



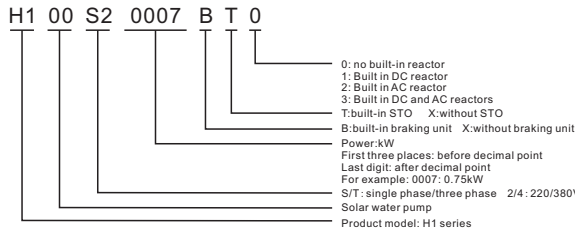
# H1 Series Inverter USER MANUAL

## NO.1 Product introduction

### 1. 1 Technical Features

|                     | Items                                  | Description                                                                                                                                                         |
|---------------------|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| input               | Rated voltage /frequency               | 3ph: 380V~440V , 50Hz/60Hz<br>1ph: 200V~240V , 50Hz/60Hz                                                                                                            |
|                     | Allowed voltage                        | 3ph: 320V~460V ; 1ph: 180V~260V;<br>voltage Imbalance rate: <3% ; frequency: ±5%                                                                                    |
| output              | Voltage                                | 0~rated input voltage                                                                                                                                               |
|                     | Frequency                              | 0Hz~1000Hz                                                                                                                                                          |
| control performance | Overload capacity                      | 150% rated current 60s, 180% rated current 2s                                                                                                                       |
|                     | Control mode                           | V/F、SVC                                                                                                                                                             |
|                     | Modulation Mode                        | SVPM                                                                                                                                                                |
|                     | Motor type                             | asynchronous motor, synchronour motor, single phase motor (consult factory before using)                                                                            |
|                     | Start torque                           | 1Hz/150%                                                                                                                                                            |
|                     | Speed range                            | 1:100(SVC)                                                                                                                                                          |
|                     | Frequency accuracy                     | digital setting: maximum frequency±0.01%;<br>analog setting: maximum frequency±1%;                                                                                  |
|                     | Frequency resolution                   | digital setting: 0.1Hz;<br>analog setting: maximum frequency±1%;                                                                                                    |
|                     | Acceleration/ deceleration curve       | line/ S-curve                                                                                                                                                       |
|                     | Rapid current limit                    | limit current rapidly within the current protection value, to ensure the safety of the equipment                                                                    |
|                     | None-stop when instantaneous power off | none-stop when instantaneous power off, automatic frequency drop                                                                                                    |
|                     | Command source                         | keypad, terminal, communication                                                                                                                                     |
| Operation function  | Set value source                       | digital, analog,multi-speed,communication                                                                                                                           |
|                     | PID                                    | support main setting+PID                                                                                                                                            |
| Operation panel     | LED display                            | Can display: output frequency,output voltage, output current , Bus voltage, display value 1 , display value 2, error, alarm                                         |
|                     | External keypad                        | YES                                                                                                                                                                 |
| Protection function |                                        | over-current protection, over-voltage protection, under-voltage protection, overheating protection, over-load protection, phase lose protection, earth leakage, etc |
|                     |                                        |                                                                                                                                                                     |
| Environment         | Store environment                      | indoor, away from direct sunlight, no dust, no corrosive gas, no inflammable gas, no oil mist, no vapour, no drip and no salinity, etc                              |
|                     | Altitude                               | derating use above 1000M, derating 10% per 1000M                                                                                                                    |
|                     | Environment temperature                | -10℃~+40℃(environment temperature around 40℃~50℃please derating use)                                                                                                |
|                     | Humidity                               | 5%~95%RH, no condensation                                                                                                                                           |
|                     | Store temperature                      | -40℃~+70℃                                                                                                                                                           |
|                     | Vibration                              | <5. 9M/ S (0.6g)                                                                                                                                                    |

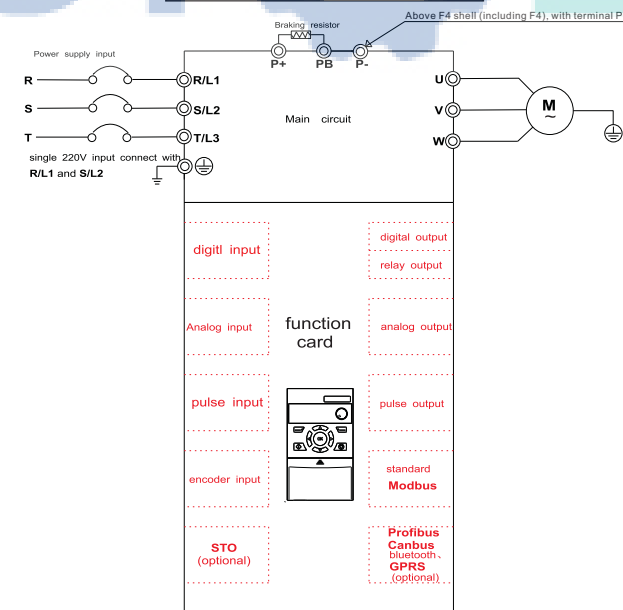
### 1.2 H1 nameplate



### 1.3 H1series specifications and models

| Base.No | Models        | Input voltage | input current (A) | Power (kW) | output current (A) | Adaptive motor(kW) |
|---------|---------------|---------------|-------------------|------------|--------------------|--------------------|
| F1      | H100S20007BX0 | 1 phase 220V  | 8.2               | 0.75       | 5.0                | 0.75               |
|         | H100S20015BX0 | 1 phase 220V  | 14.0              | 1.5        | 7.0                | 1.5                |
| F2      | H100T20022BX0 | 1 phase 220V  | 23.0              | 2.2        | 12.5               | 2.2                |
|         |               | 3 phase 220V  | 13.5              |            |                    |                    |
| F3      | H100T20037BX0 | 1 phase 220V  | 38.6              | 3.7        | 15.2               | 3.7                |
|         |               | 3 phase 220V  | 16.5              |            |                    |                    |
| F4      | H100T20075BX0 | 3 phase 220V  | 37                | 7.5        | 31                 | 7.5                |
|         | H100T20110BX0 | 3 phase 220V  | 52                | 11         | 45                 | 11                 |
| F1      | H100T40007BX0 | 3 phase 380V  | 4.0               | 0.75       | 3.0                | 0.75               |
|         | H100T40015BX0 | 3 phase 380V  | 5.8               | 1.5        | 4.5                | 1.5                |
| F2      | H100T40022BX0 | 3 phase 380V  | 6.5               | 2.2        | 5.6                | 2.2                |
|         |               | 3 phase 380V  | 12.6              | 4.0        | 10.5               | 4.0                |
| F3      | H100T40055BX0 | 3 phase 380V  | 16                | 5.5        | 14                 | 5.5                |
|         |               | 3 phase 380V  | 21                | 7.5        | 19                 | 7.5                |
| F4      | H100T40110BX0 | 3 phase 380V  | 28                | 11         | 26                 | 11                 |
|         |               | 3 phase 380V  | 36                | 15         | 33                 | 15                 |
| F5      | H100T40185BX0 | 3 phase 380V  | 42                | 18.5       | 40                 | 18.5               |
|         |               | 3 phase 380V  | 48                | 22         | 46                 | 22                 |
| F6      | H100T40220BX0 | 3 phase 380V  | 62                | 30         | 58                 | 30                 |
|         |               | 3 phase 380V  | 76                | 37         | 75                 | 37                 |
| F7      | H100T40450XX0 | 3 phase 380V  | 92                | 45         | 90                 | 45                 |
|         |               | 3 phase 380V  | 113               | 55         | 110                | 55                 |
| F8      | H100T40750XX0 | 3 phase 380V  | 157               | 75         | 150                | 75                 |
|         |               | 3 phase 380V  | 180               | 90         | 170                | 90                 |
| F9      | H100T41100XX0 | 3 phase 380V  | 214               | 110        | 210                | 110                |
|         |               | 3 phase 380V  | 256               | 132        | 250                | 132                |
|         | H100T41600XX0 | 3 phase 380V  | 307               | 160        | 300                | 160                |

### NO.2 Main circuit and function card



Notice: different function card corresponding to different terminals. Except standard function card, can customize any type of card.  
Reset parameters when using different function cards. **An AC drive only can use one function card.**

**Warning: Do not use function card when power is on!**

### 2. 1 Main circuit terminal description

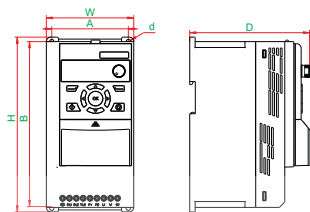
| Terminal identification | Name                              | Function description                                                                            |
|-------------------------|-----------------------------------|-------------------------------------------------------------------------------------------------|
|                         | Grounding terminal                | Safety grounding                                                                                |
| R/L1、S/L2、T/L3          | Main circuit power input terminal | Connect three phase power supply, single phase power supply connect to R/L1, S/L2               |
| P+、PB                   | Braking terminal                  | Connect to external braking resistor                                                            |
| P+、P-                   | DC bus terminal                   | Two sets or more inverters use a common DC bus (Above F4 shell (including F4), with terminal P) |
| U、V、W                   | output terminl                    | Connect to three phase motor                                                                    |

