User Manual

1 Safety Precautions

Please read this manual carefully before transportation, installation, operation and maintenance of this product, and follow all safety precautions in this manual in any of the practices; if fail to do so, it may introduce the risk of personal injury (including the potential for death) or equipment damage. We will not be liable for any injuries and equipment damage caused by your or your customer's negligence and failure to follow our instructions.

1.1 Security information definition

- Danger: Failure to comply with relevant requirements may cause serious personal injury and even death.
 Warning: Failure to comply with relevant requirements may result in personal injury or
- equipment damage.
 Notice: Steps need to be taken to ensure correct operation.
- Trained and qualified professionals: The staff who have passed required professional electrical training and safety education to become familiar with the installation, commission, operation and maintenance of this equipment and the knowledge to avoid all kinds of emergency situations.

1.2 Warning signs

The warnings are used to warn the situations that may cause serious personal injury or equipment damage with suggestions to avoid said risk. The following warning signs are the ones used in this manual:

Sign	Name	Description	
	Danger	Failure to comply with the relevant requirements will cause	
$\overline{1}$	Dangei	serious personal injury and even death.	
A	warning	Failure to comply with relevant requirements may lead to	
<u>/!\</u>	warning	personal injury or equipment damage.	
	Static	Failure to comply with relevant requirements may damage	
12	sensitive	the PCBA board.	
	High	The base of the VFD generates high temperature. Do not	
	temperature	touch that area.	
NOTICE	NOTICE	Steps need to be taken to ensure correct operation.	

1.3 Safety guidance

Only trained and qualified personnel are allowed to perform related operations. Do not perform wiring, inspection, and replacement of components while the power is on.Before wiring and checking, first must ensure that all input power has

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been disconnected, and then wait at least 10 minutes or check if the DC bus voltage is lower than 36V.

F0-01	Preset frequency	0.00Hz ~ Max. frequency (F0-09)	50.00Hz	☆
F0-02	Main frequency source X selection	0: Digital setting (preset frequency F0-01, UP/DOWN modifiable, data loss when power off) 1: Digital setting (preset frequency F0-01, UP/DOWN modifiable, power off memory) 2: A11 3: A12 (rotary potentiometer) 4: PULSE pulse setting (DI5) 5: Multiple instructions 6: Simple PLC 7: PID 8: Communication setting	0	*
F0-03	Auxiliary frequency source Y selection	Same as F0-02 (Main frequency source X selection)	0	*
F0-04	Y range selection of auxiliary frequency source during superposition	0: Relative to the maximum frequency 1: Relative to frequency source X	0	☆
F0-05	Y range of auxiliary frequency source when superposition	0% ~ 150%	0%	\$
F0-06	Frequency source superposition selection	Units digit: Frequency source selection 0: Main frequency source X 1: Result of Main and auxiliary calculation (the algorithm used here is determined by the tenth digit) 2: Switch between main frequency source X and auxiliary frequency source X and result of main and auxiliary calculation results 4: Switch between auxiliary frequency source Y and result of main and auxiliary calculation Tens digit: Algorithm of main and auxiliary frequency source calculation 0: Main + Auxiliary 1: Main—Auxiliary 2: The bigger one of the two 3: The smaller one of the two	00	\$
F0-07	Frequency digital setting memory after shutdown	0:dumped ; 1:saved	0	☆

- Unauthorized modification of the VFD is strictly prohibited; otherwise it may cause fire, electric shock or injuries.
- When the machine is running, the base of the radiator may generate high
- temperature. Do not touch that area to avoid burns.
- The electronic components in the VFD are electrostatic sensitive. Anti-static measures The electronic components in use must be taken during operation.

2 Keyboard operation

2.1 LED Indicator

LED	LED Indicator		Messages
Hz	Red	Solid On	Output frequency value is displayed on the LED screen.
A	Red	Solid On	Output current value is displayed on the LED screen.
V	Red	Solid On	Output voltage value is displayed on the LED screen.
A and V	Red	Solid on	Output power value is displayed on the LED screen.
RUN	Red	Solid on	The VFD is running.
	Red	Solid on	Terminal start stop control mode
LOCAL/REMOT		Solid off	Panel start stop control mode
		Flashing	Communication start stop control mode
FWD/REV Red		Solid on	The motor is in reverse running state
		Solid off	The motor is in forward running state
	Red	Solid on	Torque control mode
TUNE (TO		Fast flashing	Fault state
TUNE/TC		Slow flashing	Parameter self-learning state

