Mini type VFD of CV20 series

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

You can scan the QR code below to get the latest electronic version of the official website



USER'S MANUAI

VFD model rule



Production introduction:

		General 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
Outrast	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%
Characteris	Torque boost	Manual torque boost :0%~30.0%
tics	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")

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Item		Description		
	I ED Display	Display setting frequency, output frequency, output voltage,		
Operation	LED Display	output current and so on, about 20 parameters.		
panel	Keys lock and function	Lock part of keys or all the keys.		
	selection	Define the function of part of keys		
		Open phase protection (optional), overcurrent protection,		
Protection fu	nction	overvoltage protection, under-voltage protection, overheat		
		protection, over-load protection and so on.		
	Operating site	Indoor, installed in the environment free from directsunlight,		
	Operating site	dust, corrosive gas, combustible gas, oil mist, steam and drip.		
	Altitude	Derated above 1000m, the rated output current		
	Altitude	shall be decreased by 10% for every rise of 1000m		
Environmen	Ambienttemperature	-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		
Structure	Protection class	IP20		
Suucture	Cooling method	Air cooling, with fan control.		
Installation 1	nethod	Wall-mounted		
Efficiency		≥90%		

Introduction of 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:





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

		Me	echanica	l parame	eters				
VFD model		External dimension and (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				56	120		12	5	0.8
CV20-1S-0007G	69	68 132 131							
CV20-2S-0004G	68 132		30	120	-	12	5	0.8	
CV20-2S-0007G									
CV20-2S-0015G									
CV20-4T-0007G									
CV20-4T-0015G	100	151	128	89	140	-	9	5	1.0
CV20-4T-0022G									

Operation Button	1 Description	
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Button	Description
\bigtriangleup	Increase the value or function
∇	Decrease the value or function
MENU	Enter or Exit the programming status
DINKTOD	In panel operation mode, run the VFD by the first pressing;
RUN/STOP	stop VFD by the second pressing. In VFD error status, reset the error by pressing
	Short pressing to shift data or function code. Hold pressing(more than 1s) to enter
SHIFT/ENTER	function code or save the changed value

Wiring:



- voltage before using.
- -Refer to chapter 2 on connected braking resistor or braking kit.
- -It is prohibited to connect the AC supply cables to the drive's terminals U, V and W.
- -Grounding cables should be copper cables with section area bigger than 3.5mm2, and the grounding resistance should be less than 10Ω .
- -There is leakage current inside the drive. The total leakage current is greater than 3.5mA, depending on the usage conditions. To ensure safety, both the drive and the motor should be grounded, and a leakage current protector (RCD) should be installed. It is recommended to choose B type RCD and set the leakage current at 300mA.
- -The drive should be connected to the AC supply via a circuit breaker or fuse to provide convenience to input over-current protection and maintenance.







Arrangement of control circuit terminals is as follows:



It lists the possible faults of CV20. The fault code varies from E001 to E027. Once a fault occurs, you may check it against the table and record the detailed phenomena before seeking service from your supplier.



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			improper v/r curve	value correctly

Fault code	Fault categories	Possible reasons for fault	Actions
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	Communication 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 not	Contactor damaged	Replace the contactor in main circuit and seek service
E018	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	Auxiliary power supply is damaged	Seek service
	circuit fails	Hall sensor is damaged	Seek service
		Amplifying circuit is abnormal	Seek service
E020	System	Terrible interference	Press STOP/RSTkey to reset or add、 a power filter in front of power supply input
	interference	DSP in control board read / write by mistake	Press STOP/RST 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
E024	Auto-tuning	Prohibiting contra Auto-turning during rollback	Cancel prohibiting rollback
E024	fault	Overtime of auto-tuning	Check the motor's wiring 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 p	parameters			
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
A0.03	Set the operating frequency in digital mode	A0.11~A0.10	0.01Hz	50.00	0	0~3000
A0.04	Methods of input ting operating commands	0: Panel control1: Terminal control2: Communication control	1	0	0	0~2
A0.05	Set running direction	0: Forward 1: Reverse	1	0	0	0~1
A0.06	Acc time 1	0.0~6000.0	0.1s	6.0s	0	0~60000
A0.07	Dec time 1	0.0~6000.0	0.1s	6.0s	0	0~60000
A0.08	Max. output frequency	50Hz~ 300.00Hz	0.01Hz	50.00	×	0~30000
A0.09	Max. output voltage	0~480	1V	VFD's rated values	×	0~480
A0.10	Upper limit of frequency	A0.11~A0.08	0.01Hz	50.00	0	0~30000
A0.11	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
		Group A1: Start and stop pa	rameters			
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