### 2.2 Founction card configuration table

| Function card        | H0100        | H0101        | H0102        | H0103        | H0104        | H0110        | H0120        | H0130        | H0131        | H0200        | H0201        | H0300 | H0310        | H0320        | H0350        |
|----------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------|--------------|--------------|--------------|
| Physical description |              |              |              |              |              |              |              |              |              |              |              |       |              |              |              |
| Digital input        | 2            | 4            | 1            | 4            | 2            | 5            | 10           | 5            | 1            | 10           | 10           |       | 4            | 5            | 3            |
| Digital output       |              |              |              |              |              |              | 1            |              |              |              |              |       |              |              |              |
| Relay output         | 1            | 1            |              | 3            | 1            | 2            | 2            | 2            | 1            | 3            | 3            |       | 1            | 1            | 1            |
| Analog input         | 1            | 1            |              | 1            | 1            | 1            | 1            | 1            |              | 2            | 2            |       | 2            | 1            |              |
| Analog output        |              |              |              |              |              | 2            | 1            | 2            |              | 2            | 2            |       | 2            | 2            |              |
| Pulse input          |              |              |              |              |              |              |              |              |              |              |              |       |              |              |              |
| Pulse output         |              |              |              |              |              |              |              |              |              |              |              |       |              |              |              |
| Encoder input        |              |              |              |              |              |              |              |              |              |              |              |       |              |              |              |
| Modbus               | 1            | 1            | 1            | 1            | 1            | 1            | optional     | 1            | 1            |              |              |       | 1            | 1            | 1            |
| STO                  |              |              |              |              |              |              |              |              |              | 1            |              |       |              |              |              |
| Display              | Digital tube | Digital tube | Digital tube | Digital tube | Digital tube | Digital tube | Digital tube | Digital tube | Digital tube | Digital tube | Digital tube |       | Digital tube | Digital tube | Digital tube |
| Potentiometer        | Analog       | Analog       |              | Analog       | Analog       | Analog       | Analog       | Analog       |              |              |              |       | Analog       | Analog       |              |
| Toggle switch        |              |              |              |              |              |              |              |              |              |              |              |       | 1            | 2            | 2            |
| 12V power supply     |              | 1            |              | 1            | 1            | 1            | 1            | 1            |              | 1            | 1            |       | 1            |              |              |
| 10V power supply     |              |              |              | 1            |              | 1            | 1            | 1            | 1            | 1            | 1            |       | 1            |              |              |

Note:  
1. the built-in function card with STO function must be equipped with AC drive of STO circuit, for example: H0200 built-in function card is equipped with AC drive with model H100T400408T0  
(the second T represents built-in STO circuit).  
2. If need other types and numbers of terminals, contact the company for bulk customization

### NO.3 Product Dimension



| H1 series<br>Dimensions (mm) |          |           |          |      |     |    |
|------------------------------|----------|-----------|----------|------|-----|----|
| Framework                    | W(Width) | H(Height) | D(Depth) | A    | B   | d  |
| F1                           | 85       | 170       | 124      | 67.3 | 158 | 5  |
| F2                           | 97       | 194       | 133      | 85   | 184 | 5  |
| F3                           | 126      | 237       | 147      | 112  | 223 | 6  |
| F4                           | 168      | 298       | 160      | 154  | 283 | 6  |
| F5                           | 198      | 355       | 177      | 183  | 338 | 6  |
| F6                           | 250      | 400       | 208      | 230  | 380 | 7  |
| F7                           | 280      | 545       | 292      | 200  | 526 | 9  |
| F8                           | 380      | 648       | 299      | 300  | 626 | 11 |
| F9                           | 450      | 798       | 318      | 340  | 773 | 11 |

### NO.4 Keypad description

#### 4. 1 Keypad appearance and keypad explanation

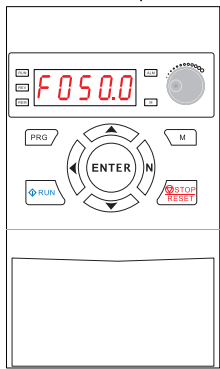


Figure 4~1 H1 series keypad

#### 4. 2 Indicator light description

| Indicator light | Status               | Function description                               |
|-----------------|----------------------|----------------------------------------------------|
| RUN             | light on/ flickering | operating /decelerating                            |
| REV             | light on             | reverse operation                                  |
| REM             | light on             | remote start stop                                  |
| ALM             | light on             | fault indication                                   |
| M               | light on             | customization indication, default alarm indication |

#### 4. 3 Display item description

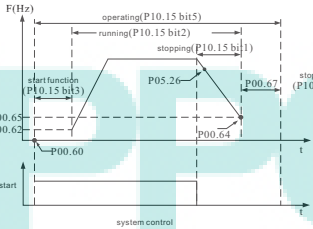
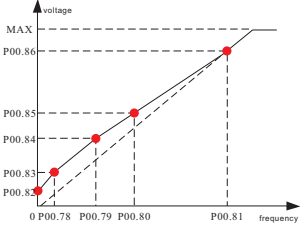
| Display code | Item description        |
|--------------|-------------------------|
| F            | output frequency        |
| C            | output current          |
| U            | output voltage          |
| d            | DC bus voltage          |
| H            | display value 1(P10 98) |
| t            | display value 2(P10 99) |
| A            | current alarm           |
| E            | current fault           |

### NO.5 Function · Parameter Table

| Function number | Function                           | Description (setting range)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Factory default |
|-----------------|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| P00.09          | Parameter operation                | 1.parameter initialization, initialize parameters except P01.XX, in normal condition, use mode 1 in itialization;<br>2. initialize all parameters                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0               |
| P00.10          | Setting(frequency) reference F1    | 0:keypad → P01.63<br>1:multi-speed<br>2:A11<br>3:A12<br>5:communication                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0               |
| P00.11          | Setting(frequency) reference F2    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0               |
| P00.12          | setting relation selection         | 0:F1<br>1:F2<br>2:F1+F2<br>3:F1-F2<br>4:F1*F2/100<br>5:maximum value(F1,F2)<br>6:minimum vluie(F1,F2)<br>7:average value(F1,F2)<br>8:PID(F1,F2)<br>* principle interpretation :<br>set 0 choose F1 channel setting value;<br>set 1 choose F2 channel setting value;<br>set 2 choose the sum of F1 and F2 channel setting value;<br>set 3 choose the difference of F1 and F2 channel setting value;<br>set 4 choose the product of F1 and F2 channel setting value divide 100;<br>set 5 choose larger value of F1 and F2;<br>set 6 choose smaller value of F1 and F2;<br>set 7 choose average value of F1 and F2;<br>set 8 choose PID control(F1 is setting, F2 is feedback). | 0               |
| P00.13          | maximum setting value              | 0.000~99999.000<br>* principle interpretation :<br>limit setting value range.The unit of setting source is %, the maximum setting value(P00.13) stands for 100%, take maximum setting value as standard.                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 50.000          |
| P00.14          | motor output frequency upper limit | ~1020.000Hz~1020.000Hz<br>interpretation: motor operation frequency upper limit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 55.000Hz        |
| P00.15          | multi-speed source                 | 0~11111111<br>units: S1<br>tens: S2<br>hundreds' digit: S3<br>thousands' digit: S4<br>...<br>* P00.15: multi-speed source, select to corresponding external terminal, multi-speed refer to P00.16-P00.23.<br>* eg: select S2, S3, S4 as valid external terminal to control multi-speed<br>set P00.15~1110, detailed 8 segment corresponding relationship as above table                                                                                                                                                                                                                                                                                                      | 0               |
| P00.16          | multi-speed 0                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0.000%          |
| P00.17          | multi-speed 1                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0.000%          |
| P00.18          | multi-speed 2                      | ~ 1000.000%~1000.000%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.000%          |
| P00.19          | multi-speed 3                      | function: multi-speed setting, corresponding to P00.13 maximum setting percentage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.000%          |
| P00.20          | multi-speed 4                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0.000%          |
| P00.21          | multi-speed 5                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0.000%          |
| P00.22          | multi-speed 6                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0.000%          |
| P00.23          | multi-speed 7                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0.000%          |
| P00.24          | acceleration time                  | 0.050s~3600.000s<br>* principle interpretation :<br>as figure, acceleration time refer to the time from 0Hz accelerate to P00.74 motor frequency                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                 |
| P00.25          | deceleration time                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | *S              |
| P00.26          | Jog frequency                      | ~ 1000.000%~1000.000%<br>function: set jog frequency, jog command refer to P00.33                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 10.000%         |
| P00.30          | start command source               | 0: invalid<br>1: keypad<br>2: communication<br>3: S1<br>4: S2<br>5: S3<br>6: S4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1               |
| P00.31          | reverse start command source       | ...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0               |
| P00.32          | reverse command source             | function: select command source(select keypad as command source, then reverse start command, reverse command, jog command, free stop command, safe stop command, pause command all from multi-function key of keypad)                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0               |
| P00.33          | Jog command source                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1               |
| P00.34          | stop command source                | * reverse start command: setting value reversed, and give a start command<br>* reverse command: setting value reversed.<br>* jog command: jog command. Priority is higher than start command, lower than stop command.                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0               |
| P00.35          | free stop command source           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0               |
| P00.36          | reset command source               | 16 15 14 13 12 11 10 9 8<br>S14 S13 S12 S11 S10 S9 S8 S7 S6<br>7 6 5 4 3 2 1 0<br>S5 S4 S3 S2 S1 communication keypad invalid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1               |

