Mini type VFD of CV20 series
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Thank you for using CV20 series Variable Frequency Drive made by Kinco Automation. CV20 satisfies the high performance requirements by using a unique control method to achieve high torque, high accuracy and wide speed-adjusting range. Its anti-tripping function and capabilities of adapting to severe power network, temperature, humidity and dusty environment exceed those of similar product made by other companies, which improves the product's reliability noticeably;Without PG connector, strong speed control, flexible input/output terminal, pulse frequency setting, saving parameters at power outage and stop, frequency setting channel, master and slave frequency control and so on, all these satisfy various of high accuracy and complex drive command, at the same time we provide the OEM customer high integration total solution, it values highly in system cost saving and improving the system reliability.

CV20 can satisfy the customers' requirements on low noise and EMI by using optimized PWM technology and EMC design.

This manual provides information on installation, wiring, parameters setting, trouble-shooting, and daily maintenance. To ensure the correct installation and operation of CV20, please read this manual carefully before starting the drive and keep it in a proper place and to the right person. Unpacking Inspection Note

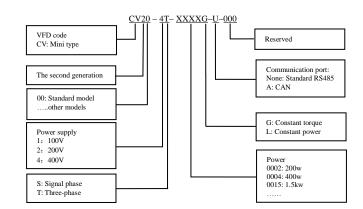
# Upon unpacking, please check for:

Any damage occurred during transportation;

• Check whether the rated values on the nameplate of the drive are in accordance with your order. Our product is manufactured and packed at factory with great care. If there is any error, please contact us or distributors.

The user manual is subject to change without notifying the customers due to the continuous process of product improvements

### VFD model rule



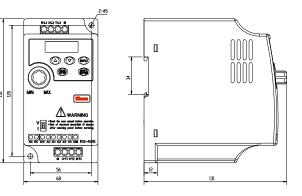
### **Production introduction:**

	G	eneral specifications		
Item		Description		
Input	Rated voltage and frequency	4T:3-phase,380V~440V AC; 50Hz/60Hz 2S:Single-phase,200V~240V;50Hz/60Hz 1S:Single-phase, 100~120V; 50/60HZ		
-	Allowable voltage range	4T: 320V~460V AC;2S:180V~260V; 1S: 90~132V Voltage tolerance<3%; Frequency: ±5%		
	Rated voltage	4T:0~440V; 2S:0~240V; 1S:0~240V		
<b>A</b>	Frequency	0Hz~300Hz (0~800HZ customizable)		
Output	Overload capacity	G type: 150% rated current for 1 minute, 180% rated current for 10 seconds;		
	Control mode	V/F control		
	Modulation mode	Space vector PWM modulation		
	Starting torque	1 Hz 150% rated torque		
	Frequency accuracy	Digital setting: Max frequency ×±0.01%; Analog setting: Max. frequency ×±0.2%		
Control	Frequency resolution	Digital setting: 0.01Hz; Analog setting: Max frequency ×0.1%		
Control Characteristics	Torque boost	Manual torque boost :0%~30.0%		
Characteristics	V/F pattern	4 patterns: 1 V/F curve mode set by user and 3 kinds of torque-derating modes (2.0 order, 1.7 order, and 1.2 order)		
	Acc/Dec curve	Linear acceleration/deceleration, Four kinds of acceleration/deceleration time		
	Auto current limit	Limit current during the operation automatically to prevent frequent overcurrent trip		
Operation	Operation Command	Operation Panel, Terminal, CommunicationControl, Supportswitching between these control channesl.		
Function	Frequency Setting	Digital, Analog Voltage/current setting.		
	Auxiliary frequency	Support main and auxiliary setting("+","-", "min", "max")		
Operation percl	LED Display	Display setting frequency, output frequency, output voltage, output current and so on, about 20 parameters.		
Operation panel	Keys lock and function selection	Lock part of keys or all the keys. Define the function of part of keys		

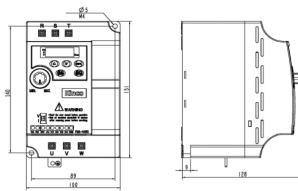
Item		Description
Protection function	on	Open phase protection (optional), overcurrent protection, overvoltage protection, under-voltage protection, overheat protection, over-load protection and so on.
	Operating site	Indoor, installed in the environment free from directsunlight, dust, corrosive gas, combustible gas, oil mist, steam and drip.
Environment	Altitude	Derated above 1000m, the rated output current shall be decreased by 10% for every rise of 1000m
	Ambient temperature	-10°C~40°C, derated at 40°C~ 50°C
	Humidity	5%~95%RH, non-condensing
	Vibration	Less than 5.9m/s2 (0.6g)
	Storage temperature	-40°C~+70°C
<u>.</u>	Protection class	IP20
Structure	Cooling method	Air cooling, with fan control.
Installation meth	od	Wall-mounted
Efficiency		≥90%
Introduction of	f CV20 series:	

Model of VFD	Rated capacity (kVA)	Rated input current (A)	Rated output current (A)	Motor power (kW)
CV20-1S-0002G	0.6	6.0	1.3	0.2
CV20-1S-0004G	1.0	9.0	2.5	0.4
CV20-1S-0007G	1.5	18.0	4.0	0.75
CV20-2S-0004G	1.0	5.3	2.5	0.4
CV20-2S-0007G	1.5	8.2	4.0	0.75
CV20-2S-0015G	3.0	14.0	7.5	1.5
CV20-4T-0007G	1.5	3.4	2.3	0.75
CV20-4T-0015G	3.0	5.0	3.7	1.5
CV20-4T-0022G	4.0	5.8	5.5	2.2

**External dimension:** 



CV20-2S-0004G~ CV20-2S-0015G/ CV20-1S-0002G~ CV20-1S-0007G



CV20-4T-0007G~CV20-4T-0022G Mechanical param

		IVIG	echamea	i parame	aers				
VFD model			Exter	nal dime	ension ar	nd (mm)			
(G: Constant torque load; L: Draught fan and water pump load)	W	Н	D	W1	H1	D1	T1	Installa- tion hole(d)	Weight (kg)
CV20-1S-0002G									
CV20-1S-0004G									
CV20-1S-0007G	68	132	131	56	120	-	12	5	0.8
CV20-2S-0004G	00	152	151	50	120	-	12	5	0.0
CV20-2S-0007G									
CV20-2S-0015G									
CV20-4T-0007G									
CV20-4T-0015G	100	151	128	89	140	-	9	5	1.0
CV20-4T-0022G									

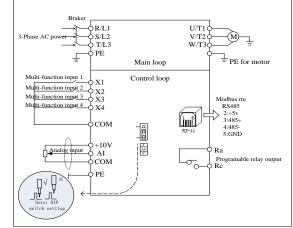
		Description	supplier	-	te una recora une actunea pitenonie	na before seeking service from	
$\Delta$	Increase th	e value or function		and actions		1	
$\overline{\nabla}$		ne value or function	Fault code	Fault categories	Possible reasons for fault	Actions	
•					Acc time is too short	Prolong the Acc time	
MENU	Enter or E:	kit the programming status			Parameters of motor are wrong	Auto-tune the parameters of motor	
RUN / STOP		eration mode, run the vfd by the first pressing; stop vfd by the n VFD error status, reset the error by pressing	second E001	Over-current during acceleration	Coded disc breaks down, when PG is running	Check the coded disc and th connection	
SHIFT /	Short proc	ing to shift date or function code. Hold pressing(more than 1a)	to optor	acceleration	Drive power is too small	Select a higher power drive	
SHIFT /       Short pressing to shift data or function code. Hold pressing(more than 1s) to enter function code or save the changed value         iring:       Image: Comparison of the changed value		) to enter		V/F curve is not suitable	Check and adjust V/F curv adjust torque boost		
ring:		Δ			Deceleration time is too short	Prolong the Dec time	
-Wiring can only be done after the drive's AC power is disconnected, all the LEDs on the operation panel are off and waiting for at least 5 minutes. Then, you can remove the panel.			E002	Over-current during	The load generates energy or the load inertial is too big	Connect suitable braking k	
			ne operation	deceleration	Coded disc breaks down, when PG is running	Check the coded disc and the connection	
		r at least 5 minutes. Then, you can remove the panel. ne after confirming the charge indicator on the right bottom is	s off and the		Drive power is too small	Select a higher power driv	
voltage between main circuit power terminals + and - is below DC36V. Wire connections can only be done by trained and authorized person					Acceleration /Deceleration time is too short	Prolong Acceleration/ Deceleration time	
heck the wir	ring carefully	before connecting emergency stop or safety circuits.		Over-current in	Sudden change of load or Abnormal load	Check the load	
		evel before supplying power to it, otherwise human injuries of	E003	constant speed	Low AC supply voltage	Check the AC supply voltage	
damage may happen.				operation	Coded disc breaks down, when PG is running	Check the coded disc and t connection	
heck wheth	er the Variah	Attention le Speed Drive's rated input voltage is in compliant with the	AC supply		Drive power is too small	Select a higher power driv	
ltage before		e speed 2000 s and mpat forage is in compliant with the	E004	Over voltage during	Abnormal AC supply voltage	Check the power supply	
	-	he drive has been done in factory, so you need not do it again. ected braking resistor or braking kit.		acceleration	Too short acceleration time	Prolong acceleration tin	
is prohibited	d to connect t	he AC supply cables to the drive's terminals U, V and W. he copper cables with section area bigger than 3.5mm2, and the	e grounding E005	Over voltage during	Too short Deceleration time (with reference to generated energy)	Prolong the deceleration tir	
	uld be less that age current in	In $10\Omega$ . side the drive. The total leakage current is greater than 3.5mA	, depending	deceleration	The load generates energy or the load inertial is too big	Connect suitable braking k	
the usage carren	conditions. To nt protector (1	o ensure safety, both the drive and the motor should be groun RCD) should be installed. It is recommended to choose B typ	nded, and a		Wrong ASR parameters, when drive run in the vector control mode	Refer to A5. ASR paramete setting	
-	e current at 30 ould be conne	cted to the AC supply via a circuit breaker or fuse to provide c	convenience	Over voltage in constant-speed	Acceleration /Deceleration	Prolong Acceleration/	
input over-c	current protec	tion and maintenance.	E006		time is too short	Deceleration time Check the power supply	
Top of single-phase/3-phase $R/L_1$ $S/L_2$ $T/L_3$							
Top of si	ingle-phase/3	-phase R/L1 S/L2 T/L3		operating process	Abnormal AC supply voltage Abnormal change of input		
Top of si		-phase $R/L_1$ $S/L_2$ $T/L_3$ $\textcircled{=}$ Bottom $U/L_1$ $V/L_2$ $W/L_3$ $\textcircled{=}$				Install input reactor	
Top of s				process Drive's	Abnormal change of input voltage	Install input reactor Connect suitable braking k	
Terminal	name	Bottom U/L1 V/L2 W/L3 (=) Function description	E007	process	Abnormal change of input voltage	Install input reactor Connect suitable braking k	
	name 2、T/L3	Bottom U/L1 V/L2 W/L3		Drive's control power supply over	Abnormal change of input voltage Too big load inertia	Install input reactor Connect suitable braking k Check the AC supply voltage seek service Check the wiring and installa	
Terminal R/L1、S/L2	name 2、T/L3 2、W/T3	Bottom U/L1 V/L2 W/L3 Function description Single-phase 220V(R/L1, S/L2) or 3-phase 380VAC input	t terminal	Drive's control power supply over voltage Input phase loss Output phase	Abnormal change of input voltage         Too big load inertia         Abnormal AC supply voltage         Any of phase R, S and T cannot be detected         Any of Phase U, V and W	Install input reactor Connect suitable braking k Check the AC supply voltag seek service Check the wiring and installa Check the AC supply volta Check the drive's output win	
Terminal R/L1、S/L2 J/T1、V/T2	name 2、T/L3 2、W/T3	Bottom U/L1 V/L2 W/L3 Function description Single-phase 220V(R/L1, S/L2) or 3-phase 380VAC input 3-phase AC output terminal	t terminal E008	Drive's control power supply over voltage Input phase loss	Abnormal change of input voltage         Too big load inertia         Abnormal AC supply voltage         Any of phase R, S and T cannot be detected         Any of Phase U, V and W cannot be detected         Short-circuit among 3-phase output or line-to-ground short	Install input reactor Connect suitable braking l Check the AC supply voltag seek service Check the wiring and install Check the wiring and install Check the drive's output win Check the drive's output win Check the cable and the mo Rewiring, please make sure	
Terminal R/L1, S/L2 J/T1, V/T2	name 2, T/L3 2, W/T3	Bottom U/L1 V/L2 W/L3 Function description Single-phase 220V(R/L1, S/L2) or 3-phase 380VAC input 3-phase AC output terminal Shield terminal raker raker RL1 U/T1	t terminal E008	Drive's control power supply over voltage Input phase loss Output phase	Abnormal change of input voltage         Too big load inertia         Abnormal AC supply voltage         Any of phase R, S and T cannot be detected         Any of Phase U, V and W cannot be detected         Short-circuit among 3-phase	Install input reactor Connect suitable braking l Check the AC supply voltag seek service Check the wiring and install Check the wiring and install Check the drive's output win Check the drive's output win Check the cable and the mo Rewiring, please make sure	
Terminal R/L1、S/L2 J/T1、V/T2	name 2、T/L3 2、W/T3	Bottom $U/L1$ $V/L2$ $W/L3$ $$ Function description Single-phase 220V(R/L1, S/L2) or 3-phase 380VAC input 3-phase AC output terminal Shield terminal raker V/T2 $W/T3$ $V/T2$ $W/T3$ $$	t terminal E008	Drive's control power supply over voltage Input phase loss Output phase	Abnormal change of input voltage         Too big load inertia         Abnormal AC supply voltage         Any of phase R, S and T cannot be detected         Any of Phase U, V and W cannot be detected         Short-circuit among 3-phase output or line-to-ground short circuit         Instantaneous over-current         Vent is obstructed or fan does	Install input reactor Connect suitable braking k Check the AC supply voltag seek service Check the wiring and installa Check the wiring and installa Check the AC supply volta Check the drive's output wir Check the cable and the mo Rewiring, please make sure insulation of motor is goo Refer to E001-E003	
Terminal R/L1, S/L2 J/T1, V/T2	name 2, T/L3 2, W/T3	Bottom U/L1 V/L2 W/L3 Function description Single-phase 220V(R/L1, S/L2) or 3-phase 380VAC input 3-phase AC output terminal Shield terminal	t terminal E008	Drive's control power supply over voltage Input phase loss Output phase	Abnormal change of input voltage         Too big load inertia         Abnormal AC supply voltage         Any of phase R, S and T cannot be detected         Any of Phase U, V and W cannot be detected         Short-circuit among 3-phase output or line-to-ground short circuit         Instantaneous over-current	Install input reactor Connect suitable braking k Check the AC supply voltag seek service Check the wiring and installa Check the drive's output win Check the drive's output win Check the drive's output win Check the cable and the mo Rewiring, please make sure insulation of motor is goo Refer to E001–E003 Clean the vent or replace the	
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Terminal XL1, S/L2 //T1, V/T2 	name 2、T/L3 2、W/T3 ) B Multi-function inf Multi-function inf	Bottom $U/L1$ $V/L2$ $W/L3$ $\bigoplus$ Function description Single-phase 220V(R/L1, S/L2) or 3-phase 380VAC input 3-phase AC output terminal Shield terminal raker $R/L1$ V/T2 $V/T2V/T2$ $V/T2$ $W/T3$ $=PE$ for motor W/T3 $=$ PE for motor $W/T3$ $=$ PE for motor	t terminal E008	process       Drive's       control power       supply over       voltage       Input phase       loss       Output phase       loss	Abnormal change of input voltage         Too big load inertia         Abnormal AC supply voltage         Any of phase R, S and T cannot be detected         Any of Phase U, V and W cannot be detected         Short-circuit among 3-phase output or line-to-ground short circuit         Instantaneous over-current         Vent is obstructed or fan does not work         Over-temperature         Wires or connectors of control board are loose         Current waveform distorted	Install input reactor Connect suitable braking I Check the AC supply voltag seek service Check the AC supply volta Check the AC supply volta Check the AC supply volta Check the drive's output win Check the drive's output win Check the cable and the mo Rewiring, please make sure insulation of motor is goo Refer to E001-E003 Clean the vent or replace the Lower the ambient temperat Check and rewiring	
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Terminal R/L1, S/L2 J/T1, V/T2 () 3-Pi ) , , , ,	name 2, T/L3 2, W/T3 ) Multi-function ing Multi-function ing	Bottom U/L1 V/L2 W/L3 $\bigcirc$ Function description Single-phase 220V(R/L1, S/L2) or 3-phase 380VAC input 3-phase AC output terminal Shield terminal raker R/L1 V/T2 W/L3 $\bigcirc$ Single-phase 220V(R/L1, S/L2) or 3-phase 380VAC input 3-phase AC output terminal Function description Single-phase 220V(R/L1, S/L2) or 3-phase 380VAC input 3-phase AC output terminal Function description Function description Single-phase 220V(R/L1, S/L2) or 3-phase 380VAC input Bottom Control Input Function description Function description Single-phase 220V(R/L1, S/L2) or 3-phase 380VAC input Function description Function	t terminal E008	Protections of IGBT act	Abnormal change of input voltage         Too big load inertia         Abnormal AC supply voltage         Any of phase R, S and T cannot be detected         Any of Phase U, V and W cannot be detected         Short-circuit among 3-phase output or line-to-ground short circuit         Instantaneous over-current         Vent is obstructed or fan does not work         Over-temperature         Wires or connectors of control board are loose         Current waveform distorted due to output phase loss         Auxiliary power supply is damaged or IGBT driving voltage is too low         Short-circuit of IGBT bridge         Control board is abnormal	Install input reactor Connect suitable braking k Check the AC supply voltag seek service Check the Wiring and installa Check the AC supply volta Check the drive's output win Check the drive's output win Check the drive's output win Check the cable and the mo Rewiring, please make sure insulation of motor is goo Refer to E001-E003 Clean the vent or replace the Lower the ambient temperat Check and rewiring Check the wiring Seek service Seek service Seek service	
Terminal R/L1, S/L2 J/T1, V/T2 () 3-Pi ) , , , ,	name 2, T/L3 2, W/T3 ) Multi-function ing Multi-function ing	Bottom $U/L1$ $V/L2$ $W/L3$ $$ Function description Single-phase 220V(R/L1, S/L2) or 3-phase 380VAC input 3-phase AC output terminal Shield terminal Shield terminal VT2 $W/T3$ $VT2$ $W/T3$	t terminal E008	Protections of IGBT act	Abnormal change of input voltage         Too big load inertia         Abnormal AC supply voltage         Any of phase R, S and T cannot be detected         Any of Phase U, V and W cannot be detected         Short-circuit among 3-phase output or line-to-ground short circuit         Instantaneous over-current         Vent is obstructed or fan does not work         Over-temperature         Wires or connectors of control board are loose         Current waveform distorted due to output phase loss         Auxiliary power supply is damaged or IGBT driving voltage is too low         Short-circuit of IGBT bridge         Control board is abnormal         Ambient over-temperature         Vent is obstructed	Install input reactor Connect suitable braking k Check the AC supply voltage seek service Check the wiring and installa Check the AC supply voltage Check the drive's output wir Check and the word Clean the vent or replace the Lower the ambient temperat Check the wiring Seek service Seek service Lower the ambient temperat Clean the vent	
Terminal R/L1、S/L2 U/T1、V/T2 (=) 3-P1	name 2, T/L3 2, W/T3 ) B Phase AC power Multi-function ing Multi-function ing	Bottom U/L1 V/L2 W/L3 $\bigcirc$ Function description Single-phase 220V(R/L1, S/L2) or 3-phase 380VAC input 3-phase AC output terminal Shield terminal raker R/L1 V/T2 W/L3 $\bigcirc$ Single-phase 220V(R/L1, S/L2) or 3-phase 380VAC input 3-phase AC output terminal Function description Single-phase 220V(R/L1, S/L2) or 3-phase 380VAC input 3-phase AC output terminal Function description Function description Single-phase 220V(R/L1, S/L2) or 3-phase 380VAC input Bottom Control Input Function description Function description Single-phase 220V(R/L1, S/L2) or 3-phase 380VAC input Function description Function	t terminal E008 E009 E010 E011	Process         Drive's         control power         supply over         voltage         Input phase         loss         Output phase         loss         Protections of         IGBT act         IGBT         module's         heatsink	Abnormal change of input voltage         Too big load inertia         Abnormal AC supply voltage         Any of phase R, S and T cannot be detected         Any of Phase U, V and W cannot be detected         Short-circuit among 3-phase output or line-to-ground short circuit         Instantaneous over-current         Vent is obstructed or fan does not work         Over-temperature         Wires or connectors of control board are loose         Current waveform distorted due to output phase loss         Auxiliary power supply is damaged or IGBT driving voltage is too low         Short-circuit of IGBT bridge         Control board is abnormal         Ambient over-temperature         Vent is obstructed	Install input reactor Connect suitable braking k Check the AC supply voltage seek service Check the Wiring and installa Check the AC supply volta Check the drive's output wir Check and the mo Clean the vent or replace the Lower the ambient temperat Check the wiring Seek service Seek service Lower the ambient temperat Clean the vent Replace the fan	