Function code	Name	Descriptions	Unit	Factory setting	Modif	Setting range
A1.03	DC injection braking current at start	0.0%~100.0% drive's rated current	0.1%	0.0%	0	0~1000
A1.04	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	0:Disable	1	0	×	0~1
A1.11	failure Delay time for restart after power failure	1:Enable 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 input a reverse command)	1	0	×	0~1
A1.13	Delay time of run reverse/forward	0.00~360.00s	0.01s	0.00s	0	0~36000
A1.14	Switch mode of run reverse/ forward (Reserved)	0: Switch when pass 0Hz 1: Switch when pass starting frequency	1	0	×	0~1
A1.15	Detecting frequency of stop	0.00~150.00Hz	0.01Hz	0.10Hz	×	0~15000
A1.16	Reserved					
A2.00	Auxiliary reference	Group A2: Frequency s 0: No auxiliary reference	etting 1	0	0	0~5
	frequency selector	frequency 1: AI 5: Output by PID process				
A2.01	Main and auxiliary reference frequency calculation	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: 0:UP/DN integral time valid 1:UP/DN speed value	1	00	0	0~11H
A2.04	Jog operating frequency	0.10~50.00Hz	0.01Hz	5.00	0	10~5000
A2.05	Interval of Jog operation	0.0~100.0s	0.1s	0.0	0	0~1000
A2.06 A2.07	Skip frequency 1 Range of skip frequency 1	0.00~300.00Hz 0.00~30.00Hz	0.01Hz 0.01Hz	0.00	×	0~30000 0~3000
A2.08 A2.09	Skip frequency 2 Range of skip frequency	0.00~300.00Hz 0.00~30.00Hz	0.01Hz 0.01Hz	0.00	× ×	0~30000 0~3000
A2.10 A2.11	Skip frequency 3 Range of skip frequency 3	0.00~300.00Hz 0.00~30.00Hz	0.01Hz 0.01Hz	0.00 0.00	× ×	0~30000 0~3000
A3.00	Reference	Group A3:Setting cur LED unit's place:	ve 1	3330	0	0~3333H
	frequency curve selection	AI 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
	Actual value	Reference frequency:	0.01%	100.00%	0	0~10000
A3.02	Corresponding to the Max reference of curve1	0.0~100.00%Fmax Torque: 0.0~300.00%Te				

