## 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;

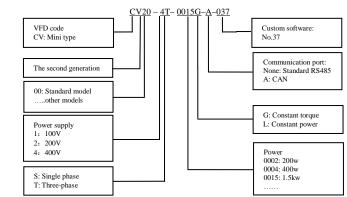
• Check whether the rated values on the nameplate of the drive are in accordance with your order. Our product is manufactured and packed at factory with great care. If there is any error, please contact us or distributors. The user manual is subject to change without notifying the customers due to the 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:**

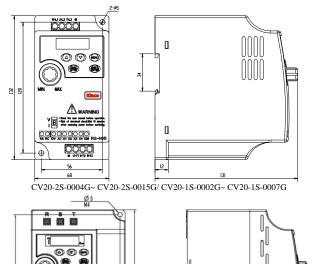
		General specifications
Item		Description
Input	Rated voltage and frequency	4T:3-phase,380V~440V AC; 50Hz/60Hz 2S:Single-phase,200V~240V;50Hz/60Hz 1S:Single-phase, 100~120V; 50/60HZ
	Allowable voltage range	4T: 320V~460V AC;2S:180V~260V; 1S: 90~132V Voltage tolerance<3%; Frequency: ±5%
	Rated voltage	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:





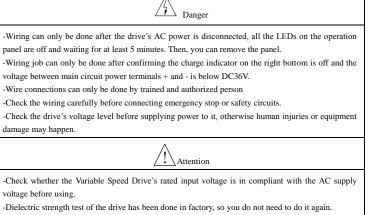
### CV20-4T-0007G~CV20-4T-0022G

		Me	echanica	l parame	eters				
VFD model		External dimension and (mm)							
<ul><li>(G: Constant torque load;</li><li>L: Draught fan and water pump load)</li></ul>	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									

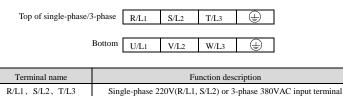
Operation Button	1 Description	
Deathan		D

Button	Description
$\bigtriangleup$	Increase the value or function
$\nabla$	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

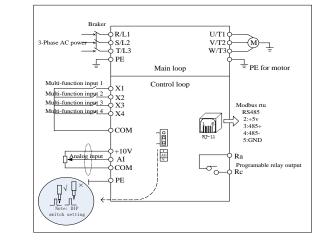
### Wiring:



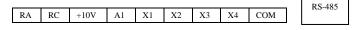
- voltage before using.
- -Refer to chapter 2 on connected braking resistor or braking kit.
- -It is prohibited to connect the AC supply cables to the drive's terminals U, V and W.
- -Grounding cables should be copper cables with section area bigger than 3.5mm2, and the grounding resistance should be less than  $10\Omega$ .
- -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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Fault code         Fault code         Fault constraints         Acc time is too short         Polong the Acc time Parameters of motical array of auto-stute the parameters of motical coded disc breaks down, when PG is in constraints         Polong the Acc time Coded disc breaks down, when PG is process of the code disc and the connection           0000         Over-current during	rauits	and actions		
Bong-current during acceleration         Parameters of motion are veroug (order disc breaks down, when PG is Drive power is not satiable (Drive no statiable)         Anni-state the parameters of motion (Order disc breaks down, when PG is Drive power is not satiable)         Select a higher power dive (Drive, adjust Drive, adjust (Drive, adjust)           000         Over-current during during during during during during during during during during during first is no big (Drive power is not satiable)         Order during (Drive power dive (Drive power dive (Drive power dive (Drive power dive)           000         Over-current first on satiable (Drive power dive (Drive power dive)         Order dive here dive (Drive power dive)           0000         Over-current first on satiable (Drive power dive)         Order dive here dive (Drive power dive)           0000         Over-current first on satiable power dive (Drive power dive)         Order dive here dive (Drive power dive)           0000         Over-current first on short acceleration time (Drive power dive)         Order dive first (Drive power dive)         Order dive (Drive power dive)           0000         Over voltage first on short acceleration time (Drive)         Too short acceleration time (Drive)         Order dive first (Drive)           0000         Over voltage first order dive (Drive)         Too short acceleration time (Drive)         Prolong acceleration (Drive)           0000         Over voltage first dive or order dive (Drive)         Too short acceleration time (Drive)         Prolong acceleration time (Driv			Possible reasons for fault	Actions
000000000000000000000000000000000000				
E001         during backbar ba		<u> </u>		*
acceleration         Drive power is no small         Select a higher power drive trape boots           0000         Over-current during decleration         Decleration time is too short         Prolong the Dec time           0000         Over-current in constant         Decleration time is too short         Condect statable braking kit           0000         Over-current in constant         Solder change of how short         Condect statable braking kit           0000         Over-current ince         Solder change of how short         Prolong Acceleration/Decleration time           0000         Over-current ince         Solder change of load or Abnormal load         Check the coded disc and the running         Check the coded state and the running           0000         Over voltage during         Choot braceleration time         Prolong Acceleration time           0000         Over voltage in         Too short Deceleration time         Prolong acceleration time           00000         Over voltage in         Abnormal AC supply voltage         Check the coded states and the runnin the vector outrin motion         Prolong acceleration time           00000         Over voltage in         Abnormal AC supply voltage         Check the Coded states and the runnin the vector outrin motion         Prolong Acceleration time           00000         Prolong Acceleration Deceleration time is too short         Prolong Acceleration time	E001		,	