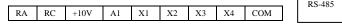




Top of single-phase/3-phase	R/L1	S/L2	T/L3	÷	
Pottom					
Bottom	U/L1	V/L2	W/L3	Ē	

Terminal name	Function description
R/L1、S/L2、T/L3	Single-phase 220V(R/L1, S/L2) or 3-phase 380VAC input terminal
U/T1、V/T2、W/T3	3-phase AC output terminal
÷	Shield terminal





		5	
Fault	Fault	Possible reasons for fault	Actions
code	categories	Parameters of motor are wrong	Auto-tune the parameters of
		Too heavy load	motor Select the drive with bigger power
E013	Drive overload	DC injection braking current is too big	Reduce the DC injection braking current and prolong the braking time
		Too short acceleration time	Prolong acceleration time
		Low AC supply voltage	Check the AC supply voltage
		Improper V/F curve	Adjust V/F curve or torque boost value
		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
E014	Motor over-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 operate for a long time.
		Low AC supply voltage	Check the AC supply voltage
		Improper V/F curve	Set V/F curve and torque boost value correctly
E015	external equipment fails	Terminal used for stopping the drive in emergent status is closed	Disconnect the terminal if the external fault is cleared
E016	EEPROM R/W fault	R/W fault of control parameters	Press STOP/RST to reset, seek service
E017	Communicatio n timeout	The setting time is too shot	Set b3.02 to 0, it means do not detection
		Low AC supply voltage	Check the AC supply voltage
		Contactor damaged	Replace the contactor in main circuit and seek service
E018	Contactor not closed	Soft start resistor is damaged	Replace the soft start resistor and seek service
		Control circuit is damaged	Seek service
		Input phase loss	Check the wiring of R, S, T.
	Current	Wires or connectors of control board are loose	Check and re-wire
E019	detection circuit	Auxiliary power supply is damaged	Seek service
	fails	Hall sensor is damaged	Seek service
		Amplifying circuit is abnormal	Seek service
E020	System	Terrible interference	Press <b>STOP/RST</b> key to reset or add a power filter in front of power supply input
	interretence	DSP in control board read/write by mistake	Press <b>STOP/RST</b> key or seek service.
E023	Parameter copy error	Panel's parameters are not complete or the version of the parameters are not the same as that of the main control board	Update the panel's parameters and version again. First set b4.04 to 1 to upload the parameters and then set b4.04 to 2 or 3 to download the parameters.
		Panel's EEPROM is damaged	Seek service
		Improper settings of parameters on the nameplate	Set the parameters correctly according to the nameplate
	Auto tuning	Prohibiting contra Auto-turning during rollback	Cancel prohibiting rollback
E024	Auto-tuning fault		Check the motor's wiring
		Overtime of auto-tuning	Check the set value of A0.10(upper limiting frequency), make sure if it is lower than the rated frequency or not
E026	The load of drive is lost	The load is lost or reduced	Check the situation of the load
E027	Brake unit fault	Brake tube is broken	Seek service

## List of Parameters:

Function code	Name	Descriptions	Unit	Factory setting	Modif	Setting range
		Group A0: Basic operating pa	rameters			
A0.00	User password	0: No password protection. Others:Password protection.	1	0	0	0~FFFF
A0.01	Control mode	0~1: reserved 2: V/F control	1	0	×	0~2
A0.02	Main reference frequency selector	0: Digital setting in A0.03 1: AI 2: Reserved 3:Potentiometer	1	3	0	0~5

Function code	Name	Descriptions	Unit	Factory setting	Modif	Setting range
A0.03	Set the operating frequency in digital	A0.11~A0.10	0.01 Hz	50.00	0	0~3000
A0.04	mode Methods of inputtingoperating	0: Panel control 1: Terminal control	1	0	0	0~2
A0.05	commands Set running	2: Communication control 0: Forward	1	0	0	0~1
A0.06	direction Acc time 1	1: Reverse 0.0~6000.0	0.1s	6.0s	0	0~60000
A0.00	Dec time 1	0.0~6000.0	0.1s	6.0s	0	0~60000
A0.08	Max. output	50Hz~ 300.00Hz	0.01Hz	50.00	×	0~30000
A0.09	frequency Max. output voltage	0~480	1V	VFD's rated	×	0~480
A0.10	Upper limit of	A0.11~A0.08	0.01Hz	values 50.00	0	0~30000
A0.11	frequency Lower limit of frequency	0.00~A0.10	0.01Hz	0.00	0	0~30000
A0.12	Basic operating frequency	0.00~300.00Hz	0.01Hz	50.00	0	0~30000
A0.13	Torque boost	0.0%(Auto),0.1%~30.0%	0.1%	0.0%	0	0~300
	r	Group A1: Start and stop par		I	1	I
A1.00	Starting mode	0: Start from the starting frequency 1: Brake first and then start 2: Reserved	1	0	×	0~2
A1.01	Starting frequency	0.00~60.00Hz	0.01Hz	0.00Hz	0	0~6000
A1.02	Holding time of starting frequency	0.00~10.00s	0.01s	0.00s	0	0~1000
A1.03	DC injection braking current at	0.0%~100.0% drive's rated current	0.1%	0.0%	0	0~1000
A1.04	start DC injection braking time at start	0.00 (No action) 0.01~30.00s	0.01s	0.00s	0	0~3000
A1.05	Stopping mode	0: Dec-to-stop 1: Coast-to-stop 2: Dec-to-stop+DC injection braking	1	0	×	0~2
A1.06	DC injection braking initial frequency at stop	0.00~60.00Hz	0.01Hz	0.00Hz	0	0~6000
A1.07	Injection braking waiting time at stop	0.00~10.00s	0.01s	0.00s	0	0~1000
A1.08	DC injection braking current at stop	0.0%~100.0% drive's rated current	0.1%	0.0%	0	0~1000
A1.09	DC injection braking time at stop	0.0 (No action) 0.01~30.00s	0.01s	0.00s	0	0~3000
A1.10	Restart after power failure	0:Disable 1:Enable	1	0	×	0~1
A1.11	Delay time for restart after power failure	0.0~10.0s	0.1s	0.0s	0	0~100
A1.12	Anti-reverse running function	0: Disabled 1: Enabled (It will operate at zero frequency when	1	0	×	0~1
A1.13	Delay time of run reverse/ forward	input a reverse command) 0.00~360.00s	0.01s	0.00s	0	0~36000
A1.14	Switch mode of run reverse/	0: Switch when pass 0Hz 1: Switch when pass	1	0	×	0~1
A1.15	forward (Reserved) Detecting	starting frequency 0.00~150.00Hz	0.01Hz	0.10Hz	×	0~15000
A1.16	frequency of stop Reserved				L	
A2.00	Auxiliary reference frequency selector	Group A2: Frequency se 0: No auxiliary reference frequency 1: AI	tting 1	0	0	0~5
A2.01	Main and auxiliary reference frequency calculation	5: Output by PID process 0: + 1: - 2: MAX (Main reference, Auxiliary reference) 3: MIN (Main reference, Auxiliary reference)	1	0	0	0~3
A2.02	UP/DN rate	0.01~99.99Hz/s	0.01	1.00	0	1~9999
A2.03	UP/DN regulating control	Unit's place of LED: 0:Save reference frequency upon power outage 1:Not save reference frequency upon power outage. Ten's place of LED: 0:Hold reference frequency at stop 1:Clear reference frequency at stop Hundred's place of LED:	1	00	0	0~11H

