

Operation Manual

Goodrive 300-01 Series Inverter Special for Air Compressor



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Preface

Based on Goodrive300 hardware platform, Goodrive300-01 series inverters special for air compressor can be widely applied in the industry. The terminal blocks of the products in standard configuration provide abundant external terminals for multiple control modes and support PT100 temperature signal detection. Additionally, the product reliability and environment adaptability as well as the customized and industrialized design make the products optimal in function, flexible in application and stable in performance.

With special control functions and touch screen, Goodrive300-01 series inverters special for air compressor achieve the integrated control solution. The master inverter provides PID constant pressure air supply, controls magnetic valve loading as well as fan inverter start-stop and frequency and processes external logic signals, completing all control and protect functions instead of traditional PLC functions. The fan inverters realize speed regulation to maintain the machine in constant temperature (oil temperature) and develop the lubricant in optimal characteristics.

If the product is ultimately used for military affairs or manufacture of weapon, it will be listed on the export control formulated by *Foreign Trade Law of the People's Republic of China*. Rigorous review and necessary export formalities are needed when exported.

Our company reserves the right to update the information of our products. Information may be subject to change without notice during product improving.

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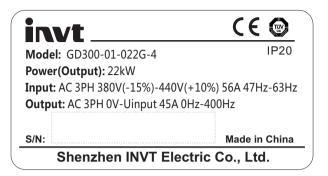
Chapter 1 Product overview

1.1 Product specification

	Function	Specification	
Devier	Input voltage (V)	AC 3PH 380V (-15%)~440V (+10%)	
Power input	Input current (A)	Refer to the rated value	
mput	Input frequency (Hz)	50Hz or 60Hz, allowed range: 47~63Hz	
	Output voltage (V)	0~input voltage	
Power	Output current (A)	Refer to the rated value	
output	Output power (kW)	Refer to the rated value	
	Output frequency (Hz)	0~400Hz	
	Control mode	SVPWM, sensorless vector control	
	Motor type	Asynchronous motor and permanent magnet synchronous motor	
	Adjustable-speed ratio	Asynchronous motor 1:200 (SVC), synchronous motor 1:20 (SVC)	
	Speed control accuracy	±0.2% (sensorless vector control)	
	Speed fluctuation	± 0.3% (sensorless vector control)	
	Torque response	<20ms (sensorless vector control)	
Technical	Torque control accuracy	10% (sensorless vector control)	
control feature	Starting torque	Asynchronous motor: 0.25Hz/150% (sensorless vector control) Synchronous motor: 2.5 Hz/150% (sensorless vector control)	
	Special function	No-load hibernation and wakeup, pressure setting, closed-loop temperature control for the start-stop of the fan, no-load frequency, pre-alarm for no-load delay time, minimum hibernation time, loading delay time, pressure and temperature, power correction and the state group for air compressor	
	Overload capacity	150% of rated current: 1 minute 180% of rated current: 10 seconds 200% of rated current: 1 second	
Running	Frequency setting	Digital setting, analog setting, pulse frequency setting,	

	Function	Specification		
control	method	multi-step speed running setting, simple PLC setting,		
feature		PID setting and MODBUS communication setting.		
		Switch between the combination and setting channel.		
	Auto-adjustment of	Keep constant voltage automatically when the grid		
	the voltage	voltage changes		
		Provide more than 30 fault protection functions:		
	Fault protection	overcurrent, overvoltage, undervoltage, overheating,		
		phase loss and overload, etc.		
	Restart after rotating	Smooth starting of the rotating motor		
	speed tracking			
	Terminal analog input	< 20mV		
	resolution	< 2011V		
	Terminal switch input	< 2ms		
	resolution	< 21113		
	Analog input	2 (AI1, AI2)0~10V/0~20mA, 1 (AI3)-10~10V		
	Analog output	2 (AO1, AO2)0~10V /0~20mA		
Peripheral	Temperature signal			
interface	detection	3-wire PT100 signal input, -20~150°C		
		8 common inputs, the Max. frequency: 1kHz, internal		
	Digital input	impedance: 3.3kΩ;		
		1 high speed input, the Max. frequency: 50kHz		
		2 programmable NO outputs, 2 programmable NO/NC		
	Relay output	outputs		
		Contact capacity: 3A/AC250V, 1A/DC30V		
	Installation manner	Wall, floor and flange mounting		
	Temperature of the	-10~50°C, derate above 40°C		
	running environment			
	Protective degree	IP20		
	Cooling	Air-cooling		
Others	Broking unit	Built-in for inverters of 380V (≤30kW)		
	Braking unit	External for others		
		Built-in C3 filter: meet the degree requirement of		
	EMC filter	IEC61800-3 C3		
		External filter: meet the degree requirement of		
		IEC61800-3 C2		

1.2 Name plate



Note: It is the example of Goodrive300-01 standard name plate format and the CE\TUV\IP20 will be labeled according to the actual certification.

1.3 Type designation key

<u>GD300–01</u>- <u>018G</u> – <u>4</u>

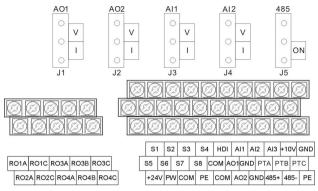
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Key	No.	Detailed description	Detailed content
	(Deschart als har sisting	Goodrive300-01 is shorted as GD300-01.
Abbreviation	1	Product abbreviation	Goodrive300-0101: For air compressor
Defender source		Power range + Load	018G -18.5kW
Rated power	2	type	G—Constant torque load
Voltage			
degree	3	Voltage degree	4: AC 3PH 380V (-15%)~440V (+10%)

1.4 Rated specifications

Model	Rated output	Rated input	Rated output	Carrier
	power (kW)	current (A)	current (A)	frequency (kHz)
GD300-01-018G-4	18.5	47	38	1~15 (6)
GD300-01-022G-4	22	56	45	1~15 (6)
GD300-01-030G-4	30	70	60	1~15 (6)
GD300-01-037G-4	37	80	75	1~15 (6)
GD300-01-045G-4	45	94	92	1~15 (6)
GD300-01-055G-4	55	128	115	1~15 (6)
GD300-01-075G-4	75	160	150	1~15 (6)
GD300-01-090G-4	90	190	180	1~15 (4)
GD300-01-110G-4	110	225	215	1~15 (4)
GD300-01-132G-4	132	265	260	1~15 (4)
GD300-01-160G-4	160	310	305	1~15 (4)
GD300-01-185G-4	185	345	340	1~15 (2)
GD300-01-200G-4	200	385	380	1~15 (2)
GD300-01-220G-4	220	430	425	1~15 (2)
GD300-01-250G-4	250	485	480	1~15 (2)
GD300-01-280G-4	280	545	530	1~15 (2)
GD300-01-315G-4	315	610	600	1~15 (2)
Remark	1. The temperatu	re rise test needs	to meet the require	ment of the default
Koman	carrier wave for 1	.1 times G-type ra	ted current.	

