

YC1800



YC1800 Low-Voltage General-Purpose Frequency Converter

Flexible configuration with customization support to meet diverse customer requirements

Product Name and Illustration

YC1800-Silver Moon



YC1800-dark



Product Introduction :

Universal frequency converter, with superior performance, rich functions, and beautiful appearance; **E**xcellent heat dissipation performance, smaller size, and more reasonable structural design; **F**lexible and versatile configuration, supporting customization to meet different customer needs.

Technical Parameter:

| Name | Date |
|-------------------------|---|
| Input Voltage | Single-phase power supply: 220V, 50Hz/60Hz Three-phase power supply: 380V, 50Hz/60Hz |
| Rated voltage of motor | 0~2000V |
| Motor rated power | 0.1 ~ 1000.0kW |
| Rated current of motor | 0.1 ~ 6553.5A |
| Motor stator resistance | 0.001~65.535Ω |
| Motor rotor resistance | 0.001~65.535Ω |
| Maximum Frequency Range | 50.00Hz ~ 630.00Hz(Factory value 50.00Hz) |
| Carrier Frequency | 1.0 ~ 15.0kHz |
| No-load Cur | 0.1~6553.5A |

For more detailed parameters, please refer to the "Function Parameter List" on page 9 of the "Product Manual" below.

Application scope:

- Metal processing, CNC machine tools, wire drawing machines and other mechanical equipment
- Food machinery
- Boiler blower, induced draft fan, coal mine underground exhaust fan
- Municipal engineering and energy-saving renovation of central air conditioning
- For cyclone fans, centrifugal fans, etc
- Circulating water pump, make-up water pump, oilfield water injection pump, oil transfer pump, music fountain
- Paper making equipment, chemical industry, pharmaceutical industry, textile industry, etc

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Chapter 1 Safety precautions

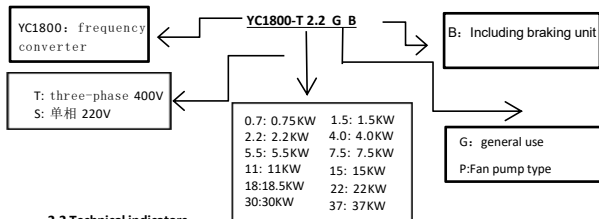
Safety Precautions:

Users must carefully read this section before installing, commissioning, or maintaining the system. Strictly adhere to all safety instructions provided. The company shall not be liable for any injuries or damages resulting from non-compliance with these operational requirements.

1. Do not use in flammable or explosive environments, as this may cause explosion hazards.
2. Do not touch terminals while power is on, as electric shock may occur.
3. Never connect the inverter output terminals (U, V, W) to the power supply to avoid equipment damage.
4. Ensure proper wire gauge for external wiring to prevent loose connections, short circuits, or poor contacts.
5. Do not directly short PB and P+ – a braking resistor (200W or higher) must be connected here.
6. Unauthorized disassembly or modification of the inverter is strictly prohibited and will void warranty and return eligibility.
7. Do not perform wiring work while the inverter is powered on to avoid electrical hazards.
8. Prevent foreign objects, especially conductive materials like metal, from entering the inverter.
9. Avoid installing the inverter in areas with water splashing or excessive moisture to prevent internal damage.
10. The grounding terminal must be securely connected to a proper earth ground for safety.
11. Do not touch the heat sink or braking resistor during operation or within 10 minutes after power-off to prevent burns.
12. Our company continuously improves products and updates features; specifications may change without prior notice.

Chapter II Product Information

2.1 Naming rules



2.2 Technical indicators

| Frequency converter model | Power capacity | input currenton | output | Adapter motor | |
|---|-------------------|--------------------|--------|------------------|-----|
| | KVA | A | A | kW | HP |
| Single phase power supply: 220V,50HZ/60HZ | | | | | |
| YC1800-S0.7GB | 1.5 | 5.1 | 4.2 | 0.75 | 1 |
| YC1800-S1.5GB | 3.0 | 7.8 | 7.5 | 1.5 | 2 |
| YC1800-S2.2GB | 4.0 | 11.3 | 10.0 | 2.2 | 3 |
| Three-phase power supply: 380V,50HZ/60HZ | | | | | |
| YC1800-T0.7GB | 1.5 | 3.4 | 2.5 | 0.75 | 1 |
| YC1800-T1.5GB | 3.0 | 5.0 | 4.2 | 1.5 | 2 |
| YC1800-T2.2GB | 4.0 | 5.8 | 5.5 | 2.2 | 3 |
| YC1800-T4.0GB | 5.9 | 13.3 | 9.5 | 4.0 | 5 |
| YC1800-T5.5GB | 8.9 | 19.6 | 14.0 | 5.5 | 7.5 |
| YC1800-T7.5GB | 11.0 | 24.0 | 18.5 | 7.5 | 10 |
| YC1800-T11GB | 17.0 | 32.0 | 25.0 | 11.0 | 15 |
| YC1800-T15GB | 21.0 | 40.0 | 32.0 | 15.0 | 20 |
| YC1800-T18.5GB | 24.0 | 46 | 38.0 | 18.5 | 25 |
| YC1800-T22GB | 30.0 | 49.5 | 45.0 | 22 | 30 |
| YC1800-T30GB | 40.0 | 68.0 | 60.0 | 30 | 40 |

Chapter 3 Installation Guide

3.1 Product size diagram and installation diagram

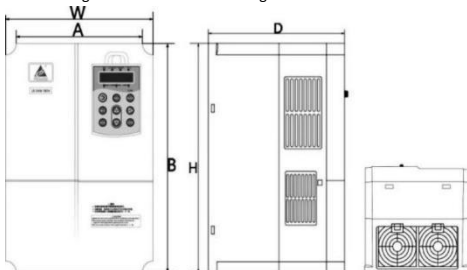
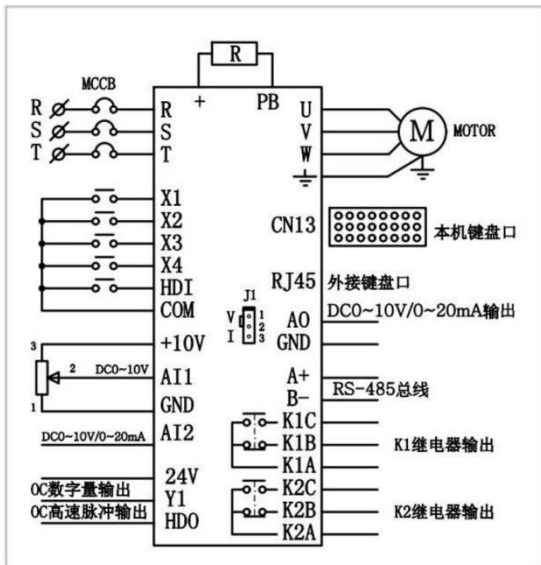


Table 3-1 YC1800 Series external dimensions and installation dimensions

| Product type Number | Install the hole position (mm) | | outline dimension (mm) | | | | install aperture (mm) | Net quantity (Kg) | remarks |
|------------------------|--------------------------------|-----|------------------------|-----|----|-----|-----------------------|-------------------|--------------------------------|
| | A | B | H | H1 | W | D | | | |
| Single phase 220V | | | | | | | | | |
| YC1800-S1.5GB | | | | | | | | | |
| YC1800-S2.2GB | | | | | | | | | |
| Three phase 380V | | | | | | | | | |
| YC1800-T0.7GB | 67.5 | 160 | 155 | 170 | 85 | 140 | φ5.0 | | D (includes knob height: 10mm) |
| YC1800-T1.5GB | | | | | | | | | |
| YC1800-T2.2GB | | | | | | | | | |

4.2 Refer to the wiring diagram



Chapter V Operation Panel



5.1 Appearance diagram

5.2 Indicator light Description

- 1) RUN: When the light is on, the frequency converter is running; When the light goes out, the frequency converter is in a shutdown state.
- 2) F/R: Forward and reverse indicator light. When the light is on, it indicates that the machine is in reverse operation.
- 3) L/R: Keyboard operation, terminal operation, and remote operation (communication control) indicator lights.
- 4) ERR: Alarm indicator light
- 5) Hz, A, V: Unit indicator lights, used to indicate the unit of the current displayed data, with the following units: Hz: Frequency Unit A: Current Unit V: Voltage Unit Hz+A: Speed Unit A+V: % Percentage

5.3 Key Description

| key | Key Product name | Key function |
|------------|------------------------------|--|
| PRG/ESC | Programming keys | Go to menu parameter Settings and switching functions |
| MFk/JOG | Multi-function selection key | Switch selection based on MFk function |
| ▲/UP | Incremental key | Increment of data or Function code |
| ▼/DOWN | The decrement key | Decrease in data or Function code |
| SHIFT | shift key | Under the shutdown display interface and operation display interface, display parameters can be cyclically selected; When modifying parameters, you can choose the modification bit of the parameter |
| DATA/ENTER | Confirm key | Gradually enter the menu screen, set parameters and confirm |
| RUN | Run key | In keyboard operation mode, used for running operations |
| STOP | break key | In the running state, this key can be used to stop the operation; in the fault alarm state, it can be used to reset the operation. |

Chapter 6 List of functional parameters

6.1 Description of functional parameters

"○"The set value of this parameter can be changed when the frequency converter is in both shutdown and operation states

"●" The set value of this parameter cannot be changed when it is in operation in the frequency converter

"※"The value of this parameter represents the actual detection record value and cannot be changed