2.2 Function Buttons

Function Button	Description		
PRG/ESC	To enter or exit setting mode.		
DATE/ENT	To confirm the selection/value in setting mode.		
RUN	In the keyboard operation mode, used for running operation		
	• In the running state, press this button to stop the running operation;		
STOP/RST	• In the fault alarm state, it can be used for reset operation. The feature		
310P/R31	of this key is restricted by the function code FA -01 (STOP/RST key		
	function).		
A	To increase the setting value.		
•	To decrease the setting value.		
►► /SHIFT	In the shutdown display interface and operation display interface, the		
	parameters to be displayed can be selected circularly; when modifying the		
	parameters, the modification bit of the parameters can be selected.		

	Operation direction selection	0: Default direction (FWD/REV		\$
F0-08		indicator off)	0	
		1: Opposite of the default direction (FWD/REV indicator always on)		
F0-09	Maximum frequency	50.00Hz ~ 500.00Hz	50.00Hz	*
		0: F0-11 setting		
	Upper limit	1: AI1	1	
F0-10	frequency source	2: AI2 (Rotary potentiometer)	0	*
	inequency source	3: PULSE pulse setting]	
		4: Communication setting		
	Upper frequency	Lower limit frequency F0-12 ~	50.0011	
F0-11		Maximum frequency F0-09	50.00Hz	☆
F0-12	Lower limit frequency	0.00Hz ~ Upper limit frequency F0-11	0.00Hz	☆
		0.00s ~ 650.00s(F0-15=2)	Model	
F0-13	Acceleration time 1	0.0s ~ 6500.0s(F0-15=1)	determi	☆
		0s ~ 65000s(F0-15=0)	nation	
	Deceleration time	0.00s ~ 650.00s(F0-15=2)	Model	
F0-14	Deceleration time	0.0s ~ 6500.0s(F0-15=1)	determi	☆
	1	0s ~ 65000s(F0-15=0)	nation	
	Acceleration and	0: 1s		*
F0-15	deceleration time unit	1: 0.1s	1	
		2: 0.01s		
	Base frequency of acceleration and	0: Maximum frequency (F0-09)		*
F0-16		1: Set frequency (F0-01)	0	
	deceleration time	2: 100Hz		
			Model	
F0-18	Carrier frequency	0.8kHz \sim 8.0kHz	determi	☆
		0.00	nation	
		0: Disable		
		1: Enable (carrier frequency lower		
	Temperature	limit 1 KHz)		
F0-19	based adjustment	2: Enable (carrier frequency lower	1	
F0-19	for carrier	limit 2 KHz) 3: Enable (carrier frequency lower		$\stackrel{\circ}{\simeq}$
	frequency	limit 3 KHz)		
		4: Enable (carrier frequency lower		
		limit 4 KHz)		
		Units digit: Operation panel command		
		binding frequency source selection		
		0: No binding	1	
		1: Digital setting frequency		
50.20	Command source	2: AI1	000	
F0-20	bundling frequency	3: AI2 (rotary potentiometer)	000	\$
	Jource	4: PULSE pulse setting (DI4)		
		5: Multi-speed		
		6: Simple PLC		
		7: PID		

QUICK/JOG	• When FF-03 is not equal to 0, different menu modes can be switched
	according to the values in FF-03.
	• When FF-03 is equal to 0, specific functions can be selected according
	to the value in FA-00, such as command source switching, forward /
	reverse switching, etc
	 Adjust the output frequency;
	 Adjust the output frequency with the main frequency;
Potentiometer	 Limit the maximum torque;
	 Adjust the upper limit of output frequency;
	 Adjust the output voltage amplitude when V/F is separated.

2.3 Standard wiring

The function for each terminal is as below:					
Terminal symbol	Terminal name	Function description			
R _N S _N T	Three-phase AC input terminals	Three-phase AC power connection			
10, 5, 1		point			
L1, L2	Single-phase power input	Single-phase AC power supply			
	terminal	voltage connection point			
P+、PB	Braking resistor connection terminal	Brake resistor connection point			
U, V, W	Three-phase AC output terminals	Connect to three-phase motor			
	Ground terminal	connect to the ground			

The function of each control terminals is as stated below:

Category	Terminal Label	Name	Description
Analog input	AI1	Analog input terminal 1	Analog voltage/current input
Analog output	AO1	Analog output terminal 1	Analog voltage/current output
	DI1	Digital input terminal 1	Normal digital input
	DI2	Digital input terminal 2	Normal digital input
	DI3	Digital input terminal 3	Normal digital input
Digital input	Linnut DI4 Digital input terminal 4	Normal digital input/high frequency pulse input	
	DI5	Digital input terminal 5	Normal digital input/high frequency pulse input
	COM Digital input common Digital input c		Digital input common terminal
Digital output	DO1	Digital output terminal 1	Normal digital output/high frequency pulse output

		8: Communication setting Tens digit: Terminal command binding frequency source selection (As same as the unit digit) Hundreds digit: Communication command binding frequency source selection (As same as the unit digit) 0: Operation panel command channel (LED off)		
F0-21	Command source selection	1: Terminal command channel (LED on) 2: Communication command channel (LED flashing)	0	☆
F0-22	GP type display	1: G type (constant torque load) 2: P type (air blower, pump load)	Model determi nation	•
	F1 set (Start/Stop control parar	neters)
F1-00	Start method	0: Direct start-up 1: Speed tracking start-up	0	☆
F1-01	Speed tracking method	0: Start from the stop frequency1: Start from zero speed2: Start from the maximum frequency	0	*
F1-02	Start frequency	0.00Hz~10.00Hz	0.00Hz	\$
F1-03	Start frequency hold time	0.0s~100.0s	0.0s	*
F1-04	Start DC braking current	0~100%	0%	*
F1-05	Start DC braking time	0.0s~100.0s	0.0s	*
F1-06		0: By deceleration control 1: Free stop	0	☆
F1-07	Start frequency of DC braking stop	0.00Hz ~ Maximum frequency	0.00Hz	\$
F1-08	Waiting time of DC braking stop	0.0s~100.0s	0.0s	☆
F1-09	DC braking stop current	0%~100%	0%	\$
F1-10	DC braking stop time	0.0s~100.0s	0.0s	☆
F1-11	Acceleration and deceleration method	0: Linear acceleration and deceleration 1: S curve acceleration and deceleration A 2: S curve acceleration and deceleration B	0	*
F1-12	S curve start time ratio	0.0%~(100.0%-F1-13)	30.0%	*
F1-13	S curve end time ratio	0.0%~(100.0%-F1-12)	30.0%	*

	10V	+10V power supply	Provide +10V power supply
	GND	+10V power ground	Reference ground for analog signal and +10V power supply
Power supply	24V	+24V power supply	Provide +24V power supply, which can be used as power supply for digital input and output terminals and external sensor power supply Maximum output current: 200mA
	СОМ	+24V power supply	Ground reference for analog signals and +24V power supply

NO.	Name	Pin number	Function	Factory setting
J13	AI1	1 2 3 0	12: Voltage intput (0 \sim 10V) 23: Current intput (0 \sim 20mA)	0~10V
J10	A01	1 2 3 0	12: Voltage output (0 \sim 10V) 23: Current output (0 \sim 20mA)	0~10V
J12	PW	1 2 3 0	12: Source type wiring method 23: It is a sink type wiring method	Source type
J11	CME	1 2 3 0	Optocoupler isolation, bipolar open collector output; Output voltage range: $0V \sim 24V$; Output current range: $0MA \sim 50mA$; Note: The digital output ground CME is internally isolated from the digital input ground COM. By default, it is connected internally through J11. When the DO is driven by an external power supply, J11 must be disconnected.	Short circuit COM

3 Function parameter list

" \bigstar ": It is modifiable no matter the VFD is in stop or running mode;

" \star ": It is not modifiable if the VFD is running;

"●": It is non-modifiable because it is a test record.

Note: This function code table only reflects part of the function codes of this product. For details, please refer to the actual function codes of the machine.