| Function code | Function             | Description(setting range)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Factory default   |          |                   |     |          |                             |     |          |                             |    |         |                                           |    |         |                                           |               |               |                                         |        |       |                                         |        |           |                                             |        |            |                                       |          |                      |                           |    |    |                   |     |     |      |     |    |      |    |     |         |    |    |         |               |               |             |        |   |                            |        |   |                              |        |   |                           |        |   |                           |     |     |     |                   |   |   |   |      |   |   |   |         |   |   |   |         |               |               |             |        |   |                            |        |   |                                    |        |   |                           |        |   |                        |        |   |                           |        |   |                        |     |     |   |                   |   |   |   |      |   |   |     |         |   |   |    |         |               |               |             |        |   |                            |        |   |                              |        |   |                           |        |   |                                         |        |   |                                            |        |   |    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| P00.37        | S1 type              | <p>One place: 0: Positive logic<br/>1: Reverse logic<br/>2: Rising edge<br/>3: Falling edge<br/>Tens place: 1: Rising edge toggle<br/>2: Falling edge toggle<br/>Hundreds place: 1: The edge signal is not cleared by other edge signals<br/>Thousands place: 1: The edge signal is not cleared by the stop signal</p> <p>Function: select external terminal trigger type<br/>* Principle explanation:<br/>One place: 0: positive logic, High level is valid state, low level is invalid state;<br/>1: Reverse logic, High level is invalid state, low level is valid state;<br/>2: Rising edge, the rising edge is valid;<br/>3: Falling edge, falling edge is valid.<br/>Tens place: 1: Rising edge ping-pong key;<br/>2: Toggle on the falling edge<br/>The tens position can control the edge signal and realize a reset button to control start and stop.<br/>Hundreds place: 1: The edge signal is not cleared by other edge signals;<br/>Thousands place: 1: The edge signal is not cleared by the stop signal.</p> <p>*two-line mode 1:<br/>the mode is most commonly used two-line mode, enable and direction combined, K1 and K2 control forward/reverse of motor</p> <div><div><div>K1</div><div>K2</div><div></div><div>COM</div></div><div>S1(forward)<br/>S2(reverse)</div><table><tr><th>K1</th><th>K2</th><th>operation command</th></tr><tr><td>OFF</td><td>OFF</td><td>stop</td></tr><tr><td>OFF</td><td>ON</td><td>reverse</td></tr><tr><td>ON</td><td>OFF</td><td>forward</td></tr><tr><td>ON</td><td>ON</td><td>stop</td></tr></table><table><tr><th>parameter no.</th><th>setting value</th><th>description</th></tr><tr><td>P00.30</td><td>3</td><td>start command source is S1</td></tr><tr><td>P00.31</td><td>4</td><td>reverse start command source is S2</td></tr><tr><td>P00.37</td><td>0</td><td>S1 type is positive logic</td></tr><tr><td>P00.38</td><td>0</td><td>S2 type is negative logic</td></tr></table></div> <p>*two-line mode 2:<br/>enable and direction separated, in this mode K1 is enable terminal, direction is controlled by K2.</p> <div><div><div>K1</div><div>K2</div><div></div><div>COM</div></div><div>S1(operation)<br/>S2(forward/reverse)</div><table><tr><th>K1</th><th>K2</th><th>operation command</th></tr><tr><td>OFF</td><td>OFF</td><td>stop</td></tr><tr><td>OFF</td><td>ON</td><td>stop</td></tr><tr><td>ON</td><td>OFF</td><td>forward</td></tr><tr><td>ON</td><td>ON</td><td>reverse</td></tr></table><table><tr><th>parameter no.</th><th>setting value</th><th>description</th></tr><tr><td>P00.30</td><td>3</td><td>start command source is S1</td></tr><tr><td>P00.32</td><td>4</td><td>reverse command source is S2</td></tr><tr><td>P00.37</td><td>0</td><td>S1 type is positive logic</td></tr><tr><td>P00.38</td><td>0</td><td>S2 type is positive logic</td></tr></table></div> <p>* three line mode 1:<br/>this mode define SB2 as enable terminal, operation command is generated by SB1 or SB3, control operation direction at the same time.<br/>inverter is running and SB2 is in closed state, terminal SB1 or SB3 generates a rising edge signal to control inverter operation and direction; disconnection SB2 to stop inverter.</p> <div><div><div>SB1</div><div>SB2</div><div>SB3</div><div>COM</div></div><div>S1(forward)<br/>S2(enable)<br/>S3(reverse)</div><table><tr><th>SB1</th><th>SB2</th><th>SB3</th><th>operation command</th></tr><tr><td>—</td><td>0</td><td>—</td><td>stop</td></tr><tr><td>—</td><td>1</td><td>—</td><td>forward</td></tr><tr><td>—</td><td>1</td><td>—</td><td>reverse</td></tr></table><table><tr><th>parameter no.</th><th>setting value</th><th>description</th></tr><tr><td>P00.30</td><td>3</td><td>start command source is S1</td></tr><tr><td>P00.31</td><td>5</td><td>reverse start command source is S3</td></tr><tr><td>P00.34</td><td>4</td><td>stop command source is S2</td></tr><tr><td>P00.37</td><td>2</td><td>S1 type is rising edge</td></tr><tr><td>P00.38</td><td>1</td><td>S2 type is negative logic</td></tr><tr><td>P00.39</td><td>2</td><td>S3 type is rising edge</td></tr></table></div> <p>* three line mode 2:<br/>this mode define SB2 as enable terminal, operation command is generated by SB1, direction command is controlled by K. inverter is running and SB2 is in closed state, terminal SB1 generates a rising edge signal to control inverter operation, K control operation direction; disconnection SB2 to stop inverter.</p> <div><div><div>SB1</div><div>SB2</div><div>K</div><div>COM</div></div><div>S1(operation)<br/>S2(enable)<br/>S3(forward/reverse)</div><table><tr><th>SB1</th><th>SB2</th><th>K</th><th>operation command</th></tr><tr><td>—</td><td>0</td><td>—</td><td>stop</td></tr><tr><td>—</td><td>1</td><td>OFF</td><td>forward</td></tr><tr><td>—</td><td>1</td><td>ON</td><td>reverse</td></tr></table><table><tr><th>parameter no.</th><th>setting value</th><th>description</th></tr><tr><td>P00.30</td><td>3</td><td>start command source is S1</td></tr><tr><td>P00.32</td><td>5</td><td>reverse command source is S3</td></tr><tr><td>P00.34</td><td>4</td><td>stop command source is S2</td></tr><tr><td>P00.37</td><td>2</td><td>S1 terminal command type is rising edge</td></tr><tr><td>P00.38</td><td>1</td><td>S2 terminal command type is negative logic</td></tr><tr><td>P00.39</td><td>0</td><td>S3 terminal command type is positive logic</td></tr></table></div> | K1                | K2       | operation command | OFF | OFF      | stop                        | OFF | ON       | reverse                     | ON | OFF     | forward                                   | ON | ON      | stop                                      | parameter no. | setting value | description                             | P00.30 | 3     | start command source is S1              | P00.31 | 4         | reverse start command source is S2          | P00.37 | 0          | S1 type is positive logic             | P00.38   | 0                    | S2 type is negative logic | K1 | K2 | operation command | OFF | OFF | stop | OFF | ON | stop | ON | OFF | forward | ON | ON | reverse | parameter no. | setting value | description | P00.30 | 3 | start command source is S1 | P00.32 | 4 | reverse command source is S2 | P00.37 | 0 | S1 type is positive logic | P00.38 | 0 | S2 type is positive logic | SB1 | SB2 | SB3 | operation command | — | 0 | — | stop | — | 1 | — | forward | — | 1 | — | reverse | parameter no. | setting value | description | P00.30 | 3 | start command source is S1 | P00.31 | 5 | reverse start command source is S3 | P00.34 | 4 | stop command source is S2 | P00.37 | 2 | S1 type is rising edge | P00.38 | 1 | S2 type is negative logic | P00.39 | 2 | S3 type is rising edge | SB1 | SB2 | K | operation command | — | 0 | — | stop | — | 1 | OFF | forward | — | 1 | ON | reverse | parameter no. | setting value | description | P00.30 | 3 | start command source is S1 | P00.32 | 5 | reverse command source is S3 | P00.34 | 4 | stop command source is S2 | P00.37 | 2 | S1 terminal command type is rising edge | P00.38 | 1 | S2 terminal command type is negative logic | P00.39 | 0 | S3 terminal command type is positive logic | 0 |
| K1            | K2                   | operation command                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| OFF           | OFF                  | stop                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| OFF           | ON                   | reverse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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| ON            | OFF                  | forward                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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| ON            | ON                   | stop                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| parameter no. | setting value        | description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| P00.30        | 3                    | start command source is S1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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| P00.31        | 4                    | reverse start command source is S2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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| P00.37        | 0                    | S1 type is positive logic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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| P00.38        | 0                    | S2 type is negative logic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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| K1            | K2                   | operation command                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| P00.32        | 4                    | reverse command source is S2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| P00.37        | 0                    | S1 type is positive logic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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| P00.31        | 5                    | reverse start command source is S3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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| P00.34        | 4                    | stop command source is S2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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| P00.37        | 2                    | S1 type is rising edge                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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| P00.38        | 1                    | S2 type is negative logic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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| P00.39        | 2                    | S3 type is rising edge                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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| P00.30        | 3                    | start command source is S1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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| P00.32        | 5                    | reverse command source is S3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| P00.34        | 4                    | stop command source is S2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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| P00.37        | 2                    | S1 terminal command type is rising edge                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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| P00.38        | 1                    | S2 terminal command type is negative logic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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| P00.39        | 0                    | S3 terminal command type is positive logic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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| P00.40        | Y1 terminal source   | <p>0:always 0 1:always 1 2:stopped 3:running<br/>4:fault 5:alarm 6:reversing 64:STO status<br/>100~9999:high level parameter</p> <p>* principal interpretation:<br/>terminal source setting value ≥100 (address mode), the address is selected parameter no., actual value is decided by current value of selected parameter no., terminal source function description as below:</p> <table><tr><th>setting value</th><th>function</th><th>description</th></tr><tr><td>0</td><td>always 0</td><td>Y1 terminal output always 0</td></tr><tr><td>1</td><td>always 1</td><td>Y1 terminal output always 1</td></tr><tr><td>2</td><td>stopped</td><td>in stopped status Y1 terminal output is 1</td></tr><tr><td>3</td><td>running</td><td>in running status Y1 terminal output is 1</td></tr><tr><td>4</td><td>fault</td><td>in fault status Y1 terminal output is 1</td></tr><tr><td>5</td><td>alarm</td><td>in alarm status Y1 terminal output is 1</td></tr><tr><td>6</td><td>reversing</td><td>in reversing status Y1 terminal output is 1</td></tr><tr><td>64</td><td>STO status</td><td>in STO status Y1 terminal output is 1</td></tr><tr><td>100~9999</td><td>high level parameter</td><td></td></tr></table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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| 64            | STO status           | in STO status Y1 terminal output is 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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| Function code                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Function                       | Description(setting range)                                                                                                                                                                                                                                                                                                                                                                                 | Factory default                                                      |           |                |         |             |        |                       |   |                              |        |               |    |                            |        |                |   |                         |        |                             |   |            |        |                       |    |                                                      |        |                       |       |                                                          |        |                   |     |                                                                      |        |           |    |                            |        |                        |     |                                                            |        |                   |    |                      |        |                      |     |                          |        |                       |     |                     |        |                        |      |                                                    |        |                        |      |                                        |        |                        |      |                                         |        |                      |   |                           |        |                      |   |                              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|-----------|----------------|---------|-------------|--------|-----------------------|---|------------------------------|--------|---------------|----|----------------------------|--------|----------------|---|-------------------------|--------|-----------------------------|---|------------|--------|-----------------------|----|------------------------------------------------------|--------|-----------------------|-------|----------------------------------------------------------|--------|-------------------|-----|----------------------------------------------------------------------|--------|-----------|----|----------------------------|--------|------------------------|-----|------------------------------------------------------------|--------|-------------------|----|----------------------|--------|----------------------|-----|--------------------------|--------|-----------------------|-----|---------------------|--------|------------------------|------|----------------------------------------------------|--------|------------------------|------|----------------------------------------|--------|------------------------|------|-----------------------------------------|--------|----------------------|---|---------------------------|--------|----------------------|---|------------------------------|
| P00.41                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | AI1 low side voltage(current)  | - 999999.000~999999.000<br>*function: analog input AI1 setting<br>*AI1 low side voltage(current): set the lowest voltage(current) of input signal.<br>*AI1 high side voltage(current): set the highest voltage(current) of input signal.<br>*AI1 low side setting: set corresponding value of low side voltage(current).<br>*AI1 high side setting: set corresponding value of high side voltage(current). | 0.000V(mA)                                                           |           |                |         |             |        |                       |   |                              |        |               |    |                            |        |                |   |                         |        |                             |   |            |        |                       |    |                                                      |        |                       |       |                                                          |        |                   |     |                                                                      |        |           |    |                            |        |                        |     |                                                            |        |                   |    |                      |        |                      |     |                          |        |                       |     |                     |        |                        |      |                                                    |        |                        |      |                                        |        |                        |      |                                         |        |                      |   |                           |        |                      |   |                              |
| P00.42                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | AI1 high side voltage(current) |                                                                                                                                                                                                                                                                                                                                                                                                            | 10.000V(mA)                                                          |           |                |         |             |        |                       |   |                              |        |               |    |                            |        |                |   |                         |        |                             |   |            |        |                       |    |                                                      |        |                       |       |                                                          |        |                   |     |                                                                      |        |           |    |                            |        |                        |     |                                                            |        |                   |    |                      |        |                      |     |                          |        |                       |     |                     |        |                        |      |                                                    |        |                        |      |                                        |        |                        |      |                                         |        |                      |   |                           |        |                      |   |                              |
| P00.43                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | AI1 low side setting           |                                                                                                                                                                                                                                                                                                                                                                                                            | 0.000%                                                               |           |                |         |             |        |                       |   |                              |        |               |    |                            |        |                |   |                         |        |                             |   |            |        |                       |    |                                                      |        |                       |       |                                                          |        |                   |     |                                                                      |        |           |    |                            |        |                        |     |                                                            |        |                   |    |                      |        |                      |     |                          |        |                       |     |                     |        |                        |      |                                                    |        |                        |      |                                        |        |                        |      |                                         |        |                      |   |                           |        |                      |   |                              |
| P00.44                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | AI1 high side setting          |                                                                                                                                                                                                                                                                                                                                                                                                            | 100.000%                                                             |           |                |         |             |        |                       |   |                              |        |               |    |                            |        |                |   |                         |        |                             |   |            |        |                       |    |                                                      |        |                       |       |                                                          |        |                   |     |                                                                      |        |           |    |                            |        |                        |     |                                                            |        |                   |    |                      |        |                      |     |                          |        |                       |     |                     |        |                        |      |                                                    |        |                        |      |                                        |        |                        |      |                                         |        |                      |   |                           |        |                      |   |                              |
| P00.45                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | AO1 signal source              | 0:always 0      1:always 10V/20mA<br>2:output frequency    3:motor current<br>4:output voltage    5:motor torque<br>6:output power    7:setting frequency<br>100~9999:high level parameter<br>** principal interpretation:<br>AO1 signal source function description as below:                                                                                                                             | 2                                                                    |           |                |         |             |        |                       |   |                              |        |               |    |                            |        |                |   |                         |        |                             |   |            |        |                       |    |                                                      |        |                       |       |                                                          |        |                   |     |                                                                      |        |           |    |                            |        |                        |     |                                                            |        |                   |    |                      |        |                      |     |                          |        |                       |     |                     |        |                        |      |                                                    |        |                        |      |                                        |        |                        |      |                                         |        |                      |   |                           |        |                      |   |                              |
| P00.46                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | AO1 low side setting           | - 999999.000~999999.000<br>* AO1 low side setting: set AO1 source minimum value.<br>* AO1 high side setting: set AO1 source maximum value.<br>* AO1 low side voltage(current): set the lowest voltage(current) of output signal.<br>* AO1 high side voltage(current): set the highest voltage(current) of output signal.                                                                                   | 0.000                                                                |           |                |         |             |        |                       |   |                              |        |               |    |                            |        |                |   |                         |        |                             |   |            |        |                       |    |                                                      |        |                       |       |                                                          |        |                   |     |                                                                      |        |           |    |                            |        |                        |     |                                                            |        |                   |    |                      |        |                      |     |                          |        |                       |     |                     |        |                        |      |                                                    |        |                        |      |                                        |        |                        |      |                                         |        |                      |   |                           |        |                      |   |                              |
| P00.47                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | AO1 high side setting          |                                                                                                                                                                                                                                                                                                                                                                                                            | 50.000                                                               |           |                |         |             |        |                       |   |                              |        |               |    |                            |        |                |   |                         |        |                             |   |            |        |                       |    |                                                      |        |                       |       |                                                          |        |                   |     |                                                                      |        |           |    |                            |        |                        |     |                                                            |        |                   |    |                      |        |                      |     |                          |        |                       |     |                     |        |                        |      |                                                    |        |                        |      |                                        |        |                        |      |                                         |        |                      |   |                           |        |                      |   |                              |