Nore current over-current deceleration         Descleration time is too short         Prolong the Dec time           Over-current deceleration         The load generates energy or the load instable braking kit         Connect suitable braking kit           Nore-current deceleration         Drive power is too snall         Select a higher power drive connection           Nore-current in constant- spectra         Acceleration Deceleration time is too broth Deceleration time is too broth Deceleration time is too perition         Select a higher power drive connection           E004         Solden Change of load of Abnormal load (Coded disc breads down, when PG is connection)         Check the load           E004         Over voltage (Abnormal AC supply voltage)         Check the power supply connection time           E004         Over voltage (Abnormal AC supply voltage)         Check the power supply (Abnormal AC supply voltage)         Check the power supply (Abnormal AC supply voltage)           E005         Over voltage (Abnormal AC supply voltage)         Check the power supply (Abnormal AC supply voltage)         Check the power supply (Abnormal AC supply voltage)           E006         Over voltage (Abnormal AC supply voltage)         Check the AC supply voltage)         Check the AC supply voltage)           E007         Nore's contol (Abnormal AC supply voltage)         Check the AC supply voltage)         Check the AC supply voltage)           E008         Nordar AS apply voltage)         Check th	LOUI	0	ě	
Image: book interval is too short interval is too interval is too short interval is too				
Bore current during during decleration         The load generates energy or the load inertial is too big         Connect suitable braking kit           000         Corrent In constant speed operation         Acceleration /Decleration time is too bot         Poolong Acceleration Decleration time obset           000         Over-current In constant speed operation         Sudden change of load or Abnormal load         Check the load into an intervent short           000         Over-current In constant speed operation         Sudden change of load or Abnormal load         Check the cold disc and the connection           000         Over-current In constant speed         Cold disc breaks down, when PG is constant speed         Check the cold disc and the running           000         Over voltage in constant-speed in         Too short beceleration time         Prolong acceleration time           000         Over voltage in         Too short Deceleration time is too in the toor goal operation rental is too big         Connect suitable braking kit           0000         Over voltage in         Abnormal AC supply voltage         Connect suitable braking kit           0000         Over voltage in         Abnormal AC supply voltage         Check the AC supply voltage           0000         Over voltage in         Abnormal AC supply voltage         Check the AC supply voltage           0000         Uptury blase         Abnormal AC supply voltage         Check			V/F curve is not suitable	torque boost
Both Status         Connect surfabe having kit           connect surfabe having kit         Connect surfabe having kit           normal         Drive power is no small         Select a higher power drive           connect surfabe having kit         Select a higher power drive           normal         Acceleration Deceleration time is no         Polong Acceleration Deceleration time           constation Deceleration time         Check the codel disc and the connection           normal         Drive power is no small         Select a higher power drive           constation Deceleration time         Check the codel disc and the connection           constation Deceleration time         Prolong acceleration time           during acceleration time         Too short acceleration time (with refriet not to be provide to generation encry)         Prolong the deceleration time in the vector connorm mode           norw voltage in acceleration Deceleration time is nob in time in the vector connorm mode         Prolong Acceleration Check the power supply           norw supply process         Abnormal Ac supply voltage         Check the cower supply           norw supply process         Abnormal Ac supply voltage         Check the cower supply           norw supply process         Abnormal Ac supply voltage         Check the cower supply           norw supply process         Abnormal Ac supply voltage         Check the cower supply </td <td></td> <td></td> <td></td> <td>Prolong the Dec time</td>				Prolong the Dec time