1.5 Structure diagram

1.5.1 Terminal arrangement

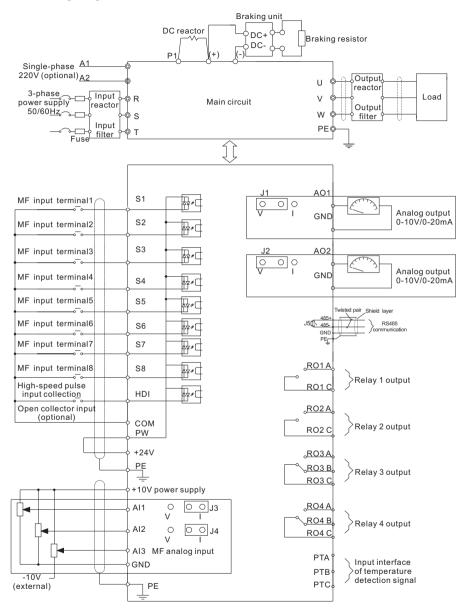


1.5.2 Terminal instruction

Name	Instruction
RO1A	RO1 relay output, RO1A NO, RO1C common terminal
RO1C	Contact capacity: 3A/AC250V, 1A/DC30V
RO2A	RO2 relay output, RO2A NO, RO2C common terminal
RO2C	Contact capacity: 3A/AC250V, 1A/DC30V
RO3A	
RO3B	RO3 relay output, RO3A NO, RO3B NC, RO3C common terminal
RO3C	Contact capacity: 3A/AC250V, 1A/DC30V
RO4A	
RO4B	RO4 relay output, RO4A NO, RO4B NC, RO4C common terminal
RO4C	Contact capacity: 3A/AC250V, 1A/DC30V
+10V	Local power supply +10V
GND	+10V reference null potential
Al1	1. Input range: AI1/AI2 voltage and current can be chosen: 0~10V/0~20mA; AI1
AI2	can be shifted by J3; Al2 can be shifted by J4; Al3: -10V~+10V
	2. Input impedance: Voltage input: $20k\Omega$; current input: 500Ω
AI3	3. Resolution: 5mV when 10V corresponds to 50Hz
	4. Deviation ±1%, 25°C
AO1	1. Output range: 0~10V or 0~20mA; the voltage or the current output depends
100	on the jumper; AO1 can be shifted by J1; AO2 can be shifted by J2
AO2	2. Deviation ±1%, 25°C

Name		Instruction		
PTA	1. Input interface of PT10	1. Input interface of PT100 temperature detection signal		
PTB	2. Range of temperature	detection: -20~150°C, detection accuracy: 1°C		
PTC	3. PTA and PTB are the	input terminals of sampling analog signal, PTC is the		
	input terminal of reference	e signal		
PE	Grounding terminal			
	Provide the input switch	working power supply from external to internal		
PW	Voltage range: 12~24V			
	The inverter provides the	ne power supply for users with a maximum output		
24V	current 200mA			
СОМ	+24V common terminal			
S1	Switch input 1	1. Internal impedance: 3.3kΩ		
S2	Switch input 2	2. 12~30V voltage input is available		
S3	Switch input 3	3. The terminal is the dual-direction input terminal		
S4	Switch input 4	supporting both NPN and PNP.		
S5	Switch input 5	4. Max input frequency: 1kHz		
S6	Switch input 6	5. All are programmable digital input terminals. Users		
S7	Switch input 7	can set the terminal function through function codes.		
S8	Switch input 8			
	Besides S1~S8, this term	ninal can be used as high frequency input channel		
HDI	Max. input frequency: 50kHz			
СОМ	+24Vcommon terminal			
485+	485 communication interface and 485 differential signal interface			
485-	If it is the standard 485 c shield cable.	ommunication interface, please use the twisted pair or		

1.5.3 Wiring diagram



Chapter 2 Function parameters

For the convenience of function codes setting, the function group number corresponds to the first level menu, the function code corresponds to the second level menu and the function code corresponds to the third level menu.

1. Below is the instruction of the function lists:

The first line "Function code": codes of function parameter group and parameters;

The second line "Name": full name of the function parameters;

The third line "Detailed instruction of parameters": detailed instruction of the function parameters; the function parameter will restore to the default value during default parameters restoring, but the detected parameter or recorded value will not be refreshed.

The fourth line "Default value": the original factory values of the function parameters;

The fifth line "Modify": the modifying attribute of the function codes (the parameters can be modified or not), below is the instruction:

"O": means the setting value of the parameter can be modified at stopping and running state;

"O": means the setting value of the parameter cannot be modified at running state;

"●": means the value of the parameter is the real detection value which cannot be modified;

(The inverter has limited the automatic inspection of the modifying character of the parameters to help users avoid modifying by mistake.)

Function code	Name	Detailed instruction of parameters	Default value	Modify
P00 Grou	p Basic func	tion group		
P00.00	Speed control mode	 0: Sensorless vector control mode 0 (apply to AM and SM) No need to install encoders. It is suitable in cases with low frequency, big torque and high speed control accuracy for accurate speed and torque control. Relative to mode 1, this mode is more suitable for medium and small power. 1: Sensorless vector control mode 1 (apply to AM) No need to install encoders. It is suitable in cases with high speed control accuracy for accurate speed and torque speed and torque control accuracy for accurate speed and torque control at all power ratings. 2: SVPWM control 	0	٥
		No need to install encoders. It can improve the control		

2.1 Basic function parameters

P00.01 accuracy with the advantages of stable operation, valid low-frequency torque boost and current vibration suppression and the functions of slip compensation and voltage adjustment. Note: AM-Asynchronous motor SM-Synchronous motor SM-Synchronous motor SM-Synchronous motor Select the run command of the inverter. The control command of the inverter includes: start-up, stop, forward, reverse, jogging and fault reset. 0: Keypad run command channel ("LOCAL/REMOT light off) Carry out the command control by RUN, STOP/RST on the keypad. Set the multi-function key QUICK/JOG to EWD/REVC shifting function (P07.02=3) to change the running direction; press RUN and STOP/RST simultaneously in running state to make the inverter coast to stop. 0 0 1: Terminal run command control by the forward rotation, reverse rotation and forward jogging and reverse jogging of the multi-function input terminals. 2: Communication run command channel ('LOCAL/REMOT' on); 0 0 P00.02 Communication of the inverter. run commands 0: MODBUS communication command channel ('LOCAL/REMOT' on); 0 0 0 P00.03 Max. output frequency This parameter is used to set the maximum output frequency of the inverter. Users should pay attention to this parameter because it is the foundation of the 50.00Hz 0	Function code	Name	Detailed instruction of parameters	Default value	Modify
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P00.03Max. output frequencyThis parameter is used to set the maximum output frequency of the inverter. Users should pay attention to this parameter because it is the foundation of the 50.00HzImage: Comparison of the speed of acceleration and	F00.02	run commands	0: MODBUS communication	0	Ŭ
P00.03 Max. output frequency of the inverter. Users should pay attention to this parameter because it is the foundation of the 50.00Hz frequency setting and the speed of acceleration and			1~3: Reserved		
P00.03 Max. output frequency frequency setting and the speed of acceleration and			This parameter is used to set the maximum output		
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frequency setting and the speed of acceleration and	P00.03		this parameter because it is the foundation of the	50.00Hz	O
		frequency	frequency setting and the speed of acceleration and		