Table 6-1 A brief list of basic functional parameters

| Function code | Product name | Description | Factory value | Attribute |
|---------------------|------------------------------|--|---------------|-----------|
| 00 basic parameters | | | | |
| 00-00 | Frequency converter type G/P | 0: G-type: constant torque load 1: P-type: Fan pump type load | 0 | ● |
| 00-01 | Motor control mode | 0: retained 1: Vector control without speed sensor 2 (with torque control) 2: VF control | 2 | ● |
| 00-02 | Run command source selection | 0: Keyboard command (L/R lights off) 1: Terminal command (L/R flashing) 2: Communication command (L/R lights on) | 0 | ● |

| | | | | |
|-------|---|---|---|---|
| 00-03 | Frequency source A is selected | Digital Settings (preset frequency 00-08, UP/DOWN Or the keyboard encoder can be modified, power down memory) 1: AI1 2: AI2 3: AI3 4: HDI 5: Simple PLC 6: Multi-speed 7: PID 8: RS-485 communication 9: Keyboard analog potentiometer | 0 | ● |
| 00-04 | Frequency source B selection | Ibid. (00-03) | 3 | ● |
| 00-05 | Frequency source B is the reference model and the selection is made | 0: maximum frequency 1: Frequency source A | 0 | ○ |
| 00-07 | Frequency source combination | 0: Frequency source A 1: Frequency source B | 0 | ○ |

| Function code | Product name | Description | Factory value | Attribute |
|---------------------------|---|---|-------------------------|-----------|
| | | 2: Frequency source A + frequency source B 3: Frequency source A- frequency source B 4: The maximum value of the two MAX (A, B) 5: The minimum value of the two MIN (A, B) | | |
| 00-08 | Set the keyboard preset frequency | 0.00Hz ~ (00-08) | 50.00Hz | ○ |
| 00-09 | Motor direction of operation | 0: Same direction 1: In the opposite direction 2: Do not flip | 0 | ● |
| 00-10 | maximun-frequency | 00-09 ~ 630.00Hz | 50.00Hz | ● |
| 00-12 | upper limiting frequency | 00-10 ~ (00-08) | 50.00Hz | ● |
| 00-14 | Lower limit frequency | 0.00Hz ~ (00-09) | 0.00Hz | ● |
| 00-15 | carrier frequency | 1.0 ~ 15.0kHz | The model is determined | ○ |
| 00-16 | Zero frequency output selection | 0: No output 1: There is output 2: DC braking output (from 05-11 Set the size) | 0 | ○ |
| 00-17 | Acceleration time 1 | 0.0 ~ 3600.0s | The model is determined | ○ |
| 00-18 | Deceleration time 1 | 0.0 ~ 3600.0s | The model is determined | ○ |
| 00-19 | Industry application macro selection | 0~65535 | 0 | ○ |
| 01 Group motor parameters | | | | |
| 01-01 | Automatic measurement of motor parameters | 0: No function 1. Dynamic testing 2: Static test 1 3: Static Test 2 (recommended) | 0 | ● |
| 01-02 | Rated power of motor | 0.1 ~ 1000.0kW | Model determination | ● |

| | | | | |
|---------------------|---|---|---------------------|---|
| 01-03 | Rated frequency of motor | 0.01Hz~ maximum frequency (00-08) | 50.00Hz | ● |
| 01-04 | Rated speed of motor | 1 ~ 36000rpm | Model determination | ● |
| 01-05 | Rated voltage of motor | 0~2000V | Model determination | ● |
| 01-06 | Rated current of motor | 0.1 ~ 6553.5A | Model determination | ● |
| 01-07 | Motor stator resistance | 0.001~65.535 Ω | Model determination | ○ |
| 01-08 | Motor rotor resistance | 0.001~65.535 Ω | Model determination | ○ |
| 01-09 | Motor leakage inductance resistance | 0.1~6553.5mH | Model determination | ○ |
| 01-10 | Motor mutual inductance resistance | 0.1~6553.5mH | Model determination | ○ |
| 01-11 | Motor no-load current | 0.1~6553.5A | Model determination | ○ |
| 02 Group VF control | | | | |
| 02-00 | VF curve setting | 0: Straight VF 1: multi-point VF (V1<V<V3, | 0 | ● |
| | | F1<F2<F3) 2: 1.3 Power VF 3: 1.7 power VF 4: 2.0 power VF 5: VF separation 6: Reserved | | |
| 02-01 | VF torque boost | 0.0%: Automatic torque boost 0.1~10.0%: manually set | 0.0% | ○ |
| 02-02 | VF torque boost cutoff frequency position | 0.0 ~ 50.0% | 20.0% | ○ |
| 02-03 | Multiple points VF maximum frequency F3 | 0.00Hz ~ (01-02) | 0.00Hz | |
| 02-04 | Maximum voltage of multi-point VF is V3 | 0.0% ~ 110.0% | 0.0% | ○ |
| 02-05 | Multiple points in the VF intermediate | 0.00Hz ~ F3 | 0.00Hz | ○ |

| | | | | |
|-------|---|---|---------|---|
| | frequency F2 | | | |
| 02-06 | Multi point VF intermediate voltage V2 | 0.0% ~ V3 | 0.0% | ○ |
| 02-07 | Multi point VF minimum frequency F1 | 0.00Hz ~ F2 | 0.00Hz | ○ |
| 02-08 | Multiple points VF minimum voltage V1 | 0.0% ~ V2 | 0.0% | ○ |
| 02-09 | VF slip compensation gain | 0.0 ~ 200.0% | 100.0% | ○ |
| 02-10 | VF Low frequency oscillation suppression coefficient | 0~100 | 10 | ○ |
| 02-11 | VF High frequency oscillation suppression coefficient | 0 ~ 100 | 10 | ○ |
| 02-12 | VF oscillation suppression frequency switching | 0.00Hz~ maximum frequency | 30.00Hz | ○ |
| 02-13 | Automatic voltage regulation function AVR | 0: Cancel AVR 1: Full AVR 2: Keep | 1 | ○ |
| 02-14 | Automatic power saving operation | 0: No function 1. Turn on automatic power saving operation | 0 | ○ |
| 02-15 | VF constant power weak magnetic constant | 1.00~1.30 | 1.00 | ○ |
| 02-16 | VF separated voltage source | 0: Digital Settings (02-17) 1: AI1 | 0 | ○ |

| Function code | Product name | Description | Factory value | Attribute |
|--|---|---|---------------|-----------|
| | | 2: AI2 3: AI3 4: HDI 5: Multi-speed 6: PID 7: RS-485 communication 8: Keyboard analog potentiometer | | |
| 02-17 | VF Separation voltage digital setting | 0.0~100.0% | 0.0% | ○ |
| 02-18 | VF separates voltage acceleration time | 0.0 ~ 3600.0s | 0.0s | ○ |
| 02-19 | VF separates voltage deceleration time | 0.0 ~ 3600.0s | 0.0s | ○ |
| 02-20 | VF separates the upper voltage limit | (02-21)~100.0% | 100.0% | ● |
| 02-21 | VF is the lower limit of separation voltage | 0.0~ (02-20) | 0.0% | ● |
| 03 Group motor vector control parameters | | | | |
| 03-00 | ASR proportional gain P1 | 0.0~200.0 | 20.0 | ○ |
| 03-01 | ASR integration time I1 | 0.000 ~ 10.000s | 0.200s | ○ |
| 03-02 | ASR ratio gain P2 | 0.0~200.0 | 20.0 | ○ |
| 03-03 | ASR integration time I2 | 0.000 ~ 10.000s | 0.200s | ○ |
| 03-04 | ASR switching frequency 1 | 0.00Hz~ (03-22) | 5.00Hz | ○ |
| 03-05 | ASR switching frequency 2 | (03-21) ~ maximum frequency | 10.00Hz | ○ |
| 03-06 | ASR low-pass filter constant | 0~10 | 0 | ○ |
| 03-07 | Electric slip compensation gain | 50~200% | 100% | ○ |

| | | | | |
|---|--|--|--------|---|
| 03-08 | Brake slip compensation gain | 50~200% | 100% | ○ |
| 03-09 | ACR, current loop KP | 0~65535 | 1000 | ○ |
| 03-10 | ACR, current loop KI | 0~65535 | 1000 | ○ |
| 03-11 | Vector 2 constant power weak magnetic constant | 0.1~2.0 | 0.3 | ○ |
| 03-12 | Constant power minimum weak magnetic level | 10%~100% | 20% | ○ |
| 03-13 | Weak magnetic proportional gain | 0~8000 | 1000 | ○ |
| 03-14 | Upper limit of vector output voltage | 0.0~120.0% | 100.0% | ○ |
| 03-15 | Motor pre-excitation time | 0.000~10.000s | 0.300s | ○ |
| 04 Torque control parameters of the group | | | | |
| 04-00 | Selection of torque setting source | 0: Speed control (invalid torque) 1: Torque digital setting (04-01) 2: The torque is set by AI1 3: The torque is set by AI2 4: The torque is set by AI3 5: The torque is set by HDI 6: Torque is set at multiple speeds 7: Torque RS-485 communication settings 8: Keyboard simulation potentiometer setting | | ○ |
| 04-01 | Torque time setting | -300.0~300.0% | 50.0% | ○ |
| 04-02 | Torque filtering time | 0.000~10.000s | 0.010s | ○ |

| | | | | |
|-------|--|--|---------|---|
| 04-03 | Positive torque upper limit frequency source | 0: Torque upper limit frequency digital setting (04-05 and 04-06) 1: AI1 2: AI2 3: AI3 4: HDI 5: Multi-speed 6: RS-485 communication 7: Keyboard analog potentiometer | 0 | o |
| 04-04 | Reverse torque upper limit frequency source | ditto | 0 | o |
| 04-05 | Positive torque upper limit frequency Digital Settings | 0.00Hz ~ maximum frequency | 50.00Hz | o |
| 04-06 | Reverse torque upper limit rate, digital setting | 0.00Hz ~ maximum frequency | 50.00Hz | o |
| 04-07 | Selection of methods for limiting electric torque | 0: Numerical setting of torque upper limit value (04-09 and 04-10) 1: AI1 2: AI2 3: AI3 4: HDI 5: RS-485 communication 6: Keyboard analog potentiometer | | o |
| 04-08 | Selection of Braking Torque Limitation Method | ditto | | o |