Function code	Name	Descriptions	Unit	Factory setting	Modif	Setting range
		0:UP/DN integral time valid 1:UP/DN speed value				
A2.04	Jog operating	0.10~50.00Hz	0.01Hz	5.00	0	10~5000
A2.05	frequency Interval of Jog	0.0~100.0s	0.1s	0.0	0	0~1000
	operation		0.13	0.0	Ŭ	01000
A2.06 A2.07	Skip frequency 1 Range of skip	0.00~300.00Hz 0.00~30.00Hz	0.01Hz 0.01Hz	0.00	×	0~30000
A2.07	frequency 1	0.00~30.00112	0.01112	0.00	^	0~3000
A2.08 A2.09	Skip frequency 2 Range of skip	0.00~300.00Hz 0.00~30.00Hz	0.01Hz 0.01Hz	0.00	×	0~30000
A2.09	frequency	0.00~30.00Hz	0.01Hz	0.00	~	0~3000
A2.10 A2.11	Skip frequency 3	0.00~300.00Hz 0.00~30.00Hz	0.01Hz	0.00	×	0~30000
A2.11	Range of skip frequency 3	0.00~30.00Hz	0.01Hz	0.00	×	0~3000
12.00	D.C	Group A3:Setting cur			r	
A3.00	Reference frequency	LED unit's place: AI curve selection	1	3330	0	0~3333H
	curve selection	0: Curve 1				
		1: Curve 2 2: Curve 3				
		3: Curve 4				
A3.01	Max reference of curve 1	A3.03~110.00%	0.01%	100.00%	0	0~11000
A3.02	Actual value	Reference frequency:	0.01%	100.00%	0	0~10000
	Corresponding to the Max reference	0.0~100.00% Fmax Torque: 0.0~300.00% Te				
	of curve 1	*				
A3.03	Min reference of curve 1	0.0%~A3.01	0.01%	0.00%	0	0~11000
A3.04	Actual value	The same as A3.02	0.01%	0.00%	0	0~10000
	Corresponding to the Min reference					
	of curve 1					
A3.05	Max reference of curve 2	A3.07~110.00%	0.01%	100.00%	0	0~11000
A3.06	Actual value	The same as A3.02	0.01%	100.00%	0	0~10000
	corresponding to the Max reference					
	of curve 2					
A3.07	Min reference of	0.0%~A3.05	0.01%	0.00%	0	0~11000
A3.08	curve 2 Actual value	The same as A3.02	0.01%	0.00%	0	0~10000
	Corresponding to					
	the Min reference of curve 2					
A3.09	Max reference of	A3.11~110.00%	0.01%	100.00%	0	0~11000
A3.10	curve 3 Actual value	The same as A3.02	0.01%	100.00%	0	0~10000
10.10	Corresponding to	The sume as 113.02	0.0170	100.0070		0 10000
	the Max reference of curve 3					
A3.11	Min reference of	0.0%~A3.09	0.01%	0.00%	0	0~11000
A3.12	curve 3 Actual value	The same as A3.02	0.01%	0.00%	0	0~10000
A5.12	corresponding to	The same as A5.02	0.01%	0.00%	0	0~10000
	the Min reference					
A3.13	of curve 3 Max reference of	A3.15~110.00%	0.01%	100.00%	0	0~11000
A3.14	curve 4	TI 42.00	0.010/	100.000		0.10000
A3.14	Actual value corresponding to	The same as A3.02	0.01%	100.00%	0	0~10000
	the Max reference					
A3.15	of curve 4 Reference of	A3.17~A3.13	0.01%	100.00%	0	0~11000
	inflection point 2					
A3.16	of curve 4 Actual value	The same as A3.02	0.01%	100.00%	0	0~10000
	corresponding to					
	the Min reference of inflection point					
	2 of curve 4					
A3.17	Reference of inflection point 1	A3.19~A3.15	0.01%	0.00%	0	0~11000
	of curve 4				L	
A3.18	Actual value corresponding to	The same as A3.02	0.01%	0.00%	0	0~10000
	the Min reference					
	of inflection point 1 of curve 4					
A3.19	Min reference of	0.0%~A3.17	0.01%	0.00%	0	0~11000
12 20	curve 4	The same as A2.00	0.01%	0.000/		0.10000
A3.20	Actual value corresponding to	The same as A3.02	0.01%	0.00%	0	0~10000
	the Min reference					
	of curve 4	Group A4: Acc/Dec para	meters	1	L	l
	A (D m - d-	0: Linear Acc/Dec	1	0	×	0~1
A4.00	Acc/Dec mode			-		
A4.00 A4.01	Acc time 2	1: S Curve 0.0~6000.0	0.1 s	20.0 s	0	0~60000

				~		a .
Function code	Name	Descriptions	Unit	Factory setting	Modif	Setting range
A4.04	Dec time 3	0.0~6000.0	0.1 s	20.0 s	0	0~60000
A4.05	Acc time 4	0.0~6000.0	0.1 s	20.0 s	0	0~60000
A4.06	Dec time 4	0.0~6000.0	0.1 s	20.0 s	0	0~60000
A4.07	S curve acceleration	10.0%~50.0%(Acc time) A4.07+ A4.08<90%	0.1%	20.0%	0	100~500
	starting time	11100 11100_000				
A4.08	S curve acceleration ending	10.0%~70.0%(Acc time) A4.07+ A4.08≤90%	0.1%	20.0%	0	100~800
	time	A4.07   A4.08_9070				
A4.09	S curve	10.0%~50.0%(Dec time)	0.1%	20.0%	0	100~500
	deceleration starting time	A4.09+ A4.10≤90%				
A4.10	S curve	10.0%~70.0%(Dec time)	0.1%	20.0%	0	100~800
	deceleration	A4.09+ A4.10≤90%				
A4.11	ending time Quick start-stop	0: Disable	1	2	×	0~3
A4.11	selector	1: Quick start, normal stop	1	2	~	0~3
		2: Normal start, quick stop				
4.4.10	Gr. ACD D	3: Quick start,quick stop	0.1	20.0		1.2000
A4.12 A4.13	Start ACR-P Start ACR-I	0.1~200.0 0.000~10.000s	0.1 0.001 s	20.0 0.200s	0	1~2000 0~10000
A4.14	Start AVR-P	0.1~200.0	0.001 3	20.0	0	1~2000
A4.15	Start AVR-I	0.000~10.000s	0.001 s	0.200s	0	0~10000
A4.16	Stop ACR-P	0.1~200.0	0.1	20.0	0	1~2000
A4.17	Stop ACR-I Stop AVR-P	0.000~10.000s	0.001 s	0.200s	0	0~10000 1~2000
A4.18 A4.19	Stop AVR-P Stop AVR-I	0.1~200.0 0.000~10.000s	0.1 0.001 s	20.0 0.200s	0	0~10000
A4.20	Over	0: disable	1	0	×	0~1
	Commtatation Stop	1:enable				
A4.21	ACC/DEC time coefficient	0:ACC/DEC time $\times 1$	1	0	×	0~1
A4.22	ACC/DEC time	1: ACC/DEC time ×0.1 0.00~300.00Hz	0.01Hz	0.00Hz	×	0~30000
	1/2 switch freq.	Select ACC/DEC time 2	0.01112	0.00112		0 20000
		when output freq. is less				
A4.23~	Reserved	than A4.22 Reserved	1	0	0	0~65535
A4.40	Reserveu	Reserved	1	0	0	0~05555
		Group A5: reserved				
		roup A6: Control terminals p	arameters		r	
A6.00~ A6.03	Multi-function terminal X1~X4	0: No function1:Forward 2: Reverse	1	0	×	0~54
A0.05	terminai A1~A4	3: Forward jog operation				
		4: Reverse jog operation				
		5: 3-wire operation control				
		6: External RESET signal				
		input				
		<ol> <li>7: External fault signal input</li> </ol>				
		8: External interrupt signal				
		input				
		9: Drive operation prohibit				
		10: External stop command 11: DC injection braking				
		command				
		12: Coast to stop				
		13: Frequency ramp up				
		(UP) 14: Frequency ramp down				
		(DN)				
		15: Switch to panel control				
		16: Switch to terminal control				
		17: Switch to				
		communication control				
		mode				
		18: Main reference				
		frequency via AI 27: Preset frequency 1				
		28: Preset frequency 2				
		29: Preset frequency 3				
		30: Preset frequency 4				
		31: Acc/Dec time 1 32: Acc/Dec time 2				
		33: Multiple close-loop				
		reference selection 1				
		34: Multiple close-loop				
		reference selection 2 35: Multiple close-loop				
		reference selection 3				
		36: Multiple close-loop				
		reference selection 4				
		<ul><li>37: Forward prohibit</li><li>38: Reverse prohibit</li></ul>				
		38: Reverse prohibit 39: Acc/Dec prohibit				
		40: Process close-loop				
		prohibit 42) Main fraguency switch				
		42: Main frequency switch to digital setting				
		43: PLC pause				
		44: PLC prohibit				
		45: PLC stop memory clear 46: Swing input				
		46: Swing input 47: Swing reset				
	ı		1	1		

N <sup>7</sup>	9						
Name	Descriptions	Unit	Factory setting	Modif	Setting range		
	48~49:Reserved 50: Timer 1 start 51: Timer 2 start 53: Counter input 54: Counter clear Others: Reserved						
reserved							
Ferminal filter Ferminal control node selection	0~500ms 0:2-wire operating mode 1 1:2-wire operating mode 2 2:3-wire operating mode 1 2:2-wire operating mode 1	1	10 0	o ×	0~500 0~3		
reserved	3:3-wire operation mode 2 4:2-wire operation mode 3						
nput terminal's positive and negative logic	Binary setting 0: Positive logic: Terminal Xi is enabled if it is connected to corresponding common terminal, and disabled if it is disconnected. 1: Negative logic: Terminal Xi is disabled if it is connected to corresponding common terminal, and enabled is it is disconnected. Unit's place of LED: BIT0~BIT3: X1~X4	1	00	0	0~FFH		
reserved	B110~B113. A1~A4	1	0	×	0~50		
Dutput functions of elay R1	0: Running signal(RUN) 1: frequency arriving signal(FAR) 2: frequency detection threshold (FDT1) 3: frequency detection threshold (FDT2) 4: overload signal(OL) 5: low voltage signal (LU) 6: external fault signal (EXT) 7: frequency high limit (FHL) 8: frequency low limit (FHL) 9: zero-speed running 10~11: Reserved 12: PLC running step complete signal 13: PLC running tep complete signal 13: PLC running step complete signal 14: Swing limit 15: Drive ready (RDY) 16: Drive fault 17: Switching signal of host 19: Torque limiting 20: Drive running forward/reverse 21: Timer 1 reach 22: Timer 2 reach 23: Preset counter reach 24: Intermediate counter reach	1	15	×	0~50		
Dutput terminal's positive and negative logic	Binary setting: 0: Terminal is enabled if it is connected to correspond common terminal, and disabled if it is disconnected.	1	0	0	0~1FH		
	1: Terminal is disabled if it is connected to corresponding common terminal, and enable if it is disconnected. Unit's place of LED: BIT2: R1 Ten's place of LED:						
Frequency arriving	is connected to corresponding common terminal, and enable if it is disconnected. Unit's place of LED: BIT2: R1	0.01Hz	2.50Hz	0	0~3000		
<sup>2</sup> requency artiving ignal (FAR) <sup>2</sup> DT1 level	is connected to corresponding common terminal, and enable if it is disconnected. Unit's place of LED: BIT2: R1 Ten's place of LED: Reserved	0.01Hz 0.01Hz	2.50Hz 50.00Hz	0	0~3000		
signal (FAR)	is connected to corresponding common terminal, and enable if it is disconnected. Unit's place of LED: BIT2: R1 Ten's place of LED: <u>Reserved</u> 0.00~300.00Hz						
	ositive and	(EXT)         7: frequency high limit         (FHL)         8: frequency low limit         (FLL)         9: zero-speed running         10~11: Reserved         12: PLC running step         complete signal         13: PLC running cycle         complete signal         14: Swing limit         15: Drive ready (RDY)         16: Drive fault         17: Switching signal of         host         19: Torque limiting         20: Drive running         forward/reverse         21: Timer 1 reach         22: Timer 2 reach         23: Preset counter reach         24: Intermediate counter         reach         Others: Reserved         Dutput terminal's         is connected to correspond         common terminal, and         disabled if it is         disconnected.	(EXT)         7: frequency high limit         (FHL)         8: frequency low limit         (FLL)         9: zero-speed running         10-11: Reserved         12: PLC running step         complete signal         13: PLC running cycle         complete signal         14: Swing limit         15: Drive ready (RDY)         16: Drive fault         17: Switching signal of         host         19: Torque limiting         20: Drive running         forward/reverse         21: Timer 1 reach         22: Timer 2 reach         23: Preset counter reach         24: Intermediate counter         reach         Others: Reserved         Dutput terminal's         Binary setting:         0: Terminal is enabled if it         is connected to correspond         common terminal, and         disabled if it is         disabled if it is	(EXT)         7: frequency high limit         (FHL)         8: frequency low limit         (FLL)         9: zero-speed running         10-11: Reserved         12: PLC running step         complete signal         13: PLC running cycle         complete signal         14: Swing limit         15: Drive ready (RDY)         16: Drive fault         17: Switching signal of         host         19: Torque limiting         20: Drive running         forward/reverse         21: Timer 1 reach         23: Preset counter reach         24: Intermediate counter         reach         Others: Reserved         Dutput terminal's         positive and         is connected to correspond         common terminal, and         disabled if it is         disabled if it is	(EXT)         7: frequency high limit (FHL)         8: frequency low limit (FLL)         9: zero-speed running 10-11: Reserved         12: PLC running step complete signal         13: PLC running cycle complete signal         14: Swing limit         15: Drive ready (RDY)         16: Drive fault         17: Switching signal of host         19: Torque limiting         20: Drive running forward/reverse         21: Timer 1 reach         23: Preset counter reach         24: Intermediate counter reach         Others: Reserved         Dutput terminal's ositive and legative logic       0: Terminal is enabled if it is connected.         1: Terminal is disabled if it		