Function code	Name	Detailed instruction of parameters	Default value	Modify
		The setting range: P00.04~400.00Hz		
		The upper limit of running frequency is the upper limit of output frequency of the inverter which is lower than or		
P00.04	running frequency	equal to the maximum output frequency. If the set frequency is above the upper limit, the inverter runs at the upper limit. The setting range: P00.05~P00.03 (Max. output frequency)		O
P00.05	Lower limit of running frequency	The lower limit of running frequency is the lower limit of output frequency of the inverter. If the set frequency is lower than the lower limit, the inverter runs at the lower limit. Note: Max. output frequency ≥ Upper limit frequency ≥ Lower limit frequency The setting range: 0.00Hz~P00.04 (Upper limit of running frequency)	0.00Hz	Ø
P00.06	A frequency command	Note: Frequency A and frequency B cannot use the same frequency setting mode. The frequency source	0	0
P00.07	B frequency command	can be set by P00.09. 0: Keypad Modify the value P00.10 (set the frequency by keypad) to modify the frequency by the keypad. 1: Al1 2: Al2 3: Al3 Set the frequency by analog input terminals. Goodrive300-01 series inverters provide 3 analog input terminals as the standard configuration, of which Al1/Al2 are the voltage/current option (0~10V/0~20mA) which can be shifted by jumpers; Al3 is voltage input (-10V~+10V). Note: When analog Al1/Al2 select 0~20mA input, the corresponding voltage of 20mA is 10V. 100.0% of the analog input setting corresponds to the		0

Function	Name	Detailed instruction of parameters	Default	Modify
code			value	
		maximum output frequency (P00.03) in forward direction		
		and -100.0% corresponds to the maximum frequency		
		(P00.03) in reverse direction.		
		4: High-speed pulse HDI		
		The frequency is set by high-speed pulse terminals.		
		Goodrive300-01 series inverters provide 1 high speed		
		pulse input as the standard configuration. The pulse		
		frequency range is 0.0~50.00kHz.		
		100.0% of the high-speed pulse input setting		
		corresponds to the maximum output frequency (P00.03)		
		in forward direction and -100.0% corresponds to the		
		maximum frequency (P00.03) in reverse direction.		
		Note: The pulse setting can only be input by		
		multi-function input terminals HDI. Set P05.00 (HDI		
		input selection) to high-speed pulse input, and set		
		P05.49 (HDI high-speed pulse input function		
		selection) to frequency setting input.		
		5: Simple PLC program		
		The inverter runs at simple PLC program mode when		
		P00.06=5 or P00.07=5. Set P10 (simple PLC and		
		multi-step speed control) to select the running frequency,		
		running direction, ACC/DEC time and the keeping time		
		of corresponding step. See the function description of		
		P10 for detailed information.		
		6: Multi-step speed running		
		The inverter runs at multi-step speed mode when		
		P00.06=6 or P00.07=6. Set P05 to select the current		
		running step, and set P10 to select the current running		
		frequency.		
		The multi-step speed has the priority when P00.06 or		
		P00.07 does not equal to 6, but the setting step can only		
		be the 1~15 step. The setting step is 0~15 if P00.06 or		
		P00.07 equals to 6.		
		7: PID control		
		The running mode of the inverter is procedure PID		

Function code	Name	Detailed instruction of parameters	Default value	Modify
		control when P00.06=7 or P00.07=7. It is necessary to set P09. The running frequency of the inverter is the value after PID effect. See P09 for the detailed information for the reference source, reference value, and feedback source of PID. 8: MODBUS communication The frequency is set by MODBUS communication. See P14 for detailed information. 9: Reserved 10: Reserved 11: Reserved		
P00.08	B frequency command reference	 0: Maximum output frequency 100% of B frequency setting corresponds to the maximum output frequency. 1: A frequency command 100% of B frequency setting corresponds to the maximum output frequency. Select this setting if it needs to adjust on the base of A frequency command. 	0	0
P00.09	Combination of the setting source	 0: A, the current frequency setting is A frequency command 1: B, the current frequency setting is B frequency command 2: A+B, the current frequency setting is A frequency command + B frequency command 3: A-B, the current frequency setting is A frequency command - B frequency command 4: Max (A, B): The bigger one between A frequency command and B frequency is the set frequency. 5: Min (A, B): The lower one between A frequency command and B frequency is the set frequency. Note: The combination manner can be shifted by P5 (terminal function). 	0	0
P00.10	Keypad setting frequency	When A and B frequency commands are selected as "Keypad setting", the value of the function code is the original setting one of the frequency data of the inverter.		0

Function code	Name	Detailed instruction of parameters	Default value	Modify
		The setting range: 0.00 Hz~P00.03 (Max. output frequency)		
P00.11	ACC time 1	ACC time means the time needed if the inverter speeds up from 0Hz to the Max. one (P00.03).	Depend on model	0
P00.12	DEC time 1	DEC time means the time needed if the inverter speeds down from the Max. output frequency (P00.03) to 0Hz. Goodrive300-01 series inverters define four groups of ACC/DEC time which can be selected by P05. The factory default ACC/DEC time of the inverter is the first group. The setting range of P00.11 and P00.12: 0.0~3600.0s	Depend	0
P00.13	Running direction	 0: Runs at the default direction, the inverter runs in the forward direction. FWD/REV indicator is off. 1: Runs at the reverse direction, the inverter runs in the reverse direction. FWD/REV indicator is on. Modify the function code to shift the rotation direction of the motor. This effect equals to the shifting the rotation direction by adjusting either two of the motor lines (U, V and W). The motor rotation direction can be changed by QUICK/JOG on the keypad. Refer to parameter P07.02. Note: When the function parameter restores to the default value, the motor's running direction will restore to the factory default state. In some cases it should be used with caution after commissioning if the change of rotation direction is disabled. 2: Forbid to run in reverse direction: It can be used in some special cases if the reverse running is disabled. 	2	0
P00.14	Carrier frequency setting	Carrier frequency Electromagnetic noise Noise and leakage Heat eliminating 1kHz High Low How Heat 10kHz Low High High High 15kHz Low High High High The relationship table of the motor type and carrier Low Low Low	Depend on model	0

Function code	Name	De	Detailed instruction of parameters			Default value	Modify
		frequency:					
				The factory value			
			Model	of carrier			
				frequency			
			18.5~75kW	6kHz			
			90~160kW	4kHz			
		380V	Above	2kHz			
		The end used	160kW	- for an end of the state of th			
				r frequency: ideal cu			
		,		nic wave and motor no			
			0 0	rier frequency: increa	Ŭ		
			-	erter temperature and			
				ty. The inverter need			
			• .	ncy. At the same time, agnetic interference			
		increase.			wiii		
				y is contrary to the ab	01/0		
				cause unstable runr			
			easing and surge.		mıg,		
			• •	t a reasonable ca	rrier		
				is in factory. In gen			
		. ,	need to change the	, ,	o. a.,		
			-	xceeds the default ca	rrier		
				to derate 10% for e			
			carrier frequency				
			range: 1.0~15.0kH				
		0: No operat	0				
		1: Rotation a					
	Motor	Comprehen	sive motor parame	eter autotuning			
P00.15	parameter	It is recomm	ended to use rota	tion autotuning when	high	0	O
	autotuning	control accu	racy is needed.				
		2: Static aut	otuning 1 (autotun	e totally)			
		It is suitab	le in the cases	when the motor ca	nnot		

