

| $\begin{aligned} & \text { c} \\ & \text { coult } \end{aligned}$ | Fault categories | Possible reasons for faut | Actions |
| :---: | :---: | :---: | :---: |
| E009 | Output phase loss | $\underset{\text { Any of Phase } U, V \text { and } W \text { cannot be }}{\text { detected }}$ | $\begin{array}{\|l\|} \hline \text { Check the drives output } \\ \text { wiring } \\ \text { Check the cable and the } \\ \text { motor } \end{array}$ |
| E010 | Protections of IGBT act | Short-circuit among 3-phase output or line-to-ground short circuit | Rewiring, please make sure the insulation of motor is good |
|  |  | Instantaneous over-current | Refere to E001-E003 |
|  |  | Vent is obstructed of fan does not work | Clean the vent or replace the fan |
|  |  | Over-temperature | Lower the ambient temperature |
|  |  | Wires or connectors of control board are loose are loose | Check and rewiring |
|  |  | Current waveform distorted due to output <br> phase los | Check the wiring |
|  |  | Auxiliary power supply is damaged or IGBT <br> driving voltage is too low | Sek service |
|  |  | Short-circuit of IGBT bridge | Seek service |
|  |  | Control board is abnormal | Sek service |
| E011 | IGBT module's overheat$\qquad$ | Ambient over-temperature | Lower the ambient temperature |
|  |  | Vent is obstructed | Clean the vent |
|  |  | Fan does not work | Replace the fan |
|  |  | IGBT module is abnormal | Sek service |
| E012 | Rectifier's heatsink | Ambient over-temperature | Lower the ambient temperature |
|  |  | Vent is obstructed | Clean the vent |
|  |  | Fan does not work | Replace the fan |
| E013 | Driveoverload | Parameters of motor are wrong | Auto-tune the parameters of motor |
|  |  | Too heavy load | $\begin{aligned} & \text { Select the dirive with bigger } \\ & \text { power } \end{aligned}$ |
|  |  | DC injection braking current is too big | Reduce the DC injection braking current and prolong the braking time |
|  |  | Too short acceleration time | Prolong acelelation time |
|  |  | Low AC supply volage | Check the AC supply volage |
|  |  | Improper V/F curve | Adjust V/F curve or torque boost value |
| E014 | Motorover-load | Improper motor's overload protection threshold | Modify the motor's overload protection threshold. |
|  |  | Motor is locked or load suddenly become too big | Check the load |
|  |  | Common motor has operated with heavy load at low speed for a long time. | Use a special motor if the motor is required to operat for a long time. |
|  |  | Low AC supply volage | Check the AC supply volage |
|  |  | Improper V/F curve | Set V/F curve and torque |
| E015 | $\begin{gathered} \text { extermal } \\ \text { equipment } \\ \text { fails } \end{gathered}$ | Terminal used for stopping the drive in emergent status is closed | Disconnect the terminal if the external fault is cleared |
| E016 | $\begin{gathered} \text { EEPROM } \\ \text { RRW } \\ \text { fault } \\ \hline \end{gathered}$ | R/W fault of control parameters | Press 5 STOPRRST to reset, seek service |
| E017 | Communicatio n timeout | The setting time is to shot | Set b3.02 to 0, it means do not detection |
| E018 | Contactor not <br> closed | Low AC supply volage | Check the AC supply volage |
|  |  | Contactor damaged | Replace the contactor in main circuit and seek service |
|  |  | Soft start resistor is damaged | Replace the soft start resistor and seek service |
|  |  | Control circuit is damaged | Sek service |
|  |  | Input phase loss | Check the wiring of R, S, T. |