| P00.48                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | AO1 low side voltage(current)  |                                                                                                                                                                                                                                                                                                                                                                                                            | 0.000V(mA)                                                           |           |                |         |             |        |                       |   |                              |        |               |    |                            |        |                |   |                         |        |                             |   |            |        |                       |    |                                                      |        |                       |       |                                                          |        |                   |     |                                                                      |        |           |    |                            |        |                        |     |                                                            |        |                   |    |                      |        |                      |     |                          |        |                       |     |                     |        |                        |      |                                                    |        |                        |      |                                        |        |                        |      |                                         |        |                      |   |                           |        |                      |   |                              |
| P00.49                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | AO1 high side voltage(current) |                                                                                                                                                                                                                                                                                                                                                                                                            | 10.000V(mA)                                                          |           |                |         |             |        |                       |   |                              |        |               |    |                            |        |                |   |                         |        |                             |   |            |        |                       |    |                                                      |        |                       |       |                                                          |        |                   |     |                                                                      |        |           |    |                            |        |                        |     |                                                            |        |                   |    |                      |        |                      |     |                          |        |                       |     |                     |        |                        |      |                                                    |        |                        |      |                                        |        |                        |      |                                         |        |                      |   |                           |        |                      |   |                              |
| P00.50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | PID proportional gain          | 0.000%~10.000%<br>Determine the adjustment intensity of the whole PID regulator, bigger proportional gain is, bigger adjustment intensity is.                                                                                                                                                                                                                                                              | 0.010%                                                               |           |                |         |             |        |                       |   |                              |        |               |    |                            |        |                |   |                         |        |                             |   |            |        |                       |    |                                                      |        |                       |       |                                                          |        |                   |     |                                                                      |        |           |    |                            |        |                        |     |                                                            |        |                   |    |                      |        |                      |     |                          |        |                       |     |                     |        |                        |      |                                                    |        |                        |      |                                        |        |                        |      |                                         |        |                      |   |                           |        |                      |   |                              |
| P00.51                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | PID integral gain              | 0.001s~9999.000s<br>Determine PID regulator to the integral speed adjustment of the division of PID feedback quantity and given quantity, smaller integral gain is, greater adjustment intensity is.                                                                                                                                                                                                       | 10.000s                                                              |           |                |         |             |        |                       |   |                              |        |               |    |                            |        |                |   |                         |        |                             |   |            |        |                       |    |                                                      |        |                       |       |                                                          |        |                   |     |                                                                      |        |           |    |                            |        |                        |     |                                                            |        |                   |    |                      |        |                      |     |                          |        |                       |     |                     |        |                        |      |                                                    |        |                        |      |                                        |        |                        |      |                                         |        |                      |   |                           |        |                      |   |                              |
| P00.52                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | PID output upper limit         | -1000.000%~1000.000%<br>PID adjust the output maximum value, if higher than maximum value, then output PID output upper limit, relative to P0.11 maximum setting value percentage.                                                                                                                                                                                                                         | 100.000%                                                             |           |                |         |             |        |                       |   |                              |        |               |    |                            |        |                |   |                         |        |                             |   |            |        |                       |    |                                                      |        |                       |       |                                                          |        |                   |     |                                                                      |        |           |    |                            |        |                        |     |                                                            |        |                   |    |                      |        |                      |     |                          |        |                       |     |                     |        |                        |      |                                                    |        |                        |      |                                        |        |                        |      |                                         |        |                      |   |                           |        |                      |   |                              |
| P00.53                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | PID output lower limit         | -1000.000%~1000.000%<br>PID adjust the output minimum value, if lower than minimum value, then output PID output lower limit, relative to P0.11 maximum setting value percentage.                                                                                                                                                                                                                          | 0.000%                                                               |           |                |         |             |        |                       |   |                              |        |               |    |                            |        |                |   |                         |        |                             |   |            |        |                       |    |                                                      |        |                       |       |                                                          |        |                   |     |                                                                      |        |           |    |                            |        |                        |     |                                                            |        |                   |    |                      |        |                      |     |                          |        |                       |     |                     |        |                        |      |                                                    |        |                        |      |                                        |        |                        |      |                                         |        |                      |   |                           |        |                      |   |                              |
| P00.54                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | PID range                      | 0.001%~99999.000%<br>set according to actual feedback val, if lower than feedback value, then PID invalid.                                                                                                                                                                                                                                                                                                 | 100.000                                                              |           |                |         |             |        |                       |   |                              |        |               |    |                            |        |                |   |                         |        |                             |   |            |        |                       |    |                                                      |        |                       |       |                                                          |        |                   |     |                                                                      |        |           |    |                            |        |                        |     |                                                            |        |                   |    |                      |        |                      |     |                          |        |                       |     |                     |        |                        |      |                                                    |        |                        |      |                                        |        |                        |      |                                         |        |                      |   |                           |        |                      |   |                              |
| P00.55                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | PID dormancy frequency         | 0.000%~500.000%<br>set dormancy accurate frequency, relative to P0.11 maximum setting value percentage.                                                                                                                                                                                                                                                                                                    | 0.000%                                                               |           |                |         |             |        |                       |   |                              |        |               |    |                            |        |                |   |                         |        |                             |   |            |        |                       |    |                                                      |        |                       |       |                                                          |        |                   |     |                                                                      |        |           |    |                            |        |                        |     |                                                            |        |                   |    |                      |        |                      |     |                          |        |                       |     |                     |        |                        |      |                                                    |        |                        |      |                                        |        |                        |      |                                         |        |                      |   |                           |        |                      |   |                              |
| P00.56                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | PID enter dormancy time        | 0.000s~3600.000s<br>inverter reach enter dormancy time and meet to dormancy time, enter dormancy.                                                                                                                                                                                                                                                                                                          | 0.000s                                                               |           |                |         |             |        |                       |   |                              |        |               |    |                            |        |                |   |                         |        |                             |   |            |        |                       |    |                                                      |        |                       |       |                                                          |        |                   |     |                                                                      |        |           |    |                            |        |                        |     |                                                            |        |                   |    |                      |        |                      |     |                          |        |                       |     |                     |        |                        |      |                                                    |        |                        |      |                                        |        |                        |      |                                         |        |                      |   |                           |        |                      |   |                              |
| P00.57                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | PID wakeup deviation           | 0.000%~100.000%<br>percentage based on setting value.                                                                                                                                                                                                                                                                                                                                                      | 0.000%                                                               |           |                |         |             |        |                       |   |                              |        |               |    |                            |        |                |   |                         |        |                             |   |            |        |                       |    |                                                      |        |                       |       |                                                          |        |                   |     |                                                                      |        |           |    |                            |        |                        |     |                                                            |        |                   |    |                      |        |                      |     |                          |        |                       |     |                     |        |                        |      |                                                    |        |                        |      |                                        |        |                        |      |                                         |        |                      |   |                           |        |                      |   |                              |
| P00.58                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | PID enter wakeup time          | 0.000s~3600.000s<br>inverter reach wakeup deviation and meet to wakeup time, operation again.                                                                                                                                                                                                                                                                                                              | 0.000s                                                               |           |                |         |             |        |                       |   |                              |        |               |    |                            |        |                |   |                         |        |                             |   |            |        |                       |    |                                                      |        |                       |       |                                                          |        |                   |     |                                                                      |        |           |    |                            |        |                        |     |                                                            |        |                   |    |                      |        |                      |     |                          |        |                       |     |                     |        |                        |      |                                                    |        |                        |      |                                        |        |                        |      |                                         |        |                      |   |                           |        |                      |   |                              |
| P00.59                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | PID dormancy action            | 0: no dormancy;<br>2: decelerate to stop;<br>4: pause;<br>PID enter dormancy according to setting dormancy action.           1: PID stop;<br>3: free stop;<br>5: operate in lowest frequency                                                                                                                                                                                                               | 0                                                                    |           |                |         |             |        |                       |   |                              |        |               |    |                            |        |                |   |                         |        |                             |   |            |        |                       |    |                                                      |        |                       |       |                                                          |        |                   |     |                                                                      |        |           |    |                            |        |                        |     |                                                            |        |                   |    |                      |        |                      |     |                          |        |                       |     |                     |        |                        |      |                                                    |        |                        |      |                                        |        |                        |      |                                         |        |                      |   |                           |        |                      |   |                              |
| pressure sensor range:1.6MPa(1MPa~10k)PID control parameter <table border="1"> <thead> <tr> <th>parameter</th><th>parameter name</th><th>factory</th><th>description</th></tr> </thead> <tbody> <tr> <td>P01.63</td><td>keypad setting source</td><td>0</td><td>digital keypad/PID 87setting</td></tr> <tr> <td>P02.92</td><td>setting value</td><td>10</td><td>PID digital keypad set 10%</td></tr> <tr> <td>P00.11</td><td>feedback value</td><td>2</td><td>PID analog AI1 feedback</td></tr> <tr> <td>P00.12</td><td>setting relationship select</td><td>8</td><td>PID enable</td></tr> <tr> <td>P00.44</td><td>AI1 high side setting</td><td>16</td><td>AI1 high side set 16k (0~10V corresponding to 0~16k)</td></tr> <tr> <td>P00.50</td><td>PID proportional gain</td><td>0.01%</td><td>according to field adjustment (up PID intensity greater)</td></tr> <tr> <td>P00.51</td><td>PID integral gain</td><td>10s</td><td>PID dormancy frequency set 10Hz (maximum default setting value 50Hz)</td></tr> <tr> <td>P00.54</td><td>PID range</td><td>16</td><td>PID set feedback range 16k</td></tr> <tr> <td>P00.55</td><td>PID dormancy frequency</td><td>10%</td><td>according to field adjustment (down PID intensity greater)</td></tr> <tr> <td>P00.56</td><td>PID dormancy time</td><td>5s</td><td>PID dormancy time 5s</td></tr> <tr> <td>P00.57</td><td>PID wakeup deviation</td><td>20%</td><td>PID wakeup deviation 20%</td></tr> <tr> <td>P00.58</td><td>PID enter wakeup time</td><td>10s</td><td>PID wakeup time 10s</td></tr> <tr> <td>P01.69</td><td>display value 1 source</td><td>1090</td><td>PID feedback in the value dormancy, set 0.9 (0.9m)</td></tr> <tr> <td>P01.68</td><td>display value 2 source</td><td>1091</td><td>key board display PID setting pressure</td></tr> <tr> <td>P01.69</td><td>display value 2 source</td><td>1091</td><td>key board display PID feedback pressure</td></tr> <tr> <td>P02.03</td><td>UP/ command source 1</td><td>1</td><td>UP/ command from keyboard</td></tr> <tr> <td>P02.04</td><td>DOWN/ command source</td><td>1</td><td>(DOWN) command from keyboard</td></tr> </tbody> </table> |                                |                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                      | parameter | parameter name | factory | description | P01.63 | keypad setting source | 0 | digital keypad/PID 87setting | P02.92 | setting value | 10 | PID digital keypad set 10% | P00.11 | feedback value | 2 | PID analog AI1 feedback | P00.12 | setting relationship select | 8 | PID enable | P00.44 | AI1 high side setting | 16 | AI1 high side set 16k (0~10V corresponding to 0~16k) | P00.50 | PID proportional gain | 0.01% | according to field adjustment (up PID intensity greater) | P00.51 | PID integral gain | 10s | PID dormancy frequency set 10Hz (maximum default setting value 50Hz) | P00.54 | PID range | 16 | PID set feedback range 16k | P00.55 | PID dormancy frequency | 10% | according to field adjustment (down PID intensity greater) | P00.56 | PID dormancy time | 5s | PID dormancy time 5s | P00.57 | PID wakeup deviation | 20% | PID wakeup deviation 20% | P00.58 | PID enter wakeup time | 10s | PID wakeup time 10s | P01.69 | display value 1 source | 1090 | PID feedback in the value dormancy, set 0.9 (0.9m) | P01.68 | display value 2 source | 1091 | key board display PID setting pressure | P01.69 | display value 2 source | 1091 | key board display PID feedback pressure | P02.03 | UP/ command source 1 | 1 | UP/ command from keyboard | P02.04 | DOWN/ command source | 1 | (DOWN) command from keyboard |
| parameter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | parameter name                 | factory                                                                                                                                                                                                                                                                                                                                                                                                    | description                                                          |           |                |         |             |        |                       |   |                              |        |               |    |                            |        |                |   |                         |        |                             |   |            |        |                       |    |                                                      |        |                       |       |                                                          |        |                   |     |                                                                      |        |           |    |                            |        |                        |     |                                                            |        |                   |    |                      |        |                      |     |                          |        |                       |     |                     |        |                        |      |                                                    |        |                        |      |                                        |        |                        |      |                                         |        |                      |   |                           |        |                      |   |                              |
| P01.63                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | keypad setting source          | 0                                                                                                                                                                                                                                                                                                                                                                                                          | digital keypad/PID 87setting                                         |           |                |         |             |        |                       |   |                              |        |               |    |                            |        |                |   |                         |        |                             |   |            |        |                       |    |                                                      |        |                       |       |                                                          |        |                   |     |                                                                      |        |           |    |                            |        |                        |     |                                                            |        |                   |    |                      |        |                      |     |                          |        |                       |     |                     |        |                        |      |                                                    |        |                        |      |                                        |        |                        |      |                                         |        |                      |   |                           |        |                      |   |                              |