Function	Name	Descriptions	Unit	Factory	Modif	Setting
code A3.04	Actual value	The same as A3.02	0.01%	setting 0.00%	0	range 0~10000
A5.04	Corresponding to	The same as A5.02	0.0170	0.00%	0	0~10000
	the Min reference					
A3.05	of curve 1 Max reference of	A3.07~110.00%	0.01%	100.00%	0	0~11000
	curve 2					
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
A3.00	Corresponding to	The same as AS.02	0.0170	0.0070	0	0-10000
	the Min reference					
A3.09	of curve 2 Max reference of	A3.11~110.00%	0.01%	100.00%	0	0~11000
A3.09	curve 3	A3.11~110.00%	0.01%	100.00%	0	0~11000
A3.10	Actual value	The same as A3.02	0.01%	100.00%	0	0~10000
	Corresponding to					
	the Max reference of curve 3					
A3.11	Min reference of	0.0%~A3.09	0.01%	0.00%	0	0~11000
	curve 3					
A3.12	Actual value	The same as A3.02	0.01%	0.00%	0	0~10000
	corresponding to the Min reference					
	of curve 3					
A3.13	Max reference of curve 4	A3.15~110.00%	0.01%	100.00%	0	0~11000
A3.14	curve 4 Actual value	The same as A3.02	0.01%	100.00%	0	0~10000
	corresponding to	outre uo 1 10.02	5.0170	100.0070		5 10000
	the Max reference					
A3.15	of curve 4 Reference of	A3.17~A3.13	0.01%	100.00%	0	0~11000
A3.13	inflection point 2	AJ.17~AJ.13	0.01%	100.00%	0	0~11000
	of curve 4					
A3.16	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				<u> </u>	
A3.17	Reference of	A3.19~A3.15	0.01%	0.00%	0	0~11000
	inflection point 1 of curve 4					
A3.18	Actual value	The same as A3.02	0.01%	0.00%	0	0~10000
	corresponding to					
	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
42.20	curve 4	The same as A2.02	0.010/	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	~				
A4.00	Acc/Dec mode	Group A4: Acc/Dec para 0: Linear Acc/Dec	ameters 1	0	~	0~1
A4.00	Acc/Dec mode	1: S Curve	1	0	×	0~1
A4.01	Acc time 2	0.0~6000.0	0.1s	20.0s	0	0~60000
A4.02	Dec time 2	0.0~6000.0	0.1s	20.0s	0	0~60000
A4.03	Acc time 3	0.0~6000.0	0.1s	20.0s	0	0~60000
A4.04 A4.05	Dec time 3 Acc time 4	0.0~6000.0	0.1s 0.1s	20.0s 20.0s	0	0~60000 0~60000
A4.05	Dec time 4	0.0~6000.0	0.1s	20.0s	0	0~60000
A4.07	S curve	10.0%~50.0%(Acc time)	0.1%	20.0%	0	100~500
	acceleration	A4.07+ A4.08≤90%				
A4.08	starting time S curve	10.0%~70.0%(Acc time)	0.1%	20.0%	0	100~800
	acceleration ending	A4.07+ A4.08≤90%	5.170	20.070		100 000
	time		ļ		<u> </u>	
A4.09	S curve deceleration	$10.0\% \sim 50.0\%$ (Dec time)	0.1%	20.0%	0	100~500
A4.10	starting time S curve	A4.09+ A4.10≤90% 10.0%~70.0%(Dec time)	0.1%	20.0%	0	100~800
	deceleration	A4.09+ A4.10≤90%				
	ending time	0. D: 11	.		<u> </u>	0.0
A4.11	Quick start-stop selector	0: Disable 1: Quick start, normal stop	1	2	×	0~3
	50100101	2: Normal start, quick stop				
		3: Quick start, quick stop				
A4.12	Start ACR-P	0.1~200.0	0.1	20.0	0	1~2000
A4.13 A4.14	Start ACR-I Start AVR-P	0.000~10.000s 0.1~200.0	0.001s 0.1	0.200s 20.0	0	0~10000 1~2000
A4.14 A4.15	Start AVR-I	0.1~200.0 0.000~10.000s	0.001s	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	0.000~10.000s	0.001s	0.200s	0	0~10000
A4.18	Stop AVR-P	0.1~200.0	0.1	20.0	0	1~2000
A4.19 A4.20	Stop AVR-I Over commutation	0.000~10.000s 0: disable	0.001s	0.200s 0	o X	0~10000 0~1
20	Stop	1:enable	Ľ	Ŭ		<u> </u>
				- · · · · · · · · · · · · · · · · · · ·	r	r
A4.21	ACC/DEC time coefficient	0:ACC/DEC time ×1 1: ACC/DEC time ×0.1	1	0	×	0~1

Function code	Name	Descriptions	Unit	Factory setting	Modif	Setting range
A4.22	ACC/DEC time	0.00~300.00Hz	0.01Hz	0.00Hz	×	0~30000
	1/2 switch freq.	Select ACC/DEC time 2 when output freq. is less				
		than A4.22				
A4.23~	Reserved	Reserved	1	0	0	0~65535
A4.40		Group A5: reserved	1			
		Group A6: Control terminals				
A6.00~	Multi-function	0: No function1:Forward	1	0	×	0~54
A6.03	terminal X1~X4	2: Reverse 3: Forward jog operation				
		4: Reverse jog operation				
		5: 3-wire operation control 6: External RESET signal				
		input				
		7: External fault signal				
		input 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 37: Forward prohibit				
		38: Reverse prohibit				
		39: Acc/Dec prohibit				
		40: Process close-loop prohibit				
		42: Main frequency switch				
		to digital setting 43: PLC pause				
		44: PLC prohibit				
		45: PLC stop memory clear				
		46: Swing input 47: Swing reset				
		48~49:Reserved				
		50: Timer 1 start 51: Timer 2 start				
		53: Counter input				
		54: Counter clear Others: Reserved				
A6.04	reserved					
A6.05 A6.08	Terminal filter	0~500ms	1	10	0	0~500
A6.09	Terminal control	0:2-wire operating mode 1	1	0	×	0~3
	mode selection	1:2-wire operating mode 2 2:3-wire operating mode 1				
		3:3-wire operation mode 2				
A6.10	reserved	4:2-wire operation mode 3			-	
A6.11	10301700					
A6.12 A6.13	Input termin-12-	Binary softing	1	00	0	0~FFH
A0.13	Input terminal's positive and	Binary setting 0: Positive logic:	1	00	U	0~FFH
	negative 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 if it				
		is disconnected.				
		Unit's place of LED: BIT0~BIT3: X1~X4				