| E019 | $\begin{gathered} \text { Current } \\ \text { delection } \\ \text { circuit } \\ \text { fails } \end{gathered}$ | Wires or connectors of control board are loose | Check and re-wire |
|  |  | Auxiliary power supply is damaged | Sek service |
|  |  | Hall sensor i d damaged | Seek service |
|  |  | Amplifyng circuit is abnormal | Sek service |
| E020 | $\underset{\substack{\text { System } \\ \text { interference }}}{ }$ | Terrible interference | $\begin{aligned} & \text { Press STOP/RSTK.ky to resen } \\ & \text { or add a power filter in front } \end{aligned}$ of power supply input |
|  |  | DSP in control board read/write by mistake | Press STOP/RST key or |
| E023 | $\begin{gathered} \text { Parameter } \\ \text { copy } \end{gathered}$ | Panel's parameters are not complete or the | Update the panel's parameters and version again. |


| Fautt code | Fault categories | Possible reasons for faut | Actions |
| :---: | :---: | :---: | :---: |
|  | error | version of the parameters are not the same <br> as that of the main control board | First set b4.04 to 1 to upload the parameters and then set the parameters. |
|  |  | Panel's EEPROM is damaged | Sek service |
| ${ }^{\text {E024 }}$ | $\begin{aligned} & \text { Auto-tuning } \\ & \text { fault } \end{aligned}$ | Improper settings of parameters on the nameplate | Set the parameters correctly according to the nameplate |
|  |  | Prohibiting contra Auto-turning during rollback | Cancel prohibiting rollback |
|  |  |  | Check the motor's wiring |
|  |  | Overtime of auto-tuning | $\begin{aligned} & \text { Check the set value of } \\ & \text { A0.10(uper limiting } \\ & \text { frequency), make sure if it is } \\ & \text { lowert tan the reted } \\ & \text { frequency or not } \end{aligned}$ |
| E026 | The load of <br> drive is los | The load is lost or reduce | Check the situation of the load |
| E027 | Brake unit | Brake tube is broken | Seek service |


| $\begin{aligned} & \text { Functi } \\ & \text { on } \\ & \text { code } \\ & \hline \end{aligned}$ | Name | Descriptions | Unit | $\begin{aligned} & \text { Factor } \\ & \text { y } \\ & \text { setting } \end{aligned}$ | $\begin{array}{\|c} \hline \mathrm{M} \\ \text { odi } \\ \mathrm{fi} \end{array}$ | $\begin{array}{\|l\|l\|} \hline \begin{array}{l} \text { Seting } \\ \text { range } \end{array} \end{array}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Group A0: Basic operating paramelers |  |  |  |  |  |  |
| ${ }^{\text {A0.00 }}$ | User password | 0: No password protection. Others: Password protection. | 1 | ${ }^{0}$ | - | 0 -FFFF |
| ${ }^{\text {A0.01 }}$ | Control mode | 0:reserved 1: reserved <br> 2: V/F contro | 1 | 0 | $\times$ | 0-2 |
| ${ }^{\text {A0.02 }}$ | $\begin{aligned} & \text { Main reference } \\ & \text { frequency } \\ & \text { selector } \end{aligned}$ |  | ${ }^{1}$ | ${ }^{0}$ | - | 0-5 |
| ${ }^{\text {A0.03 }}$ | Set the freauncy digital mode | A0.11-A0.10 | 0.01 H | 50.00 | - | 0-3000 |
| A0.04 | Methods of inputtingoper ng comman | 0: Panel control 1: Terminana control 2: Communication control a | ${ }^{1}$ | ${ }^{0}$ | - | 0-2 |
| ${ }^{\text {A0.05 }}$ | Set running | 0: Forward 1: Reverse | ${ }^{1}$ | ${ }^{0}$ | - | 0-1 |
| ${ }^{\text {A0.06 }}$ | Acc time 1 | 0.0-6000.0 | 0.15 | 6.0 s | - | ${ }^{0-60000}$ |
| A0.07 | Dec iime 1 | 0.0-6000.0 | 0.15 | 6.0s | $\bigcirc$ | 0.60000 |
| ${ }^{\text {A0.08 }}$ | Max. output <br> requency | $5 \mathrm{HHz} \sim 300.00 \mathrm{~Hz}$ | ${ }^{0.01 \mathrm{H}}$ | 50.00 | $\times$ | 0-30000 |