Code	Name	Range	Default	Modification		
	F0 set (Basic function)					
F0-00	First motor control method	0: Speed sensor less vector control (SVC)	1	*		
	meaned	1: V/F control				

	Dynamic braking	Single phase: 200.0 ~ 410.0V	350.0	
F1-14	point	Three-phase: 310.0 ~ 800.0V	700.0	☆
F1-15	Brake usage rate	0~100%	100%	☆
F1-16	Motor speed tracks tempo	1~ 100	20	☆
F1-17	Motor speed tracks close-loop current KP	0~ 1000	500	☆
F1-18	Motor speed tracks close-loop current KI	0~ 1000	800	☆
F1-19	Motor speed tracks close-loop current value	30~ 200	100	*
F1-20	Motor speed tracks close-loop current limit value	10~ 100	30	*
F1-21	Motor speed tracks voltage rise time	0.5~ 3.0	1.1	*
F1-22	De-magnetizing time	0.00~ 5.00	1.00	*
	F3 set (First	t motor vector control p	arame	ters)
F3-00	Motor rated power	0.1kW \sim 1000.0kW	Model determi nation	*
F3-01	Motor rated voltage	$1V \sim 600V$	Model determi nation	*
F3-02	Motor rated current	0.01A ~ 655.35A (VFD power ≤55kW) 0.1A ~ 6553.5A (VFD power >55kW)	Model determi nation	*
F3-03	Motor rated frequency	0.01Hz ~ Maximum frequency	Model determi nation	*
F3-04	Motor rated speed	1rpm \sim 65535rpm	Model determi nation	*
F3-05	Asynchronous motor stator resistance	0.001Ω ~ 65.535Ω (VFD power≤55kW) 0.0001Ω ~ 6.5535Ω (VFD power>55kW)	Tuning paramet ers	*
F3-06	Asynchronous motor rotor resistance	0.001Ω ~ 65.535Ω (VFD power≤55kW) 0.0001Ω ~ 6.5535Ω (VFD power>55kW)	Tuning paramet ers	*
F3-07	Asynchronous motor leakage inductance	0.01mH ~ 655.35mH (VFD power ≤ 55kW) 0.001mH ~ 65.535mH (VFD	Tuning paramet ers	*

		power>55kW)		
F3-08	Asynchronous motor mutual inductance	0.1mH ~ 6553.5mH (VFD power≤55kW) 0.01mH ~ 655.35mH (VFD power>55kW)	Tuning paramet ers	*
F3-09	Asynchronous motor no-load current	0.01A ~ F3-02 (VFD power≤55kW) 0.1A ~ F3-02 (VFD power>55kW)	Tuning paramet ers	*
F3-10	Tuning options	0: No operation 1: Asynchronous machine static parameter tuning 2: Asynchronous machine dynamic complete tuning 3: Asynchronous machine static complete tuning	0	*
	F6	set (Input terminal parameter	s)	
F6-00	DI1 terminal function options DI1 terminal function options	0: No function 1: Forward running FWD or running command 2: Reverse running REV or forward and reverse direction command (NOTICE: (Note: When set to 1, 2, it needs to be used in conjunction with F6-13 terminal command mode) 3: Three-line operation control 4: Forward jog (FJOG) 5: Reverse jog (RJOG) 6: Terminal UP 7: Terminal DOWN	1	*
F6-01	DI2 terminal function options	8: Free stop 9: Fault reset (RESET) 10: Operation pause 11: External fault normally open input 12: Multi-section command terminal 1 0: No function 13: Multi-segment command terminal 2 14: Multi-stage command terminal 3 15: Multi-section command terminal 4 16: Acceleration/deceleration time selection terminal 1	4	*

