.918 | User registered parameter 19 | 0 ~ 1299 | 99999 | |
| 15-19 | P.919 | User registered parameter 20 | 0 ~ 1299 | 99999 | |

14) Water Supply Parameter Group 16

| Group | No. | Name | Setting Range | Default Value | User Setting |
|-------|--------|---|--|---------------|--------------|
| 16-00 | P.1000 | Water supply mode selection | 0 : invalid 1 : Ordinary water supply mode 2 : Manual soft start mode | 0 | |
| 16-01 | P.1001 | Pump 1 type selection | 0 : Invalid pump 1 : Variable frequency pump 2 : Pump power frequency 3 : Dormant pump 4 : Sewage pump | 0 | |
| 16-02 | P.1002 | Pump 2 type selection | Same as 16-01 | 0 | |
| 16-03 | P.1003 | Pump 3 type selection | Same as 16-01 | 0 | |
| 16-04 | P.1004 | Pump 4 type selection | Same as 16-01 | 0 | |
| 16-05 | P.1005 | Pump 5 type selection | Same as 16-01 | 0 | |
| 16-06 | P.1006 | Pump 6 type selection | Same as 16-01 | 0 | |
| 16-07 | P.1007 | Pump 7 type selection | Same as 16-01 | 0 | |
| 16-08 | P.1008 | Manual soft start switching frequency | 0~120.00Hz | 50.00Hz | |
| 16-09 | P.1009 | Add pump pressure tolerance | 0.0~100.0% | 10.0% | |
| 16-10 | P.1010 | Add pump to judge time | 0~3600s | 60s | |
| 16-11 | P.1011 | Add frequency conversion pump switching frequency | 0~120.00Hz | 50.00Hz | |
| 16-12 | P.1012 | Pump running frequency | 0~120.00Hz | 50.00Hz | |
| 16-13 | P.1013 | Processing frequency pump frequency conversion pump deceleration time | 0~360.00s/0~3600.0s | 10.00s | |
| 16-14 | P.1014 | Reduce pump pressure tolerance | 0.0~100.0% | 10.0% | |
| 16-15 | P.1015 | Reduce pump judgment time | 0~3600s | 60s | |
| 16-16 | P.1016 | Reduce pump operating frequency | 0~120.00Hz | 20.00Hz | |
| 16-17 | P.1017 | Acceleration time of variable frequency pump when reducing pump | 0~360.00s/0~3600.0s | 10.00s | |
| 16-18 | P.1018 | Contactor pull delay | 0.1~10.0s | 1.0s | |
| 16-19 | P.1019 | Closing delay of contactor | 0.1~10.0s | 1.0s | |
| 16-20 | P.1020 | Variable frequency pump wheel cycle | 0.0~6000.0h | 0.0h | |
| 16-21 | P.1021 | Power frequency pump wheel cycle | 0.0~6000.0h | 0.0h | |