| A0.09 | Max. output <br> voltage | $0 \sim 480$ | ${ }^{1 \mathrm{~V}}$ | $\begin{aligned} & \hline \text { VFD's } \\ & \text { rated } \\ & \text { values } \\ & \hline \end{aligned}$ | $\times$ | 0-480 |
| ${ }^{\text {A0. }} 10$ | Upper limit of frequency | A0.11-A0.08 | $\begin{array}{\|l\|l} \hline 0.01 \mathrm{H} \\ z \\ \hline \end{array}$ | 50.00 | - | 0-30000 |
| ${ }^{\text {A0.11 }}$ | Lower limit of <br> frequency | 0.00-A0.10 | ${ }_{2}^{0.01 \mathrm{H}}$ | 0.00 | - | 0-30000 |
| ${ }^{\text {A0. } 12}$ | Basic operating frecuency | $0.00-300.00 \mathrm{~Hz}$ | ${ }_{2}^{0.01 \mathrm{H}}$ | 50.00 | $\bigcirc$ | 0-30000 |
|  |  |  |  |  |  |  |
| ${ }^{\text {al }}$. 00 | Starting mode | Group A1: Start and stop O: Statr from the starting frequency 1: Brake first and then start 2: Reserved 2. | $\frac{1}{1}$ | ${ }^{0}$ | ${ }^{\times}$ | 0-2 |
| ${ }^{\text {Al } 1.01}$ | Starting frequency | ${ }^{0.000-60.00 \mathrm{~Hz}}$ | $\begin{array}{\|l\|l} \hline 0.01 \mathrm{i} \\ z_{2} \end{array}$ | $\begin{array}{\|l\|} \hline 0.00 \mathrm{H} \\ \mathrm{z} \end{array}$ | - | 0-6000 |
| ${ }^{\text {A1.02 }}$ | Holding time of starting <br> frequency | 0.00-10.00s | 0.01 s | 0.00 s | - | 0~1000 |
| ${ }^{\text {A1 }} 1.3$ | $\begin{aligned} & \text { DC injection } \\ & \text { braking curren } \end{aligned}$ at start | $0.0 \% \sim 100.0 \%$ drive's rated current | 0.1\% | 0.0\% | - | 0-1000 |
| ${ }^{\text {A1 }}$. 4 | DC injection braking time at start | 0.00 (No action) $0.01-30.00 \mathrm{~s}$ | 0.01 s | 0.00 s | - | 0-3000 |
| ${ }^{\text {A1.05 }}$ | Stopping mode |  | ${ }^{1}$ | ${ }^{0}$ | $\times$ | 0~2 |
| ${ }^{\text {A1.06 }}$ | DC injection braking initial frequency a stop | $0.00-60.00 \mathrm{~Hz}$ | ${ }_{z}^{0.01 \mathrm{H}}$ | ${ }^{0.00 \mathrm{H}}$ <br> z | - | 0-6000 |
| ${ }^{\text {A1.07 }}$ | Injection <br> braking <br> waiting time a <br> stop | 0.00-10.00s | ${ }^{0.015}$ | 0.00 s | - | 0-1000 |
| ${ }^{\text {A1.08 }}$ | DC injection braking curren at stop | $0.0 \% \sim 100.0 \%$ drive's rated current | 0.1\% | 0.0\% | - | 0~1000 |
| A1.09 | DC injection | 0.0 (No action) | 0.01 s | 0.00 s | $\bigcirc$ | 0-3000 |



| Functi <br> on <br> cod | Name | Descripions | Unit | Factor <br> y | $\mathrm{m}_{\text {odi }}^{\mathrm{m}} \mathrm{f}$ | Seting $\begin{aligned} & \text { selunge } \\ & \text { range } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ${ }^{\text {A4.20 }}$ | Over_Commtat | 0: disable | 1 | 0 | x | $0 \sim 1$ |
| A4.21 | Comm ACR-P | 0.65535 | 1 | 100 | 。 | 0.65535 |
| A4.22 | Comm ACR-I | 0 065335 |  | 100 |  | $0-65335$ |
| A4.23 | Output V ratio | 0.65535 | 1 | 1030 |  | 0.65 |
| ${ }^{\text {A } 4.24}$ | Output I ratio | $0-65335$ | 1 | 1000 | - | $0-65535$ |
| Group A5: reserved |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| $\begin{aligned} & \text { A6.00- } \\ & \text { A6.03 } \end{aligned}$ | Multi-function terninal X1-×4 | 0: No function1: Forward <br> 2: Reverse <br> 4: Revers jog operation <br> 4: Reverse jog operation <br> 6: External RESET signal <br> input <br> 7: External fault signal input <br> 8: External interrupt signal <br> input <br> 9: Drive operation prohibit <br> 10: External stop comman 11: DC injection braking <br> 1. DC inj command <br> 12: Coast to stop <br> 13: Frequency ramp up (UP) <br> 14: Frequency ramp down (DN) <br> (DN) <br> 15: Switch to panel control <br> 16: Switch to terminal control 17: Switch to communication <br> control mode <br> 18: Main reference frequency <br> via AI <br> 27: Preset frequency 1 <br> 28: Preset frequency 2 <br> 29: Preset frequency 3 30: Preset frequency 4 <br> 31: Acc/Dec