	 31: Zero current state 32: Module temperature reached 33: Output current limit exceeded 34: Lower limit frequency reached (also output when the inverter stops) 35: Alarm (all faults) 36: Operation Times Up 37: Fault (only for free stop faults and not for undervoltage faults) 30: Operation frequency 		
AO output function selection	1: Set frequency 2: Output current 3: Output torque (absolute value of torque) 4: Output power 5: Output voltage 6: PULSE input (100.0% corresponds to 100.0kHz) 7: A11 8: A12 (keyboard rotary potentiometer)	0	☆
High-speed pulse output function selection	9: Lengm 10: count value 11: Communication settings 12: Motor speed 13: Output current (100.0% corresponds to 1000.0A) 14: Output voltage (100.0% corresponds to 1000.0V) 15: Output torque (actual torque value)	0	☆
Maximum frequency of high- speed pulse output	0.01kHz~100.00kHz	50.00kH z	☆
AO bias coefficient	-100.0%~+100.0%	0.0%	☆
AO gain	-10.00~+10.00	1.00	☆
AO output filter time	0.000s~1.000s	0.000s	☆
RELAY1 output delay time	0.0s~3600.0s	0.0s	☆
DO output delay time	0.0s~3600.0s	0.0s	☆
DO output valid state selection	0: Positive logic 1: Inverse logic Units digit: RELAY1 Tens digit: DO1	00	☆
FA set		eters)	
QUICK/JOG key function	0: QUICK/JOG disabled 1: Switch between operation panel command channel and remote command channel (terminal command channel) 2: Forward and reverse switching 3: Forward jog	0	*
	selection High-speed pulse output function selection Maximum frequency of high- speed pulse output AO bias coefficient AO gain AO output filter time RELAY1 output delay time DO output delay time DO output valid state selection FA set	32: Module temperature reached 33: Output current limit exceeded 34: Lower limit frequency reached (also output when the inverter stops) 35: Alarm (all faults) 36: Operation Times Up 37: Fault (only for free stop faults) and not for undervoltage faults) 0: Operating frequency 1: Set frequency 2: Output torque (absolute value of torque) 4: Output power 5: Output voltage 6: PULSE input (100.0% corresponds to 100.0kHz) 7: All 8: Al2 (keyboard rotary potentiometer) 9: Length 10: count value 11: Communication settings 12: Motor speed 13: Output torque (actual torque value) Maximum frequency of high- speed pulse output 0.01kHz~100.00kHz Speed pulse output AO bias coefficient -100.0%~+100.0% AO output filter ime 0.00s~3600.0s Do output valid state selection Ciperative logic 1: Inverse logic 1: Inverse logic <td>32: Module temperature reached 33: Output current limit requency 34: Lower limit frequency reached (also output when the inverter stops) 35: Alarn (all faults) 36: Operation Times Up 37: Fault (only for free stop faults and not for undervoltage faults) 0: Operating frequency 1: Set frequency 2: Output current 3: Output torure 0: Output torure 0: Output torure 0: Output torure 0: Ength 10: count value 11: Communication settings 12: Motor speed 13: Output torures (100.0% corresponds to 1000.0% corresponds to 1000.0% corresponds to 1000.0% 2 0.01kHz~100.00kHz</td>	32: Module temperature reached 33: Output current limit requency 34: Lower limit frequency reached (also output when the inverter stops) 35: Alarn (all faults) 36: Operation Times Up 37: Fault (only for free stop faults and not for undervoltage faults) 0: Operating frequency 1: Set frequency 2: Output current 3: Output torure 0: Output torure 0: Output torure 0: Output torure 0: Ength 10: count value 11: Communication settings 12: Motor speed 13: Output torures (100.0% corresponds to 1000.0% corresponds to 1000.0% corresponds to 1000.0% 2 0.01kHz~100.00kHz

F6-02	DI3 terminal function options	 Acceleration and deceleration time selection terminal 2 Frequency source switching UP/DOWN setting clear (terminal, keyboard) Control command switching terminal 1 Prohibition of acceleration and deceleration PID pause PLC status reset Set Sum of requency pause 	9	*
F6-03	DI4 terminal function options	25: Counter input 26: Counter reset 27: Length count input 28: Length reset 29: Disable torque control 30: PULSE frequency input (only valid for DI4) 31: Immediate DC braking 32: External fault normally closed input	12	*
F6-04	DI5 terminal function options	 33: Enable frequency modification 34: Reverse PID action direction 35: External stop terminal 1 36: Control command switching terminal 2 37: Suspend PID integration 38: Frequency source X and preset frequency switch 39: Frequency source Y and preset frequency switch 40: PID parameter switching 41: User-defined fault 1 42: User-defined fault 2 43: Speed control/torque control switch 44: Emergency stop 45: External stop terminal 2 46: Deceleration DC braking 47: Clear the current running time 	13	*
F6-05	DI filter time	0.000s~1.000s	0.010s	☆
F6-06	DI1 delay time	0.0s~3600.0s	0.0s	☆
F6-07	DI2 delay time	0.0s~3600.0s	0.0s	☆
F6-08	DI3 delay time	0.0s~3600.0s	0.0s	☆
F6-09	DI4 delay time	0.0s~3600.0s	0.0s	☆
F6-10	DI terminal active mode options	0: Active high 1: Active low Units digit: DI1	0	*