Function code	Name	Descriptions	Unit	Factory setting	Modif	Setting range
A6.14	reserved		1	0	×	0~50
A6.15 A6.16	Output functions of		1	15	×	0~50
	relay R1	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				
		(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)				
		15: Drive feady (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				
A6.18	Output terminal's	Binary setting:	1	0	0	0~1FH
	positive and	0: Terminal is enabled if it				
	negative logic	is connected to correspond common terminal, and				
		disabled if it is				
		disconnected.				
		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: Reserved				
A6.19	Frequency arriving	0.00~300.00Hz	0.01Hz	2.50Hz	0	0~30000
	signal (FAR)					
A6.20	FDT1 level	0.00~300.00Hz 0.00~300.00Hz	0.01Hz	50.00Hz	0	0~30000
A6.21 A6.22	FDT1 lag FDT2 level	0.00~300.00Hz	0.01Hz 0.01Hz	1.00Hz 25.00Hz	0	0~30000 0~30000
A6.23	FDT2 lag	0.00~300.00Hz	0.01Hz	1.00Hz	0	0~30000
A6.24	Virtual terminal	Binary setting	1	00	0	0~FFH
	setting	0: Disable;				
		1: Enable				
		Unit's place of LED: BIT0~BIT3: X1~X4				
		Ten's place of LED:				
1 6 20		Reserved				
A6.28~ A6.43	reserved					
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	0~65535	1	50	0	0~65535
A6.48~	of counter Reserved	Reserved	1	50	0	0~65535
A6.49 A6.50	Multi-speed terminal	0~500	1	300	0	0~65535
A6.51~	switching time Reserved	-	1	0	0	0~65535
A6.60		Group A8: Fault paran	ators			
A8.00	Protective action of		1	0000	×	0~1111H
	relay	Action selection for				
		under-voltage fault				
		indication. 0:Disable;				
		1: Enable				
		Ten's place of LED:				
	1	Action selection for auto				
		reset interval fault				
		reset interval fault indication. 0:Disable				

code	e Name Descriptions		Unit	Factory setting	Modif	Setting range
		Hundred's place of LED: Selection for fault locked function. 0:Disable; 1: Enable Thousand's place of LED: Reserved				
A8.01	Fault masking selection 1	Unit's place of LED: Communication fault masking selection Ten's place of LED: Relay fault masking selection Hundred's place of LED: EEPROM fault masking selection Thousand's place of LED: Reserved 0: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 compensation)	1	1	×	0~2
A8.04	Auto reset times	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. Group b0:Motor param	1 eters	0	×	0~1
b0.00	Rated power	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	1.00~300.00Hz	0.01Hz	Depend on drive's model	×	100~ 30000
b0.04	Number of	2~24	1	4	×	2~24
b0.05	polarities of motor Rated speed	0~60000RPM	1RPM	1440 RPM	×	0~60000
b0.06	Resistance of stator %R1	0.00%~50.00%	0.01%	Depend	×	0~5000
				on drive's model		
b0.07	Leakage inductance %Xl	0.00%~50.00%	0.01%	on drive's	×	0~5000
b0.07 b0.08	Leakage	0.00%~50.00%	0.01%	on drive's model Depend on drive's	×	0~5000
	Leakage inductance %Xl Resistance of			on drive's model Depend on drive's model Depend on drive's		
b0.08	Leakage inductance %XI Resistance of rotor %R2 Exciting	0.00%~50.00%	0.01%	on drive's model Depend on drive's model Depend on drive's model Depend on drive's	×	0~5000
b0.08 b0.09 b0.10 b0.11	Leakage inductance % XI Resistance of rotor % R2 Exciting inductance % Xm Current without load I0 Auto-tuning	0.00%~50.00% 0.0%~2000.0% 0.1~999.9A 0: Auto-tuning is disabled 1: Stationary auto-tuning (Start auto-tuning to a standstill motor) 2: Rotating auto-tuning	0.01% 0.1% 0.1A	on drive's model Depend on drive's model Depend on drive's model Depend on drive's model Depend on drive's model	×	0~5000 0~20000 1~9999 0~3
b0.08 b0.09 b0.10	Leakage inductance %XI Resistance of rotor %R2 Exciting inductance %Xm Current without load I0	0.00%~50.00% 0.0%~2000.0% 0.1~999.9A 0: Auto-tuning is disabled 1: Stationary auto-tuning (Start auto-tuning to a standstill motor)	0.01% 0.1% 0.1A	on drive's model Depend on drive's model Depend on drive's model Depend on drive's model	×××××	0~5000 0~20000 1~9999