time 1 <br> 32: Acc/Dec time 2 <br> 33: Multiple close-loop <br> 34: Multiple close-loop <br> reference selection 2 35: Multiple close-loop <br> 35: Multiple close-loop reference selection 3 <br> 36: Multiple close-loop reference selection 4 <br> 37: Forward prohibit <br> 38: Reverse prohibit 39: Acc/Dec prohibit <br> 40: Process close-loop prohibit <br> 42: Main frequency switch to <br> 43: PLC pause <br> 44: PLC prohibit <br> 45: PLC stop memory clear <br> 46: Swing input <br> 47: Swing reset 48~49:Reserved <br> 50: Timer 1 start <br> 51: Timer 2 start <br> 53: Counter input <br> Others: Reserved |  | 0 | × | $0 \sim 54$ |
| $\begin{aligned} & \text { A6.04 } \\ & \text { A6.05 } \end{aligned}$ | reserved |  |  |  |  |  |
| A6.08 | Terminal filter | 0.500 ms | 1 | 10 | - | 0.500 |
| ${ }^{\text {A6.09 }}$ | $\begin{aligned} & \text { Terminal } \\ & \text { control mode } \end{aligned}$ selection |  | 1 | 0 | $\times$ | 0-3 |
| $\begin{aligned} & \text { A6.10 } \\ & \text { A6.11 } \\ & \text { A6. } 12 \end{aligned}$ | reserved |  |  |  |  |  |
| ${ }^{\text {A6. }} 13$ | $\begin{aligned} & \text { Input terminal's } \\ & \text { positive and } \\ & \text { negative logic } \end{aligned}$ |  | 1 | ${ }^{00}$ | - | 0-FFH |
| $\begin{aligned} & \text { A6.14 } \\ & \text { a6.15 } \end{aligned}$ | reserved |  | 1 | 0 | $\times$ | 0-50 |
| A6.16 | Output $\begin{aligned} & \text { functions } \\ & \text { relay R1 } \end{aligned}$ relay R | 0: Running signal(RUN) <br> 1: frequency arriving <br> signal(FAR) <br> threshold | 1 | 15 | × | 0,50 |


| $\begin{array}{\|l} \hline \begin{array}{l} \text { Functi } \\ \text { on } \\ \text { code } \end{array} \end{array}$ | Name | Descripions | Unit | $\begin{array}{\|l\|l} \hline \begin{array}{l} \text { Factor } \\ \text { yeting } \\ \text { setting } \end{array} \\ \hline \end{array}$ | $\begin{array}{\|l\|} \hline \mathrm{M} \\ \text { odi } \\ \mathrm{f} . \end{array}$ | $\begin{aligned} & \text { Seting } \\ & \text { range } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |
| A6.18 | $\begin{aligned} & \text { Outut } \\ & \text { Suminals } \\ & \text { pesive and } \\ & \text { pegative logic } \end{aligned}$ | Binary setting <br> 0 : Terminal is enabled if it is <br> correspond common terminal, <br> and disabled if it is <br> disconnected <br> 1: Terminal is disabled if it is connected to <br> corresponding common <br> terminal, and <br> enable if it is disconnected <br> Unit2 splace of LED: <br> BIT2: R1 <br> Ten's place of LED: <br> Reserved | 1 | 0 <br>  <br>  <br>  <br>  | - | 0~1FH |
| ${ }^{\text {A6. }} 19$ | Frequency arriving signal (FAR) | 0.00-300.00Hz | ${ }^{0.01 \mathrm{H}}$ | $\begin{array}{\|l\|l\|} \hline 2.50 \mathrm{H} \\ \hline \end{array}$ | - | 0.30000 |
| A6.20 | FDT1 level | $0.00-300.00 \mathrm{~Hz}$ | ${ }^{0.01 \mathrm{H}}$ | 50.00 | - | 0.30000 |
| ${ }^{\text {A6.21 }}$ | FDTI lag | $0.00-300.00 \mathrm{~Hz}$ | 0.01 H | ${ }^{1.000}$ | - | 0-3000 |
| ${ }^{\text {A6.22 }}$ | FDT2 level | $0.00-300.00 \mathrm{~Hz}$ | ${ }_{2}^{0.01 \mathrm{H}}$ | $\begin{aligned} & 25.00 \\ & { }_{2}^{2} 7 \end{aligned}$ | - | $0-3000$ |
| ${ }^{\text {A6.23 }}$ | FDT2 lag | $0.00-300.00 \mathrm{~Hz}$ | ${ }^{0.01 \mathrm{H}}$ | 1.00H | - | 0.3000 |
| ${ }^{\text {A6.24 }}$ | $\begin{aligned} & \begin{array}{l} \text { Virtual terminal } \\ \text { setting } \end{array} \end{aligned}$ | Binary setting <br> 0: Disable <br> 1: Enable <br> Unit's place of LED: <br> Ten's place of $L$ ED <br> Reserved | 1 | 00 | - | 0-FFH |