			igit: DI2		
			eds digit: DI3		
			ands digit: DI4 ousand digit: DI5		
			-line mode 1		
	Terminal command		-line mode 2		
F6-11	mode		ee-line mode 1	0	*
	mode		ee-line mode 2		
F6-12	Terminal UP/DOWN change rate		lz/s~65.535Hz/s	1.000Hz /s	☆
F6-13	AI curve 1 minimum input	0.00V^	~F6-15	0.00V	☆
F6-14	AI1 curve minimum input corresponding setting	-100.0	%~+100.0%	0.0%	☆
F6-15	AI curve 1 maximum input	F6-13	~+10.00V	10.00V	☆
F6-16	AI1 curve maximum input corresponding setting	-100.0	%~+100.0%	100.0%	\$
F6-17	AI1 filter time	0.00s~	~10.00s	0.10s	☆
F6-18	AI2 curve 2 minimum input	0.00V~	~F6-20	0.00V	☆
F6-19	AI2 curve 2 minimum input corresponding setting	-100.0	%~+100.0%	100.0%	☆
F6-20	AI2 curve 2 maximum input	F6-18	~+10.00V	2.80V	☆
F6-21	AI2 curve 2 maximum input corresponding setting	-100.0	%~+100.0%	0.0%	\$
F6-22	AI2 filter time	0.00s~	-10.00s	0.10s	☆
		digit	AI1 curveselection		
		1	Curve 1 (2 points, see F6-13 ~ F6-14)		
F6-23	AI curve selection	2	Curve 2 (2 points, see F6-18 ~ F6-19)	21	☆
	3		Curve 3 (6points, see P3-04 \sim P3-15)		
		Tens digit	AI2 curve selection (same digit)		
F6 24	Options for AI	Units digit	Option for AI1 lower than the minimum input setting	00	
F6-24	lower than	0	Minimum input setting	00	☆

FA-01	STOP/RST key function	0: Only in keyboard operation mode, the stop function of STOP/RST key is enabled 1: In any operation mode, the stop function of the STOP/RST key is enabled	1	☆
FA-02	LED display parameters 1 for operation mode	0000 ~ FFFF Bit00: Operation frequency 1 (Hz) Bit01: Set frequency (Hz) Bit02: Bus voltage (V) Bit03: Output voltage (V) Bit04: Output power (kW) Bit05: Output power (kW) Bit05: Output torque (%) Bit06: Output torque (%) Bit08: DO output status Bit08: DO output status Bit09: AII voltage (V) Bit11: AI2 voltage (V) Bit11: Count value Bit12: Length value Bit13: Load speed display Bit14: PID setting	003F	×
FA-03	LEDLED display parameters 2 for operation mode	Bit15: PID feedback 0000 ~ FFFF Bit00: PLC stage Bit01: PULSE input pulse frequency (kHz) Bit02: Operation frequency 2 (Hz) Bit03: Remaining operation time Bit05: Current power-on time (Hour) Bit07: PULSE input pulse frequency (Hz) Bit07: PULSE input pulse frequency (Hz) Bit08: Communication setting value Bit09: Main frequency X display (Hz) Bit10: Auxiliary frequency Y display (Hz) Bit11: Target torque value Bit12: Power factor angle Bit13: VF separation target voltage (V) Bit14: Visual display of DI input status	0000	*
FA-04	LED display parameters for stop mode	0001~FFFF Bit00: Set frequency (Hz) Bit01: Bus voltage (V) Bit02: DI input status Bit03: DO output status Bit04: AI1 voltage (V) Bit05: AI2 voltage (V) Bit06: Count value	0033	☆

		D:+07. 1	h		
		Bit07: Lengt			
		Bit08: PLC s			
		Bit09: Load	Speed E input pulse frequency		
		(kHz)	E input pulse frequency		
	Load croad dicplay				
FA-05	Load speed display coefficient	0.0001~6.5	000	1.0000	☆
	Inverter module				
FA-06	radiator	0.0℃~100.	0°C	-	•
	temperature				
FA-07	Cumulative	0h~65535h		-	•
-	operation time				
		Unit digit	Load speed display U0- 14 decimal places		
		0	0 decimal digit		
		1	1 decimal digit		
		2	2 decimal digits		
FA-08	Load speed display	3	3 decimal digits	21	\$
I A-00	decimal places		Feedback speed U0-19,	21	×
		Tens digit	actual feedback speed		
		Teris ulgic	U0-34 display decimal		
			places		
		1	1 decimal place		
		2	2 decimal place		
FA-09	Accumulated power-on time	0~65535h		-	•
	Accumulated				
FA-10	power	0~65535kw/h		-	•
	consumption				
FA-11	Product code	-		-	•
FA-12	Software version				
FA-1Z	number	-		-	•
	Modbus protocol				
FA-13		-		-	•
	version				
		(Control	optimization parame	ters)	
-	DPWM switching				.
FB-00	upper limit	0.00Hz ~ 15	o.00Hz	12.00Hz	☆
	frequency				
FB-01	PWM modulation		nous modulation	0	\$
	method		ous modulation	-	<u>^</u>
			PWM is invalid		
FB-02	Random PWM		M carrier frequency	0	☆
		random dep	th		
FD 00	Dead zone	0: Disable			.
FB-03	compensation mode selection	1: Enable		1	\$
FB-05	Wave-by-wave	0: Disable		1	*
10-03	current limit enable	1: Enable		1	ਸ
FB-07	Undervoltage point	Single phase	e: 140.0 ~ 400.0V	200.0	*
			15		