| Function code | Product name | Description | Factory value | Attribute |
|--------------------------------------|---|---|---------------|-----------|
| 04-09 | Electric torque limit digital setting | 0.0~300.0% | 180.0% | ○ |
| 04-10 | Brake torque limit is set digitally | 0.0~300.0% | 180.0% | ○ |
| 04-11 | Vector low frequency torque compensation | 0.0~100.0% | 0.0% | ○ |
| 04-12 | Vector high frequency torque compensation | 0.0~100.0% | 0.0% | ○ |
| 05 Start and stop control parameters | | | | |
| 05-00 | starting mode | 0: Directly start 1: DC brake first before starting 2: Speed tracking start | 0 | ● |
| 05-01 | Start frequency | 0.00~50.00Hz | 0.50Hz | ● |
| 05-02 | Start frequency holding time | 00.0~50.0s | 0.0s | ● |
| 05-03 | Start the DC braking current | 0.0~100.0% | 0.0% | ● |
| 05-4 | Start the DC braking time | 0.00~50.00s | 0.00s | ● |
| 05-05 | Acceleration and deceleration mode | 0: linear acceleration and deceleration 1: S curve acceleration and deceleration | 0 | ● |
| 05-06 | The acceleration time of the beginning of the S curve | 0.0~50.0s | 0.1s | ○ |
| 05-07 | Deceleration time at the end of the S-curve | 0.0~50.0s | 0.1s | ○ |
| 05-08 | Shutdown mode | 0: Slow down and stop the machine 1: Free shutdown | 0 | ○ |

| | | | | |
|-------|---|-------------------------|--------|---|
| 05-09 | Starting frequency of shutdown DC braking | 0.00~ maximum frequency | 0.00Hz | ○ |
| 05-10 | Shutdown DC braking waiting time | 0.00~50.00s | 0.00s | ○ |
| 05-11 | Shutdown DC braking waiting time | 0.0~100.0% | 0.0% | ○ |
| 05-12 | Shutdown DC brake current | 0.00~50.00s | 0.00s | ○ |
| 05-16 | Dead time of forward and reverse rotation | 0.0~3600.0s | 0.00s | ○ |

| | | | | |
|-------|------------------------------------|---|-------------------------|---|
| 05-17 | Forward and reverse switching mode | 0: Zero frequency switching 1: Start frequency switching 2: Stop speed switching | 0 | ● |
| 05-18 | Stop the speed | 0.00~100.00Hz | 0.50Hz | ● |
| 05-19 | Stop speed detection method | 0: Detection according to the speed setting value 1: Detection according to the speed feedback value | 1 | ● |
| 05-20 | Feedback speed detection time | 0.00~100.00s | 0.05s | ● |
| 05-21 | Start delay | 0.0~60.0s | 0.0s | ○ |
| 05-22 | Stop speed delay | 0.0~100.0s | 0.0s | ○ |
| 05-23 | The braking unit acts | 0: Disabled 1: Enabled | 1 | ○ |
| 05-24 | Action voltage of the braking unit | 200.0~2000.0V (220V machine: 380V,380V machine: 700V) | The model is determined | ○ |
| 05-25 | Excitation braking intensity | 0~150 0: Disabled Greater than 0: the greater the value, the better the braking effect | 0 | ○ |

06 Group input terminal parameters

| | | | | |
|-------|-------------------|---|---|---|
| 06-00 | HDI input pattern | 0: High-speed pulse input 1: Terminal switch input | 1 | ● |
|-------|-------------------|---|---|---|

| FC | Product name | Description | Factory value | Attribute |
|-------|--------------------------------|--|---------------|-----------|
| 06-01 | X1 terminal function selection | 0: No functionality 1: Forward running (FWD) 2: Reverse Run (REV) 3: Three line operation control 4: Forward Rotation Inching (FJOG) 5: Reverse Inching (RJOG) 6: Free parking 7: Fault reset 8: Operation paused 9: External fault input 10: Frequency setting increment (UP) 11: Reduce frequency setting (downward) 12: The frequency increase/decrease setting has been cleared | 1 | • |
| 06-02 | X2 terminal function selection | 13: Switch between setting A and setting B 14: Switching between combination setting and A setting 15: Switching between combination setting and B setting 16: Multi speed terminal 1 17: Multi speed terminal 2 18: Multi speed terminal 3 19: Multi speed terminal 4 20: Multi speed pause 21: Acceleration and deceleration time selection 1 22: Acceleration and deceleration time selection 2 23: Simple PLC shutdown and reset 24: Simple PLC pause 25: PID control pause 26: Pause the swing | 2 | • |

| | | | | |
|--|--|---|--|--|
| | | frequency (stop at the current frequency) 27: Frequency Reset (Return to Center Frequency) 28: Counter reset 29: Torque/speed control switch 30: Do not accelerate or decelerate 31: Counter triggered | | |
|--|--|---|--|--|

| | | | | |
|--------------|---------------------------------|---|--------|---|
| 06-03 | X3 terminal function selection | 32: Length reset 33: Frequency increase/decrease setting temporarily cleared 34: DC braking 35: Keep (switch motor 1 to motor 2) 36: Command to switch to keyboard command 37: Command to switch to terminal 38: Command to switch to communication command | 4 | • |
| 06-04 | X4 terminal function selection | 39: Pre excitation command 40: Zero electricity consumption | 5 | • |
| 06-09 | HDI terminal function selection | 41: Electricity consumption remains unchanged | 16 | • |
| 06-10 | Input terminal logic selection | Bit0~3: X1~X4, Bit8: HDI 0 is positive logic, 1 is negative logic; | 000 | ○ |
| 06-11 | Input terminal filtering time | 0.000~1.000s | 0.010s | ○ |
| 06-12 | Virtual terminal Settings | 0x000~0x1FF 0: disable, 1: use Bit0~bit3: X1~X4 Bit8: HDI | 0x000 | • |

| | | | | |
|-------|---|--|--------|---|
| 06-13 | Terminal command mode | 0: two-line 1 1: Two-line type 2 2: Three-line style 1 3: Three-line style 2 | 0 | • |
| 06-14 | X1 terminal opening delay | 0.00~50.000s | 0.000s | ○ |
| 06-15 | X1 terminal disconnection delay | 0.00~50.000s | 0.000s | ○ |
| 06-16 | X2 terminal opening delay | 0.00~50.000s | 0.000s | ○ |
| 06-17 | X2 terminal disconnection delay | 0.00~50.000s | 0.000s | ○ |
| 06-18 | X3 terminal opening delay | 0.00~50.000s | 0.000s | ○ |
| 06-19 | X3 terminal disconnection delay | 0.00~50.000s | 0.000s | ○ |
| 06-20 | X4 terminal opening delay | 0.00~50.000s | 0.000s | ○ |
| 06-21 | X4 terminal disconnection delay | 0.00~50.000s | 0.000s | ○ |
| 06-30 | HDI terminal opening delay | 0.00~50.000s | 0.000s | ○ |
| 06-31 | HDI terminal disconnection delay | 0.00~50.000s | 0.000s | ○ |
| 06-33 | When power is applied, the terminal starts to protect the selection | 0: Protect 1: No protection | 0 | ○ |
| 06-34 | UP/DOWN terminal control setting | Unit: UP/DOWN terminal enabled 0: Effective 1: Invalid 10: Select frequency source control 0: Only the digital settings of frequency sources A and B are valid 1: All frequency | 000 | ○ |

| | | | | |
|-------|---|---|----------|---|
| | | sources are valid 2: When multi speed priority is enabled, multi speed is invalid Hundred positions: Shutdown selection 0: Set as valid 1: Effective work, dismantled after shutdown 2: Effective operation, clear shutdown command | | |
| 06-35 | UP terminal frequency change rate | 0.01~50.00Hz/s | 0.50Hz/s | ○ |
| 06-36 | DOWN terminal frequency change rate | 0.01~50.00Hz/s | 0.50Hz/s | ○ |
| 06-18 | X3 terminal opening delay | 0.00~50.000s | 0.000s | ○ |
| 06-19 | X3 terminal disconnection delay | 0.00~50.000s | 0.000s | ○ |
| 06-20 | X4 terminal opening delay | 0.00~50.000s | 0.000s | ○ |
| 06-21 | X4 terminal disconnection delay | 0.00~50.000s | 0.000s | ○ |
| 06-30 | HDI terminal opening delay | 0.00~50.000s | 0.000s | ○ |
| 06-31 | HDI terminal disconnection delay | 0.00~50.000s | 0.000s | ○ |
| 06-33 | Protection selection is started at the terminal when power is applied | 0: Protect 1: No protection | 0 | ○ |
| 06-34 | UP/DOWN terminal control setting | Unit: UP/DOWN terminal enable 0: valid 1: Invalid Ten: Frequency source control is selected 0: Only the digital setting of frequency sources A and B is valid 1: All frequency sources are valid 2: When multi-speed | 000 | ○ |