| $\begin{aligned} & \text { A6.282- } \\ & A_{6.43} \end{aligned}$ | reserved |  |  |  |  |  |
| A6.44 | Setting value of timer 1 | 0.0-10.0s | ${ }^{0.15}$ | 0.0 | - | ${ }_{1 \sim 100}$ |
| ${ }^{\text {A6.45 }}$ | Setting value of | 0-100s | 1 s | 0 | - | 00 |
| ${ }^{\text {A6.46 }}$ | $\begin{aligned} & \text { Target value of } \\ & \text { counter } \end{aligned}$ | $0-6535$ | ${ }^{1}$ | 100 | - | $0-6535$ |
| ${ }^{\text {A6.47 }}$ | Intermediate <br> value of <br> counter | ${ }^{0-65535}$ | 1 | 50 | - | ${ }^{0-65535}$ |
| A8.00 | $\begin{aligned} & \text { Protective } \\ & \text { action of relay } \end{aligned}$ |  | $\frac{\text { ers }}{1}$ | 0000 | $\times$ | $0-1111 \mathrm{H}$ |
| A8.01 | Fault masking selection 1 | Unit's place of LED: <br> Communication fault masking <br> selection <br> Ten's place of LED <br> Relay faultmasking selection <br> Hundred's place of LED | 1 | 2000 | $\times$ | 0-2222H |


| $\begin{array}{\|l} \hline \begin{array}{l} \text { Functi } \\ \text { on } \\ \text { code } \end{array} \\ \hline \end{array}$ | Name | Descripions | Unit | $\begin{array}{\|l} \hline \begin{array}{l} \text { factor } \\ \text { y } \\ \text { setting } \end{array} \\ \hline \end{array}$ | $\begin{aligned} & \mathrm{M} \\ & \text { odi } \\ & \mathrm{fi} \\ & \hline \end{aligned}$ | Seting <br> range |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | EEPROMfault masking selection <br> Thousand's place of LED: Reserved <br> 0 :Disable.Stop when fault happen <br> 1:Disable.Continue operating when fault happen 2:Enable |  |  |  |  |
| A8.02 | Fault masking <br> selection 2 | Unit's place of LED: Open phase fault masking selection of input Tents place of LED: Open phase fault masking | 1 | 00 | $\times$ | $0 \sim 22 \mathrm{H}$ |
| A8.03 | Motor overload <br> protection <br> mode <br> selection | :Common mode (with low speed compensation) 2: Variable frequency motor (without low speed compensation) | 1 | 1 | * | 0~2 |
| A8.04 | Auto rese <br> times | 0 : No function <br> $1 \sim 100$ : Auto reset time Note: The IGBT protection (E010) and external equipment fault (E015) cannot be reset automatically | ${ }^{1}$ | ${ }^{0}$ | $\times$ | 0-100 |
| A8.05 | Reset interval | 2.0-20.0stlime | 0.15 | 5.0 s | $\times$ | 20-200 |
| ${ }^{88.06}$ | Fault locking function <br> selection. | 0:Disable. 1: Enable. | ${ }^{1}$ | 0 | $\times$ | $0 \sim 1$ |
| Group b0:Motor parameters |  |  |  |  |  |  |
| $\frac{b 0.00}{b-0.01}$ | ${ }^{\text {Rated power }}$ Rated volase | ${ }^{0.40-999.9 \mathrm{KW}} 0$ | ${ }^{0.1}$ | ${ }_{0}^{0}$ | $\stackrel{\times}{\times}$ | $\begin{aligned} & \hline 4 \sim 9999 \\ & \hline 0 \sim 999 \end{aligned}$ |
| b0.02 | Rated current | 0.1-999.9A | ${ }^{0.1 A}$ | $\substack{\text { Depen } \\ \text { do } \\ \text { on } \\ \text { drives } \\ \text { model }}$ | $\times$ | 1-9999 |
| b0.03 | $\begin{aligned} & \text { Rated } \\ & \text { frequency } \end{aligned}$ | 1.00-1000.00Hz | ${ }_{z}^{0.01 \mathrm{H}}$ | $\begin{array}{\|l\|l} \hline \text { Depen } \\ \text { depe } \\ \text { on } \\ \text { drives } \\ \text { model } \end{array}$ | $\times$ | $\begin{array}{\|l\|l\|} \hline 100-300 \\ 00 \end{array}$ |
| b0.04 | Number of motor | 2-24 | 1 | 4 | $\times$ | 2-24 |
| b0.05 | Rated speed | 0-60000RPM | ${ }^{1 \text { RPM }}$ | $\begin{array}{\|l\|l\|} \hline \begin{array}{l} \text { I440R } \\ \text { PM } \end{array} \\ \hline \end{array}$ | $\times$ | 0-60 |
| b0.06 | $\begin{aligned} & \text { Resistance of } \\ & \text { stator } \% \mathrm{R} 1 \end{aligned}$ | 0.00\% $050.00 \%$ | 0.01\% | Depen don on dirves model mol | $\times$ | 0-5000 |