Function code	Name	Descriptions	Unit	Factory setting	Modif	Setting range
b1.00	V/F curve setting	Group b1:V/F paramet 0: V/F curve is defined by	ters 1	0	×	0~3
	6	user 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
b1.02	value F3 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
b1.04	value F2 V/F voltage value	B1.06~B1.02	0.1%	0.0%	×	0~1000
b1.05	V2 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
b1.07	V1 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: Enable all the time 2: Disabled in Dec process	1	2	×	0~2
b1.09	VF Output voltage selection	0: no function 1: AI	1	0	×	0~3
b1.10	VF Output voltage offset selection	0: no function 1: AI	1	0	×	0~3
b2.00	Carrier wave	Group b2:Enhanced parat	meters 0.1	6.0	0	20~150
b2.00	frequency Auto adjusting of	0: Disable	1	0.0	0	0~1
b2.01	CWF Voltage adjustment	1: Enable Unit's place of LED:	1	001		0~1 0~111H
62.02	voltage adjustment selection	Unit's piace of LED: Over-voltage at stall 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: Over modulation selection 0: Disable	1	001	×	0~111H
b2.03	Overvoltage point at stall	1: Enable 120.0%~150.0%Udce	0.1%	140.0%	×	1200~1500
b2.04	Droop control	0: Disable 0.01~10.00Hz	0.01	0.00Hz	0	0~1000
b2.05	Auto current limiting threshold	20.0%~200.0%Ie	0.1%	150.0%	×	200~2000
b2.06	Frequency decrease rate when current limiting	0.00~99.99Hz/s	0.01 Hz/s	10.00 Hz/s	0	0~9999
b2.07	Auto current limiting selection	0:Invalid at constant speed 1:Valid at constant speed Note: It is valid all the time at Acc/Dec	1	1	×	0~1
b2.08	Gain of Slip	0.0~300.0%	0.1%	100.0%	0	0~3000
b2.09	compensation Slip compensation limit	0.0~250.0%	0.1%	200.0%	0	0~2500
b2.10	Slip compensation	0.1~25.0s	0.1s	2.0s	0	0~250
b2.11	time constant auto energy-saving	0: Disable	1	0	×	0~1
b2.12	function Frequency decrease	1: Enable 0.00~99.99Hz/s	0.01	10.00	0	0~9999
	rate at voltage compensation		Hz/s	Hz/s		
b2.13	Zero-frequency Operation threshold	0.00~300.00Hz	0.01Hz	0.50Hz	0	0~30000
b2.14	Zero-frequency Hysteresis (Reserved)	0.00~300.00Hz	0.01Hz	0.00Hz	0	0~30000
b2.15	Fan control	0: Auto operation mode 1:Fan operate continuously when power is on Note: 1.Continue to operate for 3 minutes	1	0	×	0~1
b3.00	Communication	Group b3:Communication p Unit's place of LED:	arameter 1	001	×	0~155H
	configuration	Baud rate selection 0:4800BPS 1:9600BPS 2:19200BPS Ten's place of LED: Data format				

Function	Name	Descriptions	Unit	Factory	Modif	Setting
code		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)		setting		range
b3.01	Local address	0~127,0 is the broadcasting address	1	5	×	0~127
b3.02	Time threshold for judging the communication status	0.0~1000.0s	0.1	0.0s	×	0~10000
b3.03	Delay for responding to control PC	0~1000ms	1	5ms	×	0~1000
		Group b4:Keyboard para	meters			
b4.00	Key-lock function selection	 0: The keys on the 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 RUN AND STOP keys are unusable. 	1	0	0	0~4
b4.01	Multi-function key	Reserved	1	4	0	0~5
b4.02	definition Parameter protection	0: All parameters are allowed modifying;	1	1	0	0~2
		1: Only A0.03 and b4.02 can be modified; 2: Only b4.02 can be modified.				
b4.03	Parameter initialization	0: No operation 1: Clear fault information in memory 2: Restore to factory settings	1	0	×	0~2
b4.04	Parameter copy	0: No action 1: parameters upload 2: parameters download 3: parameters download (except the parameters related to drive type) Note: Not to upload/ download drive's parameters.	1	0	×	0~3
b4.05	Display parameters selection	Binary setting: BT1:Operating 0: No display 1: Display Unit's place of LED: BTT0: Output frequency (No display at stop.Display power frequency at energy feedback mode) BT1:Setting frequency (Flicking.No display at energy feedback mode) BT2:Output current (No display at stop.Display power frequency at energy feedback mode) BT3:Output voltage (No display at stop.Display power frequency at energy feedback mode) BT3:Output voltage (No display at stop.Display power frequency at energy feedback mode) BT3: Output voltage (No display at stop.Display power frequency at energy feedback mode) Ten's place of LED: BTT0: AI BTT0: Output power (No display at stop and energy feedback mode) BT1:Output torque (No display at stop and energy feedback mode) BT12:Analog close-loop feedback(%) (No display at feedback mode) BT3: Analog close-loop setting(%)(Flicking, no display at feedback mode)	1	1007H	0	0~7FFFH