Function code	Name	Descriptions	Unit	Factory setting	Modif	Setting range
couc		BIT0~BIT3: X1~X4 Ten's place of LED:		setting		Tunge
A6.28~	reserved	Reserved				
A6.43						
A6.44	Setting value of timer 1	0.0~10.0s	0.1s	0.0	0	1~100
A6.45	Setting value of timer 2	0~100s	1s	0	0	1~100
A6.46	Target value of counter	0~65535	1	100	0	0~65535
A6.47	Intermediate value of counter	0~65535	1	50	0	0~65535
A6.48~	Reserved	Reserved	1	50	0	0~65535
A6.49 A6.50	Multi-speed terminal switching	0~500	1	300	0	0~65535
A6.51~	time Reserved	-	1	0	0	0~65535
A6.60		Group A8: Fault parame	ters			
A8.00	Protective action of relay	Action selection for under- voltage fault indication. 0:Disable; 1: Enable Ten's place of LED: Action selection for auto reset interval fault indication. 0:Disable 1: Enable Hundred's place of LED: Selection for fault locked function. 0:Disable; 1: Enable Thousand's place of LED:	1	0000	×	0~1111H
A8.01	Fault masking selection 1	Reserved Unit's place of LED: Communication fault masking selection Ten's place of LED: Relay faultmasking selection Hundred's place of LED: EEPROM fault masking selection Thousand's place of LED: Reserved O:Disable.Stop when fault happen 1:Disable.Continue operating when fault happen 2:Enable	1	2000	×	0~2222H
A8.02	Fault masking selection 2	Unit's place of LED: Open phase fault masking selection for input Ten's place of LED: Open phase fault masking selection for output	1	00	×	0~22H
A8.03	Motor overload protection mode selection	0: Disabled 1:Common mode(with low speed compensation) 2: Variable frequency motor (without low speed	1	1	×	0~2
A8.04	Auto reset times	compensation) 0: No function 1~100: Auto reset times Note: The IGBT protection (E010) and external equipment fault (E015) cannot be reset automatically.	1	0	×	0~100
A8.05	Reset interval	2.0~20.0s/time	0.1s	5.0s	×	20~200
A8.06	Fault locking function selection.	0:Disable. 1: Enable.	1	0	×	0~1
b0.00	Rated power	Group b0:Motor paramet 0.4~999.9KW	0.1	0	×	4~9999
b0.01	Rated voltage	0~ rated voltage of drive	1	0	×	0~999
b0.02	Rated current	0.1~999.9A	0.1A	Depend on drive's model	×	1~9999
b0.03	Rated frequency	1.00~1000.00Hz	0.01Hz	Depend on drive's model	×	100~ 30000
b0.04	Number of polarities of motor	2~24	1	4	×	2~24
b0.05	Rated speed	0~60000RPM	1RPM	1440 RPM	×	0~60000
b0.06	Resistance of stator %R1	0.00%~50.00%	0.01%	Depend on drive's model	×	0~5000

Function code	Name	Descriptions	Unit	Factory setting	Modif	Setting range
b0.07	Leakage	0.00%~50.00%	0.01%	Depend	×	0~5000
	inductance %X1		1	on drive's		
				model		
b0.08	Resistance of rotor %R2	0.00%~50.00%	0.01%	Depend	×	0~5000
	rotor %R2			on drive's		
		0.000.000		model		
b0.09	Exciting inductance %Xm	0.0%~2000.0%	0.1%	Depend on	×	0~20000
				drive's		
b0.10	Current without	0.1~999.9A	0.1A	model Depend	×	1~9999
00.10	load I0	0.1-999.9A	0.14	on	^	1,,,,,
				drive's		
b0.11	Auto-tuning	0: Auto-tuning is disabled	1	model 0	×	0~3
		1: Stationary auto-tuning				
		(Start auto-tuning to a standstill motor)				
		2: Rotating auto-tuning				
b0.12	Motor's overload Protectionn	20.0%~110.0%	0.1%	100.0%	×	200~ 1100
	coefficient					1100
b0.13	Oscillation	0~255	1	10	0	0~255
	inhibition coefficient					
	coomerciat	Group b1:V/F parameter	ers			
b1.00	V/F curve setting	0: V/F curve is defined by user	1	0	×	0~3
		1: 2-order curve				
		2: 1.7-order curve				
b1.01	V/F frequency	3: 1.2-order curve B1.03~A0.08	0.01Hz	0.00Hz	×	0~30000
01.01	value F3	B1.05~A0.00	0.01112	0.00112	^	0-50000
b1.02	V/F voltage value	B1.04~100.0%	0.1%	0.0%	×	0~1000
b1.03	V3 V/F frequency	B1.05~B1.01	0.01Hz	0.00Hz	×	0~30000
	value F2					
b1.04	V/F voltage value V2	B1.06~B1.02	0.1%	0.0%	×	0~1000
b1.05	V/F frequency	0.00~B1.03	0.01Hz	0.00Hz	×	0~30000
b1.06	value F1 V/F voltage value	0~B1.04	0.1%	0.0%	×	0~1000
01.00	V1 Voltage value	0~B1.04	0.1%	0.0%	^	0~1000
b1.07	Cut-off point used	0.0%~50.0%	0.1%	10.0%	0	0~500
	for manual torque boost	(Corresponding to A0.12)				
b1.08	AVR function	0: Disable	1	2	×	0~2
		1: Enable all the time 2: Disabled in Dec process				
b1.09	VF Output voltage	0: no function	1	0	×	0~3
	selection	1: AI				
b1.10	VF Output voltage offset selection	0: no function 1: AI	1	0	×	0~3
	sinser selection	Group b2:Enhanced paran	neters			
b2.00	Carrier wave	2.0~60KHz	0.1	6.0	0	20~150
b2.01	frequency Auto adjusting of	0: Disable	1	1	0	0~1
	CWF	1: Enable				-
b2.02	Voltage adjustment selection	Unit's place of LED: Over-voltage at stall	1	001	×	0~111H
	selection	Selection				
		0: Disable(When install				
		brake resistor) 1: Enable				
		Ten's place of LED:				
		Not stop when instantaneous stop function selection				
		0: Disable				
		1: Enable(Low voltage				
		compensation) Hundred's place of LED:				
		Overmodulation selection				
		0: Disable				
b2.03	Overvoltage point	1: Enable 120.0%~150.0%Udce	0.1%	140.0%	×	1200~
	at stall					1500
b2.04 b2.05	Droop control Auto current	0: Disable0.01~10.00Hz 20.0%~200.0%Ie	0.01 0.1%	0.00Hz 150.0%	o ×	0~1000 200~
02.03	limiting threshold	20.070-200.07018	0.1%	130.0%	~	200~ 2000
b2.06	Frequency	0.00~99.99Hz/s	0.01Hz/s	10.00	0	0~9999
	decrease rate when current limiting			Hz/s		
b2.07	Auto current	0:Invalid at constant speed	1	1	×	0~1
	limiting	1:Valid at constant speed				
	selection	Note: It is valid all the time at				
		Acc/Dec				
b2.08	Gain of Slip compensation	0.0~300.0%	0.1%	100.0%	0	0~3000
b2.09	Slip compensation	0.0~250.0%	0.1%	200.0%	0	0~2500
	limit					
-			_		_	

Function	Name	Descriptions	Unit	Factory	Modif	Setting
code b2.10	Slip compensation	0.1~25.0s	0.1s	setting 2.0s	0	range 0~250
	time constant					
b2.11	auto energy-saving function	0: Disable 1: Enable	1	0	×	0~1
b2.12	Frequency	0.00~99.99Hz/s	0.01Hz/s	10.00	0	0~9999
	decrease rate at voltage			Hz/s		
b2.13	compensation	0.00~300.00Hz	0.0111-	0.5011-		0.20000
02.15	Zero-frequency Operation	0.00~300.00Hz	0.01Hz	0.50Hz	0	0~30000
b2.14	threshold Zero-frequency	0.00~300.00Hz	0.01Hz	0.00Hz	0	0~30000
02.14	Hysteresis	0.00~500.00112	0.01112	0.00112	0	0~30000
b2.15	(Reserved) Fan control	0: Auto operation mode	1	0	×	0~1
02.15	r un control	1: Fan operate	1	0	~	0 1
		continuously when power is on				
		Note: 1.Continue to operate				
		for 3 minutes Group b3:Communication par	rameter			
b3.00	Communication	Unit's place of LED:	1	001	×	0~155H
	configuration	Baud rate selection 0:4800BPS				
		1:9600BPS				
		2:19200BPS Ten's place of LED:				
		Data format				
		0:1-8-2-N format,RTU 1:1-8-1-E format,RTU				
		2:1-8-1-O format, RTU Hundred's place of LED:				
		wiring mode				
		0:Direct connection via cable (RS232/485)				
		1: MODEM (RS232)				
b3.01	Local address	0~127, 0 is the broadcasting address	1	5	×	0~127
b3.02	Time threshold for	0.0~1000.0s	0.1	0.0s	×	0~10000
	judgingthe communication					
	status					
b3.03	Delay for responding to	0~1000ms	1	5ms	×	0~1000
	control PC					
b4.00	Key-lock function	Group b4:Keyboard param 0:The keys on the	eters 1	0	0	0~4
	selection	operation panel are not				
		locked, and all the keys are usable.				
		1:The keys on the				
		operation panel are locked, and all the keys are				
		unusable. 2: All the keys except for				
		the multi-functional key				
		are unusable. 3: All the keys except for				
		the SHIFT key are				
		unusable. 4:All the keys except for				
		the <b>RUN</b> AND <b>STOP</b> keys are unusable.				
b4.01	Multi-function key	Reserved	1	4	0	0~5
b4.02	definition Parameter	0: All parameters are	1	1	0	0~2
04.02	protection	allowed modifying;	1	1	0	0~2
		1: Only A0.03 and b4.02 can be modified;				
		2: Only b4.02 can be				
b4.03	Parameter	modified. 0: No operation	1	0	×	0~2
	initialization	1: Clear fault information		v		
		in memory 2: Restore to factory				
14.94	D	settings				0.0
b4.04	Parameter copy	0: No action 1: parameters upload	1	0	×	0~3
		2: parameters download				
		3: parameters download (except the parameters				
		related to drive type) Note: Not to upload/				
		download drive's				
b4.05	Display parameters	parameters. Binary setting:	1	1007H	0	0~
04.00	selection	BIT1:Operating	1	100/П		0~ 7FFFH
		0: No display 1: Display				
		Unit's place of LED:				
		BIT0: Output frequency (No display at stop.Display				
		power frequency at energy				
		feedback mode)			1	