| | | | | |
|-------|---|--|-----------|---|
| | | priority is enabled, multi-speed is invalid Hundreds: Shutdownoptions 0: Set effective 1: It works effectively and is removed after shutdown 2: The operation is effective and the shutdown instruction is cleared | | |
| 06-35 | UP terminal frequency change rate | 0.01~50.00Hz/s | 0.50Hz/s | ○ |
| 06-36 | Down terminal frequency change rate | 0.01~50.00Hz/s | 0.50Hz/s | ○ |
| 06-37 | HDI input lower limit | 0.000kHz~ (06-35) | 0.000kHz | ○ |
| 06-38 | Set the lower limit of HDI | -100.0%~100.0% | 0.0% | ○ |
| 06-39 | HDI input upper limit | (06-33)~50.000kHz | 50.000kHz | ○ |
| 06-40 | The upper limit of HDI corresponds to the setting | -100.0%~100.0% | 100.0% | ○ |
| 06-41 | HDI filter time | 0.000s~10.000s | 0.100s | ○ |
| 06-42 | AI1, lower limit value | 0.00V~ (06-44) | 0.00V | ○ |
| 06-43 | AI1 lower limit corresponding setting | -100.0%~100.0% | 0.0% | ○ |
| 06-44 | AI1, upper limit | (06-42)~10.00V | 10.00V | ○ |
| 06-45 | AI1 upper limit corresponds to the setting | -100.0%~100.0% | 100.0% | ○ |
| 06-46 | AI1 input filter time | 0.000s~10.000s | 0.100s | ○ |
| 06-47 | AI2, lower limit value | 0.00V~ (06-39) | 0.00V | ○ |
| 06-48 | AI2 lower limit corresponding setting | -100.0~100.0% | 0.0% | ○ |

| Fault code | Product name | Description | Factory value | Attribute |
|-------------------------------------|--|---|---------------|-----------|
| 06-49 | AI2, upper limit | (06-47)~10.00V | 10.00V | ○ |
| 06-50 | AI2 upper limit corresponding setting | -100.0~100.0% | 100.0% | ○ |
| 06-51 | AI2 input filter time | 0.000s~10.000s | 0.100s | ○ |
| 06-52 | AI3, lower limit value | -10.00V~ (06-54) | 0.00V | ○ |
| 06-53 | AI3 lower limit corresponds to the setting | -100.0~100.0% | 0.0% | ○ |
| 06-56 | AI3, upper limit | (06-54)~10.00V | 10.00V | ○ |
| 06-57 | AI3 upper limit corresponding setting | -100.0~100.0% | 100.0% | ○ |
| 06-58 | AI3 Input filter time | 0.000s~10.000s | 0.100s | ○ |
| 06-59 | AI input type selection IV | Unit: AI1 Ten: AI2 0: AI terminal voltage input, 1: AI terminal current input | 10 | ○ |
| 07 Group output terminal parameters | | | | |
| 07-00 | HDO terminal output mode | 0: High-speed pulse output 1: Terminal switch output | 1 | ● |
| 07-01 | Select terminal output function Y1 | 0: Invalid 1: Running 2: Running forward | 0 | ○ |
| 07-02 | HDO terminal output function selection | 3: Reverse operation 4: Moving point operation 5: Inverter fault 6: Frequency level detection FDT1 7: Frequency level detection FDT2 8: Frequency arrival 9: zero speed operation 10: The upper frequency is reached | 0 | ○ |

| | | | | |
|-------|------------------------------------|--|---|---|
| 07-03 | K1 relay output function selection | 11: The lower frequency has been reached | 1 | ○ |
| 07-04 | K2 relay output function selection | 12: Operation is ready 13: Pre-excitation 14: Overload alarm 15: Underload alarm 16: The simple PLC phase is completed 17: Simple PLC cycle is completed 18: Set the value of the count 19: The specified value has been reached 20: External fault 22: The running time has arrived 23: Communication virtual terminal output | 5 | ○ |

| Fault code | Product name | Description | Factory value | Attribute |
|------------|---|---|---------------|-----------|
| 07-05 | AO1 Output function selection | 0: Operating frequency 1: Set the frequency 2: The slope is given frequency 3: Running speed 4: Output current (2 times rated value of frequency converter) 5: Output current (two times the rated value of motor) 6: Output voltage 7: Output power 8: Set the torque 9: Output torque 10: Simulate the input value of AI1 11: Simulate the input value of AI2 12: Simulate the input value of AI3 | 4 | ○ |
| 07-07 | HDO pulse output function selection | 13: High-speed pulse HDI input value 14: Communication set value output 15: Retain 22: Torque current (3 times the rated value of motor) | 0 | ○ |
| 07-08 | AO1 Output lower limit | -100.0%~ (07-10) | 0.0% | |
| 07-09 | AO1 Output lower limit corresponds to value | 0.00~10.00V | 0.00V | ○ |
| 07-10 | AO1 Output upper limit | (07-08)~100.0% | 100.0% | ○ |
| 07-11 | AO1 output upper limit corresponds to value | 0.00~10.00V | 10.00V | ○ |

| Fault code | Product name | Description | Factory value | Attribute |
|--------------------------------------|--|--|---------------|-----------|
| 07-12 | AO1 Output filter time | 0.000s~10.000s | 0.000s | ○ |
| 07-18 | HDO bottoming | -100.0%~ (07-20) | 0.0% | ○ |
| 07-19 | Value corresponding to the lower limit of HDO output | 0.00~50.00kHz | 0.00kHz | ○ |
| 07-20 | HDO output upper limit | (07-18)~100.0% | 100.0% | ○ |
| 07-21 | The HDO output upper limit corresponds to the value | 0.00~50.00kHz | 50.00kHz | ○ |
| 07-22 | HDO output filter time | 0.000s~10.000s | 0.000s | ○ |
| 07-23 | Y1 activation delay | 0.00~50.000s | 0.000s | ○ |
| 07-24 | Y1 is disconnected for a delay | 0.00~50.000s | 0.000s | ○ |
| 07-25 | HDO activation delay | 0.00~50.000s | 0.000s | ○ |
| 07-26 | HDO disconnection delay | 0.00~50.000s | 0.000s | ○ |
| 07-27 | K1 activation delay | 0.00~50.000s | 0.000s | ○ |
| 07-28 | K1 disconnection delay | 0.00~50.000s | 0.000s | ○ |
| 07-29 | K2 opening delay | 0.00~50.000s | 0.000s | ○ |
| 07-30 | K2 disconnection delay | 0.00~50.000s | 0.000s | ○ |
| 07-31 | Output terminal polarity selection | 0~F (Bit0~3: Y1, HDO, K1, K2) | 0 | ○ |
| 08 Group keyboard display parameters | | | | |
| 08-00User password | | | | |
| 08-01 | MFK/JOG key function selection | 0: No function 1: Jog the operation 2: Shift key (SHIFT) 3: Forward/reverse switch 4: Clear UP/DOWN Settings 5: Free parking 6: The command source is switched in sequence (08-02) | 1 | ● |

| Fault code | Product name | Description | Factory value | Attribute |
|------------|--|---|---------------|-----------|
| 08-02 | MFK key run command source is switched | 0: keyboard control → terminal control → communication control 1: Keyboard control ⇔ terminal control 2: Keyboard control ⇔ Communication control 3: Terminal control ↔ Communication control | 0 | ○ |
| 08-03 | Stop/reset key function | 0: Only the panel control is valid 1: The control of the opposite panel and terminal is valid at the same time 2: The opposite panel and communication control are valid at the same time 3: Effective for all control modes | 0 | ○ |
| 08-04 | Restore factory parameters | 0: No operation 1. Restore the default value | 0 | ● |

| Fault code | Product name | Description | Factory value | Attribute |
|------------|---|---|---------------|-----------|
| 08-05 | Keyboard digital control setting | <p>2: Clear the fault record 3: The keyboard is locked</p> <p>0000~1223 Unit: Frequency enable selection 0: Both the AND/NOT key and the encoder are valid 1: Only the ^/√ keys are valid 2: Only the encoder 3: The AND/OR key and encoder are invalid Ten: Frequency control selection 0: Only the keyboard number setting is valid 1: All frequency modes are valid 2: Multi-speed priority is invalid for multi-speed 100: Action selection when the machine is stopped. 0: Set effective 1: Effective during operation and removed after shutdown 2: Effective during operation and cleared after receiving the shutdown command Thousand: AND/OR key and encoder integration function 0: The points function is valid 1: The points function is invalid</p> | 0000 | ○ |
| 08-06 | Keyboard encoder and UP/DOWN key resolution, adjustment selection | 1~4 | 2 | ○ |

| Fault code | Product name | Description | Factory value | Attribute |
|------------|--|---|---------------|-----------|
| 08-07 | Frequency setting power off action selection | 00~11 Unit: Action selection when the encoder adjustment frequency drops out of power Ten: Communication setting frequency power failure Time action selection 0: store when power failure occurs 1: reset when power failure occurs | 00 | ○ |
| 08-08 | Function code parameter copy | 0: No operation 1: Function parameters are uploaded to the keyboard 2: Download the keyboard function parameters to this machine (including motor parameters) 3: Keyboard function parameters are downloaded to the local machine (excluding motor parameters) 4: Download the keyboard function parameters to this machine (only motor parameters) | 0 | ● |

| | | | | |
|-------|--|---|------|---|
| 08-09 | LED operating status display parameter 1 | 0000~FFFF BIT0: Operating frequency (Hz on) BIT1: Setting frequency (Hz off) BIT2: bus voltage (V) BIT3: output voltage (V) BIT4: output current (A) BIT5: running speed (rpm) BIT6: Output power (%) BIT7: Output torque (%) BIT8: PID set value (%) BIT9: PID feedback value (%) brightness BIT10: input terminal status BIT11: output terminal status BIT12: torque setting value (%) bright BIT13: Pulse count value BIT15: PLC and multi-speed current segment number | 033F | ○ |
| 08-10 | LED operating status display parameter 2 | 0000~FFFF BIT0: Analog AI1 value (V on) BIT1: Analog AI2 value (V on) BIT2: Analog AI3 value (V bright) BIT3: HDI frequency of high-speed pulse BIT4: Motor overload percentage (%) BIT5: Percentage of inverter overload (%) BIT6: Ramp frequency set value (Hz bright) BIT7: linear velocity | 0000 | ○ |