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Function code	Name	Descriptions	Unit	Factory setting	Modif	Setting range
		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 b4.08~	Speed ratio Reserved	0.000~30.000 Reserved	0.001	1.000	0	0~30000 0~65535
b4.09	Reserved	Reserved	1	0	Ŭ	0-05555
b4.10	Customer	0~65535	1	0	×	0~65535
	parameter initialization	0:Not valid				
b4.11~	Reserved	Reserved	1	0	0	0~65535
b4.15 b4.16	Standard/high	0: Standard (0-300HZ)	0	0	×	0~1
57.10	frequency	1: high frequency	0	0		5 1
L4 17	switching	(0-3000HZ)				
b4.17~ b4.20	Reserved	Reserved				
ao - :		Group C0:Multi-section pa		.		
C0.00~ C0.14	Multi-speed from 1~15	Lower limit of frequency~ upper limit of frequency	0.01Hz	5.00Hz	0	0~30000
		Group C1:Process PID par	ameters	·		·
C1.00	Close-loop control function	0: Disable1: Enable	1	0	×	0~1
C1.01	Reference channel	0: Digital input	1	1	0	0~3
C1.02	selection Feedback channel	1: AI 0: AI	1	0	~	0
C1.02	selection	0: AI	1	0	0	0
C1.03	Digital setting of reference	-10.00V~10.00V	0.01	0.00	0	0~2000
C1.05	Min reference	0.0%~(C1.07)	0.1%	0.0%	0	0~1000
		(Ratio of Min reference to				
C1.06	Feedback value	base value of10V/20mA) 0.0~100.0%	0.1%	0.0%	0	0~1000
C1.00	corresponding to	(Ratio of Min reference to	0.170	0.070		0 1000
C1.07	the Min reference Max reference	base value of 10V/20mA)	0.10/	100.0%	_	0.1000
C1.07	Max reference	(C1.05)~100.0% (Ratio of Max reference to	0.1%	100.0%	0	0~1000
		base value of 10V/20mA)				
C1.08	Feedback value corresponding to	0.0~100% (Ratio of Max reference to	0.1%	100.0%	0	0~1000
	the Max reference	base value of 10V/20mA)				
C1.09	Proportional gain	0.000~10.000	0.001	2.000	0	0~10000
C1.10	KP Integral gain Ki	0.000~10.000	0.001	0.100	0	0~10000
C1.11	Differential gain	0.000~10.000	0.001	0.100	0	0~10000
C1 12	Kd	0.01.50.00	0.01	0.50		1 5000
C1.12 C1.13	Sampling cycle T Output filter	0.01~50.00s 0.01~10.00s	0.01s 0.01s	0.50s 0.05	0	1~5000 1~1000
C1.14	Error limit	0.0~20.0%	0.1%	2.0%	0	0~200
		(Corresponding to close-loop reference)				
C1.15	Close-loop	0: Positive	1	0	×	0~1
	regulation	1: Negative				
C1.16	characteristic Integral regulation	0: Stop integral regulation	1	0	×	0~1
C1.10	selection	when the frequency	1	0	~	0~1
		reaches the upper and				
		lower limits 1: Continue the integral				
		regulation when the				
		frequency reaches the upper and lower limits				
C1.17	Preset close-loop	0.00~300.00Hz	0.01Hz	0.00Hz	0	0~30000
C1 10	frequency	0.0.2000.0	0.1	0.0		0.25055
C1.18	Holding time of preset close-loop	0.0~3600.0s	0.1s	0.0s	×	0~36000
	frequency					
C1.19~ C1.33	Preset close-loop reference 1~15	-10.00V ~10.00V	0.01V	0.00V	0	0~2000
C1.34	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				
		negative and the drive				
C1.35	Sleep function	operate reverse. 0: Disable	1	0	0	0~1
	selection	1: Enable.				
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 0~1000
	up io toi		0.170	20.070	. ~	- 1000