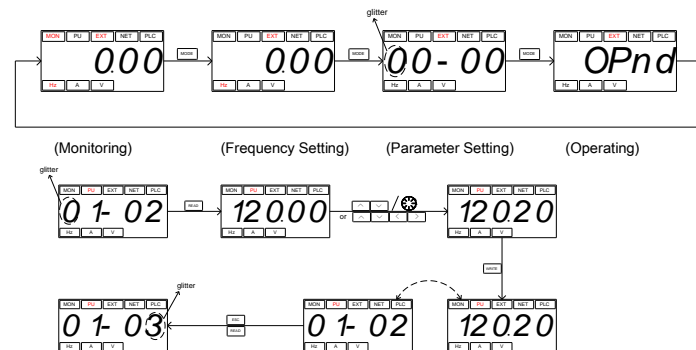
| Group | No. | Name | Setting Range | Default Value | User Setting |
|-------|--------|---|--|---------------|--------------|
| 16-22 | P.1022 | Water supply PID hibernation function selection | 0 : Hibernation invalid, inverter running PID 1 : Hibernation | 0 | |
| 16-23 | P.1023 | Water dormancy wake up pressure tolerance | 0.0~100.0% | 10.0% | |
| 16-24 | P.1024 | Water wake duration | 0 ~ 3600s | 60s | |
| 16-25 | P.1025 | Dormancy pump dormant period stop judge time | 0~3600s | 500s | |
| 16-26 | P.1026 | Hydraulic overpressure protection collimation | 0~200.0% | 150.0% | |
| 16-27 | P.1027 | Hydraulic overpressure judgment time | 0~3600s | 500s | |
| 16-28 | P.1028 | Hydraulic under pressure protection collimation | 0~100.0% | 0.0% | |
| 16-29 | P.1029 | Hydraulic under pressure judgment time | 0~3600s | 500s | |
| 16-35 | P.1050 | Preferred choice for adding pumps | 0:according to the shortest time 1:According to the numbered sequential | 1 | |
| 16-36 | P.1051 | Pump 1 running time (in minutes and seconds) | Read only | Read only | |
| 16-37 | P.1052 | Pump 1 running time (in hours) | Read only | Read only | |
| 16-38 | P.1053 | Pump 2 running time (in minutes and seconds) | Read only | Read only | |
| 16-39 | P.1054 | Pump 2 running time (in hours) | Read only | Read only | |
| 16-40 | P.1055 | Pump 3 running time(in minutes and seconds) | Read only | Read only | |
| 16-41 | P.1056 | Pump 3 running time (in hours) | Read only | Read only | |
| 16-42 | P.1057 | Pump 4 running time(in minutes and seconds) | Read only | Read only | |
| 16-43 | P.1058 | Pump 4 running time (in hours) | Read only | Read only | |
| 16-44 | P.1059 | Pump 5 running time (in minutes and seconds) | Read only | Read only | |
| 16-45 | P.1060 | Pump 5 running time (in hours) | Read only | Read only | |
| 16-46 | P.1061 | Pump 6 running time(in minutes and seconds) | Read only | Read only | |
| 16-47 | P.1062 | Pump 6 running time (in hours) | Read only | Read only | |
| 16-48 | P.1063 | Pump 7 running time(in minutes and seconds) | Read only | Read only | |
| 16-49 | P.1064 | Pump 7 running time (in hours) | Read only | Read only | |
| 16-50 | P.1065 | Clear pump running time | 0:No function 1~7:Clear pump X running time 8:Clear all pumps running time | 0 | |

15) Switching Parameter Mode

- SF3 series classify parameters according to functions, and the factory default value is displayed as "Group Mode";
- If users prefer to display as the mode of "P.xxx", please set the parameter00-25 as "1", and the parameters will be displayed as "Traditional P Mode".

16) Parameter Setting Flow

- Press MODE button to switch to the parameter setting mode.



17) Alarm code

| Code | Screen display | Cause | Troubleshooting |
|--------------------------------|----------------|---|---|
| ERROR | Error | 1.Low input voltage 2.The reset function "RES" is on 3.Bad connection between the control panel and main body 4.Internal circuit malfunction 5. CPU error 6.Abnormal load insulation to ground | 1.Use a better power supply 2.Shut off "RES" 3.Ensure the control panel is connected firmly 4.Replace the inverter. 5.Restart the inverter 6.Check the insulation of the motor cable and the three-phase winding of the motor |
| OCO Over-current at startup | OC0 | The output current exceeds twice the rated current of the inverter or the load is short-circuited | 1.Check whether the insulation layer of the motor power line is damaged 2.Check whether a contactor is used in series on the output side of the inverter, the contactor's contacts will arc and leads to inverter detects overcurrent (please avoid this usage, please refer to manual for wiring details) 3.The control circuit of the inverter is interfered with external noise (for example: the electromagnetic contactor frequently switches to power supply load), it is recommended to add magnetic rings on output line of the electromagnetic contactor, and add magnetic ring with 2~3 windings on control terminal input signal on inverter 4.If alarm OCO when the motor is disconnected, it needs to be sent to the factory for inspection |