P00.16 decouple from the load. 3: Static autotuning 2 (autotune partially) When the current motor is motor 1, autotune P02.06, P02.07, P02.08; when the current motor is motor 2, autotune P12.06, P12.07, P12.08. P00.16 AVR function selection 0: Invalid 1: Valid during the whole procedure The auto-adjusting function of the inverter can cancel the impact on the output voltage of the inverter because of the bus voltage fluctuation. 1 0 P00.17 Reserved 0 0 P00.18 Function parameters restore Reserved 0 0 P00.18 Function parameters restore Note: The function code will restore to 0 after finishing the operation of the selected function code. Restoring to the default value will cancel the user password, please use this function with caution. 0 0 P01.00 Start-up and stop control 0 0 0 0 P01.00 Start mode 0: Start-up after DC braking: start the motor from the starting frequency after DC braking: start the rotating motor smoothly after tracking the rotation speed and direction automatically. It is suitable in the cases where rotation may occur to the big inertia load during starting. 0 0 P01.01 frequency of frequency of frequency of direct start-up means the original reverse rotation may occur to the big inertia load during starting. 0 0	Function	Name	Detailed instruction of parameters	Default	Modify
P00.16 3: Static autotuning 2 (autotune partially) When the current motor is motor 1, autotune P02.06, P02.07, P02.08; when the current motor is motor 2, autotune P12.06, P12.07, P12.08. 1 P00.16 AVR function selection 0: Invalid 1: Valid during the whole procedure The auto-adjusting function of the inverter can cancel the impact on the output voltage of the inverter because of the bus voltage fluctuation. 1 0 P00.17 Reserved 0 0 P00.18 Function parameters restore Reserved 0 0 P00.18 Function parameters restore 0: No operation 1: Restore to the default value 2: Cancel the fault record Note: The function code will restore to 0 after finishing the operation of the selected function code. Restoring to the default value will cancel the user password, please use this function with caution. 0 0 P01.00 Start-up and stop control 0: 0: Start-up directly: start from the starting frequency P01.01 0 0 P01.00 Start mode is Starting frequency directly: start the motor from the starting frequency directly: start the rotation speed and during starting. 0 0 P01.00 Start mode is suitable in the cases where reverse rotation may occur to the low inertia load during starting. 0 0 P01.01 <	code			value	
P00.16 When the current motor is motor 1, autotune P02.06, P02.07, P02.08; when the current motor is motor 2, autotune P12.06, P12.07, P12.08. Image: Comparison of the second of the second of the second of the second of the impact on the output voltage of the inverter can cancel the impact on the output voltage of the inverter because of the bus voltage fluctuation. 1 Image: Comparison of the inverter can cancel the impact on the output voltage of the inverter because of the bus voltage fluctuation. 1 Image: Comparison of the inverter cancel the impact on the output voltage of the inverter because of the bus voltage fluctuation. 1 Image: Comparison of the second of the second of the second of the second of the bus voltage fluctuation. 0 Image: Comparison of the selected function code. Restoring to the default value will cancel the					
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code. Restoring to the default value will cancel the user password, please use this function with caution. P01 Group Start-up and stop control 0: Start-up directly: start from the starting frequency P01.01 1: Start-up after DC braking: start the motor from the starting frequency after DC braking (set the parameter P01.03 and P01.04). It is suitable in the cases where reverse rotation may occur to the low inertia load during starting. 2: Start-up after speed tracking: start the rotating motor smoothly after tracking the rotation speed and direction automatically. It is suitable in the cases where reverse rotation may occur to the big inertia load during starting. P01.01 Starting	P00.18		finishing the operation of the selected function		Ø
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P01.00 Start-up directly: start from the starting frequency P01.01 P01.00 Start-up after DC braking: start the motor from the starting frequency after DC braking (set the parameter P01.03 and P01.04). It is suitable in the cases where reverse rotation may occur to the low inertia load during starting. 0 © P01.00 Start mode reverse rotation may occur to the low inertia load during starting. 0 © P01.01 Start-up after speed tracking: start the rotating motor smoothly after tracking the rotation speed and direction automatically. It is suitable in the cases where reverse rotation may occur to the big inertia load during starting. © P01.01 Starting Starting frequency of direct start-up means the original frequency of ©			caution.		
P01.01 1: Start-up after DC braking: start the motor from the starting frequency after DC braking (set the parameter P01.03 and P01.04). It is suitable in the cases where reverse rotation may occur to the low inertia load during 0 starting. © P01.00 Start mode 2: Start-up after speed tracking: start the rotating motor smoothly after tracking the rotation speed and direction automatically. It is suitable in the cases where reverse rotation may occur to the big inertia load during starting. © P01.01 Starting Starting frequency of direct start-up means the original frequency of up of the inverter starting. See P01.02 for 0.50Hz ©	P01 Grou	up Start-up ar	nd stop control		
P01.00 Start mode 1: Start-up after DC braking: start the motor from the starting frequency after DC braking (set the parameter P01.03 and P01.04). It is suitable in the cases where reverse rotation may occur to the low inertia load during o starting. 0 © P01.00 Start mode reverse rotation may occur to the low inertia load during starting. 0 © 2: Start-up after speed tracking: start the rotating motor smoothly after tracking the rotation speed and direction automatically. It is suitable in the cases where reverse rotation may occur to the big inertia load during starting. • • P01.01 Starting Starting frequency of direct start-up means the original frequency of uring the inverter starting. See P01.02 for 0.50Hz ©			0: Start-up directly: start from the starting frequency		
P01.00 Start mode starting frequency after DC braking (set the parameter P01.03 and P01.04). It is suitable in the cases where reverse rotation may occur to the low inertia load during starting. 0 © 2: Start mode starting. 2: Start-up after speed tracking: start the rotating motor smoothly after tracking the rotation speed and direction automatically. It is suitable in the cases where reverse rotation may occur to the big inertia load during starting. © P01.01 Starting Starting frequency of direct start-up means the original frequency of uning the inverter starting. See P01.02 for 0.50Hz ©			P01.01		
P01.00 Start mode P01.03 and P01.04). It is suitable in the cases where reverse rotation may occur to the low inertia load during starting. 0 © 2: Start-up after speed tracking: start the rotating motor smoothly after tracking the rotation speed and direction automatically. It is suitable in the cases where reverse rotation may occur to the big inertia load during starting. © Starting Starting frequency of direct start-up means the original frequency of uning the inverter starting. See P01.02 for 0.50Hz ©			1: Start-up after DC braking: start the motor from the		
P01.00 Start mode reverse rotation may occur to the low inertia load during starting. 0 Image: Start mode 0 Image: Start mode Im			starting frequency after DC braking (set the parameter		
Poince Starting. 2: Start-up after speed tracking: start the rotating motor smoothly after tracking the rotation speed and direction automatically. It is suitable in the cases where reverse rotation may occur to the big inertia load during starting. Starting Starting frequency of direct start-up means the original frequency of the inverter starting. See P01.02 for 0.50Hz			P01.03 and P01.04). It is suitable in the cases where		
P01.01 Starting Starting Starting frequency of direct start-up means the original frequency of uning the inverter starting. See P01.02 for 0.50Hz	P01.00	Start mode	reverse rotation may occur to the low inertia load during	0	O
P01.01 Starting Starting Starting frequency of direct start-up means the original frequency of means the inverter starting. See P01.02 for 0.50Hz			starting.		
P01.01 Starting Starting Starting frequency of direct start-up means the original frequency of direct starting. See P01.02 for 0.50Hz			2: Start-up after speed tracking: start the rotating motor		
Starting Starting frequency of direct start-up means the original frequency of direct start-up means the original frequency of direct starting. See P01.02 for 0.50Hz ©			smoothly after tracking the rotation speed and direction		
Starting Starting frequency of direct start-up means the original P01.01 frequency of frequency during the inverter starting. See P01.02 for 0.50Hz ©			automatically. It is suitable in the cases where reverse		
P01.01 frequency of frequency during the inverter starting. See P01.02 for 0.50Hz			rotation may occur to the big inertia load during starting.		
P01.01 frequency of frequency during the inverter starting. See P01.02 for 0.50Hz		Starting	Starting frequency of direct start-up means the original		
	P01.01	•			O
		direct start	detailed information.		