B002         during deceleration         Coded disc breads down, when PG is mining         Check the coded disc and the connection           Hore current In constant         Drive power is too small         Select a higher power drive           Hore current In constant         Acceleration The celeration is is too interime         Prolong Acceleration Check the Load Interime           Hore current In constant         Edden change of load or Ahnormal Ioad         Check the coded disc and the mining           Hore current In constant         Coded disc breads down, when PG is mining         Check the coded disc and the momention           Hore comment In constant         Abnormal AC supply voltage         Check the power drive           Abnormal AC supply voltage         Check the power drive         Coded disc prediction time           Hore of the power drive         Too short acceleration time         Prolong deceleration time           Power voltage in         Too short acceleration time with reference to generated energy)         Prolong Acceleration Deceleration time           Power voltage in         Abnormal AC supply voltage         Check the Cost power drive dower voltage           Power voltage in         Abnormal AC supply voltage         Check the Cost power drive dower voltage           Power voltage in         Abnormal AC supply voltage         Check the drive and the power drive is obstructed           Power voltage in         Abnormal AC s		Over-current	0 01	Connect suitable braking kit
Process of the section of the sectin section of the sectin section of the section of the	E002	0		Check the coded disc and the
Over-current In constant- speed operation         Acceleration Deceleration time is too short         Prolong Acceleration/ Deceleration time           E005         Sudden change of load or Abnormal load operation         Coded disc and the numming         Check the aCS supply voltage           E004         Over voltage during acceleration         Drive power is too small         Select a higher power drive           E004         Over voltage during acceleration         Too short acceleration time         Prolong acceleration time           E005         Over voltage during acceleration         Too short acceleration time (with reference to generated energy)         Prolong the deceleration time           E006         Over voltage in reference to generated energy)         The load generates energy or the load intertial is too big         Connect suitable braking kit           E006         coestant-speed operating process         Morog ASR parameters, when drive run in the vector control mode         Refer to A5. ASR parameters setting           E007         power supply opers supply         Abnormal AC supply voltage         Check the power supply           B108         Any of phase R, S and T cannot be loss         Gheck the ACS supply voltage         Check the co's output viring           E008         Input phase         Any of phase U, V and W cannot be loss         Check the wiring and installation Check the ACS supply voltage           E009         Output phase <td></td> <td>deceleration</td> <td></td> <td></td>		deceleration		
Book         Source of the second of the			Drive power is too small	Select a higher power drive
Book         Studen change of load or Abnormal load         Check the load           Book         Law AC supply voltage         Check the AC supply voltage           Coded disc breaks down, when PG is running         Context the AC supply voltage         Check the coded disc and the connection           E004         Over voltage         Abnormal AC supply voltage         Check the power drive           Book         Over voltage         Abnormal AC supply voltage         Check the power drive           Book         Over voltage         Too short acceleration time (with reference to generate energy)         Prolong the deceleration time           B006         Over voltage         Too short acceleration ime (with in file is too big         Prolong Acceleration Deceleration           B006         Over voltage         Abnormal AC supply voltage         Check the power supply           B006         Over voltage         Abnormal AC supply voltage         Check the AC supply voltage           B007         Provis s control         Abnormal AC supply voltage         Check the AC supply voltage           B008         Iputse         Any of phase R, S and T cannot be loss         Check the AC supply voltage           B008         Iputse         Any of phase R, S and T cannot be loss         Check the witring and installation check the AC supply voltage           B001         Iputse				-
E003         In constant operation         Low AC supply voltage         Check the AC supply voltage           0         Coded disc breaks down, when PG is down acceleration         Check the coded disc and the connection           0         Over voltage during acceleration         Too short acceleration time         Polong acceleration time           0         Prover voltage during acceleration         Too short acceleration time reference to generated energy)         Prolong the deceleration time in the vector control mode         Prolong the deceleration time the vector control mode           0         Over voltage in         Acceleration Deceleration time is too big         Prolong the deceleration time the vector control mode         Refer to AS. ASR parameter setting (Acceleration Deceleration time is too big           0         Over voltage in         Acceleration Deceleration time is too short         Prolong the deceleration time           0         Over voltage in         Abnormal AC supply voltage         Check the power supply           0         Power supply         Abnormal AC supply voltage         Check the AC supply voltage           0         Input plase         Any of plase R, S and T cannot be lose         Check the dive's output wring the deceleration fine-to-ground short circuit           10         Instantaneous over-current         Refer to 5001-E003           10         Short-circuit among 3-phase outpuor         Rewring, plas		Over-current		