| P02.92                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | setting value                  | 10                                                                                                                                                                                                                                                                                                                                                                                                         | PID digital keypad set 10%                                           |           |                |         |             |        |                       |   |                              |        |               |    |                            |        |                |   |                         |        |                             |   |            |        |                       |    |                                                      |        |                       |       |                                                          |        |                   |     |                                                                      |        |           |    |                            |        |                        |     |                                                            |        |                   |    |                      |        |                      |     |                          |        |                       |     |                     |        |                        |      |                                                    |        |                        |      |                                        |        |                        |      |                                         |        |                      |   |                           |        |                      |   |                              |
| P00.11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | feedback value                 | 2                                                                                                                                                                                                                                                                                                                                                                                                          | PID analog AI1 feedback                                              |           |                |         |             |        |                       |   |                              |        |               |    |                            |        |                |   |                         |        |                             |   |            |        |                       |    |                                                      |        |                       |       |                                                          |        |                   |     |                                                                      |        |           |    |                            |        |                        |     |                                                            |        |                   |    |                      |        |                      |     |                          |        |                       |     |                     |        |                        |      |                                                    |        |                        |      |                                        |        |                        |      |                                         |        |                      |   |                           |        |                      |   |                              |
| P00.12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | setting relationship select    | 8                                                                                                                                                                                                                                                                                                                                                                                                          | PID enable                                                           |           |                |         |             |        |                       |   |                              |        |               |    |                            |        |                |   |                         |        |                             |   |            |        |                       |    |                                                      |        |                       |       |                                                          |        |                   |     |                                                                      |        |           |    |                            |        |                        |     |                                                            |        |                   |    |                      |        |                      |     |                          |        |                       |     |                     |        |                        |      |                                                    |        |                        |      |                                        |        |                        |      |                                         |        |                      |   |                           |        |                      |   |                              |
| P00.44                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | AI1 high side setting          | 16                                                                                                                                                                                                                                                                                                                                                                                                         | AI1 high side set 16k (0~10V corresponding to 0~16k)                 |           |                |         |             |        |                       |   |                              |        |               |    |                            |        |                |   |                         |        |                             |   |            |        |                       |    |                                                      |        |                       |       |                                                          |        |                   |     |                                                                      |        |           |    |                            |        |                        |     |                                                            |        |                   |    |                      |        |                      |     |                          |        |                       |     |                     |        |                        |      |                                                    |        |                        |      |                                        |        |                        |      |                                         |        |                      |   |                           |        |                      |   |                              |
| P00.50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | PID proportional gain          | 0.01%                                                                                                                                                                                                                                                                                                                                                                                                      | according to field adjustment (up PID intensity greater)             |           |                |         |             |        |                       |   |                              |        |               |    |                            |        |                |   |                         |        |                             |   |            |        |                       |    |                                                      |        |                       |       |                                                          |        |                   |     |                                                                      |        |           |    |                            |        |                        |     |                                                            |        |                   |    |                      |        |                      |     |                          |        |                       |     |                     |        |                        |      |                                                    |        |                        |      |                                        |        |                        |      |                                         |        |                      |   |                           |        |                      |   |                              |
| P00.51                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | PID integral gain              | 10s                                                                                                                                                                                                                                                                                                                                                                                                        | PID dormancy frequency set 10Hz (maximum default setting value 50Hz) |           |                |         |             |        |                       |   |                              |        |               |    |                            |        |                |   |                         |        |                             |   |            |        |                       |    |                                                      |        |                       |       |                                                          |        |                   |     |                                                                      |        |           |    |                            |        |                        |     |                                                            |        |                   |    |                      |        |                      |     |                          |        |                       |     |                     |        |                        |      |                                                    |        |                        |      |                                        |        |                        |      |                                         |        |                      |   |                           |        |                      |   |                              |
| P00.54                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | PID range                      | 16                                                                                                                                                                                                                                                                                                                                                                                                         | PID set feedback range 16k                                           |           |                |         |             |        |                       |   |                              |        |               |    |                            |        |                |   |                         |        |                             |   |            |        |                       |    |                                                      |        |                       |       |                                                          |        |                   |     |                                                                      |        |           |    |                            |        |                        |     |                                                            |        |                   |    |                      |        |                      |     |                          |        |                       |     |                     |        |                        |      |                                                    |        |                        |      |                                        |        |                        |      |                                         |        |                      |   |                           |        |                      |   |                              |
| P00.55                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | PID dormancy frequency         | 10%                                                                                                                                                                                                                                                                                                                                                                                                        | according to field adjustment (down PID intensity greater)           |           |                |         |             |        |                       |   |                              |        |               |    |                            |        |                |   |                         |        |                             |   |            |        |                       |    |                                                      |        |                       |       |                                                          |        |                   |     |                                                                      |        |           |    |                            |        |                        |     |                                                            |        |                   |    |                      |        |                      |     |                          |        |                       |     |                     |        |                        |      |                                                    |        |                        |      |                                        |        |                        |      |                                         |        |                      |   |                           |        |                      |   |                              |
| P00.56                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | PID dormancy time              | 5s                                                                                                                                                                                                                                                                                                                                                                                                         | PID dormancy time 5s                                                 |           |                |         |             |        |                       |   |                              |        |               |    |                            |        |                |   |                         |        |                             |   |            |        |                       |    |                                                      |        |                       |       |                                                          |        |                   |     |                                                                      |        |           |    |                            |        |                        |     |                                                            |        |                   |    |                      |        |                      |     |                          |        |                       |     |                     |        |                        |      |                                                    |        |                        |      |                                        |        |                        |      |                                         |        |                      |   |                           |        |                      |   |                              |
| P00.57                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | PID wakeup deviation           | 20%                                                                                                                                                                                                                                                                                                                                                                                                        | PID wakeup deviation 20%                                             |           |                |         |             |        |                       |   |                              |        |               |    |                            |        |                |   |                         |        |                             |   |            |        |                       |    |                                                      |        |                       |       |                                                          |        |                   |     |                                                                      |        |           |    |                            |        |                        |     |                                                            |        |                   |    |                      |        |                      |     |                          |        |                       |     |                     |        |                        |      |                                                    |        |                        |      |                                        |        |                        |      |                                         |        |                      |   |                           |        |                      |   |                              |
| P00.58                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | PID enter wakeup time          | 10s                                                                                                                                                                                                                                                                                                                                                                                                        | PID wakeup time 10s                                                  |           |                |         |             |        |                       |   |                              |        |               |    |                            |        |                |   |                         |        |                             |   |            |        |                       |    |                                                      |        |                       |       |                                                          |        |                   |     |                                                                      |        |           |    |                            |        |                        |     |                                                            |        |                   |    |                      |        |                      |     |                          |        |                       |     |                     |        |                        |      |                                                    |        |                        |      |                                        |        |                        |      |                                         |        |                      |   |                           |        |                      |   |                              |
| P01.69                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | display value 1 source         | 1090                                                                                                                                                                                                                                                                                                                                                                                                       | PID feedback in the value dormancy, set 0.9 (0.9m)                   |           |                |         |             |        |                       |   |                              |        |               |    |                            |        |                |   |                         |        |                             |   |            |        |                       |    |                                                      |        |                       |       |                                                          |        |                   |     |                                                                      |        |           |    |                            |        |                        |     |                                                            |        |                   |    |                      |        |                      |     |                          |        |                       |     |                     |        |                        |      |                                                    |        |                        |      |                                        |        |                        |      |                                         |        |                      |   |                           |        |                      |   |                              |
| P01.68                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | display value 2 source         | 1091                                                                                                                                                                                                                                                                                                                                                                                                       | key board display PID setting pressure                               |           |                |         |             |        |                       |   |                              |        |               |    |                            |        |                |   |                         |        |                             |   |            |        |                       |    |                                                      |        |                       |       |                                                          |        |                   |     |                                                                      |        |           |    |                            |        |                        |     |                                                            |        |                   |    |                      |        |                      |     |                          |        |                       |     |                     |        |                        |      |                                                    |        |                        |      |                                        |        |                        |      |                                         |        |                      |   |                           |        |                      |   |                              |
| P01.69                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | display value 2 source         | 1091                                                                                                                                                                                                                                                                                                                                                                                                       | key board display PID feedback pressure                              |           |                |         |             |        |                       |   |                              |        |               |    |                            |        |                |   |                         |        |                             |   |            |        |                       |    |                                                      |        |                       |       |                                                          |        |                   |     |                                                                      |        |           |    |                            |        |                        |     |                                                            |        |                   |    |                      |        |                      |     |                          |        |                       |     |                     |        |                        |      |                                                    |        |                        |      |                                        |        |                        |      |                                         |        |                      |   |                           |        |                      |   |                              |
| P02.03                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | UP/ command source 1           | 1                                                                                                                                                                                                                                                                                                                                                                                                          | UP/ command from keyboard                                            |           |                |         |             |        |                       |   |                              |        |               |    |                            |        |                |   |                         |        |                             |   |            |        |                       |    |                                                      |        |                       |       |                                                          |        |                   |     |                                                                      |        |           |    |                            |        |                        |     |                                                            |        |                   |    |                      |        |                      |     |                          |        |                       |     |                     |        |                        |      |                                                    |        |                        |      |                                        |        |                        |      |                                         |        |                      |   |                           |        |                      |   |                              |
| P02.04                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | DOWN/ command source           | 1                                                                                                                                                                                                                                                                                                                                                                                                          | (DOWN) command from keyboard                                         |           |                |         |             |        |                       |   |                              |        |               |    |                            |        |                |   |                         |        |                             |   |            |        |                       |    |                                                      |        |                       |       |                                                          |        |                   |     |                                                                      |        |           |    |                            |        |                        |     |                                                            |        |                   |    |                      |        |                      |     |                          |        |                       |     |                     |        |                        |      |                                                    |        |                        |      |                                        |        |                        |      |                                         |        |                      |   |                           |        |                      |   |                              |