Function code	Name	Detailed instruction of parameters	Default value	Modify
		The setting range: 0.00~50.00Hz		
P01.02	Retention time of the starting frequency	Output frequency f fmax f1 f1 f1 f1 f1 f1 f1 f1 f1 f1		٥
P01.03	The braking current before starting	The inverter will carry out DC braking at the set braking current before starting and it will speed up after the DC braking time. If the DC braking time is set to 0, the DC		O
P01.04	The braking time before starting	braking is invalid. The stronger the braking current, the bigger the braking power. The DC braking current before starting means the percentage of the rated current of the inverter. The setting range of P01.03: 0.0~100.0% The setting range of P01.04: 0.00~50.00s		Ø
P01.05	ACC/DEC selection	The changing mode of the frequency during start-up and running. 0: Linear type The output frequency increases or decreases linearly.	0	O

Function code	Name	Detailed instruction of parameters	Default value	Modify
		fmax fmax +		
P01.06	Reserved		Reserved	O
P01.07	Reserved		Reserved	O
P01.08	Stop mode	 Decelerate to stop: after the stop command becomes valid, the inverter decelerates to decrease the output frequency during the set time. When the frequency decreases to P01.15, the inverter stops. Coast to stop: after the stop command becomes valid, the inverter ceases the output immediately. And the load coasts to stop at the mechanical inertia. 	0	0
P01.09	Starting frequency of DC braking	The starting frequency of stop braking: the inverter will carry on stop DC braking when the frequency is arrived during the procedure of decelerating to stop.		0
P01.10	Waiting time of DC braking	The waiting time of stop braking: before the stop DC braking, the inverter will close output and begin to carry	0.00s	0
P01.11	DC braking current	on the DC braking after the waiting time. This function is used to avoid the overcurrent fault caused by DC	0.0%	0
P01.12	DC braking time	braking when the speed is too high. Stop DC braking current: the DC brake added. The stronger the current, the bigger the DC braking effect. The braking time of stop braking: the retention time of DC brake. If the time is 0, the DC brake is invalid. The inverter will stop at the set deceleration time.	0.00s	0

Function code	Name	Detailed instruction of parameters	Default value	Modify
		P01.09 P11.23 P01.04 P01.10 P01.12 P13.14 ON P13.15		
		The setting range of P01.09: 0.00Hz~P00.03 (Max.		
		output frequency)		
		The setting range of P01.10: 0.00~50.00s		
		The setting range of P01.11: 0.0~100.0%		
		The setting range of P01.12: 0.00~50.00s		
P01.13	Dead time of FWD/REV rotation	During the procedure of switching FWD/REV rotation, set the threshold by P01.14, which is shown as the table below: Output frequency f FWD Shift after rotation starting frequency frequency F HDead REV The setting range: 0.0~3600.0s	0.0s	0
P01.14	Shifting between FWD/REV rotation	Set the threshold point of the inverter: 0:Switch after zero frequency 1:Switch after the starting frequency 2: Switch after the speed reaches P01.15 and delays for	0	0
		P01.24		
P01.15	Stop speed	0.00~100.00Hz	0.50Hz	O
P01.16	Detection of stopping speed	 0: Detect according to speed setting (no stopping delay) 1: Detect according to speed feedback (only valid for vector control) 	1	O

Function	Name	Detailed instruction of parameters	Default	Modify
code			value	
P01.17	Detection time of feedback speed	If set P01.16 to 1, the feedback frequency is less than or equal to P01.15 and detect in the set time of P01.17, the inverter will stop; otherwise the inverter will stop after the set time of P01.17. Frequency f Cutput frequency Ramp reference Frequency Running A Running C The setting range: 0.00~100.00 (only valid when		0
P01.18	Terminal running protection when powering on	P01.16=1) When the run commands are controlled by the terminal, the system will detect the state of the running terminal during powering on. 0: The terminal run command is invalid when powering on. Even the run command is detected to be valid during powering on, the inverter will not run and the system keeps in the protection state until the run command is canceled and enabled again. 1: The terminal run command is valid when powering on. If the run command is detected to be valid during powering on, the system will start the inverter automatically after the initialization. Note: This function should be selected with cautions, or serious result may follow.	0	0
P01.19	Action if running frequency< lower limit frequency (valid >0)	This function code determines the running state of the inverter when the set frequency is lower than the lower-limit one. 0: Run at the lower-limit frequency 1: Stop 2: Hibernation		O

Function code	Name	Detailed instruction of parameters	Default value	Modify
		The inverter will coast to stop when the set frequency is lower than the lower-limit one; if the set frequency is above the lower-limit one again and it lasts for the time set by P01.20, the inverter will restore to the running state automatically.		
P01.20	Hibernation restore delay time	This function code determines the hibernation delay time. When the running frequency of the inverter is lower than the lower limit one, the inverter will pause to stand by. When the set frequency is above the lower limit one again and it lasts for the time set by P01.20, the inverter will run automatically.	0.0s	0
P01.21	Restart after power off	power off and then power on. 0: Disabled 1: Enabled; if the starting need is met, the inverter will run automatically after waiting for the time defined by P01.22.	0	0
P01.22	The waiting time of restart after power off	The function determines the waiting time before the automatic running of the inverter after power off and then power on.		0

Function code	Name	Detailed instructio	n of parameters	Default value	Modify		
P01.23	Start delay time	command is given, and the inverter is in a stand-by state		and wait for the delay time set by P01.23			0
P01.24	Delay time of stop speed	The setting range: 0.0~100.0	s	0.0s	0		
P01.25	0Hz output selection	Select the output mode at 0H 0: Output without voltage 1: Output with voltage 2: Output at DC braking curre	0	0			
P02 Grou	up Motor 1						
P02.00	Motor type 1	0:Asynchronous motor 1:Synchronous motor Note: Switch the current channel of P08.31.	motor by the switching	1	O		
P02.01	Rated power of AM1	0.1~3000.0kW	Set the parameters of the controlled asynchronous	Depend on model	Ø		
P02.02	Rated frequency of AM1	0.01Hz~P00.03 (Max. output frequency)	motor. To guarantee the control performance, be sure to	50.00Hz	0		
P02.03	Rated speed of AM1	1~36000rpm	set P02.01~P02.05 correctly according to the	Depend on model	0		
P02.04	Rated voltage of AM1	0~1200V	name plate of the motor. The accuracy of	Depend on model	0		
P02.05	Rated current of AM1	0.8~6000.0A	parameter autotuning for Goodrive300-01 inverters depends on correct setting of motor parameters on the name plate. To guarantee the control performance, configure the motor as the standard motor. If the motor power	Depend on model	Ø		