speed operation         Coded disc breaks down, when PG is running         Check the coded disc and the connection           00         Over voltage during         Abnormal AC supply voltage         Check the power stropy           00         Over voltage during         Too short acceleration time (with reference to generated energy)         Prolong acceleration time           00         Over voltage during         Too short acceleration time (with reference to generated energy)         Prolong the deceleration time inerital is too big           00         Over voltage in refail is too big         Connect suitable braking kit           00         Constant-speed operation         Morg ASR parameters, when drive run in the vector control mode         Prolong Acceleration/Deceleration time           000         constant-speed operation         Abnormal AC supply voltage         Check the power supply           001         prover supply         Abnormal AC supply voltage         Check the ACs supply voltage or sek service           000         prover supply         Abnormal AC supply voltage         Check the AC supply voltage or sek service           000         prover supply         Abnormal AC supply voltage         Check the wring and installation Check the AC supply voltage           000         prover supply         Abnormal AC supply voltage         Check the code supply voltage           0000         protencins of Instata	E003	In constant	* *	
operation         running         connection           Borner Verturge         Abnormal AC supply voltage         Check the power supply           Borner Verturge         Too short acceleration time         Prolong acceleration time           Borner Verturge         Too short acceleration time (with reference to generated energy)         Prolong the deceleration time           Borner Verturge         Too short acceleration time (with reference to generated energy)         Prolong the deceleration time           Borner Verturge         Too short acceleration time is too big         Connect suitable braking kit           Borner Verturge         Acceleration Deceleration time is too big         Prolong Acceleration/Deceleration           Borner Verturge         Abnormal AC supply voltage         Check the power supply           Over voltage         Abnormal AC supply voltage         Check the AC supply voltage over voltage         Check the AC supply voltage over voltage           Borner Verturge         Abnormal AC supply voltage         Check the AC supply voltage over voltage         Check the AC supply voltage over voltage         Solort - Circuit atoma 3-phase output of instal input reactor           Borner Verturge         Any of Phase IX, and W cannot be loss         Check the Case and the motor         Check the Case and the motor           Borner Verturge         Short-circuit atoma 3-phase output of instal input reactor         Check the case and the mot	E003			
B004 during acceleration         Abnormal AC supply voltage         Check the power supply Prolong acceleration time           B005 during deceleration         Too short acceleration time         Prolong acceleration time           B006 during deceleration         Too short acceleration time (with reference to generated energy) The load generates energy or the load inertial is too big         Connect suitable braking kit           B006 constant-speed operating process         Wrong ASR parameters, when drive run acceleration (Deceleration time is too short to be gload inertia         Prolong Acceleration/ Deceleration time           B007 power voltage in constant-speed operating process         Abnormal AC supply voltage         Check the power supply Acceleration (Deceleration time is too short time         Prolong Acceleration/ Deceleration time           B007 power voltage         Abnormal AC supply voltage         Check the AC supply voltage or seek service           B008         Input phase loss         Any of phase R, S and T cannoto be loss         Check the AC supply voltage           B009         Output phase los         Any of Phase U, V and W cannot be los         Check the draw provide the traination or over everterent           B010         Fort-circuit among 3-phase output or line-to-ground short circuit         Refer to B01-E003           Fort Circuit of GBT tridge         Seek service           GBT module's Auxiliary power supply is damaged or IGBT tridging wereaperature         Check the and temperature     <		operation		
E004         during acceleration         Too short acceleration time         Prolong acceleration time           0         Over voltage deceleration         Too short acceleration time (with reference to generated energy)         Prolong the deceleration time           0         Over voltage in         Wrong ASR parameters, when drive run in the vector control mode         Connect suitable braking kit           0         Over voltage in         Wrong ASR parameters, when drive run in the vector control mode         Refer to AS. ASR parameter setting           0         Over voltage in         Acceleration /Deceleration time is too short         Prolong Acceleration/ Deceleration time           0         Over voltage orsers and the vector control mode         Check the power supply Abnormal AC supply voltage         Check the power supply over voltage           0         Over voltage over voltage         Any of phase R, S and T cannot be loss         Check the AC supply voltage over voltage         Check the AC supply voltage           0         Output plase loss         Any of Phase U, V and W cannot be vortice i unstation of motor is good         Check the drive's output writing Check the calse and the motor           0         Not Short-circuit anong 3-phase output or line-torgound short circuit         Refer to E001-E003           10BT act         Vent is obstructed or fan does not work         Clean the vent or replace the fan Over-temperature         Lower the ambient temperature			Drive power is too small	Select a higher power drive