| function code                                                                         | Function              | Description(setting range)                                                                                                                                                                                                                                                                                                                                                                                                                                | Factory default |
|---------------------------------------------------------------------------------------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| P00.60                                                                                | startup function      | 0:start frequency operation<br>1:speed start<br>2:DC injection<br><br>* principle interpretation:<br>0:no frequency output startup mode, meet to P00.61 startup time setting, P00.62 start frequency start to startup operation.<br>1:speed start, search rotating motor speed, smooth start without impact from search speed.<br>2:DC injection, inverter startup by "DC injection before startup" mode.                                                 | 0               |
| P00.61                                                                                | startup time          | 0.000s~60000.000s<br>principle interpretation: when system startup, setting start function work within setting start time.                                                                                                                                                                                                                                                                                                                                | 0.000s          |
| P00.62                                                                                | start frequency       | 0.000Hz~100.000Hz<br>principle interpretation: start function finish, if setting frequency bigger than start frequency, system start from start frequency; if setting frequency smaller than start frequency, system start from setting frequency.                                                                                                                                                                                                        | 0.000Hz         |
| P00.63                                                                                | DC injection current  | 0.000%~200.000%<br>⊙function: set magnitude of DC injection current.<br>(set P00.60~2 as DC injection)<br>* principle interpretation:<br>start mode is DC injection, need to set magnitude of DC braking current, 100% corresponding to inverter rated current.                                                                                                                                                                                           | 100.000%        |
| P00.64                                                                                | stop function         | units:0:free stop; 1:DC braking;<br>tens:1:accurate stop<br>* principle interpretation:<br>during stop process, stop function starts work when output frequency smaller than stop frequency.<br>accurate stop: stop at any speed motor rotation turns are same, realize consistent repeatability of stop position. To get the best efficiency, deceleration time not to trigger over pressure and over loss rate prevention function as long as possible. | 0               |
| P00.65                                                                                | stop frequency        | 0.000Hz~1000.000Hz<br>interpretation refer to 0.64                                                                                                                                                                                                                                                                                                                                                                                                        | 0.000Hz         |
| P00.66                                                                                | DC braking current    | 0.000%~300.000%<br>set DC braking current.                                                                                                                                                                                                                                                                                                                                                                                                                | 100.000%        |
| P00.67                                                                                | DC braking time       | 0.000s~1000.000s<br>set DC braking time.                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.000s          |
| P00.68                                                                                | braking resistor mode | 0:invalid<br>1:valid<br>function: braking resistor braking mode parameter set                                                                                                                                                                                                                                                                                                                                                                             | 1               |
|   |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                 |
| P00.70                                                                                | control mode          | 0:VF<br>1:vector control 1<br>function:select motor control algorithm                                                                                                                                                                                                                                                                                                                                                                                     | 1               |
| P00.71                                                                                | carrier frequency     | 2kHz~16kHz<br>⊙function: set carrier frequency                                                                                                                                                                                                                                                                                                                                                                                                            | *kHz            |
| P00.72                                                                                | motor power           | 0.000kW~100000.000kW<br>⊙function: set motor parameters                                                                                                                                                                                                                                                                                                                                                                                                   | *kW             |
| P00.73                                                                                | motor voltage         | 0V~1000V<br>⊙function: set motor parameters                                                                                                                                                                                                                                                                                                                                                                                                               | *V              |
| P00.74                                                                                | motor frequency       | 1Hz~3000Hz<br>⊙function: set motor parameters                                                                                                                                                                                                                                                                                                                                                                                                             | *Hz             |
| P00.75                                                                                | motor current         | 0.00A~1000.00A<br>⊙function: set motor parameters                                                                                                                                                                                                                                                                                                                                                                                                         | *A              |
| P00.76                                                                                | motor speed           | 10rpm~6553rpm<br>⊙function: set motor parameters                                                                                                                                                                                                                                                                                                                                                                                                          | *rpm            |
| P00.78                                                                                | VF curve-F1           | 0.0Hz~3000.0Hz<br>* principle interpretation:<br>set V/F curve under V/F control mode. When vector control 1 is adopted, set the corresponding frequency points of V/F curve to adjust control characteristics of the corresponding control points.                                                                                                                                                                                                       | 50.0Hz          |
| P00.79                                                                                | VF curve-F2           |                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 50.0Hz          |
| P00.80                                                                                | VF curve-F3           |                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 50.0Hz          |
| P00.81                                                                                | VF curve-F4           |                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 50.0Hz          |
| P00.82                                                                                | VF curve-V0           |                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0V              |
| P00.83                                                                                | VF curve-V1           | 0V~10000V<br>* principle interpretation:<br>set V/F curve under V/F control mode. When vector control 1 is adopted, set the corresponding voltage points of V/F curve to adjust control characteristics of the corresponding control points.                                                                                                                                                                                                              | *V              |
| P00.84                                                                                | VF curve-V2           |                                                                                                                                                                                                                                                                                                                                                                                                                                                           | *V              |
| P00.85                                                                                | VF curve-V3           |                                                                                                                                                                                                                                                                                                                                                                                                                                                           | *V              |
| P00.86                                                                                | VF curve-V4           |                                                                                                                                                                                                                                                                                                                                                                                                                                                           | *V              |
|  |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                 |
| P01.41                                                                                | local address         | 0~247<br>⊙function: set inverter local address                                                                                                                                                                                                                                                                                                                                                                                                            | 1               |
| P01.42                                                                                | baud rate             | 0:2400bps 1:4800bps<br>2:9600bps 3:19200bps<br>4:38400bps 5~10:reserved<br>⊙function: Communication port configuration                                                                                                                                                                                                                                                                                                                                    | 3               |