Function code	Name	Detailed instructio	n of parameters	Default value	Modify
			has a great gap between the standard, the control performance of the inverter will decrease obviously. Note: Resetting the motor rated power	Vulue	
			(P02.01) will initialize P02.02~P02.05.		
P02.06	Stator resistor of AM1	0.001~65.535Ω	After motor parameter autotuning, the settings of	Depend on model	0
P02.07	Rotor resistor of AM1	0.001~65.535Ω	P02.06~P02.10 update automatically. As basic	Depend on model	0
P02.08	Leakage inductance of AM1	0.1~6553.5mH	parameters for high performance vector control, the parameters	Depend on model	0
P02.09	Mutual inductance of AM1		have a direct impact on the control performance. Note: Users should not	Depend on model	0
P02.10	Non-load current of AM1	0.1~6553.5A	change the parameters of the group.	Depend on model	0
P02.11	Magnetic saturation coefficient 1 for the iron core of AM1			80.0%	O
P02.12	Magnetic saturation coefficient 2 for the iron core of AM1			68.0%	O
P02.13	Magnetic saturation	0.0~100.0%		57.0%	0

Function code	Name	Detailed instructio	n of parameters	Default value	Modify
	coefficient 3 for the iron core of AM1				
P02.14	Magnetic saturation coefficient 4 for the iron core of AM1			40.0%	0
P02.15	Rated power of SM1	0.1~3000.0kW	Set the parameters of the controlled synchronous	Depend on model	O
P02.16	Rated frequency of SM1	0.01Hz~P00.03 (Max. output frequency)	motor. To guarantee the control performance, be sure to	50.00Hz	O
P02.17	Number of poles pairs for SM1	1~50	set P02.15~P02.19 correctly according to the name plate of the motor.	2	0
P02.18	Rated voltage of SM1	0~1200V	The accuracy of parameter autotuning for	Depend on model	O
P02.19	Rated current of SM1	0.8~6000.0A	Goodrive300-01 inverters depends on correct setting of motor parameters on the name plate. To guarantee the control performance, configure the motor as the standard motor. If the motor power has a great gap between the standard, the control performance of the inverter will decrease obviously. Note: Resetting the motor rated power	Depend on model	٥

Function code	Name	Detailed instructio	n of parameters	Default value	Modify
			(P02.15) will initialize P02.16~P02.19.		
P02.20	Stator resistor of SM1	0.001~65.535Ω		Depend on model	0
P02.21	Direct axis inductance of SM1	0.01~655.35mH		Depend on model	0
P02.22	Quadrature axis inductance of SM1	0.01~655.35mH	After motor parameter autotuning, the settings of	Depend on model	0
P02.23	Back EMF constant of SM1	When P00.15=2, the set value of P02.23 cannot be updated by autotuning, please count according to the following method. The counter-electromotive force constant can be counted according to the parameters on the name plate of the motor. There are three ways to count: 1. If the name plate designates the EMF constant Ke, then: $E=(Ke^*n_N^*2\pi)/60$ 2. If the name plate designates the EMF constant E'(V/1000r/min), then: $E=E'*n_N/1000$ 3. If the name plate does not designate the above parameters, then: $E=P/\sqrt{3^*1}$ In the above formulas: n_N is the rated rotation speed, P is	P02.20~P02.22 update automatically. As basic parameters for high performance vector control, the parameters have a direct impact on the control performance. When P00.15=1 (rotation autotuning), in no need of change, P02.23 will update via autotuning; when P00.15=2 (static autotuning), P02.23 cannot update via autotuning, so calculate	380	0

Function code	Name	Detailed instruction of parameters	Default value	Modify
		the rated power and I is the		
		rated current.		
		The setting range: 0~10000		
P02.24	Initial pole position of SM1 (reserved)	0x0000~0xFFFF	0	•
P02.25	Identification current of SM1 (reserved)	0%~50% (rated current of the motor)	10%	•
		0:No protection		
P02.26	Motor 1 overload protection	 Common motor (with low speed compensation) Because the heat-releasing effect of the common motor will be weakened, the corresponding electric heat protection will be adjusted properly. The low speer compensation characteristic mentioned here mean reducing the threshold of the overload protection of the motor whose running frequency is below 30Hz. Variable frequency motor (without low speed compensation) Because the heat-releasing effect of the specific motor will not be impacted by rotation speed, there is no need to adjust the protection value during low-speed running. 	t s e 2 s	٥
P02.27	Motor 1 overload protection coefficient	Times of motor overload M=lout/(In*K) In is the rated current of the motor, lout is the outpucurrent of the inverter and K is the motor overload protection coefficient. So, the bigger the value of K is, the smaller the value of M is. When M=116%, the fault will be reported after hour; when M=200%, the fault will be reported after minute; when M>=400%, the fault will be reported instantly.	f 100.0% 1	0

Function	Name	Detailed instruction of parameters	Default	Modify
code	Name	Detailed instruction of parameters	value	woully
		Time t 1h 1m 1m 16% 200% The setting range: 20.0%~120.0%		
P02.28	Correction coefficient of motor 1 power	Correct the power displaying of motor 1. Only impact the displaying value other than the control performance of the inverter. The setting range: 0.00~3.00	1.00	0
P02.29	Parameter display of motor 1	 Display according to the motor type; in the mode, only display the related parameters of current motor type for the convenience of operation Display all; in the mode, display all motor parameters 		0
P03 Grou	p Vector con	trol		
P03.00	Speed loop proportional gain1	The parameters P03.00~P03.05 only apply to vector control mode. Below the switching frequency 1(P03.02), the speed loop PI parameters are: P03.00 and P03.01.		0
P03.01	Speed loop	Above the switching frequency 2(P03.05), the speed loop PI parameters are: P03.03 and P03.04. PI	0.250s	0
P03.02	Low switching frequency	parameters are gained according to the linear change of two groups of parameters. It is shown as below:	5.00Hz	0
P03.03	Speed loop proportional gain 2	P03.00,P03.01	15.0	0
P03.04	Speed loop integral time 2	P03.03,P03.04 Output frequency f	0.250s	0
P03.05	High switching frequency	P03.02 P03.05 Setting the proportional coefficient and integral time of the adjustor can change the dynamic response performance of vector control speed loop. Increasing the		0