acceleration         Too short acceleration time         Prolong acceleration time           000         Over voltage during deceleration         Too short Deceleration time (with reference to generated energy) The load generates energy or the load inertial is too big         Connect suitable braking kit           0000         Over voltage in         Acceleration time is too short         Refer to A5. ASR parameter setting in the vector control mode         Polong Acceleration/ Deceleration in the vector control mode           0000         Over voltage in         Abnormal AC supply voltage         Check the power supply           0000         Drive's control pore supply         Abnormal AC supply voltage         Check the AC supply voltage or seek service           0000         Drive's control pore supply         Abnormal AC supply voltage         Check the AC supply voltage or seek service           0000         Drive's control pore supply         Any of phase R, S and T cannot be los         Check the AC supply voltage         Check the AC supply voltage           0000         Jong the deceled         Check the drive's output wring instantaneous over-current         Refer to E001-E003           1081         Any of Phase U. V and W cannot be line-to-ground short circuit         Check the drive's output wring instantaneous over-current         Refer to E001-E003           1081         Any of Driase is abnormal         Seek service         Check the drive wring instantaneous over-curren		-	Abnormal AC supply voltage	Check the power supply
Over voltage deceleration         reference to generated energy)         Prolong the deceleration time insertial is too big           0ver voltage in factor         The load generates energy or the load insertial is too big         Connect suitable braking kit           0ver voltage in factor         Wrong ASR parameters, when drive run in the vector control mode operation         Refer to AS. ASR parameter setting incertain /Deceleration time is too           0000         Over voltage operation         Abnormal Cauge of input voltage         Install input reactor           0000         Tore's control over voltage         Abnormal Cauge of input voltage         Check the ACs upply voltage or seek service           0000         Tore's control over voltage         Any of phase R, S and T cannot be los         Check the AC supply voltage           0000         Output phase los         Any of Phase R, S and T cannot be los         Check the drive's output wring Check the AC supply voltage           0000         Output phase los         Any of Phase R, S and T cannot be los         Check the drive's output wring Check the actise and the motorities good           01000         Output phase los         Any of Phase R, S and T cannot be los         Check the drive's output wring Check the actise and the motorities good           01000         Output phase los         Any of Phase R, S and T cannot be los         Check the drive soutput wring Check the actise and the motoris good           010000	E004	0	Too short acceleration time	Prolong acceleration time
B005         deceleration         The load generates energy or the load inertial is too big         Connect suitable braking kit           B006         Over voltage         Word XSR parameters, when drive run in the vector control mode         Refer to A5. ASR parameter setting           B006         Content-speed         Acceleration Deceleration time is too         Polong Acceleration/Deceleration time           B007         Orive's control power supply         Abnormal AC supply voltage         Install input reactor           B008         Output phase loss         Any of phase R, S and T cannot be detected         Check the AC supply voltage or seek service           B009         Output phase loss         Any of phase R, S and T cannot be detected         Check the AC supply voltage or seek service           B009         Output phase loss         Any of phase L, V and W cannot be detected         Check the drive's output wring Check the cable and the motor           B000         Output phase loss         Short-circuit anong 3-phase output or instantaneous over-current         Refer to E001-E003           B010         Short-circuit ange is too low         Cleant the arbient temperature           B011         GBT act         Current waveform distorted due to output phase loss         Check the ambient temperature           B011         IGBT module's         Ambient over-temperature         Lower the ambient temperature	_	-		Prolong the deceleration time