| Function code | Function                                   | Description(setting range)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Factory default |
|---------------|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| P01.43        | odd-even check                             | 0:no check<br>1:even check<br>2:odd check<br>⊙function: Communication port configuration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0               |
| P01.44        | data bits                                  | 7-8<br>⊙function: Communication port configuration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 8bits           |
| P01.45        | stop bits                                  | 0.0-2.0<br>⊙function: Communication port configuration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1.0bit          |
| P01.47        | parameter decimal place mode               | 0-123<br>0:remain decimal place,1:decimal place change to 2 places, 2:decimal place change to 1 place, 3:no decimal place;<br>tens:0:remain decimal place,1:decimal place change to 1 place, 2:no decimal place;<br>hundreds' digit: 0:remain decimal place,1:no decimal place;<br>* principle interpretation:<br>parameter decimal place mode only work to communication, which change parameter value during communication transmission.<br>* P01.47 units aim at parameters with 3 decimal places:<br>0:remain decimal place,1:decimal place change to 2 places, 2:decimal place change to 1, 3,no decimal place.<br>* P01.47 tens aim to parameters with 2 decimal places:<br>0:remain decimal place,1:decimal place change to 1 place, 2:no decimal place.<br>* P01.47 hundreds' digit aim to parameters with 1 place:<br>0:remain decimal place,1:no decimal place. | 0               |
| P01.63        | keyboard setting source                    | 0:keyboard digital setting; 1:keyboard potentiometer setting;<br>* principle interpretation:<br>select keyboard setting value source, digit setting (P02.92) or keyboard potentiometer.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1               |
| P02.03        | (UP) command source                        | units: keyboard;<br>tens: communication;<br>hundreds' digit: S1;<br>thousands' digit: S2;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0               |
| P02.04        | (DOWN) command source                      | ...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0               |
| P10.61        | history fault no. 1                        | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0               |
| P10.62        | history fault no. 2                        | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0               |
| P10.63        | history fault no. 3                        | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0               |
| P11.10        | output frequency upon current fault        | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0Hz             |
| P11.11        | output current upon current fault          | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.00A           |
| P11.12        | bus voltage upon current fault             | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.0V            |
| P11.13        | inverter temperature upon current fault    | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0℃              |
| P11.14        | S terminal status upon current fault       | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0               |
| P11.15        | Y terminal status upon current fault       | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0               |
| P11.16        | cumulative running time upon current fault | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0h              |