Function	Name	Detailed instruction of parameters	Default	Modify
code			value	
		proportional gain and decreasing the integral time can		
		speed up the dynamic response of the speed loop. But		
		too high proportional gain and too low integral time may		
		cause system vibration and overshoot. Too low		
		proportional gain may cause system vibration and speed		
		static deviation.		
		PI has a close relationship with the inertia of the system.		
		Adjust on the base of PI according to different loads to		
		meet various demands.		
		The setting range of P03.00: 0~200.0		
		The setting range of P03.01: 0.000~10.000s		
		The setting range of P03.02: 0.00Hz~P03.05		
		The setting range of P03.03: 0~200.0		
		The setting range of P03.04: 0.000~10.000s		
		The setting range of P03.05: P03.02~P00.03 (Max.		
		output frequency)		
P03.06	Speed loop	0~8 (corresponds to 0~2 ⁸ /10ms)	0	0
	output filter			
	Compensation			
D00.07	coefficient of		1000/	0
P03.07		Slip compensation coefficient is used to adjust the slip		0
	slip in vector control	frequency of vector control and improve the speed		
		control accuracy of the system. Adjusting the parameter properly can control the speed offset.		
	coefficient of	The setting range: 50~200%		
P03.08	braking slip in		100%	0
	vector control			
		Note:		
P03.09	percentage	1 The two parameters adjust the PI adjustment	2000	0
	coefficient P	parameter of the current loop which affects the		
		dynamic response speed and control accuracy		
P03.10	Current loop	directly. Generally, users do not need to change the		
	integral	default value.	1000	0
	coefficient 1	2 Only apply to sensorless vector control mode 0		
		(P00.00=0).		

Function code	Name	Detailed instruction of parameters	Default value	Modify
		The setting range: 0~65535		
P03.11	Torque setting	This parameter is used to enable the torque control mode and set the torque. 0:Torque control is invalid 1:Keypad (P03.12) 2: Al1 3: Al2 4: Al3 5:Pulse frequency HDI 6:Multi-step speed 7:MODBUS communication 8:Reserved 9:Reserved 10:Reserved Note: Setting modes 2~10, 100% corresponds to	0	0
P03.12	Keypad setting torque	three times of motor rated current. The setting range: -300.0%~300.0% (motor rated current)	50.0%	0
P03.13	Torque reference filter time	0.000~10.000s	0. 010s	0
P03.14	Upper frequency source of FWD rotation in torque control	0:Keypad (P03.16 sets P03.14, P03.17 sets P03.15) 1: Al1 2: Al2 3: Al3	0	0
P03.15	Upper frequency source of REV rotation in torque control	4:Pulse frequency HDI 5:Multi-step speed 6:MODBUS communication 7: Reserved 8: Reserved 9: Reserved Note: Setting mode 1~9, 100% corresponds to the maximum frequency.	0	0
P03.16	Keypad setting	This function is used to set the upper limit of the	50.00 Hz	0

Function code	Name	Detailed instruction of parameters	Default value	Modify
	. ,	frequency. P03.16 sets the value of P03.14; P03.17 sets the value of P03.15. The setting range: 0.00 Hz~P00.03 (Max. output frequency)		
P03.17	Keypad setting for upper frequency of REV rotation in torque control		50.00 Hz	0
P03.18	Upper electromotion torque source	This function code is used to select the electromotion and braking torque upper-limit source. 0: Keypad (P03.20 sets P03.18, P03.21 sets P03.19) 1: Al1	0	0
P03.19	Upper braking torque source	2: AI2 3: AI3 4: Pulse frequency HDI 5:MODBUS communication 6: Reserved 7: Reserved 8: Reserved Note: Setting mode 1~9, 100% corresponds to three times of the motor current.	0	0
P03.20	Keypad setting of electromotion torque	The function code is used to set the limit of the torque.	180.0%	0
P03.21	Keypad setting of braking torque	The setting range: 0.0~300.0% (motor rated current)	180.0%	0
P03.22	Weakening coefficient in constant power zone	The usage of motor in weakening control	0.3	0

Function	Name	Detailed instruction of parameters	Default	Modify
code			value	
P03.23	Lowest weakening point in constant power zone	Function code P03.22 and P03.23 are effective at constant power. The motor will enter into the weakening state when the motor runs at rated speed. Change the weakening curve by modifying the weakening control coefficient. The bigger the weakening control coefficient is, the steeper the weak curve is. P03.22 is only valid for vector control mode 1. The setting range of P03.23: 10%~100%	20%	0
P03.24	Max. voltage limit	P03.24 sets the maximum voltage of the inverter, which is dependent on the site situation. The setting range: 0.0~120.0%	100.0%	O
P03.25	Pre-exciting time	Carry out motor pre-excitation when the inverter starts up. Build up a magnetic field inside the inverter to improve the torque performance during the starting process. The setting range: 0.000~10.000s		0
P03.26	Weak magnetic proportional gain	0~4000 Note: P03.24~P03.26 are invalid for vector control mode 1.	300	0
P03.27		0: Display the actual value 1: Display the setting value	0	0
P03.28		0.0~100.0% Adjust P03.28 for low-frequency torque compensation, only valid when the running frequency is within 1Hz.	0.0%	0
P03.29	Compensation	0.0~100.0%	0.0%	0

Function code	Name	Detailed instruction of parameters	Default value	Modify
		Adjust P03.29 for medium torque compensation, valid when the running frequency is above 1Hz.		
P04 Grou	up SVPWM co	ntrol		-
P04.00	Motor 1V/F curve setting	The function codes define the V/F curve of Goodrive300- 01 series motors 1 to meet the need of different loads. 0: Straight line V/F curve; apply to the constant torque load 1: Multi-dots V/F curve 2: 1.3^{th} power low torque V/F curve 3: 1.7^{th} power low torque V/F curve 4: 2.0^{th} power low torque V/F curve 4: 2.0^{th} power low torque V/F curve Curves 2~4 apply to the torque loads such as fans and water pumps. Users can adjust according to the features of the loads to achieve a best energy-consuming effect. 5: Customized V/F(V/F separation); on this mode, V and F can be separated and the feature of the curve will be changed either by adjusting F through the frequency reference channel set by P00.06 or by adjusting V through the voltage reference channel set by P04.27. Note: V _b in the below picture is the motor rated voltage and f _b is the motor rated frequency. $\bigvee_{b} = \frac{1.3^{th}}{1.3^{th}}$ power low torque V/F curve 2.0^{th} power low torque V/F curve 3 Qutput requency f	0	O
P04.01	Torque boost of motor 1	To compensate the feature of low-frequency torque, carry out torque boost on the output voltage. P04.01 is	0.0%	0
P04.02	Torque boost close of motor 1	for the maximum output voltage V_b . P04.02 defines the percentage of closing frequency of manual torque to f_b . Torque boost can improve the feature of low-frequency torque of SVPWM control.	20.0%	0

Function code	Name	Detailed instruction of parameters	Default value	Modify
		Torque boost should be selected according to the load.		
		The bigger the load is, the bigger the boost is. Too big		
		torque boost is inappropriate because the motor will run		
		with over-excitation, and the current of the inverter will		
		increase to raise the temperature of the inverter and		
		decrease the efficiency.		
		When the torque boost is set to 0.0%, the inverter is		
		automatic torque boost.		
		Torque boost threshold: under the threshold, the torque		
		boost is valid, but over the threshold, the torque boost is		
		invalid.		
P04.03	V/F frequency 1 of motor 1	$V_{boost} = 0$	0.00Hz	0
		V/F is generally set according to the load of the motor.		
DOA OA	V/F	Note:V1 <v2<v3,f1<f2<f3. frequency<="" high="" low="" td="" too=""><td></td><td>0</td></v2<v3,f1<f2<f3.>		0
P04.04		voltage will cause overheat or even burnout of the		U
	motor 1	motor and overcurrent stall or protection of the		
D04.05		inverter.	00 001	0
P04.05		The setting range of P04.03: 0.00Hz~P04.05	00.00Hz	U
	motor 1	The setting range of P04.04: 0.0%~110.0% (the rated voltage of motor 1)		
DO4 00	V/F		00.00/	0
P04.06	voltgage 2 of	The setting range of P04.05: P04.03~ P04.07	00.0%	0
	motor 1	The setting range of P04.06: 0.0%~110.0% (the rated		