Image: Control is too big         Refer to A5. ASR parameter setting           E006         Image: Control is too big         Acceleration Deceleration time is too         Prolong Acceleration/Deceleration time           E006         Operating         Abnormal AC supply voltage         Check the power supply           Abnormal Achange of input voltage         Install input reactor         Too big load inertia         Connect suitable braking kit           E007         Over voltage         Abnormal AC supply voltage         Check the AC supply voltage or seek service           E008         Input phase         Any of phase R, S and T cannot be detected         Check the AC supply voltage         Check the de vine voltage           E009         Output phase         Any of Phase U, V and W cannot be detected         Check the de vine voltage         Check the de vine voltage           E000         Output phase         Any of Phase U, V and W cannot be detected         Check the drive's output writing           E001         Diss         Short-circuit among 3-phase output or insolation of motor is good         Instantaneous over-current         Rewiring, plase make sure the insulation of motor is good           IGBT act         Current waveform distorted due to output phase loss         Check the went or replace the fan           IGBT module's	E005	0		Connect suitable be-live - lit
Over voltage in         in the vector control mode (orstant-speed operating process         Acceleration/Deceleration time is too short         Refer to A5. ASR parameter setting (member speed operating process           0000         Operating process         Abnormal AC supply voltage         Check the power supply           1000         Abnormal AC supply voltage         Install input reactor           1000         Over voltage         Install input reactor           1000         power supply         Abnormal AC supply voltage         Check the AC supply voltage or seek service           1000         over voltage         Any of phase R, S and T cannot be detected         Check the AC supply voltage or seek service           1000         Output phase         Any of Phase U, V and W cannot be detected         Check the cale and the motor           1000         Instantaneous over-current         Refer to E001-E003           1000         Vent is obstructed or fan does not work         Clean the vent or replace the fan Over-temperature           1000         IGBT actifying voltage is too low         Check the writing           1000         Gortron board is abnormal         Seek service           10001         Gortron vectoremperature         Lower the ambient temperature           10001         Gortron board is abnormal         Seek service           1001         Gortron board		deceleration		Connect suitable braking kit
E006         constant-speed         short         ime           operating process         Abnormal AC supply voltage         Check the power supply           Hord         Too big load inertia         Connect suitable braking kit           E007         Drive's control over voltage         Abnormal AC supply voltage         Check the AC supply voltage or seek service           E008         Input phase loss         Any of phase R, S and T cannot be detected         Check the AC supply voltage         Check the drive's output wiring Check the cable and the motor           E009         Output phase loss         Any of Phase U, V and W cannot be detected         Check the drive's output wiring Check the cable and the motor           E009         Output phase loss         Short-circuit amog 3-phase output or instantaneous over-current         Rewiring, please make sure the insulation of motor is good           Instantaneous over-current         Rewiring, please make sure the insulation of motor is good         Check the varie constant           IGBT act         Short-circuit of GBT bridge         Seek service           IGBT module's         Ambient over-temperature         Lower the ambient temperature           IoBT module's         Ambient over-temperature         Lower the ambient temperature           IoBT module's         Ambient over-temperature         Lower the ambient temperature           IoBT module's		0	in the vector control mode	
process         Abnormal change of input voltage         Install input reactor           E007         Drive's control power supply over voltage         Abnormal AC supply voltage         Connect suitable braking kit           E008         Input phase         Any of phase R, S and T cannot be         Check the AC supply voltage or seek service           E009         Output phase         Any of Phase U, V and W cannot be         Check the drive's output wining detected         Check the cable and the motor           E009         Output phase         Sont-circuit among 3-phase output or insulation of motor is good         Check the cable and the motor           F010         Instantaneous over-current         Refer to E001-E003         Vent is obstructed or fan does not work           F010         IGBT act         Current waveform distorted due to output phase loss         Check the writing           F011         IGBT module's         Ambient over-temperature         Lower the ambient temperature           F011         IGBT module's         Nort-circuit of IGBT bridge         Seek service           F011         GBT module's         Nomer -temperature         Lower the ambient temperature           F011         IGBT module's         Nomer -temperature         Lower the ambient temperature           F011         F014         Fan does not work         Replace the fan	E006			e e