## NO.6 Fault code

| Fault Code | Protection function     | Description                                                                                                                              |
|------------|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| E0001      | protection function     | inverter components fault or software fault                                                                                              |
| E0004      | ground fault            | Abnormal resistance to ground, cause electric leakage                                                                                    |
| E0005      | short circuit to ground | short circuit to ground                                                                                                                  |
| E0006      | output short circuit    | inverter cut off output when inverter output current is 250% larger than inverter rated current.                                         |
| E0007      | output over current     | inverter cut off output when inverter output current is 200% larger than inverter rated current.                                         |
| E0008      | DC bus over voltage     | inverter cut off output if main circuit DC voltage is higher than 400V(220V motor type) or 800V(380V motor type) when motor decelerates. |
| E0009      | DC bus low voltage      | input voltage decrease, inverter cut off output if main circuit DC voltage too low.                                                      |
| E0010      | inverter over heat      | inverter cut off output if cooling fin is over heat.                                                                                     |
| E0011      | self-learning failure   | self-learning parameter wrong or motor abnormal.                                                                                         |
| E0013      | rectifier over heat     | rectifier module over heat.                                                                                                              |
| E0014      | U phase loss            | output U phase loss.                                                                                                                     |
| E0015      | V phase loss            | output V phase loss.                                                                                                                     |
| E0016      | W phase loss            | output W phase loss.                                                                                                                     |
| E0019      | no motor connect        | motor lost connection during operation.                                                                                                  |
| E0020      | input phase loss        | power input phase loss.                                                                                                                  |
| E0021      | inverter over load      | inverter cut off output when inverter output current exceed inverter rated level (150% 60S).                                             |
| E0022      | over torque             | motor over torque                                                                                                                        |
| E0024      | motor over heat         | motor temperature is over heat.                                                                                                          |
| E0025      | motor over load         | inverter cut off output when inverter output current exceed motor rated level (150% 60S).                                                |
| E0026      | current limit           | output current exceed setting limit threshold.                                                                                           |
| E0027      | Input power down        | The input voltage is lower than the power down standard value (P05.86)                                                                   |
| E0033      | ST0                     | Safe torque output stop function operation                                                                                               |
| E0034      | ST1                     | Alarm of ST1 internal circuit diagnosis                                                                                                  |
| E0035      | ST2                     | Alarm of ST2 internal circuit diagnosis                                                                                                  |
| E0036      | ST3                     | Alarm of internal circuit diagnosis                                                                                                      |
| E0063      | user fault              | user defined fault(P03.08)                                                                                                               |

**Note:** The alarm code is compared to the above table,  
for example: the keyboard displays "A0025" which means the motor overload alarm