	minimum input	1	0.0%]
		Tens	AI2 is lower than the	1	
		diait	minimum input setting		
		uigit	selection (same digit)		
F6-25	PULSE minimum input	0.00kH	lz∼F6-27	0.00kHz	☆
F6-26	PULSE minimum input corresponding setting	-100.0	%~100.0%	0.0%	☆
F6-27	PULSE maximum input	F6-24~	~100.00kHz	50.00kH z	\$
F6-28	PULSE maximum input corresponding setting	-100.0	%~100.0%	100.0%	☆
F6-29	PULSE filter time	F6-24~	~100.00kHz	50.00kH z	☆
	F7 :	set (O	utput terminal paramete	rs)	
F7-00	Digital output selection	1: Nori	n-speed pulse output mal digital output	0	☆
F7-01	RELAY1 output function selection	2: Faul 3: Frec output 4: Frec 5: Run when i 6: Mot 7: Inve 8: Set 9: Desi 10: Lee 11: PL0 12: Act reache 13: Fre 9: Desi 10: Lee 11: PL0 12: Co reache 13: Frec 9: Desi 10: Lee 11: PL0 12: Co 12: Co	rtér-in-operation t output (for free stop fault) juency level detection FDT1 juency level detection FDT1 juency reached ning at zero speed (no output nyerter stops) or overload pre-alarm or overload pre-alarm or overload pre-alarm ocunt value reached gignated count value reached gignated count value reached d c cycle completed cumulated operation time d eque being limited eration ready per limit frequency reached wer limit frequency reached	0	Å
F7-02	DO output function selection	(operai 18: Un 19: Co 20: Op (also o 21: Aco 22: Fre 23: Fre 24: Fre 25: Cu 26: Cu 27: Tin 28: AII 28: AII 29: Loo	tion related) dervoltage status output mmunication settings eration at zero speed signal 2 utput when operation stops) cumulated power-on time	1	\$

	setting	Three-phase: 200.0 ~ 2000.0V	350.0			
FB-08 Overvoltage point		Single phase: 150.0 ~ 410.0V	400.0	-		
FD-00	setting	Three-phase: 200.0 ~ 2500.0V	810.0	×		
	a.c	0: Not optimized				
FB-09	SVC optimization mode selection	1: Optimization mode 1	2	*		
	mode selection	2: Optimization mode 2	1			
FF set (PID function parameters)						
FF-00	User password	0 ~ 65535	0	☆		
		0: No operation				
		1: Restore parameters to factory	1			
	Parameter	values, except motor parameters				
FF-01	initialization	2: Clear recorded data	0	*		
	IIIIIIdii2du0II	4: Backup user's current parameters]			
		5: Restore to user's backup				
		parameters				

Fault Code	Туре	Fault Code	Туре	Fault Code	Туре
E01	Wave-by-wave current limiting fault	E10	Inverter overload	E22	Motor is short to ground
E02	Overcurrent when accelerating	E11	Motor overload	E23	Operation time is reached
E03	Overcurrent when decelerating	E13	Output phase loss	E24	User-defined fault 1
E04	Overcurrent during constant speed operation	E14	Module overheating	E25	User-defined fault 2
E05	Overvoltage during acceleration	E15	External fault	E26	Power-on time is reached
E06	Overvoltage during deceleration	E16	Abnormal communication	E27	Load loss
E07	Overvoltage during constant speed operation	E18	Abnormal current detected	E28	PID feedback lost during operation
E08	Snubber resistor overload	E19	Abnormal motor tuning	E29	Speed deviation is too large
E09	Undervoltage	E20	EEPORM parameter read and write error	E42	Temperature sensor failure