| Fault code | Product name | Description | Factory value | Attribute |
|------------|----------------------------------|---|---------------|-----------|
| 08-11 | LED shutdown display parameters | BIT8: AC incoming line current BIT9: Upper frequency 0000~FFFF BIT0: Set the frequency (Hz for bright, slow flashing) BIT1: Bus voltage (V bright) BIT2: Input terminal status BIT3: Output terminal status BIT4: PID set value (%) flash BIT5: PID feedback value (%) brightness BIT6: Torque set value (%) bright) BIT7: Analog AI1 value (V bright) BIT8: Analog AI2 value (V bright) BIT9: Analog AI3 value (V bright) BIT10: HDI frequency of high-speed pulse BIT11: PLC and current number of multiple speed segments BIT12: Pulse count value BIT13: Length value BIT14: Upper frequency limit | 038B | ○ |
| 08-12 | software release | 0.00~655.35 | - | ※ |
| 08-13 | Rectifier temperature | 0~120.0℃ | - | ※ |
| 08-14 | Inverter temperature | 0~120.0℃ | - | ※ |
| 08-15 | Frequency display coefficient | 0.01~10.00 | 1.00 | ○ |
| 08-16 | Speed display coefficient | 0.1~999.9% | 97.3% | ○ |
| 08-17 | Linear speed display coefficient | 0.1~999.9% | 1.0% | ○ |

| | | | | |
|-------|---|---|---------------|-----------|
| 08-18 | Input power factor display coefficient | 0.00~1.00 | 0.56 | ○ |
| 08-19 | Cumulative running time | 0~65535h | - | ※ |
| 08-20 | Monitor high cumulative power consumption | Total power consumption = (08-20) *1000 + (08-21) | 0kWh | ※ |
| 08-21 | Monitor the cumulative power consumption at a low level | | 0.0kWh | ※ |
| 08-22 | Set high electricity consumption | The initial value of electricity consumption = (08- | 0kWh | ○ |
| FC | Product name | Description | Factory value | Attribute |
| | starter | 22)*1000+(08-23) | | |
| 08-23 | Set the initial value of electricity consumption at a low level | | 0.0kWh | ○ |
| 08-24 | Barcode1 | | | ※ |
| 08-25 | Barcode2 | | | ※ |
| 08-26 | Barcode3 | | | ※ |
| 08-27 | Barcode4 | | | ※ |
| 08-28 | Barcode5 | | | ※ |
| 08-29 | Barcode6 | | | ※ |
| 08-30 | Motor power display correction factor | 0.00~3.00 | 1.00 | ○ |

09 Group fault record parameters

| | | | | | | |
|-------|-----------------------------------|------------|---------------------------|-----------------------|-------------------------|---|
| 09-00 | Current fault code | Fault code | Product name of the fault | Product name of fault | | ※ |
| 09-01 | Previous previous fault code | | | | | ※ |
| 09-02 | Previous two previous fault codes | 0 | trouble-free | 29 | - | ※ |
| 09-03 | Fault codes before the third time | | | | | ※ |
| 09-04 | The first four fault codes | 1 | Inverter unit protection | 30 | Overload causes failure | ※ |
| 09-05 | Top five fault codes | 2 | Acceleration | 31 | PID | ※ |

| | | | | | | |
|-------|---|----|------------------------------|--|--|---|
| 09-06 | Current fault operation frequency | | e the overcurrent | feedback line | | ※ |
| | | 3 | Slow down the overcurrent | 40 Fast limit, flow fault | | |
| 09-07 | The current fault slope gives the frequency | | | | | ※ |
| | | 4 | Constant speed overcurrent | 42 The speed is too fast and the difference is too large | | |
| 09-08 | Current fault output voltage | | | | | ※ |
| | | 5 | Accelerate overvoltage | 48 Electronic overload fault | | |
| 09-09 | Current fault output current | | | | | ※ |
| | | 6 | Slow down overvoltage | 51 Initial position, set out of balance | | |
| 09-10 | Current fault bus voltage | | | | | ※ |
| | | 7 | Constant speed overvoltage | 60 Brake tube protection | | |
| 09-11 | Current fault module temperature | | | | | ※ |
| | | 8 | — | | | |
| 09-12 | Current fault input end substate | | | | | ※ |
| | | 9 | Busbar under voltage | | | |
| 09-13 | Current fault output end substate | | | | | ※ |
| | | 10 | Frequency converter overload | | | |
| 09-14 | Frequency of previous failed operation | | | | | ※ |
| | | 11 | Motor overload | | | |
| | | 12 | Enter a missing phase | | | |
| | The previous | | | | | |
| | | 13 | Output is out of phase | | | |

| | | | | | | | |
|--|---------------------------------------|----|-------------------|--|--|--|--|
| | fault slope is given by the frequency | 14 | IGBT superheat at | | | | |
|--|---------------------------------------|----|-------------------|--|--|--|--|

33

| Fault code | Product name | Description | | Factory value | Attribute |
|------------|---|-------------|----------------------------|---------------|-----------|
| 09-16 | Output voltage of the previous fault | 15 | External fault | | ※ |
| | | 16 | Communication failure | | |
| 09-17 | Output current of the previous fault | 17 | | | ※ |
| | | 18 | Current detection fault | | |
| 09-18 | Voltage of the previous faulty busbar | 19 | Motor tuning fault | | ※ |
| 09-19 | Previous fault module temperature | 20 | - | | ※ |
| 09-20 | The previous fault input terminal status | 21 | EEPROM failure | | ※ |
| 09-21 | The previous fault output terminal status | 23 | Ground short circuit fault | | ※ |
| 09-22 | Frequency of previous two faulty operations | 26 | Runtime Arrive | | ※ |
| 09-23 | The previous two fault slopes are given at a constant frequency | | | | ※ |
| 09-24 | Output voltage of the first two faults | | | | ※ |
| 09-25 | Output current for the first two faults | | | | ※ |
| 09-26 | Voltage of the previous faulty busbar | | | | ※ |
| 09-27 | Temperature of the first two fault modules | | | | ※ |
| 09-28 | The status of the previous two fault input terminals | | | | ※ |

| | | | | |
|----------------------------------|---|--|---|---|
| 09-29 | Status of the output terminals for the first two faults | | | ※ |
| 10 sets of protection parameters | | | | |
| 10-00 | Motor overload protection selection | 0: No action 1: Ordinary motor 2: frequency conversion motor | 2 | ● |

| Fault code | Product name | Description | Factory value | Attribute |
|------------|--|--|-------------------------|-----------|
| 10-04 | Overcurrent protection selection | Unit: Overcurrent protection enabled 0 invalid, 1 valid Ten: Hardware current limiting protection enabled 0 is valid, 1 is invalid 100: Overcurrent fault of inverter unit and selection to remove the lockout 0: can be released 1: It can be released after 60 seconds of blocking 2: Keep blocking and reset power on | 101 | ● |
| 10-05 | Protect against loss of flow rate | 50.0~200.0% | The model is determined | ● |
| 10-06 | The rate of loss of flow decreases | 0.00~50.00Hz (value per second change) | 10.00Hz | ● |
| 10-07 | Input and output phase fault protection | Unit: Enable phase loss protection input Ten: output phase missing protection enabled 0 invalid, 1 valid | 11 | ○ |
| 10-08 | Underload and overload protection action | Unit: Overload warning selection 0: Motor overload warning 1: Inverter under overload warning Ten: Select underload, overload and dynamic actions 0: The frequency converter has an underload warning and continues to run 1: Inverter underload warning, overload and shutdown 2: The frequency converter has overload warning and continues to run, and stops after underload 3: The inverter stops after underload 100: Overload protection is possible 0: Valid for the whole journey 1: Effective at constant speed | 000 | ○ |

| Fault code | Product name | Description | Factory value | Attribute |
|------------|---|---|-------------------------|-----------|
| 10-09 | Overload detection threshold | (10-11)~200% | The model is determined | ○ |
| 10-10 | Overload detection time | 0.1~3600.0s | 1.0s | ○ |
| 10-11 | Underload detection threshold | 0~(10-09) | 50% | ○ |
| 10-12 | Time of underload detection | 0.1~3600.0s | 1.0s | ○ |
| 10-13 | Number of automatic reset failures | 0~10 | 0 | ○ |
| 10-14 | The fault is automatically reset between | 0.1~3600.0s | 1.0s | ○ |
| FC | Product name | Description | Factory value | Attribute |
| 10-15 | partition Overvoltage point setting | 0~2500.0V | The model is determined | ○ |
| 10-16 | Under-voltage point setting | 0~2000.0V | The model is determined | ○ |
| 10-17 | Special function selection | Unit: voltage instability automatic frequency reduction Ten: Frequency reaches the second acceleration and deceleration time 0: invalid, 1: valid | 00 | ○ |
| 10-18 | Output terminal fault action selection | Unit: Under-voltage fault action Ten: Action during automatic reset 0: valid, 1: invalid | 00 | ○ |
| 10-19 | Instantaneous power failure and operation options | 0: Do not continue to run 1: Keep running | 0 | ○ |
| 10-20 | Instantaneous power failure and waiting time | 0.0~3600.0s | 1.0s | ○ |
| 10-21 | Instantaneous power failure reduces frequency | 0: invalid, 1: valid | 0 | ○ |
| 10-22 | Instantaneous power drop frequency constant | 0.00Hz~ maximum frequency (second change value) | 10.00Hz | ○ |
| 10-23 | Speed deviation detection value | 0.0~50.0% | 10.0% | ○ |
| 10-24 | Time of detection of speed deviation | 0.0~10.0s | 0.5s | ○ |