| Code | Screen display | Cause | Troubleshooting |
|---|----------------|---|---|
| OC1 Over-current during acceleration | OC1 | | 1.It is recommended to increase the acceleration time P.7 (01-06) 2.Check the insulation condition of the motor power line (for example: the insulation of the three-phase motor is short to ground, the power line is short-circuited, or short circuit between power line and the metal part of the electric cabinet) 3.Check whether the base frequency parameter P.3 (01-03) of the inverter is the same with the rated frequency of the motor |
| OC2 Over-current when speed is constant | OC2 | | 1.It is recommended to reduce the load to eliminate motor stall and transmission mechanism jam 2.Check the insulation condition of the motor power line (for example: the insulation of the three-phase motor is short to ground, the power line is short-circuited, or short circuit between power line and the metal part of the electric cabinet) 3.Check whether the selection of the inverter power is too low |
| OC3 Over-current during deceleration | OC3 | | 1.It is recommended to increase the deceleration time P.8 (01-07) 2.It is recommended to set the base voltage parameter P.19 (01-04) equal to power supply voltage 3.It is recommended to add braking unit and braking resistor |
| OV0 Overvoltage at startup | OV0 | The voltage between terminals (+ / P)-(- / N) is too high or the motor is leaking to ground; External power lines have large electrical equipment start and stop affecting grid surges | 1.Check whether the input power voltage is abnormal 2.Check whether the motor is grounded (if so, it is recommended to remove the ground wire after turning off the power) 3.Check the insulation condition of the motor power line (for example: the insulation of the three-phase motor is short to ground, the power line is short-circuited, or short circuit between power line and the metal part of the electric cabinet) |
| OV1 Over-voltage during acceleration | OV1 | | 1.Check whether the input power voltage is abnormal 2.Check whether the motor is grounded (if so, it is recommended to remove the ground wire after turning off the power) 3.Check the insulation condition of the motor power line (for example: the insulation of the three-phase motor is short to ground, the power line is short-circuited, or short circuit between power line and the metal part of the electric cabinet) |
| OV2 Over-voltage at constant speed | OV2 | | 1.Check whether the input power voltage is abnormal 2.Check whether the motor is grounded (if so, it is recommended to remove the ground wire after turning off the power) 3.It is recommended to add an input AC reactor at the input end of the inverter 4.Check the insulation condition of the motor power line (for example: the insulation of the three-phase motor is short to ground, the power line is short-circuited, or short circuit between power line and the metal part of the electric cabinet) |
| OV3 Over-voltage during deceleration | OV3 | | 1.It is recommended to increase the deceleration time P.8 (01-07) 2.It is recommended to add braking unit and braking resistor 3.Set the base voltage parameter P.19 (01-04) to 99999 4.Check the insulation condition of the motor power line (for example: the insulation of the three-phase motor is short to ground, the power line is short-circuited, or short circuit between power line and the metal part of the electric cabinet) |
| THT IGBT module Overheat | THT | | 1. IGBT module accumulated heat relay action (overload warning) 2.01-03 (P.3) The setting does not match the rated frequency of the motor. 3. Insufficient input power supply voltage of the inverter reduces output capacity 4.The three-phase input connection of the motor is incorrect |
| THN Motor Overheat | THN | Electronic thermal relay action | 1.Check whether the inverter specifications match the motor specifications 2.Check whether the load of the system is too heavy, and whether the output current displayed by the inverter exceeds the rated current 3.Check whether the wiring of the motor is correct (usually 220V motor is delta (Δ) connection, 380V motor is star (Y) connection, please check motor nameplate for connection details) 4.Check whether the motor wiring is damaged 5.Check whether the setting value of P.9 (06-00) matches the rated current of the motor 6. Check whether the parameter setting of P.3 (01-03) is the same with the rated frequency of the motor |
| FAN Cooling fan abnormal | FAN | Cooling fan abnormal | 1. The fan is damaged, please replace it with a new one 2. Foreign object is blocking the fan, please remove the foreign object 3. Fan wiring is broken / dropped, please replace it with a new one |