Function code	Name	Descriptions	Unit	Factory setting	Modif	Setting range
C2.00	Simple PLC operation mode selector	C2: Simple PLC Unit's place of LED: PLC operation mode 0: No function 1: Stop after single cycle 2: Keep final states after single cycle 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	1	0000	×	0~1123H
		frequency when power off Thousand's place of LED: Time unit selector for each step 0: Second				
C2.01	Step 1 setting	I: Minute Unit's of LED: O: Multiple frequency N (N: corresponding to current step) I: 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: O: Forward I: Reverse 2: Defined by operation command Hundred's place of LED: O: Acc/Dec time 1 I: Acc/Dec time 2 2: Acc/Dec time 3 3: Acc/Dec time 4	1	000	0	0~323H
C2.02	Step 1 operating time	0.0~6500.0	0.1	20.0	0	0~65000
C2.03~ C2.30	Step N setting and Step N operating time	Step N setting is same as C2.01 Step N operating time same as C2.02	1 0.1	000 20.0	0	0~323H 0~65000
C3.00	Swing function	Group C3: Swing param 0: Disable	eters 1	0	×	0~1
	selector Swing Operation	1: Enable				
C3.01	mode	Unit's place of LED: Startup method 0: Auto mode1: By terminal Ten's place of LED: Swing control 0: Reference centre frequency 1: Reference max. frequency 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	1	0000	×	0~1111H
C3.02	Preset swing frequency	0.00Hz~Max. frequency	0.01Hz	0.00Hz	0	0~ 100000
C3.03	Waiting time for preset swing frequency	0.0~3600.0s	0.1s	0.0s	0	0~36000
C3.04 C3.05	Swing amplitude Jump frequency	0.0%~50.0% 0.0%~50.0%	0.1%	0.0%	0	0~500 0~500
C3.05 C3.06	Swing cycle	0.0%~50.0% 0.1~999.9s	0.1% 0.1s	0.0% 10.0s	0	0~500 1~9999
C3.07	Triangle wave	0.0%~100.0%	0.1%	50.0%	0	0~1000
	rising time	(Swing cycle)	0V			
d0.00	Main reference frequency	Group d0:Status displ -300.00~300.00Hz	ay 0.01Hz	0.00	*	0~60000
d0.01	Auxiliary reference frequency	-300.00~300.00Hz	0.01Hz	0.00	*	0~60000
d0.02 d0.03	Preset frequency Frequency after	-300.00~300.00Hz -300.00~300.00Hz	0.01Hz 0.01Hz	0.00	*	0~60000 0~60000
d0.03	Acc/Dec Output frequency	-300.00~300.00Hz	0.01Hz	0.00	*	0~60000