| b0.07 | Leakage <br> inductance \% Xl | 0.00\% $20.000 \%$ | 0.01\% | $\begin{array}{\|l\|l} \hline \text { Depen } \\ \text { d } \\ \text { on } \\ \text { drives } \\ \text { model } \end{array}$ | $\times$ | 0.5000 |
| b0.08 | Resistance of rotor 2 | 0.00\% $0.50 .00 \%$ | 0.01\% | $\begin{array}{\|l\|l} \hline \text { Depen } \\ \text { of } \\ \text { on } \\ \text { drives } \\ \text { model } \end{array}$ | $\times$ | 0.5000 |
| b0.09 | $\begin{aligned} & \text { Exciting } \\ & \text { inductance } \% \mathrm{X} \\ & \mathrm{~m} \end{aligned}$ | 0.0\% $2000.0 \%$ | 0.1\% | Depen don on drives model mol | $\times$ | 0-20000 |
| b0.10 | Current without load I0 | 0.1-999.9A | 0.1 A | $\begin{array}{\|l\|l} \hline \text { Depen } \\ \text { d } \\ \text { on } \\ \text { drives } \\ \text { model } \\ \hline \end{array}$ | $\times$ | 1-9999 |
| b0.11 | Auto-tuning | 0: Auto-tuning is disabled 1. Stationary auto-tuning (Start auto-tunang to standtandsill motr) 2: Rotataing auto-tuning I2 | 1 | ${ }^{0}$ | $\times$ | 0,3 |
| b0.12 | Motor's Nourload protection coefficien | 20.0\% - 110.0\% | 0.1\% | $\begin{array}{\|l\|} \hline 100.0 \\ \sigma_{6} \end{array}$ | $\times$ | $\begin{array}{\|l\|l} \hline 200-110 \end{array}$ |
| b0.13 | $\begin{aligned} & \text { Oscillation } \\ & \text { inhibition } \\ & \text { coefficient } \end{aligned}$ | 0-255 | ${ }^{1}$ | 10 | - | 0-255 |
| b1.00 | $\begin{aligned} & \text { V/F curve } \\ & \text { seeting } \end{aligned}$ |  | 1 | 0 | $\times$ | 0-3 |



| 13 |  |  |  |  |  |  | 14 |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{array}{\|l} \hline \begin{array}{l} \text { Funcii } \\ \text { on } \\ \text { code } \end{array} \\ \hline \end{array}$ | Name | Descripions | Unit | $\begin{aligned} & \text { Factor } \\ & \text { y } \\ & \text { setting } \end{aligned}$ | $\begin{array}{\|l\|} \hline \text { M } \\ \text { odi } \\ \text { f. } \end{array}$ | Setting range | $\begin{array}{\|l} \hline \begin{array}{l} \text { Funcii } \\ \text { on } \\ \text { code } \end{array} \\ \hline \end{array}$ | Name | Descriptions | Unit | $\begin{aligned} & \text { Factor } \\ & \text { y } \\ & \text { setting } \end{aligned}$ | $\begin{array}{\|c\|} \hline \mathrm{M} \\ \text { odi } \\ \text { f. } \end{array}$ | Seting range |
|  |  | 0:1-8-2-N format,RTU <br> 1:1-8-1-E format,RTU 2.1-8-1-O format, RTU <br> Hundred's place of LED: <br> wiring mode <br> 0:Direct connection via cable <br> (RS232/485) <br> 1: MODEM (RS232) |  |  |  |  |  |  | BIT0:Bus voltage 1.Speed(R/MiN)(No BIT2:Setting speed(R/MIN) (Flicking, no display at feedback mode) Note: If all the BITs are 0,the drive will display setting |  |  |  |  |
| b3.01 | Local address | $0 \sim 127,0$ is the broadcasting address | 1 | 5 | $\times$ | -127 |  |  | frequency at stop, display output frequency at operating |  |  |  |  |
| b3.02 | Time threshold for judgingthecommunication status | ${ }^{0.0 \sim 1000.0 s}$ | ${ }^{0.1}$ | ${ }^{0.05}$ | $\times$ | 0-10000 |  |  | and display bus voltage a energy feedback mode. |  |  |  |  |
|  |  |  |  |  |  |  | B4.06 | Linear speed <br> ratio | 0.00-99.99 | ${ }^{0.01}$ | 1.00 | - | -9999 |