| Code | Screen display | Cause | Troubleshooting |
|---|----------------|---|--|
| OHT External Overheat | OHT | External thermal relay activate | 1.Check if the 06-00 (P. 9) value matches the motor (check motor nameplate) 2.Reduce the load 3.Check whether the external connection signal is disconnected or disconnected |
| OPT RS-485 connector error | OPT | 1. Communication error, exceeding the number of communication error retries 2. External noise interference 3. The communication control program logic is unreasonable 4. Communication is interrupted, exceeding the communication interval allowable time | 1.Check whether the parameter (P.32, P.33, P.36, P.154) setting is the same with upper controller communication setting 2.Check whether the RS485 DA+ and DB- terminal wiring is correctly connected to the upper controller 3.Check whether the communication protocol of the upper controller is the same as the one declared in inverter 4.The communication line is interfered by external noise (it is recommended to use twisted-pair shielded wire and connect to the signal ground correctly) 5.The inverter internal communication port is damaged and needs to be returned to the factory for inspection |
| PUE PU connector error | PUE | | Correctly set communication related parameters It is recommended to use twisted-pair shielded communication lines and the shielding layer is properly grounded. Check communication procedures |
| CbE Expansion connector error | CbE | | |
| EEP Memory error | EEP | ROM malfunction | When this alarm occurs frequently, please send it to the factory for maintenance Avoid frequent communication to modify parameters and save target frequency to EEPROM. Refer to 07-11 (P.34) and target frequency communication address H1002 to prevent premature damage. |
| PID PID error | PID | 1.The capacity of the inverter or motor is not enough 2.PID target value or feedback value doesn't make sense 3.Peripheral devices malfunction 4. The feedback signal is not connected or disconnected during PID control | 1.Use an inverter or a motor with bigger capacity. 2.Check the feedback gain value. Reset the target value according to the feedback. 3.Check all peripheral feedback devices of the system (sensors, potentiometer) and wirings. |
| CPU CPU error | CPU | Strong electromagnetic interference | Reduce peripheral interference. |
| OLS Stall prevention and protection | OLS | Motor overload | 1.Reduce the load 2.Increase 06-01(P.22) value. |
| SCP Short circuit/ over-current | SCP | 1. Short circuit on the output side 2.The inverter incorrectly reports SCP warning | 1. Check whether the inverter output is short-circuited (such as motor wiring) 2. The inverter may be interfered by external electromagnetic noise. Please improve the wiring. (Note 1) |
| NTC Module overheat | NTC | Inverter-side IGBT module temperature is too high | 1.Lower the surrounding temperature and increase venting 2. Check if the cooling fan is functioning properly 3. Check if the carrier frequency 00-11 (P.72) is set too high |
| NTC2 Module 2 overheat | NTC2 | | |
| NTC3 Module 3 overheat | NTC3 | | |
| NTC4 Module 4 overheat | NTC4 | | |
| NTC5 Module 5 overheat | NTC5 | | |
| NTC6 Module 6 overheat | NTC6 | | |
| OL2 Overload | OL2 | 1. Motor overload 2. The value on 06-08 (P.155) and 06-09(P.156) doesn't make sense. | 1.Reduce the load 2.Set 06-08 (P.155) and 06-09(P.156) properly |
| BE Brake transistor error (Relay error) | BE | Brake transistor error (Relay error) | Send the unit back to the dealer or the manufacturer to repair |
| IPF Input power error | IPF | Input power error(Missing phase) | Check if the power supply is normal |
| CPR CPU error | CPR | CPU error | 1.Check the wiring 2.Check the parameter setup 3.Reduce noise interference |
| AEr Terminal 4-5/3-5 error | AEr | The terminal 4-5-3-5 analog output disconnect | Check parameter 02-24 (P.184),02-33(P.545) |
| PTC Motor overheat | PTC | Motor overheat | 1.reduce the load 2.set parameter 06-16(P.534) |
| BEB Broken wire | BEB | Broken wire | Check if the feedback wire is broken |