| 11 Group Auxiliary function parameters | | | | |
|--|--|---|-------------------------|---|
| 11-00 | Point-to-point operation frequency | 0.00Hz~ maximum frequency | 5.00Hz | ○ |
| 11-01 | Point motion acceleration time | 0.0~3600.0s | The model is determined | ○ |
| 11-02 | Jogging deceleration time | 0.0~3600.0s | The model is determined | ○ |
| 11-03 | Acceleration time 2 | 0.0~3600.0s | The model is determined | ○ |
| 11-04 | Deceleration time 2 | 0.0~3600.0s | The model is determined | ○ |
| 11-05 | Acceleration time 3 | 0.0~3600.0s | The model is determined | ○ |
| 11-06 | Deceleration time 3 | 0.0~3600.0s | The model is determined | ○ |
| 11-07 | Acceleration time 4 | 0.0~3600.0s | The model is determined | |
| 11-08 | Deceleration time 4 | 0.0~3600.0s | The model is determined | |
| 11-09 | Operating frequency is lower Lower frequency operation mode | 0: The following frequencies are limited 1: Shutdown 2: Hibernation | 0 | ○ |
| 11-10 | Sleep recovery delay | 0.0~3600.0s | 0.0s | ○ |
| 11-11 | The frequency of sagging | 0.00~10.00Hz | 0.00Hz | ○ |
| 11-12 | Fan cooling control | 0: Follow the frequency converter | 0 | ○ |

| Fault code | Product name | Description | Factory value | Attribute |
|------------|--|---|---------------|-----------|
| | | 1: Always running | | |
| 11-19 | Set the count value | (11-20)~65535 | 0 | ○ |
| 11-20 | Specify the count value | 0~(11-19) | 0 | ○ |
| 11-21 | Set the running time on a regular basis | 0~65535min | 0min | ○ |
| 11-22 | Jump frequency 1 | 0.00~ maximum frequency | 0.00Hz | ○ |
| 11-23 | The amplitude of the jump frequency is 1 | 0.00~ maximum frequency | 0.00Hz | ○ |
| 11-24 | Jump frequency 2 | 0.00~ maximum frequency | 0.00Hz | ○ |
| 11-25 | The amplitude of the jump frequency is 2 | 0.00~ maximum frequency | 0.00Hz | ○ |
| 11-26 | Jump frequency 3 | 0.00~ maximum frequency | 0.00Hz | ○ |
| 11-27 | The amplitude of the jump frequency is 3 | 0.00~ maximum frequency | 0.00Hz | ○ |
| 11-28 | Frequency swing amplitude | 0.0~100.0% (relative to the set frequency) | 0.0% | ○ |
| 11-29 | The amplitude of the jump frequency | 0.0~50.0% (swing frequency amplitude) | 0.0% | ○ |
| 11-30 | Frequency rise time | 0.1~3600.0s | 5.0s | ○ |
| 11-31 | Frequency drop time | 0.1~3600.0s | 5.0s | ○ |
| 11-32 | FDT1, frequency check value | 0.00~ P00.03 | 50.00Hz | ○ |
| 11-33 | FDT1 Frequency detection lag value | 0.0~100.0% | 5.0% | ○ |
| 11-34 | FDT2, frequency check value | 0.00~ maximum frequency | 50.00Hz | ○ |
| 11-35 | FDT2 Frequency detection lag value | 0.0~100.0% | 5.0% | ○ |
| 11-36 | Frequency reaches detection value | 0.0~ maximum frequency | 0.00Hz | ○ |
| 11-37 | Overmodulation selection | Unit: Overmodulation enabled 0: invalid, 1: valid Ten: Overmodulation intensity selection 0: mild, 1: deep | 01 | ○ |

| | | | | |
|-----------------------------------|-----------------------------------|--|--------|---|
| 11-38 | PWM mode selection | Unit: PWM mode selection 0: two-phase and three-phase modulation 1: Three-phase modulation Ten: Low speed carrier frequency limit selection 0: 2kHz limit 1: 4kHz limit 2: No restrictions | 00 | ○ |
| 12 sets of process PID parameters | | | | |
| 12-00 | PID, given source | 0: The number is given 1: AI1 2: AI2 3: AI3 | 0 | ○ |
| | | | | |
| | | 4: HDI 5: Multi-speed 6: RS-485 communication 7: Keyboard analog potentiometer | | |
| 12-01 | PID is given as a number | -100.0 ~ 100.0% | 0.0% | ○ |
| 12-02 | PID, feedback source | 0: AI1 1: AI2 2: AI3 3: HDI 4: RS-485 communication 5: Keyboard analog potentiometer | 0 | ○ |
| 12-03 | PID application direction | 0: positive effect 1: Reaction | 0 | ○ |
| 12-04 | Proportional gain KP1 | 0.00 ~ 100.00 | 1.00 | ○ |
| 12-05 | Integrate time T11 | 0.01 ~ 10.00s | 0.10s | ○ |
| 12-06 | Differentiation time TD1 | 0.00s ~ 10.00s | 0.00s | ○ |
| 12-07 | PID sampling period T1 | 0.000~10.000s | 0.100s | ○ |
| 12-08 | PID parameter switching deviation | 0.0 ~ 100.0% | 0.0% | ○ |
| 12-09 | PID output upper limit | (12-10) ~ 100.0% | 100.0% | ○ |

| Fault code | Product name | Description | Factory value | Attribute |
|------------|--|------------------------------|---------------|-----------|
| 12-10 | PID bottoming | -100.0% ~ (12-09) | 0.0% | ○ |
| 12-11 | PID command acceleration and deceleration time | 0.0~1000.0s | 0.0s | ○ |
| 12-12 | PID output filter time | 0.000~10.000s | 0.000s | ○ |
| 12-13 | Low frequency proportional gain | 0.00~100.00 | 1.00 | ○ |
| 12-14 | PID feedback loss detection value | 0.0% (not detected) ~ 100.0% | 0.0% | ○ |
| 12-15 | PID feedback loss detection time | 0.0s (not detected) ~3600.0s | 1.0s | ○ |

the unit :

0: Continue integral regulation when the frequency reaches the upper and lower limits
 1: Frequency reaches the upper and lower limits and stops
 Ten-digit adjustment of credits:
 0: in the same direction as the set direction 1: in the opposite direction to the set direction Hundred:
 0: Refer to the maximum frequency limit. 1: Refer to the frequency source A limit

12-16 PID regulating function

0001

○

| Fault code | Product name | Description | Factory value | Attribute |
|--|--|---|---------------|-----------|
| | | kilobit : 0: A+B, the frequency source A is added and decelerated. The time is invalid 1: A+B, the frequency source A is determined by addition and subtraction, and the speed time 4 | | |
| 13 sets of multi-speed and simple PLC parameters | | | | |
| 13-00 | Multi-speed 0 frequency setting value | -100.0%~100.0% | 0.0% | ○ |
| 13-01 | Multiple speed 1 frequency setting value | -100.0%~100.0% | 0.0% | ○ |
| 13-02 | Multi-speed 2 frequency setting value | -100.0%~100.0% | 0.0% | ○ |
| 13-03 | Multi-speed 3 frequency setting value | -100.0%~100.0% | 0.0% | ○ |
| 13-04 | Multi-speed 4 frequency setting value | -100.0%~100.0% | 0.0% | ○ |
| 13-05 | Multi-speed 5 frequency setting value | -100.0%~100.0% | 0.0% | ○ |
| 13-06 | Multi-speed with 6 frequency settings | -100.0%~100.0% | 0.0% | ○ |
| 13-07 | Multi-speed with 7 frequency settings | -100.0%~100.0% | 0.0% | ○ |
| 13-08 | Multi-speed 8 frequency setting value | -100.0%~100.0% | 0.0% | ○ |
| 13-09 | Multi-speed 9 frequency setting value | -100.0%~100.0% | 0.0% | ○ |
| 13-10 | Multi-speed 10 frequency setting value | -100.0%~100.0% | 0.0% | ○ |
| 13-11 | Multi-speed 11 frequency setting value | -100.0%~100.0% | 0.0% | ○ |

| Fault code | Product name | Description | Factory value | Attribute |
|------------|--|---------------------|---------------|-----------|
| 13-12 | Multi-speed 12 frequency setting value | -100.0%~100.0% | 0.0% | ○ |
| 13-13 | Multi-speed 13 frequency setting value | -100.0%~100.0% | 0.0% | ○ |
| 13-14 | Multi-speed 14 frequency setting value | -100.0%~100.0% | 0.0% | ○ |
| 13-15 | Multi-speed 15 frequency setting value | -100.0%~100.0% | 0.0% | ○ |
| FC | Product name | Description | Factory value | Attribute |
| 13-16 | PLC run time for the 0th section | 0.0 ~ 6553.5 s(min) | 0.0s(min) | ○ |
| 13-17 | PLC section 1 running time | 0.0 ~ 6553.5 s(min) | 0.0s(min) | ○ |
| 13-18 | PLC second stage running time | 0.0 ~ 6553.5 s(min) | 0.0s(min) | ○ |
| 13-19 | PLC third stage running time | 0.0 ~ 6553.5 s(min) | 0.0s(min) | ○ |
| 13-20 | PLC operates for the fourth period | 0.0 ~ 6553.5 s(min) | 0.0s(min) | ○ |
| 13-21 | PLC operates for 5 seconds | 0.0 ~ 6553.5 s(min) | 0.0s(min) | ○ |
| 13-22 | PLC section 6 running time | 0.0 ~ 6553.5 s(min) | 0.0s(min) | ○ |
| 13-23 | PLC section 7 running time | 0.0 ~ 6553.5 s(min) | 0.0s(min) | ○ |
| 13-24 | PLC section 8 running time | 0.0 ~ 6553.5 s(min) | 0.0s(min) | ○ |
| 13-25 | PLC section 9 running time | 0.0 ~ 6553.5 s(min) | 0.0s(min) | ○ |
| 13-26 | PLC is running for 10 minutes | 0.0 ~ 6553.5 s(min) | 0.0s(min) | ○ |
| 13-27 | PLC is running for 11 minutes | 0.0 ~ 6553.5 s(min) | 0.0s(min) | ○ |
| 13-28 | PLC is running for 12 minutes | 0.0 ~ 6553.5 s(min) | 0.0s(min) | ○ |
| 13-29 | PLC is running for 13 minutes | 0.0 ~ 6553.5 s(min) | 0.0s(min) | ○ |
| 13-30 | PLC is running for 14 minutes | 0.0 ~ 6553.5 s(min) | 0.0s(min) | ○ |