		13				
Function	. Y			Factory		Setting
code	Name	Descriptions	Unit	setting	Modif	range
		BIT1:Setting frequency				
		(Flicking.No display at energy feedback mode)				
		BIT2:Output current				
		(No display at stop.Display				
		power frequency at energy				
		feedback mode)				
		BIT3:Output voltage				
		(No display at stop.Display power frequency at energy				
		feedback mode)				
		Ten's place of LED:				
		BIT0: AI				
		BIT3: DI terminal status				
		Hundred's place of LED:				
		BIT0:Output power (No display at stop and				
		energy feedback mode)				
		BIT1:Output torque				
		(No display at stop and				
		energy feedback mode)				
		BIT2:Analog close-loop feedback(%)				
		(No display at feedback				
		mode)				
		BIT3:Analog close-loop				
		setting(%)				
		(Flicking, no display at				
		feedback mode) Thousand's place of LED:				
		BIT0:Bus voltage				
		BIT1:Speed(R/MIN)				
		(No display at feedback				
		mode)				
		BIT2:Setting speed(R/MIN)				
		(Flicking, no display at feedback mode)				
		Note:				
		If all the BITs are 0,the				
		drive will display setting				
		frequency at stop, display				
		output frequency at				
		operating and display bus voltage at energy feedback				
		mode.				
b4.06	Linear speed ratio	0.00~99.99	0.01	1.00	0	0~9999
b4.07	Speed ratio	0.000~30.000	0.001	1.000	0	0~30000
b4.08~	Reserved	Reserved	1	0	0	0~65535
b4.09						
	<b>C</b> . (	0. 65525		0		0 65505
b4.10	Customer	0~65535 0:Not valid	1	0	×	0~65535
	Customer parameter initialization	0~65535 0:Not valid	1	0	×	0~65535
	parameter		1	0	× 0	0~65535
b4.10 b4.11~ b4.15	parameter initialization Reserved	0:Not valid Reserved				0~65535
b4.10 b4.11~	parameter initialization Reserved Standard/high	0:Not valid Reserved 0: Standard (0-300HZ)				
b4.10 b4.11~ b4.15	parameter initialization Reserved Standard/high frequency	0:Not valid Reserved 0: Standard (0-300HZ) 1: high frequency	1	0	0	0~65535
b4.10 b4.11~ b4.15 b4.16	parameter initialization Reserved Standard/high frequency switching	0:Not valid Reserved 0: Standard (0-300HZ) 1: high frequency (0-3000HZ)	1	0	0	0~65535
b4.10 b4.11~ b4.15 b4.16 b4.17~	parameter initialization Reserved Standard/high frequency	0:Not valid Reserved 0: Standard (0-300HZ) 1: high frequency	1	0	0	0~65535
b4.10 b4.11~ b4.15 b4.16	parameter initialization Reserved Standard/high frequency switching	0:Not valid Reserved 0: Standard (0-300HZ) 1: high frequency (0-3000HZ)	1 0 -	0	0	0~65535
b4.10 b4.11~ b4.15 b4.16 b4.17~	parameter initialization Reserved Standard/high frequency switching Reserved Multi-speed from	0:Not valid Reserved 0: Standard (0-300HZ) 1: high frequency (0-3000HZ) Reserved Group C0:Multi-section para Lower limit of frequency~	1 0 -	0	0	0~65535
b4.10 b4.11~ b4.15 b4.16 b4.17~ b4.20	parameter initialization Reserved Standard/high frequency switching Reserved	0:Not valid Reserved 0: Standard (0-300HZ) 1: high frequency (0-3000HZ) Reserved Group C0:Multi-section para Lower limit of frequency~ upper limit of frequency	1 0 ameters 0.01Hz	0	0 × -	0~65535 0~1 -
b4.10 b4.11~ b4.15 b4.16 b4.17~ b4.20 C0.00~ C0.14	parameter initialization Reserved Standard/high frequency switching Reserved Multi-speed from 1~15	0:Not valid Reserved 0: Standard (0-300HZ) 1: high frequency (0-3000HZ) Reserved Group C0:Multi-section para Lower limit of frequency~ upper limit of frequency Group C1:Process PID para	1 0 ameters 0.01Hz meters	0 0 - 5.00Hz	0 X -	0~65535 0~1 - 0~30000
b4.10 b4.11~ b4.15 b4.16 b4.17~ b4.20 C0.00~	parameter initialization Reserved Standard/high frequency switching Reserved Multi-speed from 1~15 Close-loop control	0:Not valid Reserved 0: Standard (0-300HZ) 1: high frequency (0-3000HZ) Reserved Group C0:Multi-section para Lower limit of frequency~ upper limit of frequency	1 0 ameters 0.01Hz	0	0 × -	0~65535 0~1 -
b4.10 b4.11~ b4.15 b4.16 b4.17~ b4.20 C0.00~ C0.14 C1.00	parameter initialization Reserved Standard/high frequency switching Reserved Multi-speed from 1~15 Close-loop control function	0:Not valid Reserved 0: Standard (0-300HZ) 1: high frequency (0-3000HZ) Reserved Group C0:Multi-section para Lower limit of frequency~ upper limit of frequency Group C1:Process PID para 0: Disable1: Enable	1 0 ameters 0.01Hz meters	0 0 - 5.00Hz	0 X -	0~65535 0~1 - 0~30000
b4.10 b4.11~ b4.15 b4.16 b4.17~ b4.20 C0.00~ C0.14	parameter initialization Reserved Standard/high frequency switching Reserved Multi-speed from 1~15 Close-loop control	0:Not valid Reserved 0: Standard (0-300HZ) 1: high frequency (0-3000HZ) Reserved Group C0:Multi-section para Lower limit of frequency~ upper limit of frequency Group C1:Process PID para	1 0 ameters 0.01Hz meters 1	0 0 - 5.00Hz 0	0 × - 0 ×	0~65535 0~1 - 0~30000 0~1
b4.10 b4.11~ b4.15 b4.16 b4.17~ b4.20 C0.00~ C0.14 C1.00	parameter initialization Reserved Standard/high frequency switching Reserved Multi-speed from 1~15 Close-loop control function Reference channel	0:Not valid Reserved 0: Standard (0-300HZ) 1: high frequency (0-3000HZ) Reserved Group C0:Multi-section para Lower limit of frequency~ upper limit of frequency Group C1:Process PID para 0: Disable1: Enable 0: Digital input	1 0 ameters 0.01Hz meters 1	0 0 - 5.00Hz 0	0 × - 0 ×	0~65535 0~1 - 0~30000 0~1
b4.10 b4.11~ b4.15 b4.16 b4.17~ b4.20 C0.00~ C0.14 C1.00 C1.01 C1.02	parameter initialization Reserved Standard/high frequency switching Reserved Multi-speed from 1~15 Close-loop control function Reference channel selection Feedback channel selection	0:Not valid Reserved 0: Standard (0-300HZ) 1: high frequency (0-3000HZ) Reserved Group C0:Multi-section para Lower limit of frequency~ upper limit of frequency Group C1:Process PID para 0: Disable1: Enable 0: Digital input 1: AI 0: AI	1 0 ameters 0.01Hz meters 1 1 1	0 0 5.00Hz 0 1 0	0 X - 0 X 0	0~65535 0~1 - 0~30000 0~1 0~3 0 0
b4.10 b4.11~ b4.15 b4.16 b4.17~ b4.20 C0.00~ C0.14 C1.00 C1.01	parameter initialization Reserved Standard/high frequency switching Reserved Multi-speed from 1~15 Close-loop control function Reference channel selection Feedback channel selection Digital setting of	0:Not valid Reserved 0: Standard (0-300HZ) 1: high frequency (0-3000HZ) Reserved Group C0:Multi-section para Lower limit of frequency~ upper limit of frequency Group C1:Process PID para 0: Disable1: Enable 0: Digital input 1: AI	1 0 ameters 0.01Hz meters 1 1	0 0 5.00Hz 0 1	0 X - 0 X 0	0~65535 0~1 - 0~30000 0~1 0~3
b4.10 b4.11~ b4.15 b4.16 b4.17~ b4.20 C0.00~ C0.14 C1.00 C1.01 C1.02 C1.03	parameter initialization Reserved Standard/high frequency switching Reserved Multi-speed from 1~15 Close-loop control function Reference channel selection Feedback channel selection Digital setting of reference	0:Not valid Reserved 0: Standard (0-300HZ) 1: high frequency (0-3000HZ) Reserved Group C0:Multi-section para Lower limit of frequency~ upper limit of frequency Group C1:Process PID para 0: Disable1: Enable 0: Digital input 1: AI 0: AI -10.00V~10.00V	1 0 ameters 0.01Hz 1 1 0.01	0 0 5.00Hz 0 1 0 0 0.00	0           ×           -           0           ×           0           ×           0           ×           0           ×           0           ×           0	0~65535 0~1 - 0~30000 0~1 0~3 0 0 0~2000
b4.10 b4.11~ b4.15 b4.16 b4.17~ b4.20 C0.00~ C0.14 C1.00 C1.01 C1.02	parameter initialization Reserved Standard/high frequency switching Reserved Multi-speed from 1~15 Close-loop control function Reference channel selection Feedback channel selection Digital setting of	0:Not valid Reserved 0: Standard (0-300HZ) 1: high frequency (0-3000HZ) Reserved Group C0:Multi-section para Lower limit of frequency~ upper limit of frequency Group C1:Process PID para 0: Disable1: Enable 0: Digital input 1: AI 0: AI -10.00V~10.00V 0.0%~(C1.07)	1 0 ameters 0.01Hz meters 1 1 1	0 0 5.00Hz 0 1 0	0           ×           -           0           ×           0           ×           0	0~65535 0~1 - 0~30000 0~1 0~3 0 0
b4.10 b4.11~ b4.15 b4.16 b4.17~ b4.20 C0.00~ C0.14 C1.00 C1.01 C1.02 C1.03	parameter initialization Reserved Standard/high frequency switching Reserved Multi-speed from 1~15 Close-loop control function Reference channel selection Feedback channel selection Digital setting of reference	0:Not valid Reserved 0: Standard (0-300HZ) 1: high frequency (0-3000HZ) Reserved Group C0:Multi-section para Lower limit of frequency~ upper limit of frequency Group C1:Process PID para 0: Disable1: Enable 0: Digital input 1: AI 0: AI -10.00V~10.00V	1 0 ameters 0.01Hz 1 1 0.01	0 0 5.00Hz 0 1 0 0 0.00	0           ×           -           0           ×           0           ×           0           ×           0           ×           0           ×           0	0~65535 0~1 - 0~30000 0~1 0~3 0 0 0~2000
b4.10 b4.11~ b4.15 b4.16 b4.17~ b4.20 C0.00~ C0.14 C1.00 C1.01 C1.02 C1.03	parameter initialization Reserved Standard/high frequency switching Reserved Multi-speed from 1~15 Close-loop control function Reference channel selection Feedback channel selection Digital setting of reference	0:Not valid Reserved 0: Standard (0-300HZ) 1: high frequency (0-3000HZ) Reserved Group C0:Multi-section para Lower limit of frequency~ upper limit of frequency Group C1:Process PID para 0: Digital input 1: AI 0: AI -10.00V~10.00V 0.0%~(C1.07) (Ratio of Min reference to	1 0 ameters 0.01Hz 1 1 0.01	0 0 5.00Hz 0 1 0 0 0.00	0           ×           -           0           ×           0           ×           0           ×           0           ×           0           ×           0	0~65535 0~1 - 0~30000 0~1 0~3 0 0 0~2000
b4.10 b4.11~ b4.15 b4.16 b4.20 C0.00~ C0.14 C1.00 C1.01 C1.02 C1.03 C1.05	parameter initialization Reserved Standard/high frequency switching Reserved Multi-speed from 1~15 Close-loop control function Reference channel selection Feedback channel selection Digital setting of reference Min reference	0:Not valid Reserved 0: Standard (0-300HZ) 1: high frequency (0-3000HZ) Reserved Group C0:Multi-section para Lower limit of frequency~ upper limit of frequency~ Group C1:Process PID para 0: Disable1: Enable 0: Digital input 1: AI 0: AI -10.00V~10.00V 0.0%~(C1.07) (Ratio of Min reference to base value of10V/20mA) 0.0~100.0% (Ratio of Min reference to	1 0 1 0.01Hz meters 1 1 1 0.01 0.1%	0 0 5.00Hz 0 1 0 0.00 0.0%		0~65535 0~1 - 0~30000 0~1 0~3 0 0~2000 0~1000
b4.10 b4.11~ b4.15 b4.16 b4.17~ b4.20 C0.00~ C0.14 C1.00 C1.01 C1.02 C1.03 C1.05 C1.06	parameter initialization Reserved Standard/high frequency switching Reserved Multi-speed from 1~15 Close-loop control function Reference channel selection Feedback channel selection Digital setting of reference Min reference	0:Not valid Reserved 0: Standard (0-300HZ) 1: high frequency (0-3000HZ) Reserved Group C0:Multi-section para Lower limit of frequency~ upper limit of frequency Group C1:Process PID para 0: Disable1: Enable 0: Digital input 1: AI 0: AI -10.00V~10.00V 0.0%~(C1.07) (Ratio of Min reference to base value of 10V/20mA)	1 0 1 meters 0.01Hz meters 1 1 1 0.01 0.1%	0 0 5.00Hz 0 1 0 0.00 0.0%	0           ×           -           ×	0~65535 0~1 - 0~30000 0~1 0~3 0 0~2000 0~1000 0~1000
b4.10 b4.11~ b4.15 b4.16 b4.20 C0.00~ C0.14 C1.00 C1.01 C1.02 C1.03 C1.05	parameter initialization Reserved Standard/high frequency switching Reserved Multi-speed from 1~15 Close-loop control function Reference channel selection Feedback channel selection Digital setting of reference Min reference	0:Not valid Reserved 0: Standard (0-300HZ) 1: high frequency (0-3000HZ) Reserved Group C0:Multi-section para Lower limit of frequency- upper limit of frequency- upper limit of frequency- group C1:Process PID para 0: Digital input 1: AI 0: AI -10.00V~10.00V 0.0%~(C1.07) (Ratio of Min reference to base value of 10V/20mA) 0.0~100.0% (Ratio of Min reference to base value of 10V/20mA) (C1.05)~100.0%	1 0 1 0.01Hz meters 1 1 1 0.01 0.1%	0 0 5.00Hz 0 1 0 0.00 0.0%		0~65535 0~1 - 0~30000 0~1 0~3 0 0~2000 0~1000
b4.10 b4.11~ b4.15 b4.16 b4.17~ b4.20 C0.00~ C0.14 C1.00 C1.01 C1.02 C1.03 C1.05 C1.06	parameter initialization Reserved Standard/high frequency switching Reserved Multi-speed from 1~15 Close-loop control function Reference channel selection Feedback channel selection Digital setting of reference Min reference	0:Not valid Reserved 0: Standard (0-300HZ) 1: high frequency (0-3000HZ) Reserved Group C0:Multi-section para Lower limit of frequency~ upper limit of frequency~ upper limit of frequency~ upper limit of frequency Group C1:Process PID para 0: Disable1: Enable 0: Digital input 1: AI 0: AI -10.00V~10.00V 0.0%~(C1.07) (Ratio of Min reference to base value of 10V/20mA) 0.0~100.0% (Ratio of Min reference to base value of 10V/20mA) (C1.05)~100.0%	1 0 1 meters 0.01Hz meters 1 1 1 0.01 0.1%	0 0 5.00Hz 0 1 0 0.00 0.0%	0           ×           -           ×	0~65535 0~1 - 0~30000 0~1 0~3 0 0~2000 0~1000 0~1000
b4.10 b4.11~ b4.15 b4.16 b4.17~ b4.20 C0.00~ C0.14 C1.00 C1.01 C1.02 C1.03 C1.05 C1.06	parameter initialization Reserved Standard/high frequency switching Reserved Multi-speed from 1~15 Close-loop control function Reference channel selection Feedback channel selection Digital setting of reference Min reference	0:Not valid Reserved 0: Standard (0-300HZ) 1: high frequency (0-3000HZ) Reserved Group C0:Multi-section para Lower limit of frequency- upper limit of frequency- upper limit of frequency- group C1:Process PID para 0: Digital input 1: AI 0: AI -10.00V~10.00V 0.0%~(C1.07) (Ratio of Min reference to base value of 10V/20mA) 0.0~100.0% (Ratio of Min reference to base value of 10V/20mA) (C1.05)~100.0%	1 0 1 meters 0.01Hz meters 1 1 1 0.01 0.1%	0 0 5.00Hz 0 1 0 0.00 0.0%	0           ×           -           ×	0~65535 0~1 - 0~30000 0~1 0~3 0 0~2000 0~1000 0~1000
b4.10 b4.11~ b4.15 b4.16 b4.17~ b4.20 C0.00~ C0.14 C1.00 C1.01 C1.02 C1.03 C1.05 C1.06 C1.07	parameter initialization Reserved Standard/high frequency switching Reserved Multi-speed from 1~15 Close-loop control function Reference channel selection Feedback channel selection Digital setting of reference Min reference Min reference Min reference Max reference Feedback value corresponding to the Min reference	0:Not valid Reserved 0: Standard (0-300HZ) 1: high frequency (0-3000HZ) Reserved Group C0:Multi-section para Lower limit of frequency~ upper limit of frequency~ Group C1:Process PID para 0: Disable1: Enable 0: Digital input 1: AI 0: AI -10.00V~10.00V 0.0%~(C1.07) (Ratio of Min reference to base value of 10V/20mA) (C1.05)~100.0% (Ratio of Max reference to base value of 10V/20mA) (C1.05)~100.0%	1 0 ameters 0.01Hz neters 1 1 1 0.01 0.1% 0.1%	0 0 5.00Hz 0 1 0 0.0% 0.0% 0.0%	0           ×           -           0           ×           0           ×           0           ×           0           ×           0           ×           0           ×           0           ×           0           ×	0~65535 0~1 - 0~30000 0~1000 0~1000 0~1000
b4.10 b4.11~ b4.15 b4.16 b4.17~ b4.20 C0.00~ C0.14 C1.00 C1.01 C1.02 C1.03 C1.05 C1.06 C1.07 C1.08	parameter initialization Reserved Standard/high frequency switching Reserved Multi-speed from 1~15 Close-loop control function Reference channel selection Digital setting of reference Min reference Min reference Feedback value corresponding to the Min reference Feedback value	0:Not valid Reserved 0: Standard (0-300HZ) 1: high frequency (0-3000HZ) Reserved Group C0:Multi-section para Lower limit of frequency- upper limit of frequency- upper limit of frequency- group C1:Process PID para 0: Disable1: Enable 0: Digital input 1: AI 0: AI -10.00V~10.00V 0.0%~(C1.07) (Ratio of Min reference to base value of 10V/20mA) (C1.05)~100.0% (Ratio of Max reference to base value of 10V/20mA) 0.0~100% (Ratio of Max reference to base value of 10V/20mA) 0.0~100%	1 0 ameters 0.01Hz neters 1 1 1 0.01 0.1% 0.1%	0 0 5.00Hz 0 1 0 0.0% 0.0% 0.0%	0           ×           -           0           ×           0           ×           0           ×           0           ×           0           ×           0           ×           0           ×           0           ×	0~65535 0~1 - 0~30000 0~1000 0~1000 0~1000
b4.10 b4.11~ b4.15 b4.16 b4.17~ b4.20 C0.00~ C0.14 C1.00 C1.01 C1.02 C1.03 C1.05 C1.06 C1.07	parameter initialization Reserved Standard/high frequency switching Reserved Multi-speed from 1~15 Close-loop control function Reference channel selection Digital setting of reference Min reference Min reference Feedback value corresponding to the Min reference Max reference Feedback value	0:Not valid Reserved 0: Standard (0-300HZ) 1: high frequency (0-3000HZ) Reserved Group C0:Multi-section para Lower limit of frequency~ upper limit of frequency Group C1:Process PID para 0: Disable1: Enable 0: Digital input 1: AI 0: AI -10.00V~10.00V 0.0%~(C1.07) (Ratio of Min reference to base value of 10V/20mA) (C1.05)~100.0% (Ratio of Max reference to base value of 10V/20mA) (C1.05)~100.0% (Ratio of Max reference to base value of 10V/20mA) (C1.00% (Ratio of Max reference to base value of 10V/20mA)	1 0 ameters 0.01Hz neters 1 1 1 0.01 0.1% 0.1%	0 0 5.00Hz 0 1 0 0.0% 0.0% 0.0%	0           ×           -           0           ×           0           ×           0           ×           0           ×           0           ×           0           ×           0           ×           0           ×	0~65535 0~1 - 0~30000 0~1000 0~1000 0~1000
b4.10 b4.11~ b4.15 b4.16 b4.17~ b4.20 C0.00~ C0.14 C1.00 C1.01 C1.02 C1.03 C1.05 C1.06 C1.07 C1.08 C1.09	parameter initialization Reserved Standard/high frequency switching Reserved Multi-speed from 1~15 Close-loop control function Reference channel selection Feedback channel selection Digital setting of reference Min reference Feedback value corresponding to the Min reference Max reference Feedback value corresponding to the Max reference Proportional gain KP	0:Not valid Reserved 0: Standard (0-300HZ) 1: high frequency (0-3000HZ) Reserved Group C0:Multi-section para Lower limit of frequency~ upper limit of frequency~ Group C1:Process PID para 0: Disable1: Enable 0: Digital input 1: AI 0: AI -10.00V~10.00V 0.0%~(C1.07) (Ratio of Min reference to base value of 10V/20mA) 0.0~100.0% (Ratio of Max reference to base value of 10V/20mA) 0.0~100.0% (Ratio of Max reference to base value of 10V/20mA) 0.0~100.0%	1 0 ameters 0.01Hz 1 1 0.01 0.1% 0.1% 0.1% 0.1%	0 0 5.00Hz 0 1 0 0.0% 0.0% 100.0% 100.0% 2.000	0           ×           0           ×           0           ×           0           ×           0           ×           0           ×           0           0           0           0           0           0           0           0           0           0           0           0           0           0	0~65535 0~1 - 0~30000 0~1000 0~2000 0~1000 0~1000 0~1000 0~1000
b4.10 b4.11~ b4.15 b4.16 b4.17~ b4.20 c0.00~ c0.14 c1.00 c1.01 c1.02 c1.03 c1.05 c1.06 c1.07 c1.08 c1.09 c1.10	parameter initialization Reserved Standard/high frequency switching Reserved Multi-speed from 1~15 Close-loop control function Reference channel selection Feedback channel selection Digital setting of reference Min reference Min reference Min reference Max reference Max reference Feedback value corresponding to the Min reference Feedback value corresponding to the Max reference Proportional gain KP	0:Not valid Reserved 0: Standard (0-300HZ) 1: high frequency (0-3000HZ) Reserved Group C0:Multi-section para Lower limit of frequency~ upper limit of frequency~ upper limit of frequency~ Group C1:Process PID para 0: Disable1: Enable 0: Digital input 1: AI 0: AI -10.00V~10.00V 0.0%~(C1.07) (Ratio of Min reference to base value of 10V/20mA) 0.0~100.% (Ratio of Max reference to base value of 10V/20mA) 0.0~100% (Ratio of Max reference to base value of 10V/20mA) 0.0~100% (Ratio of Max reference to base value of 10V/20mA) 0.0~1000% (Ratio of Max reference to base value of 10V/20mA) 0.00~10.000	1 0 ameters 0.01Hz meters 1 1 0.01Hz 0.01Hz 0.01Hz 0.01Hz 0.1% 0.1% 0.1% 0.1% 0.001	0 0 5.00Hz 0 1 0 0.0% 0.0% 0.0% 100.0% 100.0% 2.000 0.100	0       ×       0       ×       0       ×       0	0~65535 0~1 - 0~30000 0~1 0~3 0 0~2000 0~2000 0~1000 0~1000 0~1000 0~10000 0~10000
b4.10 b4.11~ b4.15 b4.16 b4.17~ b4.20 C0.00~ C0.14 C1.00 C1.01 C1.02 C1.03 C1.05 C1.06 C1.07 C1.08 C1.09	parameter initialization Reserved Standard/high frequency switching Reserved Multi-speed from 1~15 Close-loop control function Reference channel selection Feedback channel selection Digital setting of reference Min reference Feedback value corresponding to the Min reference Max reference Feedback value corresponding to the Max reference Proportional gain KP	0:Not valid Reserved 0: Standard (0-300HZ) 1: high frequency (0-3000HZ) Reserved Group C0:Multi-section para Lower limit of frequency~ upper limit of frequency~ Group C1:Process PID para 0: Disable1: Enable 0: Digital input 1: AI 0: AI -10.00V~10.00V 0.0%~(C1.07) (Ratio of Min reference to base value of 10V/20mA) 0.0~100.0% (Ratio of Max reference to base value of 10V/20mA) 0.0~100.0% (Ratio of Max reference to base value of 10V/20mA) 0.0~100.0%	1 0 ameters 0.01Hz 1 1 0.01 0.1% 0.1% 0.1% 0.1%	0 0 5.00Hz 0 1 0 0.0% 0.0% 100.0% 100.0% 2.000	0           ×           0           ×           0           ×           0           ×           0           ×           0           ×           0           0           0           0           0           0           0           0           0           0           0           0           0           0	0~65535 0~1 - 0~30000 0~1000 0~2000 0~1000 0~1000 0~1000 0~1000
b4.10 b4.11~ b4.15 b4.16 b4.17~ b4.20 c0.00~ c0.14 c1.00 c1.01 c1.02 c1.03 c1.05 c1.06 c1.07 c1.08 c1.09 c1.10	parameter initialization Reserved Standard/high frequency switching Reserved Multi-speed from 1~15 Close-loop control function Reference channel selection Digital setting of reference Min reference Min reference Min reference Max reference Max reference Feedback value corresponding to the Min reference Max reference Proportional gain KP Integral gain Ki Differential gain Kd	0:Not valid Reserved 0: Standard (0-300HZ) 1: high frequency (0-3000HZ) Reserved Group C0:Multi-section para Lower limit of frequency~ upper limit of frequency~ upper limit of frequency~ Group C1:Process PID para 0: Disable1: Enable 0: Digital input 1: AI 0: AI -10.00V~10.00V 0.0%~(C1.07) (Ratio of Min reference to base value of 10V/20mA) 0.0~100.% (Ratio of Max reference to base value of 10V/20mA) 0.0~100% (Ratio of Max reference to base value of 10V/20mA) 0.0~100% (Ratio of Max reference to base value of 10V/20mA) 0.0~1000% (Ratio of Max reference to base value of 10V/20mA) 0.00~10.000	1 0 ameters 0.01Hz meters 1 1 0.01Hz 0.01Hz 0.01Hz 0.01Hz 0.1% 0.1% 0.1% 0.1% 0.001	0 0 5.00Hz 0 1 0 0.0% 0.0% 0.0% 100.0% 100.0% 2.000 0.100	0       ×       0       ×       0       ×       0	0~65535 0~1 - 0~30000 0~1 0~3 0 0~2000 0~2000 0~1000 0~1000 0~1000 0~10000 0~10000
b4.10 b4.11~ b4.15 b4.16 b4.20 C0.00~ C0.14 C1.00 C1.01 C1.02 C1.03 C1.05 C1.06 C1.07 C1.08 C1.09 C1.10 C1.11	parameter initialization Reserved Standard/high frequency switching Reserved Multi-speed from 1~15 Close-loop control function Reference channel selection Digital setting of reference Min reference Min reference Feedback value corresponding to the Min reference Max reference Feedback value corresponding to the Max reference Proportional gain KP Integral gain Ki Differential gain	0:Not valid Reserved 0: Standard (0-300HZ) 1: high frequency (0-3000HZ) Reserved Group C0:Multi-section para Lower limit of frequency- upper limit of frequency- group C1:Process PID para 0: Disable1: Enable 0: Digital input 1: AI 0: AI -10.00V~10.00V 0.0%~(C1.07) (Ratio of Min reference to base value of 10V/20mA) 0.0~100.0% (Ratio of Max reference to base value of 10V/20mA) 0.0~100.0% (Ratio of Max reference to base value of 10V/20mA) 0.0~100.0% (Ratio of Max reference to base value of 10V/20mA) 0.000~10.000 0.000~10.000	1           0	0 0 5.00Hz 0 1 0 0.00 0.0% 0.0% 100.0% 100.0% 2.000 0.100		0~65535 0~1 0~1 0~30000 0~1 0~3 0 0~2000 0~1000 0~1000 0~1000 0~10000 0~10000 0~10000
b4.10           b4.11~           b4.15           b4.16           b4.17~           b4.20           C0.00~           C0.14           C1.00           C1.01           C1.02           C1.03           C1.05           C1.06           C1.07           C1.08           C1.09           C1.10           C1.12	parameter initialization Reserved Standard/high frequency switching Reserved Multi-speed from 1~15 Close-loop control function Reference channel selection Feedback channel selection Digital setting of reference Min reference Min reference Min reference Max reference Feedback value corresponding to the Min reference Max reference Proportional gain KP Integral gain Ki Differential gain Kd Sampling cycle T	0:Not valid Reserved 0: Standard (0-300HZ) 1: high frequency (0-3000HZ) Reserved Group C0:Multi-section para Lower limit of frequency~ upper limit of frequency~ upper limit of frequency~ 0: Disable1: Enable 0: Digital input 1: AI 0: AI -10.00V~10.00V 0.0%~(C1.07) (Ratio of Min reference to base value of 10V/20mA) 0.0~100.0% (Ratio of Max reference to base value of 10V/20mA) 0.0~100% (Ratio of Max reference to base value of 10V/20mA) 0.0~100% (Ratio of Max reference to base value of 10V/20mA) 0.0~100% (Ratio of Max reference to base value of 10V/20mA) 0.00~10.000 0.000~10.000 0.000~10.000 0.000~10.000 0.000~10.000 0.01~50.008 0.0~20.0%	1 0 ameters 0.01Hz meters 1 1 1 0.01 0.1% 0.1% 0.1% 0.1% 0.1% 0.1% 0.001 0.001 0.001 0.001	0 0 5.00Hz 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0           ×           -           0           ×           0	0~65535 0~1 - 0~30000 0~1000 0~1000 0~1000 0~10000 0~10000 0~10000 0~10000 1~5000
b4.10 b4.11~ b4.15 b4.16 b4.20 C0.00~ C0.14 C1.00 C1.01 C1.02 C1.03 C1.05 C1.06 C1.07 C1.06 C1.07 C1.08 C1.09 C1.10 C1.11 C1.12 C1.13	parameter initialization Reserved Standard/high frequency switching Reserved Multi-speed from 1~15 Close-loop control function Reference channel selection Feedback channel selection Digital setting of reference Min reference Min reference Min reference Max reference Feedback value corresponding to the Min reference Max reference Feedback value corresponding to the Max reference Proportional gain KP Integral gain Ki Differential gain Kd Sampling cycle T Output filter	0:Not valid Reserved 0: Standard (0-300HZ) 1: high frequency (0-3000HZ) Reserved Group C0:Multi-section para Lower limit of frequency~ upper limit of frequency~ upper limit of frequency~ Group C1:Process PID para 0: Disable1: Enable 0: Digital input 1: AI 0: AI -10.00V~10.00V 0.0%~(C1.07) (Ratio of Min reference to base value of 10V/20mA) 0.0~100.0% (Ratio of Max reference to base value of 10V/20mA) 0.0~100.0% (Ratio of Max reference to base value of 10V/20mA) 0.0~100.0% (Ratio of Max reference to base value of 10V/20mA) 0.00~10.000 0.000~10.000 0.000~10.000 0.000~10.000 0.000~10.000	1 0 ameters 0.01Hz 1 1 0.01Hz 1 0.01Hz 0.01Hz 0.01Hz 0.1% 0.1% 0.1% 0.1% 0.1% 0.1% 0.001 0.001 0.001 0.001s 0.01s	0 0 5.00Hz 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0~65535 0~1 - 0~30000 0~1000 0~2000 0~2000 0~1000 0~1000 0~1000 0~10000 0~10000 0~10000 0~10000 0~10000