| Code | Screen display | Cause | Troubleshooting |
|--|----------------|---|--|
| IAE relay abnormal operation | IAE | The main circuit relay is abnormal | Please send to the factory for maintenance |
| GF Output short-circuit to ground | GF | Shortage between output and ground | Check the motor wiring |
| LF Output phase loss | LF | Output error | Check the UVW terminal on the inverter |
| HDC Hardware self-detect circuit error | HdC | Hardware self-detect circuit error | Send the unit back to the dealer or the manufacturer to repair |
| ADE Three-phase current sampling error | AdE | Three-phase current sampling circuit error | Send the unit back to the dealer or the manufacturer to repair |
| EbE1 Expansion card slot1 error | EbE1 | The first result of auto detection is not the same as the second. | Check the connection of the expansion card |
| dPF Main circuit power error | dPF | Main circuit power error | Send the unit back to the dealer or the manufacturer to repair |

Note 1: Do not turn on the power repeatedly before removing the cause of the alarm.

18) Abnormal situation and countermeasures

| Abnormal situation | Check points | |
|--|---|---|
| Motor doesn't move | Main circuit | <ul style="list-style-type: none"> Is the voltage between terminals R/L1-S/L2-T/L3 normal? Is the POWER light on? Is the wiring between the inverter and the motor correct? |
| | Load | <ul style="list-style-type: none"> Is the load too heavy? Is the rotor of the motor locked? |
| | Parameter setting | <ul style="list-style-type: none"> Is the start frequency (01-11 (P.13)) set too high? Is the operating mode (00-16 (P.79)) correct? Is the upper limit frequency (01-00 (P.1)) set to zero? Is reverse prevention (00-15 (P.78)) limited? Is the signal bias and gain (02-12-02-15, 02-25-02-28/P.192-P.199) correct? Is the avoidance frequency (01-16-01-21 / P.91-P.96) correct? |
| | Control circuit | <ul style="list-style-type: none"> Is there any MRS function "on"? Related parameters 03-00-03-09(P.80-P.84, P.86, P.126-P.128, p.550) Is there a RES function "on"? Related parameters 03-00-03-09(P.80-P.84, P.86, P.126-P.128, p.550) Is the external thermal relay tripping? Is there an alarm (ALARM light is on) and has not been reset? Is the voltage/current signal connected correctly? Are the STF and STR functions correct? Related parameters 03-00-03-09(P.80-P.84, P.86, P.126-P.128, p.550) Is the control circuit wiring disconnected or poorly connected? |
| Motor rotates backwards | <ul style="list-style-type: none"> Is the wiring phase sequence of the motor terminal (U/T1)/(V/T2)/(W/T3) correct? Is the wiring of the start terminals STF and STR correct? | |
| Motor speed doesn't rise | <ul style="list-style-type: none"> Is the load too heavy? Is the stall prevention level (06-01 (P.22)) correct? Is the torque compensation (01-10 (P.0)) too high? Is it limited by the upper limit frequency (01-00 (P.1))? | |
| Accelerating & decelerating not smooth | <ul style="list-style-type: none"> Is the acceleration/deceleration time (01-06 (P.7), 01-07 (P.8)) correct? Is the acceleration/deceleration curve selection (01-05 (P.29)) correct? Is the voltage/current signal floating due to noise? | |
| Motor current too large | <ul style="list-style-type: none"> Is the load too large? Does the drive capacity match the motor capacity? Is the torque compensation (01-10 (P.0)) too high? | |
| The speed fluxgate when run | <ul style="list-style-type: none"> Is the voltage/current signal floating due to noise? Does the motor load change? Is the main circuit wiring too long? | |

19) Others

To improve our products, the parameters and contents may be modified, please contact the agent or refer to Shihlin websites (<http://automation.seec.com.tw/>) to download the latest version..