| Fault code | Product name | Description | Factory value | Attribute |
|------------|--|--|---------------|-----------|
| 13-31 | PLC is running for 15 minutes | 0.0 ~ 6553.5 s(min) | 0.0s(min) | o |
| 13-32 | PLC 0~7, add/subtract segments, speed and time | <p>Value range: 0x0000~0xFFFF</p> <p>0 segment: Bit0-1: two bits are selected to select acceleration and deceleration time 1,2,3,4</p> <p>1 stage: Bit2-3: two bits are selected to select acceleration and deceleration time 1,2,3,4</p> <p>2 stages: Bit4-5: two bits are selected to select acceleration and deceleration time 1,2,3,4</p> <p>3 stages: Bit6-7: two bits are selected to select acceleration and deceleration time 1,2,3,4</p> <p>4 stages: Bit8-9: two bits select acceleration and deceleration time 1,2,3,4</p> <p>5 stages: Bit11-10: Two bits are selected to select the acceleration and deceleration time 1,2,3,4</p> <p>6 stages: Bit12-13: Two bits are selected to select the acceleration and deceleration time 1,2,3,4</p> <p>Stage 7: Bit14-15: Two bits are selected to select the acceleration and deceleration time 1,2,3,4</p> | 0000 | o |

| Fault code | Product name | Description | Factory value | Attribute |
|------------|---|---|---------------|-----------|
| 13-33 | PLC add speed reduction time from 8 to 15 | Value range: 0x0000~0xFFFF 8 stages: Bit0-1: two bits are selected to select acceleration and deceleration time 1,2,3,4 9 stages: Bit2-3: two bits are selected to select acceleration and deceleration time 1,2,3,4 10 segments: Bit4-5: two bits are selected to select acceleration and deceleration time 1,2,3,4 11. Step: Bit6-7: Two bits are selected to select acceleration and deceleration time 1,2,3,4 12 stages: Bit8-9: two bits select acceleration and deceleration time 1,2,3,4 13 stages: Bit11-10: Two bits are selected to select the acceleration and deceleration time 1,2,3,4 14 stages: Bit12-13: Two bits are selected to select the acceleration and deceleration time 1,2,3,4 15 stages: Bit14-15: Two bit values select the acceleration and deceleration time 1,2,3,4 | 0000 | ○ |
| 13-34 | PLC running time unit | 0: seconds (s) 1: minute (min) | 0 | ● |
| 13-35 | PLC run mode | 0: Stop after a single run 1: The final value of the closing speed is maintained during a single run 2: It runs in a loop | 0 | ● |
| 13-36 | PLC power failure memory selection | 0: Power failure does not remember 1: Power off memory | 0 | ○ |

| | | | | |
|---|---|---|------|---|
| 13-37 | PLC shutdown memory start selection | 0: Restart from the first paragraph 1: Continue to operate at the stage frequency from the shutdown moment 0: 13-00 given 1: AI1 2: AI2 3: AI3 4: HDI 5: PID 6: Keyboard analog potentiometer 7: Reserve | 0 | ○ |
| 13-38 | Multiple speed 0 frequency given source | | 0 | ○ |
| 14 groups of SCI communication parameters | | | | |
| 14-00 | Local communication address | 0 Broadcast address, 1~247 | 1 | ○ |
| 14-01 | Communication baud rate | 0: 1200BPS 1: 2400BPS 2: 4800BPS 3: 9600BPS 4: 19200BPS 5: 38400BPS 6: 57600BPS 0: No check (N, 8,1) for RTU 1: Even parity (E, 8, 1) for RTU 2: Odd parity (O, 8, 1) for RTU 3: No verification (N, 8,2) for RTU 4: Even parity (E, 8,2) for RTU 5: Odd parity (O, 8, 2) for RTU | 3 | ○ |
| 14-02 | MODBUS data format | | 3 | ○ |
| 14-03 | MODBUS communication response delay | 0~200ms | 5 | ○ |
| 14-04 | Serial port communication timeout | 0.0: Invalid, 0.1~60.0s | 0.0s | ○ |

| Fault code | Product name | Description | Factory value | Attribute |
|------------|---|---|---------------|-----------|
| 14-05 | Communication error action selection | 0: Alarm and free shutdown 1: Do not alarm and continue to run 2: Stop by pressing the stop button without alarm (only communication control mode) 3: Stop by pressing the stop button without alarm (all control modes) | 0 | ○ |
| 14-06 | Communication processing action selection | LED the unit : 0: Write operation has a response 1: Write operation has no response | 0 | ○ |
| 14-07 | Communication protocol selection | 0: Compatible with 380 protocol (including 00 group and 30 group partial menu) 1) Compatible with GD protocol (only communication control) | 0 | ○ |

| Fault code | Product name | Description | Factory value | Attribute |
|----------------------------------|--|--------------------------|---------------|-----------|
| 30 sets of monitoring parameters | | | | |
| 30-00 running frequency | running frequency | 0.01Hz | 0x7000 | 28672 |
| 30-01 | Set the frequency | 0.01Hz | 0x7001 | 28673 |
| 30-02 | busbar voltage | 0.1V | 0x7002 | 28674 |
| 30-03 | output voltage | 1V | 0x7003 | 28675 |
| 30-04 | output | 0.1A | 0x7004 | 28676 |
| 30-05 | power of motor (%) | 0.1% | 0x7005 | 28677 |
| 30-06 | output torque (%) | 0.1% | 0x7006 | 28678 |
| 30-07 | Input terminal status | See group 30 for details | 0x7007 | 28679 |
| 30-08 | Output terminal status | See group 30 for details | 0x7008 | 28680 |
| 30-09 | AI1 input voltage | 0.01V | 0x7009 | 28681 |
| 30-10 | AI2 input voltage | 0.01V | 0x700A | 28682 |
| 30-11 | AI3 input voltage | 0.01V | 0x700B | 28683 |
| 30-12 | count value | 1 | 0x700C | 28684 |
| 30-13 | Length value | 1 | 0x700D | 28685 |
| 30-14 | motor speed | 1rpm | 0x700E | 28686 |
| 30-15 | PID, set point | 0.1% | 0x700F | 28687 |
| 30-16 | PID, feedback value | 0.1% | 0x7010 | 28688 |
| 30-17 | PLC and multi-speed current front section number | 1 | 0x7011 | 28689 |
| 30-18 | HDI incoming frequency | 0.01kHz | 0x7012 | 28690 |
| 30-19 | continue to have | | 0x7013 | 28691 |
| 30-20 | Frequency converter model | 1 | 0x7014 | 28692 |
| 30-21 | Rated power of the inverter | 0.1KW | 0x7015 | 28693 |
| 30-22 | Rated voltage of inverter | 1V | 0x7016 | 28694 |
| 30-23 | Rated current of inverter | 0.1A | 0x7017 | 28695 |
| 30-24 | linear velocity | 1m/Min | 0x7018 | 28696 |
| 30-25 | This is the running time | 1Min | 0x7019 | 28697 |

| | | | | |
|-------|--------------------------------|--------|--------|-------|
| 30-26 | The slope is given frequency | 0.01Hz | 0x701A | 28698 |
| 30-27 | The torque is given in units | 0.1% | 0x701B | 28699 |
| 30-28 | output torque | 0.1Nm | 0x701C | 28700 |
| 30-29 | Digital adjustment | 0.01Hz | 0x701D | 28701 |
| 30-30 | torque current | 0.1A | 0x701E | 28702 |
| 30-31 | exciting current | 0.1A | 0x701F | 28703 |
| 30-32 | Motor power factor | 0.01 | 0x7020 | 28704 |
| 30-33 | Estimate the motor frequency | 0.01Hz | 0x7021 | 28705 |
| 30-34 | Transfer incoming line current | 0.1A | 0x7022 | 28706 |
| 30-35 | Motor overload count value | 1 | 0x7023 | 28707 |

Chapter seven Fault diagnosis

7.1 Fault Description

The CY1800 inverter features dozens of warning messages and protection functions. When a fault occurs, the protection function activates, causing the inverter to immediately stop output. The fault relay contacts will also activate, and the inverter panel will display the fault code "Err" followed by the fault code number. Before seeking service, users can first follow the instructions in this section to perform a self-check and analyze the cause of the fault. If the issue cannot be resolved, please contact your product agent or our company.