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Imput phase loss         Any of phase R, S and T cannot be detected         Check the wiring and installation Check the AC supply voltage           E009         Output phase loss         Any of Phase U, V and W cannot be detected         Check the AC supply voltage           E009         loss         Any of Phase U, V and W cannot be detected         Check the AC supply voltage           Farmer and the probability of the prob	E007	power supply	Abnormal AC supply voltage	
Bong         Output phase loss         Any of Phase U, V and W cannot be detected         Check the drive's output wiring Check the cable and the motor           Reversion         Reversion         Rewring, please makes sure the insulation of motor is good           Forte-circuit among 3-phase output or insulation of motor is good         Rewring, please make sure the insulation of motor is good           Forte-circuit among 3-phase output or insulation of motor is good         Rewring, please make sure the insulation of motor is good           Forte-circuit and oes not work         Clean the vent or replace the fan           Over-temperature         Lower the ambient temperature           Wres or connectors of control board         Check and rewring           Current waveform distorted due to output plase loss         Check the wring           Current waveform distorted due to output plase loss         Seek service           IGBT module's         Annient over-temperature         Lower the ambient temperature           IGBT module's         Notr-circuit of IGBT bridge         Seek service           E011         Rectifier's         Ambient over-temperature         Lower the ambient temperature           IGBT module's         Fan does not work         Replace the fan           For excifier's         Ambient over-temperature         Lower the ambient temperature           IGBT module is obstructed         Clean the vent <td>E008</td> <td>Input phase</td> <td></td> <td>°</td>	E008	Input phase		°
Ioss         Interception         Check the cable and the motor           Rewiring, please make sure the insulation of motor is good         Rewiring, please make sure the insulation of motor is good           Instantaneous over-current         Refer to E001-E003           Vent is obstructed or fan does not work         Clean the vent or replace the fan Over-temperature           IGBT act         Over-temperature         Lower the ambient temperature           Wires or connectors of control board are loose         Check and rewiring           Current waveform distorted due to output plase loss         Check the wiring           IGBT driving voltage is too low         Seek service           IGBT module's         Ambient over-temperature         Lower the ambient temperature           E011         IGBT module's         Notr-circuit of IGBT bridge         Seek service           E011         IGBT module's         Notr-circuit of IGBT bridge         Seek service           E011         Rectifier's         Ambient over-temperature         Lower the ambient temperature           E012         Noterifier's         Ambient over-temperature         Lower the ambient temperature           E012         Neetifier's         Ambient over-temperature         Lower the ambient temperature           E011         Neetifier's         Ambient over-temperature         Lower the ambient temp	F009			
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E014         Motor over-load         Improper motor's overload protection threshold         Modify the motor's overload protection threshold.           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				Adjust V/F curve or torque boost
E014     Motor     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				
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			threshold	protection threshold.
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			•	Check the load
over-load     heavy load at low speed for a long time.     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	E014			-
Low AC supply voltage         Check the AC supply voltage           Improper V/F curve         Set V/F curve and torque boost		over-load	-	
Improper V/F curve Set V/F curve and torque boost			Low AC supply voltage	
improper v/r curve value correctly				
			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	<ul><li>0: Panel control</li><li>1: Terminal control</li><li>2: Communication control</li></ul>	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	<ul> <li>0: The keys on the operation panel are not locked, and all the keys are usable.</li> <li>1: The keys on the operation panel are locked, and all the keys are unusable.</li> <li>2: All the keys except for the multi-functional key are unusable.</li> <li>3: All the keys except for the SHIFT key are unusable.</li> <li>4: All the keys except for the RUN AND STOP keys are unusable.</li> </ul>	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		<b>.</b>		
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	<b>IF</b> (	1	Group U0:Factory pa		<b>F</b> (	-	
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	<ul> <li>×: Canno</li> <li>*: Actual</li> <li>-: Defat</li> <li>Applicat</li> <li>1. Termina</li> <li>In many</li> <li>by the por</li> <li>Parameter</li> <li>1) Pa</li> <li>Fi</li> <li>na</li> <li>At</li> </ul>	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								

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