Function code	Name	Descriptions	Unit	Factory setting	Modif	Setting range
C1.15	Close-loop	0: Positive	1	0	×	0~1
	regulation characteristic	1: Negative				
C1.16	Integral regulation	0: Stop integral regulation	1	0	×	0~1
	selection	when the frequency reaches the upper and				
		lower limits				
		1: Continue the integral regulation when the				
		frequency reaches the				
C1.17	Preset close-loop	upper and lower limits 0.00~300.00Hz	0.01Hz	0.00Hz	0	0~30000
CI.17	frequency	0.00~300.00Hz	0.01Hz	0.00Hz	0	0~30000
C1.18	Holding time of	0.0~3600.0s	0.1s	0.0s	×	0~36000
	preset close-loop frequency					
C1.19~	Preset close-loop	-10.00V ~10.00V	0.01V	0.00V	0	0~2000
C1.33 C1.34	reference 1~15 Close-loop output	0: The close-loop output is	1	0	0	0~1
	reversal selection	negative, the drive will				
		operate at zero frequency. 1: The close-loop output is				
		negativeand the drive				
C1.35	Sleep function	operate reverse. 0: Disable	1	0	0	0~1
C1.55	selection	1: Enable.	1	0	0	0~1
C1.36	Sleep level	0.0~100.0%	0.1%	50.0%	0	0~1000
C1.37 C1.38	Sleep latency Wake-up level	0.0~6000.0s 0.0~100.0%	0.1s 0.1%	30.0s 50.0%	0	0~60000
		C2: Simple PLC				
C2.00	Simple PLC operation	Unit's place of LED: PLC operation mode	1	0000	×	0~1123H
	mode selector	0: No function				
		1: Stop after single cycle				
		<ol> <li>Keep final states after single cycle</li> </ol>				
		3: Continuous cycle				
		Ten's place of LED: Start mode				
		0: Start from first step				
		1: Start from the step				
		before stop (or alarm). 2: Start from the step and				
		frequency before stop(or				
		alarm) Hundred's place of LED:				
		Storage after power off				
		0: Disable				
		1: Save the segment frequency when power off				
		Thousand's place of LED:				
		Time unit selector for each step				
		0: Second				
C2.01	Step 1 setting	1: Minute Unit's of LED:	1	000	0	0~323H
02.01	Step 1 setting	0:Multiple frequency N	1	000	0	0 52511
		(N:corresponding to				
		current step) 1: Defined by A0.02				
		2: Multiple closed-loop				
		reference N (N:corresponding to				
		current step)				
		3: Defined by C1.01 Ten's place of LED:				
		0: Forward				
		1: Reverse 2: Defined by operation				
		2: Defined by operation command				
		Hundred's place of LED:				
		0: Acc/Dec time 1 1: Acc/Dec time 2				
		2: Acc/Dec time 3				
(2.02	Stap 1 op	3: Acc/Dec time 4	0.1	20.0		0 65000
C2.02	Step 1 operating time	0.0~6500.0	0.1	20.0	0	0~65000
C2.03~	Step N setting and	Step N setting is same as	1	000	0	0~323H
C2.30	Step N operating time	C2.01 Step N operating time same	0.1	20.0	0	0~65000
		as C2.02				
C3.00	Swing function	Group C3: Swing parame 0: Disable	eters	0	~	0~1
C3.00	Swing function selector	1: Enable	1	0	×	0~1
C3.01	Swing Operation	Unit's place of LED:	1	0000	×	0~1111H
	mode	Startup method 0: Auto mode1:				
		By terminal				
		Ten's place of LED:Swing				
		control 0: Reference centre				
		frequency				
		1: Reference max.				
	1	frequency	1	I	I	I