| ${ }^{\text {b3. }} 03$ | $\begin{array}{\|l\|l\|} \hline \begin{array}{l} \text { Delay for } \\ \text { responing to } \\ \text { control PC } \end{array} \\ \hline \end{array}$ | $0-1000 \mathrm{~ms}$ | 1 | 5ms | $\times$ | 0-1000 | Group CO:Multisection parameters |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ${ }^{\text {b4, }}$, 0 |  |  | ers |  |  |  | $\begin{array}{\|l\|l\|} \hline 0.00 \sim \\ \text { C0.14 } \\ \hline \end{array}$ | $\begin{aligned} & \text { Multi-speed } \\ & \text { from 1~15 } \end{aligned}$ | Lower limit of frequency- upper limit of frequency | $\begin{aligned} & \begin{array}{l} 0.01 \mathrm{H} \\ \mathrm{z} \end{array} \\ & \hline \end{aligned}$ | 5.00 H | - | $0-30000$ |
|  | $\begin{aligned} & \text { Key.lock } \\ & \text { Suncoion } \\ & \text { selcection } \end{aligned}$ | 0 : The keys on the operation panel are not locked, and all <br> the keys are usable <br> 1: The keys on the operation <br> panel are locked, and all the keys are <br> unusable. <br> 2: All the keys except for the <br> multi-functional key are <br> unusable. <br> 3: All the keys except for the <br> 4•All the keys unusable. <br> RUN AND STOP keys are <br> unusable. | 1 | 0 | - | 0-4 | C1.00 | Close-loop control function | $\begin{aligned} & \text { Group C1:Process PID para } \\ & \hline \text { 0: Disable1: Enable } \\ & \hline \end{aligned}$ | eters | 0 | * | 0-1 |
|  |  |  |  |  |  |  | ${ }^{\text {C1.01 }}$ | Reference channel <br> selection | 0: Digital input 1: AI | 1 | 1 | - | 0-3 |
|  |  |  |  |  |  |  | ${ }^{2} 1.02$ | $\begin{aligned} & \substack{\text { Fenedounck } \\ \text { channel } \\ \text { selection }} \end{aligned}$ | 0 : AI | 1 | ${ }^{0}$ | - | 0 |
|  |  |  |  |  |  |  | ${ }^{\text {C1. }} 03$ | Digital setting of <br> reference | $-10.00 \mathrm{~V} \sim 10.00 \mathrm{~V}$ | ${ }^{0.01}$ | 0.00 | - | 0-2000 |
|  |  |  |  |  |  |  | ${ }^{\text {c1. }} 05$ | Min reference | $0.0 \% \sim(\mathrm{C} 1.07)$ (Ratio of Min reference to base value of $10 \mathrm{~V} / 20 \mathrm{~mA}$ )) | 0.1\% | 0.0\% | - | 0~1000 |
| b4.01 | Multi-function | Reserved | 1 | 4 | - | 0-5 | ${ }^{\text {c1.06 }}$ | Feedback valuecorresponding to the Min reference | $0.0 \sim 100.0 \%$ <br> (Ratio of Min reference to base value of $10 \mathrm{~V} / 20 \mathrm{~mA}$ ) | 0.1\% | 0.0\% | - | 0~1000 |
| b4.02 | Parameterprotection | 0: All parameters are allowedmodifirig.l: only A.0.03 and b4.02 canbe modifid2: Only $b 4.02$ can be modified. | 1 | 1 | - | 0-2 |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  | C1.07 | Max reference | (C1.05)~100.0\% (Ratio of Max reference to base value of $10 \mathrm{~V} / 20 \mathrm{~mA}$ | 0.1\% | ${ }_{6}^{100.0}$ | - | 0-1000 |
| ${ }^{\text {b4. }}$. 3 | Parameter initialization | 0: No operation <br> 1: Clear fault information in memory <br> 2: Restore to factory settings | ${ }^{1}$ | ${ }^{0}$ | * | ${ }^{0-2}$ | C1.08 | Feedback value corresponding to the Max referenc | $0.0 \sim 100 \%$ (Ratio of Max reference to base value of $10 \mathrm{~V} / 20 \mathrm{~mA}$ ) | 0.1\% | $\begin{aligned} & 100.0 \\ & { }_{6}^{100} \end{aligned}$ | - | 0~1000 |
| b4.04 | Parameer copy | O: No action <br> 1: parameters upload <br> 2: parameters oowload <br> 3: parameters download <br> (except the parameters related <br> to drive type) <br> Note: Not to upload/download | 1 | 0 | $\times$ | 0-3 | $\mathrm{Cl}^{1.09}$ | Proportional <br> gain KP | $0.000-10.000$ | 0.001 | 2.000 | - | 010000 |
|  |  |  |  |  |  |  | ${ }^{\text {C1. } 10}$ | Integral gain Ki | 0.000-10.000 | 0.001 | 0.100 | - | 0~10000 |
|  |  |  |  |  |  |  | C1.11 | Differential gain Kd | ${ }^{0.000-10.000}$ | 0.001 | 0.100 | - | $0-10000$ |
|  |  |  |  |  |  |  | ${ }^{\text {C1.12 }}$ | Sampling cycle T | 0.01-50.00s | ${ }^{0.015}$ | ${ }^{0.50}$ | - | 1.5000 |