7.2 Fault information

| Fault code | Product name of fault | Cause of failure troubleshooting | Fault handling countermeasures |
|--------------|---------------------------|--|--|
| Err01 (Out) | Inverter unit protection | Short circuit of the inverter output circuit 2. The wiring of the motor and frequency converter is too long 3. Module overheating 4. Loose internal wiring of the frequency converter 5. Abnormal main control board | 1. Excluding peripheral faults 2. Install reactor or output filter 3. Check the air duct and fan and eliminate existing problems 4. Plug in all the connecting wires 5. Seek technical support 6. Seek technical support 7. Seek technical support 8. Check the motor wire or motor to ensure that it is normal |
| Err02 (OC1) | Accelerate | | |
| Err03 (OC2) | Slow down the overcurrent | 1. There is a ground or short circuit in the output circuit of the frequency converter 2. The control mode is vector and no parameter identification is carried out 3. The deceleration time is too short 4. Low voltage 5. Load is suddenly added | 1. Excluding peripheral faults 2. Identify motor parameters 3. Increase the deceleration time 4. Adjust the voltage to the normal range 5. Cancel sudden load increase 6. Install brake unit and |

during deceleration
6. No brake unit and brake resistor are installed

resistor

| | | | |
|-------------|----------------------------|---|--|
| Err04 (OC3) | Constant speed overcurrent | <ol style="list-style-type: none"> 1. There is a ground or short circuit in the output circuit of the frequency converter 2. The control mode is vector and no parameter identification is carried out 3. Low voltage 4. Whether there is sudden load increase during operation 5. The frequency converter is selected too small | <ol style="list-style-type: none"> 1. Excluding peripheral faults 2. Identify motor parameters 3. Adjust the voltage to the normal range 4. Cancel sudden load increase 5, choose a higher power level of frequency converter |
| Err05 (Ov1) | Accelerate overvoltage | <ol style="list-style-type: none"> 1. The input voltage is too high 2. There is an external force dragging the motor during acceleration 3. The acceleration time is too short 4. No brake unit and brake resistor are installed | <ol style="list-style-type: none"> 1. Adjust the voltage to the normal range 2. Cancel the additional power or install brake resistor 3. Increase the acceleration time 4. Install brake unit and resistor |
| Err06 (Ov2) | Slow down overvoltage | <ol style="list-style-type: none"> 1. The input voltage is too high 2. There is an external force dragging the motor during the deceleration process 3. The deceleration time is too short 4. No brake unit and brake resistor are installed | <ol style="list-style-type: none"> 1. Adjust the voltage to the normal range 2. Cancel the additional power or install brake resistor 3. Increase the deceleration time 4. Install brake unit and resistor |
| Err07 (Ov3) | Constant speed overvoltage | <ol style="list-style-type: none"> 1. The input voltage is too high 2. There is external force dragging the motor during operation | <ol style="list-style-type: none"> 1. Adjust the voltage to the normal range 2. Cancel the additional power or install brake resistor |

| Fault code | Product name of the fault | Cause of failure troubleshooting | Fault handling countermeasures |
|-------------|------------------------------|---|---|
| Err09 (Uv) | Busbar under voltage | <ol style="list-style-type: none"> 1. Instantaneous power failure 2. The input voltage of the frequency converter is not within the range required by the specification 3. Abnormal bus voltage 4. The rectifier bridge and buffer resistor are abnormal 5. Abnormal driver board 6. Abnormal control board | <ol style="list-style-type: none"> 1. Reset fault 2. Adjust the voltage to the normal range 3. Seek technical support 4. Seek technical support 5. Seek technical support 6. Seek technical support |
| Err10 (oL2) | Frequency converter overload | <ol style="list-style-type: none"> 1. Whether the load is too large or the motor is blocked 2. The frequency converter is selected too small | <ol style="list-style-type: none"> 1. Reduce the load and check the motor and machinery 2. Select a frequency converter with a higher power level |
| Err11 (oL1) | Motor overload | <ol style="list-style-type: none"> 1. Whether the motor protection parameter setting is appropriate 2. Whether the load is too large or the motor is blocked 3. The motor is too small | <ol style="list-style-type: none"> 1. Set this parameter correctly 2. Reduce the load and check the motor and machinery 3. Select a motor with a higher power rating |
| Err12 (SPI) | Enter a missing phase | <ol style="list-style-type: none"> 1. The three-phase input power supply is abnormal 2. Abnormal driver board 3. Abnormal lightning protection plate 4. Abnormal main control board | <ol style="list-style-type: none"> 1. Check and eliminate problems in peripheral lines 2. Seek technical support 3. Seek technical support 4. Seek technical support |
| Err13 (Spo) | Output is out of phase | <ol style="list-style-type: none"> 1. The lead from the frequency converter to the motor is abnormal 2. The three-phase output of the frequency converter is unbalanced when the motor is running 3. Abnormal driver board 4. Module exception | <ol style="list-style-type: none"> 1. Excluding peripheral faults 2. Check whether the motor winding is normal and troubleshoot 3. Seek technical support 4. Seek technical support |
| Err14 (oH2) | IGBT superheat | <ol style="list-style-type: none"> 1. The ambient temperature is too high 2. Air duct blockage 3. Fan damage 4. The module thermistor is damaged 5. Inverter module is damaged | <ol style="list-style-type: none"> 1. Reduce the ambient temperature 2. Clean the air duct 3. Replace the fan 4. Replace the thermistor 5. Replace the inverter module |

| Fault code | Product name of the fault | Cause of failure troubleshooting | Fault handling countermeasures |
|-------------|--|--|--|
| Err15 (EF) | External fault | The Xi terminal inputs external fault signals | Check external wiring and clear faulty operation |
| Err16 (CE) | 485 Communication failure | 1. The upper computer does not work properly 2. The communication line is not normal 3. The communication parameter group is not set correctly | 1. Check the wiring of the upper computer 2. Check the communication connection line 3. Set communication parameters correctly |
| Err18 (ItE) | Current detection fault | 1. Check for abnormalities in the Hall device 2. Abnormal driver board 3. Abnormal main control board | 1. Replace the Hall device 2. Replace the driver board 3. Seek technical support |
| Err19 (tE) | Motor tuning fault | 1. Motor parameters are not set according to the Product nameplate 2. The parameter identification process is timeout | 1. Set the motor parameters correctly according to the Product nameplate 2. Check the frequency converter to the motor lead |
| Err21 (EEP) | EEPROM read/write failure | 1. EEPROM is operated too frequently 2. EEPROM chip damage | 1. The upper computer operates the EEPROM reasonably 2. Replace the main control board |
| Err23 (ETH) | Ground short circuit fault | The motor is short circuit to the ground Motor wiring UVW grounding is damaged. Inverter module is damaged | Replace the motor Replace the motor wire or troubleshoot short circuit fault Replace the module or drive board |
| Err26 (End) | Cumulative running time has been reached | The cumulative running time reaches the set value | Reset the running time |
| Err30 (LL) | Underload fault | 1. The running current of the frequency converter is less than the set parameter | 1. Confirm whether the load is off 2. Whether the parameter setting is in line with the actual operating conditions |

| Fault code | Product name of the fault | Cause of failure troubleshooting | Fault handling countermeasures |
|--------------|-------------------------------------|--|---|
| Err31 (PIde) | PID feedback is disconnected | <ol style="list-style-type: none"> 1. PID feedback signal is disconnected 2. The PID feedback loss detection value is not set reasonably | <ol style="list-style-type: none"> 1. Check the PID feedback signal 2. Check that the PID feedback loss setting is reasonable |
| Err40 (oL4) | Fast current limiting fault | <ol style="list-style-type: none"> 1. Whether the load is too large or the motor is blocked 2. The frequency converter is selected too small | <ol style="list-style-type: none"> 1. Reduce the load and check the motor and machinery 2. Select a frequency converter with a higher power level |
| Err42 (dEU) | The speed deviation is too large | <ol style="list-style-type: none"> 1. Parameter identification is not performed 2. The speed deviation is too large and the detection parameter setting is unreasonable 3. Overload or blockage | <ol style="list-style-type: none"> 1. Identify motor parameters 2. The detection parameters of speed deviation are reasonably re-set 3. Check the load to ensure that the load is normal |
| Err48 (oL3) | Electronic overload fault | The inverter reports an overload fault according to the set value of the electronic overload parameter | Test the load or adjust the electronic load value reasonably |
| Err51 (Sto) | Initial position misalignment fault | <ol style="list-style-type: none"> 1. The motor parameter setting is unreasonable 2. Parameter identification is not performed 3. The motor wire is not connected properly | <ol style="list-style-type: none"> 1. Set the motor parameters and identify the motor parameters 2. Identify motor parameters 3. Check the motor wiring to ensure normal operation |
| Err60 (bCE) | Brake pipe protection fault | The brake resistor is short circuit or the brake module is abnormal | Check the brake resistor or seek technical support |
| P-Lu | Power under-voltage | <p>The inverter is underpowered The internal switching power supply or bus of the inverter detects a fault</p> <p>The power segment or voltage segment of the motherboard does not match the current supply</p> | <p>Check the power supply of the frequency converter Check the internal power supply or bus circuit of the inverter</p> <p>Check if the rated voltage matches and seek support</p> |



Warranty Agreement

1. This product is covered by an 18-month warranty (based on the barcode information on the device). During this period, if the product malfunctions or is damaged under normal use as per the user manual, our company will provide free repair services.
 2. Non-Covered Damages (Charges Apply) :
 - Damage caused by misuse, unauthorized repairs, or modifications.
 - Damage due to fire, flooding, abnormal voltage, lightning strikes, or other natural disasters and secondary damages.
 - Damage from dropping, impacts, or improper handling (including during transportation).
 - Damage resulting from incorrect operation, improper wiring, or failure to follow the user manual.
 - Damage caused by excessive dust, oil contamination, moisture, or harsh environmental conditions.
 3. If a malfunction occurs, please accurately and completely fill out the warranty card.
 4. Any applicable repair fees will be based on the latest repair price list issued by our company.
 5. This warranty card will not be reissued under normal circumstances. Please keep it safe and intact.
 6. For any issues during service, please contact your distributor or our company directly.
-

Product warranty card

| | | | | |
|---------------------------|---|--|------------------|--|
| customer information | Product name of organization : | | | |
| | Office address: | | | |
| | contacts : | | telephone : | |
| | zip code : | | portraiture : | |
| on-product information | product model : | | | |
| | Body code: | | | |
| | agent : | | | |
| fault message | <div style="height: 200px; position: relative;"> <div style="position: absolute; top: 5px; left: 5px;">Maintenance information:</div> <div style="position: absolute; bottom: 5px; right: 5px;">Maintenance personnel:</div> </div> | | | |