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	Name	Descriptions	Unit	Factory setting	Modif	Setting range
		Hundred's place of LED:				
		Swing states storage 0: Save after stop				
		1: Not save after stop				
		Thousand's place of LED:				
		Swing states				
		storage after power failure				
		0: Save 1: Not save				
C3.02	Preset swing frequency	0.00Hz~Max. frequency	0.01Hz	0.00Hz	0	0~ 100000
C3.03	Waiting time for	0.0~3600.0s	0.1s	0.0s	0	0~36000
	preset swing					
	frequency					
C3.04	Swing amplitude	0.0%~50.0%	0.1%	0.0%	0	0~500
C3.05	Jump frequency	0.0%~50.0%	0.1%	0.0%	0	0~500
C3.06 C3.07	Swing cycle	0.1~999.9s 0.0%~100.0%	0.1s	10.0s	0	1~9999
C3.07	Triangle wave rising time	(Swing cycle)	0.1%	50.0%	0	0~1000
	hong une	Group d0:Status displa	ıy	1		
d0.00	Main reference	-300.00~300.00Hz	0.01Hz	0.00	*	0~60000
	frequency					
d0.01	Auxiliary reference frequency	-300.00~300.00Hz	0.01Hz	0.00	*	0~60000
d0.02	Preset frequency	-300.00~300.00Hz	0.01Hz	0.00	*	0~60000
d0.03	Frequency after	-300.00~300.00Hz	0.01Hz	0.00	*	0~60000
40.04	Acc/Dec	200.00.200.0011	0.0171	0.00	*	0 60000
d0.04 d0.05	Output frequency Output voltage	-300.00~300.00Hz 0~480V	0.01Hz 1V	0.00	*	0~60000 0~480
d0.05	Output vonage	0.0~3Ie	0.1A	0.0	*	0~480
d0.00	Torque current	-300.0~+300.0%	0.1%	0.0%	*	0~6000
d0.08	Magnetic flux	0~+100.0%	0.1%	0.0%	*	0~1000
	current					
d0.09	Motor power	0.0~200.0	0.1%	0.0%	*	0~2000
		(Corresponding to the motor's rated power)				
d0.10	Motor estimated	-300.00~300.00Hz	0.01	0.00	*	0~60000
	frequency	500.00 500.00Hz	0.01	0.00		0 00000
d0.11	Motor actual frequency	-300.00~300.00Hz	0.01	0.00	*	0~60000
d0.12	Bus voltage	0~800V	1V	0	*	0~800
d0.13	Drive operation	0~FFFH	1	0	*	0~FFFFH
	status	bit0: Run/Stop				-
		bit1: Reverse/Forward				
		bit2: Operating at zero				
		frequency				
		bit3: Accelerating				
		bit4: Decelerating				
		bit5: Operating at constant speed				
		bit6: Pre-commutation				
		bit7: Tuning				
		bit8: Over-current limiting				
		bit9: DC over-voltage				
		limiting bit10: Torque limiting				
		bit 10: Torque limiting				
		hit11: Speed limiting				
		bit11: Speed limiting				
		bit11: Speed limiting bit12: Drive fault bit13: Speed control				
		bit11: Speed limiting bit12: Drive fault bit13: Speed control bit14: Torque control				
d0.14	Input terminals	bit11: Speed limiting bit12: Drive fault bit13: Speed control bit14: Torque control 0~FFH,	1	00	*	0~FFH
	status	bit11: Speed limiting bit12: Drive fault bit13: Speed control bit14: Torque control 0~FFH, 0: OFF; 1: ON	-			
d0.14 d0.15	status Output terminals	bit11: Speed limiting bit12: Drive fault bit13: Speed control bit14: Torque control 0~FFH, 0: OFF; 1: ON 0~1FH,	1	00	*	0~FFH 0~1FH
d0.15	status Output terminals status	bit11: Speed limiting bit12: Drive fault bit13: Speed control bit14: Torque control 0~FFH, 0: OFF; 1: ON 0~1FH, 0: OFF; 1: ON	1	0		0~1FH
	status Output terminals status AI input	bit11: Speed limiting bit12: Drive fault bit13: Speed control bit14: Torque control 0~FFH, 0: OFF; 1: ON 0~1FH,	-		*	
d0.15 d0.16 d0.19	status Output terminals status AI input Percentage of AI after regulation	bit11: Speed limiting bit12: Drive fault bit13: Speed control bit14: Torque control 0~FFH, 0: OFF; 1: ON 0~1FH, 0: OFF; 1: ON -10.00~10.00V -100.00%~110.00%	1 0.01V 0.01%	0	* * *	0~1FH 0~2000 0~20000
d0.15 d0.16	status Output terminals status AI input Percentage of AI after regulation Process close-loop	bit11: Speed limiting bit12: Drive fault bit13: Speed control bit14: Torque control 0~FFH, 0: OFF; 1: ON 0~1FH, 0: OFF; 1: ON -10.00~10.00V -100.00%	1 0.01V	0	*	0~1FH 0~2000
d0.15 d0.16 d0.19 d0.24	status Output terminals status AI input Percentage of AI after regulation Process close-loop reference	bit11: Speed limiting bit12: Drive fault bit13: Speed control bit14: Torque control 0~FFH, 0: OFF; 1: ON 0~1FH, 0: OFF; 1: ON -10.00~10.00V -100.00% (Ratio of the full range)	1 0.01V 0.01% 0.1%	0 0.00 0.00 0.0%	* * * *	0~1FH 0~2000 0~20000 0~2000
d0.15 d0.16 d0.19	status Output terminals status AI input Percentage of AI after regulation Process close-loop reference Process close-loop	bit11: Speed limiting bit12: Drive fault bit13: Speed control bit14: Torque control 0~FFH, 0: OFF; 1: ON 0~1FH, 0: OFF; 1: ON -10.00~10.00V -100.00% (Ratio of the full range) -100.0~100.0%	1 0.01V 0.01%	0 0.00 0.00	* * *	0~1FH 0~2000 0~20000
d0.15 d0.16 d0.19 d0.24	status Output terminals status AI input Percentage of AI after regulation Process close-loop reference Process close-loop feedback	bit11: Speed limiting bit12: Drive fault bit13: Speed control bit14: Torque control 0~FFH, 0: OFF; 1: ON 0~1FH, 0: OFF; 1: ON -100.00%~110.00% -100.0~100.0% (Ratio of the full range) -100.0~100.0% (Ratio of the full range)	1 0.01V 0.01% 0.1%	0 0.00 0.00 0.0%	* * * *	0~1FH 0~2000 0~20000 0~2000
d0.15 d0.16 d0.19 d0.24 d0.25	status Output terminals status AI input Percentage of AI after regulation Process close-loop reference Process close-loop	bit11: Speed limiting bit12: Drive fault bit13: Speed control bit14: Torque control 0~FFH, 0: OFF; 1: ON 0~1FH, 0: OFF; 1: ON -10.00~10.00V -100.00% (Ratio of the full range) -100.0~100.0%	1 0.01V 0.01% 0.1%	0 0.00 0.00 0.0% 0.05%	* * *	0~1FH 0~2000 0~2000 0~2000 0~2000
d0.15 d0.16 d0.19 d0.24 d0.25	status Output terminals status AI input Percentage of AI after regulation Process close-loop reference Process close-loop feedback Process close-loop	bit11: Speed limiting bit12: Drive fault bit13: Speed control bit14: Torque control 0~FFH, 0: OFF; 1: ON 0~1FH, 0: OFF; 1: ON -10.00~10.00V -100.00% (Ratio of the full range) -100.0~100.0% (Ratio of the full range) -100.0% (Ratio of the full range) -100.0% (Ratio of the full range) -100.0~100.0%	1 0.01V 0.01% 0.1%	0 0.00 0.00 0.0% 0.05%	* * *	0~1FH 0~2000 0~2000 0~2000 0~2000
d0.15 d0.16 d0.19 d0.24 d0.25 d0.26	status Output terminals status AI input Percentage of AI after regulation Process close-loop reference Process close-loop feedback Process close-loop error Process close-loop	bit11: Speed limiting bit12: Drive fault bit13: Speed control bit14: Torque control 0~FFH, 0: OFF; 1: ON 0~1FH, 0: OFF; 1: ON -10.00~10.00V -100.00%~110.00% (Ratio of the full range) -100.0~100.0% (Ratio of the full range) -100.0% (Ratio of the full range)	1 0.01V 0.01% 0.1% 0.1%	0 0.00 0.00 0.0% 0.05%	* * * *	0~1FH 0~2000 0~20000 0~2000 0~2000 0~2000
d0.15         d0.16         d0.19         d0.24         d0.25         d0.26         d0.27         d0.28	status Output terminals status AI input Percentage of AI after regulation Process close-loop reference Process close-loop error Process close-loop error Process close-loop error Process close-loop error Process close-loop	bit11: Speed limiting bit12: Drive fault bit13: Speed control bit14: Torque control 0~FFH, 0: OFF; 1: ON 0~1FH, 0: OFF; 1: ON -10.00~10.00V -100.00%~110.00% (Ratio of the full range) -100.0~100.0% (Ratio of the full range) 0.0~150.0°C	1           0.01V           0.1%           0.1%           0.1%           0.1%           0.1%	0 0.00 0.0% 0.0% 0.0% 0.0%	* * * * * *	0~1FH 0~2000 0~20000 0~2000 0~2000 0~2000 0~2000 0~2000 0~1500
d0.15 d0.16 d0.19 d0.24 d0.25 d0.26 d0.27	status Output terminals status AI input Percentage of AI after regulation Process close-loop reference Process close-loop error Process close-loop error Process close-loop error Process close-loop error Temperature of heatsink 1 Temperature of	bit11: Speed limiting bit12: Drive fault bit13: Speed control bit14: Torque control 0~FFH, 0: OFF; 1: ON 0~1FH, 0: OFF; 1: ON -100.00% -100.00% (Ratio of the full range) -100.0~100.0% (Ratio of the full range) -100.0~100.0% (Ratio of the full range) -100.0~100.0% (Ratio of the full range) -100.0.00% (Ratio of the full range) -100.0%	1 0.01V 0.1% 0.1% 0.1%	0 0.00 0.0% 0.05% 0.0%	* * * * *	0~1FH 0~2000 0~20000 0~2000 0~2000 0~2000 0~2000
d0.15         d0.16         d0.19         d0.24         d0.25         d0.26         d0.27         d0.28	status Output terminals status AI input Percentage of AI after regulation Process close-loop reference Process close-loop error Process close-loop error Process close-loop error Process close-loop error Process close-loop	bit11: Speed limiting bit12: Drive fault bit13: Speed control bit14: Torque control 0~FFH, 0: OFF; 1: ON 0~1FH, 0: OFF; 1: ON -10.00~10.00V -100.00%~110.00% (Ratio of the full range) -100.0~100.0% (Ratio of the full range) 0.0~150.0°C	1           0.01V           0.1%           0.1%           0.1%           0.1%           0.1%	0 0.00 0.0% 0.0% 0.0% 0.0%	* * * * * *	0~1FH 0~2000 0~20000 0~2000 0~2000 0~2000 0~2000 0~2000 0~1500
d0.15         d0.16         d0.19         d0.24         d0.25         d0.26         d0.27         d0.28         d0.29         d0.30	status Output terminals status AI input Percentage of AI after regulation Process close-loop reference Process close-loop feedback Process close-loop error Process close-loop error Process close-loop error Temperature of heatsink 1 Temperature of heatsink 2 Total conduction time	bit11: Speed limiting bit12: Drive fault bit13: Speed control bit14: Torque control 0~FFH, 0: OFF; 1: ON 0~1FH, 0: OFF; 1: ON -100.00% -100.00% (Ratio of the full range) -100.0~100.0% (Ratio of the full range) -100.0~100.0% (Ratio of the full range) -100.0~100.0% (Ratio of the full range) -100.0~100.0% (Ratio of the full range) 0.0~150.0°C 0.~65535 hours	1           0.01V           0.01%           0.1%           0.1%           0.1%           0.1%           0.1%           0.1%           0.1%           1           0.1%           0.1%           0.1%           0.1%           0.1%           1           1           hours	0 0.00 0.00 0.0% 0.0% 0.0% 0.0% 0.0% 0.0 0.0	* * * * * * * * *	0~1FH 0~2000 0~2000 0~2000 0~2000 0~2000 0~2000 0~2000 0~1500 0~1500 0~65535
d0.15         d0.16         d0.19         d0.24         d0.25         d0.26         d0.27         d0.28         d0.29         d0.30	status Output terminals status AI input Percentage of AI after regulation Process close-loop reference Process close-loop error Process close-loop error Process close-loop error Process close-loop error Temperature of heatsink 1 Temperature of heatsink 2 Total conduction time Total operating time	bit11: Speed limiting bit12: Drive fault bit13: Speed control bit14: Torque control 0~FFH, 0: OFF; 1: ON 0~1FH, 0: OFF; 1: ON -10.00~10.00% -100.00%~110.00% -100.0~100.0% (Ratio of the full range) -100.0~100.0% (Ratio of the full range) -100.0~100.0% (Ratio of the full range) -100.0~100.0% (Ratio of the full range) -100.0~100.0% (Ratio of the full range) 0.0~150.0 °C 0.0~5535 hours 0~65535 hours	1           0.01V           0.01%           0.1%           0.1%           0.1%           0.1%           0.1%           0.1%           1.1%           0.1%           0.1%           0.1%           1.1%           1.1%	0 0.00 0.00 0.0% 0.05% 0.0% 0.0% 0.0%	* * * * * * * * *	0~1FH 0~2000 0~2000 0~2000 0~2000 0~2000 0~2000 0~1500 0~1500 0~65535 0~65535
d0.15         d0.16         d0.19         d0.24         d0.25         d0.26         d0.27         d0.28         d0.29         d0.30	status Output terminals status AI input Percentage of AI after regulation Process close-loop reference Process close-loop error Process close-loop error Process close-loop error Process close-loop error Temperature of heatsink 1 Temperature of heatsink 2 Total conduction time Total operating time	bit11: Speed limiting bit12: Drive fault bit13: Speed control bit14: Torque control 0~FFH, 0: OFF; 1: ON 0~1FH, 0: OFF; 1: ON -100.00% -100.00% (Ratio of the full range) -100.0~100.0% (Ratio of the full range) -100.0~100.0% (Ratio of the full range) -100.0~100.0% (Ratio of the full range) -100.0~100.0% (Ratio of the full range) 0.0~150.0°C 0.~65535 hours	1           0.01V           0.01%           0.1%           0.1%           0.1%           0.1%           0.1%           0.1%           0.1%           1           0.1%           0.1%           0.1%           0.1%           0.1%           1           1           hours	0 0.00 0.00 0.0% 0.0% 0.0% 0.0% 0.0% 0.0 0.0	* * * * * * * * *	0~1FH 0~2000 0~2000 0~2000 0~2000 0~2000 0~2000 0~1500 0~1500 0~65535 0~65535
d0.15         d0.16         d0.19         d0.24         d0.25         d0.26         d0.27         d0.28         d0.29         d0.30         d0.31	status Output terminals status AI input Percentage of AI after regulation Process close-loop reference Process close-loop error Process close-loop error Process close-loop error Temperature of heatsink 1 Temperature of heatsink 2 Total conduction time Total operating time Total an's operating time	bit11: Speed limiting bit12: Drive fault bit13: Speed control bit14: Torque control 0~FFH, 0: OFF; 1: ON 0~IFH, 0: OFF; 1: ON -100.00% -100.00% (Ratio of the full range) -100.0~100.0% (Ratio of the full range) -100.0~100.0% (Ratio of the full range) -100.0~100.0% (Ratio of the full range) 0.0~150.0°C 0.0~150.0°C 0~65535 hours 0~65535 hours	1           0.01V           0.01%           0.1%           0.1%           0.1%           0.1%           0.1%           0.1%           0.1%           1.1%           0.1%           0.1%           0.1%           1.1%           1.1%           1.1%           1.1%	0 0.00 0.00 0.0% 0.0% 0.0% 0.0% 0.0% 0.0 0.0	* * * * * * * * *	0~1FH 0~2000 0~2000 0~2000 0~2000 0~2000 0~2000 0~2000 0~1500 0~1500 0~65535 0~65535
d0.15         d0.16         d0.19         d0.24         d0.25         d0.26         d0.27         d0.28         d0.29         d0.30	status Output terminals status AI input Percentage of AI after regulation Process close-loop reference Process close-loop error Process close-loop error Process close-loop error Process close-loop error Temperature of heatsink 1 Temperature of heatsink 2 Total conduction time Total operating time	bit11: Speed limiting bit12: Drive fault bit13: Speed control bit14: Torque control 0~FFH, 0: OFF; 1: ON 0~1FH, 0: OFF; 1: ON -10.00~10.00% -100.00%~110.00% -100.0~100.0% (Ratio of the full range) -100.0~100.0% (Ratio of the full range) -100.0~100.0% (Ratio of the full range) -100.0~100.0% (Ratio of the full range) -100.0~100.0% (Ratio of the full range) 0.0~150.0 °C 0.0~5535 hours 0~65535 hours	1           0.01V           0.01%           0.1%           0.1%           0.1%           0.1%           0.1%           0.1%           1.1%           0.1%           0.1%           0.1%           1.1%           1.1%	0 0.00 0.00 0.0% 0.0% 0.0% 0.0% 0.0% 0.0 0.0	* * * * * * * * * * * * * * *	0~1FH 0~2000 0~2000 0~2000 0~2000 0~2000 0~2000 0~1500 0~1500 0~65535 0~65535
d0.15         d0.16         d0.19         d0.24         d0.25         d0.26         d0.27         d0.28         d0.29         d0.30         d0.31	status Output terminals status AI input Percentage of AI after regulation Process close-loop reference Process close-loop feedback Process close-loop error Process close-loop error Process close-loop error Temperature of heatsink 1 Temperature of heatsink 2 Total conduction time Total operating time Total fan's operating time ASR controller	bit11: Speed limiting bit12: Drive fault bit13: Speed control bit14: Torque control 0~FFH, 0: OFF; 1: ON 0~1FH, 0: OFF; 1: ON -100.00% -100.00% (Ratio of the full range) -100.0~100.0% (Ratio of the full range) -100.0~100.0% (Ratio of the full range) -100.0~100.0% (Ratio of the full range) 0.0~150.0°C 0.0~150.0°C 0~65535 hours 0~65535 hours 0~65535 hours -300.0~300.0%	1           0.01V           0.01%           0.1%           0.1%           0.1%           0.1%           0.1%           0.1%           0.1%           1.1%           0.1%           0.1%           0.1%           1.1%           1.1%           1.1%           1.1%	0 0.00 0.00 0.0% 0.0% 0.0% 0.0% 0.0% 0.0 0.0	* * * * * * * * * * * *	0~1FH 0~2000 0~2000 0~2000 0~2000 0~2000 0~2000 0~2000 0~1500 0~1500 0~65535 0~65535
d0.15         d0.16         d0.19         d0.24         d0.25         d0.26         d0.27         d0.28         d0.29         d0.30         d0.31         d0.33	status Output terminals status AI input Percentage of AI after regulation Process close-loop reference Process close-loop feedback Process close-loop error Process close-loop error Process close-loop error Temperature of heatsink 1 Temperature of heatsink 2 Total conduction time Total operating time Total fan's operating time ASR controller	bit11: Speed limiting bit12: Drive fault bit13: Speed control bit14: Torque control 0~FFH, 0: OFF; 1: ON 0~1FH, 0: OFF; 1: ON -100.00%~110.00% -100.00%~110.00% (Ratio of the full range) -100.0~100.0% (Ratio of the full range) -100.0~100.0% (Ratio of the full range) -100.0~100.0% (Ratio of the full range) -100.0~100.0% (Ratio of the full range) 0.0~150.0°C 0.0~150.0°C 0~65535 hours 0~65535 hours 0~65535 hours -300.0~300.0% (Corresponding to drive's	1           0.01V           0.01%           0.1%           0.1%           0.1%           0.1%           0.1%           0.1%           0.1%           1.1%           0.1%           0.1%           0.1%           1.1%           1.1%           1.1%           1.1%	0 0.00 0.00 0.0% 0.0% 0.0% 0.0% 0.0% 0.0 0.0	* * * * * * * * * * * * * * *	0~1FH 0~2000 0~2000 0~2000 0~2000 0~2000 0~2000 0~1500 0~1500 0~65535 0~65535 0~65535 0~6000
d0.15         d0.16         d0.17         d0.24         d0.25         d0.26         d0.27         d0.28         d0.29         d0.30         d0.31         d0.33	status Output terminals status AI input Percentage of AI after regulation Process close-loop reference Process close-loop error Process close-loop error Process close-loop error Process close-loop Temperature of heatsink 1 Temperature of heatsink 2 Total conduction time Total operating time Total fan's operating time ASR controller output	bit11: Speed limiting bit12: Drive fault bit13: Speed control bit14: Torque control 0~FFH, 0: OFF; 1: ON 0~1FH, 0: OFF; 1: ON -10.00~10.00% -100.00%~110.00% -100.0~100.0% (Ratio of the full range) -100.0~100.0% (Ratio of the full range) -100.0~100.0% (Ratio of the full range) -100.0~100.0% (Ratio of the full range) -100.0~100.0% (Ratio of the full range) 0.0~150.0 °C 0.0~55535 hours 0~65535 hours 0~65535 hours -300.0~300.0% (Corresponding to drive's rated torque)	1           0.01V           0.01%           0.1%           0.1%           0.1%           0.1%           0.1%           0.1%           0.1%           0.1%           0.1%           0.1%           0.1%           0.1%           0.1%           0.1%           1 hours           1 hours           0.1%           1 hours	0 0.00 0.00 0.0% 0.0% 0.0% 0.0% 0.0 0 0 0 0 0 0 0 0 0 0 0 0 0	* * * * * * * * * * * *	0~1FH 0~2000 0~2000 0~2000 0~2000 0~2000 0~2000 0~1500 0~1500 0~65535 0~65535 0~65535