| b4.05 | $\begin{aligned} & \substack{\text { pisplay } \\ \text { paraneters } \\ \text { selection }} \end{aligned}$ | Binary setting: <br> 0: No display1: Display <br> Unit's place of LED: <br> BIT0: Output frequency(No <br> display at stop.Display power <br> frequency at energy feedback mode) <br> BIT1:S <br> (Flicking.No display at energy <br> feedback mode) <br> display <br> at stop.Display power <br> frequency <br> at energy feedback mode) <br> display at stop.Display power <br> frequency at energy feedback mode) <br> Ten's place of LED: <br> BIT0: AI <br> BIT3: DI terminal status <br> Hundred's place of LED: <br> display <br> at stop and energy feedback mode) <br> mode) <br> BIT1:Output torque(No <br> display <br> at stop and energy feedback <br> mode) <br> BIT2:Analog close-loop <br> (\%)(No display at feedback <br> mode) <br> BIT3:Analog close-loop <br> (\%)(Flicking, no display at <br> feedback mode) <br> Thousand's place of LED: | 1 | 1007H | - | $\begin{aligned} & \begin{array}{l} 0 \sim 7 \text { FFF } \\ \mathrm{H} \end{array} \end{aligned}$ | C11.13 <br> C1.14 | ${ }_{\text {Outpu filler }}$ | $0.0 \sim 20.0 \%$ (Corresponding to | ${ }_{\text {0, }}^{0.015}$ | ${ }^{0.0 .05}$ | - | ${ }_{\text {1 }}^{1-2000}$ |
|  |  |  |  |  |  |  | C1.15 | $\begin{aligned} & \text { Close-loop } \\ & \text { regulation } \\ & \text { characteristic } \end{aligned}$ | $\begin{aligned} & \text { Cose-coop re } \\ & \hline \text { 0: } \mathrm{P} \text { Posive } \\ & \text { 1 Negative } \end{aligned}$ | ${ }^{1}$ | ${ }^{0}$ | $\times$ | 0-1 |
|  |  |  |  |  |  |  | C1.16 | $\begin{gathered} \text { Integral } \\ \text { revaltan } \\ \text { selection } \end{gathered}$ | 0 : Stop integral regulation when the frequency reaches the upper and lower limit 1: Continue the integral regulation when the frequency reaches the upper and lower limits | 1 | 0 | $\times$ | 0-1 |
|  |  |  |  |  |  |  | ${ }^{\text {C1.17 }}$ | $\begin{aligned} & \hline \text { Preset } \\ & \text { close-loop } \\ & \text { frequency } \\ & \hline \end{aligned}$ | $0.000-300.00 \mathrm{~Hz}$ | ${ }_{z}^{0.01 \mathrm{H}}$ | $0_{z}^{0.00 \mathrm{H}}$ | - | 0-3000 |
|  |  |  |  |  |  |  | C1.18 |  | 0.0-3600.0s | ${ }^{0.15}$ | ${ }^{0.05}$ | $\times$ | 0.36000 |
|  |  |  |  |  |  |  | $\begin{aligned} & \mathrm{C} 1.192 \\ & \mathrm{Cl} 1.23 \end{aligned}$ | Preset close-loop reference 1~15 | $-10.00 \mathrm{\sim} \sim 10.00 \mathrm{~V}$ | ${ }^{0.01 \mathrm{~V}}$ | ${ }^{0.00 \mathrm{~V}}$ | $\bigcirc$ | 0-2000 |
|  |  |  |  |  |  |  | C1.34 | $\begin{aligned} & \hline \text { Close-loop } \\ & \text { output reversal } \\ & \text { selection } \end{aligned}$ selection | 0: The close-loop output is negative, <br> the drive will operate at zero frequency <br> 1: The close-loop output is negative and the drive operate reverse | 1 | 0 | - | ${ }^{0 \sim 1}$ |
|  |  |  |  |  |  |  | ${ }^{\text {C1 }} 135$ | Sleep function selection | 0: Disable 1: Enable. | ${ }^{1}$ | ${ }^{0}$ | - | 0~1 |
|  |  |  |  |  |  |  | ${ }^{\text {C1.36 }}$ | Sleep level | $0.0 \sim 100.0 \%$ | 0.1\% | 50.0\% | - | $0 \sim 1000$ |
|  |  |  |  |  |  |  | C1.37 | Sleep latency | 0.0~6000.0s | 0.1s | ${ }^{30.05}$ | - | ¢~ |
|  |  |  |  |  |  |  | C1.38 | Wake-up level | 0.0~100.0\% | 0.1\% | 50.0\% | - | $0 \sim 1000$ |
|  |  |  |  |  |  |  | C2.00 | Simple PLC operation | Unit's place of LED: PLC operation mode 0 : No function | 1 | 0000 | $\times$ | $0 \sim 1123 \mathrm{H}$ |



Note: 0 . Can be modified dessword.
$x$ : Cannot be modified during operating;
: Actually detected and cannot be revised,
-: Defaulted by factory and cannot be modified