Function code	Name	Descriptions	Unit	Factory setting	Modif	Setting range	Function code	Name	•	Descriptions	Unit	Factory setting	Modif	Setting range
d0.05	Output voltage	0~480V	1V	0.0	*	0~480	110.00	IF (1	Group U0:Factory pa		F (-	
d0.06 d0.07	Output current Torque current	0.0~3Ie -300.0~+300.0%	0.1A 0.1%	0.0%	*	0~65535 0~6000	U0.00	Factory pass	word	Note:	1	Factory setting	_	0~FFFF
d0.07	Magnetic flux current	0~+100.0%	0.1%	0.0%	*	0~1000				Other parameters in this group can't display until		setting		
d0.09	Motor power	0.0~200.0(Corresponding to the motor's rated power)	0.1%	0.0%	*	0~2000				entering the right password.				
d0.10	Motor estimated frequency	-300.00~300.00Hz	0.01	0.00	*	0~60000	P0.00	Reserved		Group P0:Factory pa Reserved	rameters 1	Factory	*	0~65535
d0.11	Motor actual frequency	-300.00~300.00Hz	0.01	0.00	*	0~60000	Note:					setting		
d0.12	Bus voltage	0~800V	1V	0	*	0~800	•: Can b	e modified dur	ing oper	ation;				
d0.13	Drive operation status	0-FFFH bit0: Run/Stop bit1: Reverse/Forward bit2: Operating at zero frequency bit3: Accelerating bit4: Decelerating bit4: Decelerating bit5: Operating at constant speed bit6: Pre-commutation bit7: Tuning bit8: Over-current limiting bit8: Over-current limiting bit9: DC over-voltage limiting bit10: Torque limiting bit11: Speed limiting bit12: Drive fault bit12: Drive fault	1	0	*	0~FFFFH	 ×: Canno *: Actual -: Defat Applicat 1. Termina In many by the por Parameter 1) Pa Fi na At 	the modified lly detected and ulted by factor tion al control start y cases, inverte otentiometer o s settings and arameter settin rst of all, set uneplate. There 0.02=1 AII	during o d cannot y and ca ing, anal ar is ger r externa wiring di gs: t parame a do auto	perating;	terminals. The totadjust in the adjust in the ing to the mixing parameters.	the inverter notor paran ers:	running	g frequency
d0.14	Input terminals	bit13: Speed control bit14: Torque control 0~FFH,	1	00	*	0~FFH		ontrol board. 0.04=1 Op	perating of	commands are given by ter	minal.			
d0.14	status Output terminals	0~FFH, 0: OFF; 1: ON 0~1FH,	1	00	*	0~FFH 0~1FH				nning is allowable. ing forward when X1 is va	alid.			
40.15	status	0: OFF; 1: ON	1	0		0 11 11				ing reverse when X2 is va				
d0.16	AI input	-10.00~10.00V	0.01V	0.00	*	0~2000		viring:						
d0.19	Percentage of AI after regulation	-100.00%~110.00%	0.01%	0.00	*	0~20000			/	R U	mot	or		
d0.24	Process close-loop reference	-100.0~100.0% (Ratio of the full range)	0.1%	0.0%	*	0~2000		three phase AC power supply	/	s v	M) grou	unding	
d0.25	Process close-loop feedback	-100.0~100.0% (Ratio of the full range)	0.1%	0.05%	*	0~2000			/	T W PE		-		
d0.26	Process close-loop error	-100.0~100.0% (Ratio of the full range)	0.1%	0.0%	*	0~2000		grou	nding	major loop control loop	groundin	ng		
d0.27	Process close-loop	-100.0~100.0% (Ratio of the full range)	0.1%	0.0%	*	0~2000		rev	ersal	+100 0				
d0.28	Temperature of heat sink 1	0.0~150.0℃	0.1℃	0.0	*	0~1500		for	eward	-⊕ X2 -⊕ X1	•()	potentiome	ter	
d0.29	Temperature of heat sink 2	0.0~150.0℃	0.1℃	0.0	*	0~1500				–⇔ COM GND ©				
d0.30	Total conduction time	0~65535 hours	1 hours	0	*	0~65535								
d0.31	Total operating time	0~65535 hours	1 hours	0	*	0~65535	2. Termina	al control start	ing, mult	i-speed operation.				
d0.32	Total fan's operating time	0~ 65535 hours	1 hours	0	*	0~65535	Control terminals.	VFD starting	via term	iinal, set VFD running at	10HZ, 30HZ	, 50HZ. Sw	itch freq	uency by X
d0.33	ASR controller output	-300.0~300.0% (Corresponding to drive's rated torque)	0.1%	0.0%	*	0~6000				up b0 according to the mo owing parameters:	tor parameter	rs on the mo	otor nam	eplate. Ther
d0.34~ d0.56	Reserved	Reserved	1	0	*	0~65535		arameter settin 0.02=0 Ma	•	ency is set by A0.03.				
14.05		Group d1:Fault record							-	K3 are invalid, main freque	ency is 10HZ.			
d1.00 d1.01	Fault record 1 Bus voltage of the latest failure	0~55 0~999V	1 1V	0 0V	*	0~50 0~999	A	0.04=1 Op	perating of	commands are given by ter s valid, motor run forward	minals.			
d1.02	Actual current of the latest failure	0.0~999.9A	0.1A	0.0A	*	0~9999	A	6.01=27 W	hen X2 i	s valid, preset frequency 1	as main frequ	•		
d1.03	Operation frequency of the latest failure	0.00Hz~300.00Hz	0.01Hz	0.00Hz	*	0~30000	C	0.00=30 Se	t preset f	s valid, preset frequency 2 requency 1=30HZ. requency 2=50HZ.	as main frequ	ленсу.		
d1.04	Operation status of the latest failure	0~FFFFH	1	0000	*	0~FFFFH	2) W	iring:						
d1.05	Fault record 2	0~55	1	0	*	0~50				- [-		motor		
d1.06	Fault record 3	0~55 Group d2:Product Identity P	1 arameters	0	*	0~50		three AC pow	phase		v t	M		
d2.00	Serial number	0~FFFF	1	100	*	0~65535		AC POV supply				m Th		
d2.01	Software version number	0.00~99.99	1	1.00	*	0~9999		-	groundi	Ι.,	E grou	nding		
d2.02	Custom-made version number	0~9999	1	0	*	0~9999				control loop				
d2.03	Load type selection	0: Heavy load G 1: Light load L 2~9: Reserved	1	0	×	0~9		sele mult	i frequ ction 1 i frequ	ency X3				
d2.04	Rated voltage	Output power,0~999.9KvA (Dependent on drive's model)	0.1KVA	Factory setting	*	0~9999			ct <u>ion 2</u> ward	× 1				
d2.05	Rated current	0~999.9A (Dependent on drive's model)	1V	Factory setting	*	0~999			L	ф СОМ				
d2.06	Rated current	0~999.9A (Dependent on drive's model)	0.1A	Factory setting	*	0~9999								