Function code	Name	Descriptions	Unit	Factory setting	Modif	Setting range
d1.01	Bus voltage of the latest failure	0~999V	1V	0V	*	0~999
d1.02	Actual current of the latest failure	0.0~999.9A	0.1A	0.0A	*	0~9999
d1.03	Operation frequency of the latest failure	0.00Hz~300.00Hz	0.01Hz	0.00Hz	*	0~30000
d1.04	Operation status of the latest failure	0~FFFFH	1	0000	*	0~FFFFH
d1.05	Fault record 2	0~55	1	0	*	0~50
d1.06	Fault record 3	0~55	1	0	*	0~50
	-	Group d2:Product Identity Par	rameters			
d2.00	Serial number	0~FFFF	1	100	*	0~65535
d2.01	Software version number	0.00~99.99	1	1.00	*	0~9999
d2.02	Custom-made version number	0~9999	1	0	*	0~9999
d2.03	Load type selection	0: Heavy load G 1: Light load L 2~9: Reserved	1	0	×	0~9
d2.04	Rated voltage	Output power,0~999.9KvA (Dependent on drive's model)	0.1KVA	Factory setting	*	0~9999
d2.05	Rated current	0~999.9A (Dependent on drive's model)	1V	Factory setting	*	0~999
d2.06	Rated current	0~999.9A (Dependent on drive's model)	0.1A	Factory setting	*	0~9999
		Group U0:Factory parame	eters		-	
U0.00	Factory password	**** Note: Other parameters in this group can't display until entering the right password.	1	Factory setting	_	0~FFFF
	n	Group P0:Factory parame	eters	1		
P0.00	Reserved	Reserved	1	Factory setting	*	0~65535

Note: •: Can be modified during operation;

X: Cannot be modified during operating;

\*: Actually detected and cannot be revised;

-: Defaulted by factory and cannot be modified.



USER'S MANUAL