Function code	Name	Detailed instruction of parameters	Default value	Modify
P04.07	V/F frequency 3 of motor 1	voltage of motor 1) The setting range of P04.07: P04.05~ P02.02 (the rated frequency of motor 1) or P04.05~ P02.16 (the rated	00.00Hz	0
P04.08	V/F voltgage 3 of motor 1	frequency of motor 1) The setting range of P04.08: 0.0% ~110.0% (the rated voltage of motor 1) Output voltage V 100.0% V _b V3 V2 V1 f1 f2 f3 f _b	00.0%	0
P04.09	V/F slip compensation gain of motor 1	This function code is used to compensate the change of the rotation speed caused by load during SVPWM control compensation to improve the rigidity of the motor. It can be set to the rated slip frequency of the motor which is counted as below: $\triangle f=f_b-n^*p/60$ Of which, f_b is the rated frequency of the motor, its function code is P02.02; n is the rated rotating speed of the motor and its function code is P02.03; p is the pole pair of the motor. 100.0% corresponds to the rated slip frequency $\triangle f$. The setting range: 0.0~200.0%	100.0%	0
P04.10	low frequency	In SVPWM control mode, current fluctuation may occur to the motor at some frequency, especially the motor with big power. The motor cannot run stably or overcurrent may occur. These phenomena can be	10	0
P04.11	Vibration control factor at	canceled by adjusting this parameter. The setting range of P04.10: 0~100 The setting range of P04.11: 0~100 The setting range of P04.12: 0.00Hz~P00.03 (Max.	10	0
P04.12	Vibration	output frequency)	30.00 Hz	0

Function code	Name	Detailed instruction of parameters	Default value	Modify
	control			
	threshold of			
	motor 1			
P04.13	Motor 2 V/F		0	0
1 0 1.10	curve setting		0	
P04.14	Torque boost of		0.0%	0
	motor 2		0.070	
	Torque boost			
P04.15	close of motor		20.0%	0
	2			
	V/F			
P04.16	frequency 1 of		0.00Hz	0
	motor 2	This group of parameters defines the V/F setting means		
	V/F	of Goodrive300-01 motor 2 to meet various		
P04.17	Ũ	requirements of different loads. See P04.00~P04.12 for	00.0%	0
	motor 2	the detailed function code instruction.		
	V/F	Note: P04 group includes two sets of V/F parameters		
P04.18	frequency 2 of	of the motor which cannot display simultaneously,	00.00Hz	0
	motor 2	only valid for the selected motor. Motor selection		
	V/F	can be defined by the channel of P08.31 or the		
P04.19	voltage 2 of	terminal function 35 "the shift between motor 1 and	00.0%	0
	motor 2	motor 2".		
	V/F			
P04.20	frequency 3 of		00.00Hz	0
	motor 2			
	V/F			
P04.21	voltage 3 of		00.0%	0
	motor 2			
	V/F slip			
P04.22	compensation		100.0%	0
	gain of motor 2			
	Vibration	In SVPWM control mode, current fluctuation may occur		
P04.23	control factor at	to the motor on some frequency, especially the motor	10	0
	low frequency	with big power. The motor cannot run stably or		_
	of motor 2	overcurrent may occur. These phenomena can be		

Function code	Name	Detailed instruction of parameters	Default value	Modify
	Vibration	canceled by adjusting this parameter.		
		The setting range of P04.23: 0~100		
P04.24	high frequency	The setting range of P04.24: 0~100	10	0
	of motor 2	The setting range of P04.25: 0.00Hz~P00.03 (Max.		
	Vibration	output frequency)		
	control			~
P04.25	threshold of		30.00Hz	0
	motor 2			
		0:No operation		
504.00	Energy-saving	1:Automatic energy-saving operation	0	
P04.26	operation	Motors will automatically adjust the output voltage to	0	O
		save energy at light loads.		
		Select the output voltage setting channel at V/F curve		
		separation.		
		0: Keypad: the output voltage is determined by P04.28.		
		1: Al1;		
		2: AI2;		
		3: AI3;		
		4: HDI;		
P04.27	Voltage setting	5: Multi-step speed;	0	0
	channel	6: PID;		
		7:MODBUS communication;		
		8: Reserved		
		9: Reserved		
		10: Reserved		
		Note: 100% corresponds to the rated voltage of the		
		motor.		
	Keypad setting	The function code is the voltage displaying when the		
P04.28	voltage	voltage is set through keypad.	100.0%	0
	voitage	The setting range: 0.0%~100.0%		
P04.29	Voltage	Voltage increasing time is the time when the inverter	5.0s	0
P04.29	increasing time	accelerates from the output minimum voltage to the		
	Voltage	output maximum voltage.		
P04.30	decreasing	Voltage decreasing time is the time when the inverter	5.0s	0
	time	decelerates from the output maximum voltage to the		

Function code	Name	Detailed instruction of parameters	Default value	Modify
		output minimum voltage.		
		The setting range: 0.0~3600.0s		
P04.31	Maximum output voltage	Set the upper and low limit of the output voltage.	100.0%	O
P04.32	Minimum output voltage	$V_{max} \xrightarrow{i_1 \dots i_1} t1=P04.29$ $V_{set} \xrightarrow{i_1 \dots i_1} t2=P04.30$ $V_{min} \xrightarrow{i_1 \dots i_1} t2=P04.30$ The setting range of P04.31: P04.32~100.0% (motor rated voltage) The setting range of P04.32: 0.0%~P04.31	0.0%	٥
P04.33	Weaking coefficient at constant power	The parameter is used to adjust the output voltage of inverter in SVPWM control mode at weaking magnetic. Note: Invalid in constant torque mode. Output voltage V Vout Vout V_{b}	1.00	0
P05 Grou	up Input termi			
P05.00	HDI input selection	0: High-speed pulse input; see P05.49~P05.54 1: Digital input; see P05.09	0	O
P05.01	S1 terminals function selection	0: No function 1: Forward rotation operation (FWD) 2: Reverse rotation operation (REV)	0	O
P05.02	S2 terminals function selection	3: 3-wire control operation (SIn) 4: Forward jogging 5: Reverse jogging	0	O
P05.03		6: Coast to stop 7: Fault reset 8: Operation pause	0	O

Function code	Name	Detailed instruction of parameters	Default value	Modify
	S4 terminals	9: External fault input		
P05.04	function	10: Increasing frequency setting (UP)	0	O
	selection	11: Decreasing frequency setting (DOWN)		
	S5 terminals	12: Frequency setting clear		
P05.05	function	13: Shift between A setting and B setting	0	O
	selection	14: Shift between combination setting and A setting		
	S6 terminals	15: Shift between combination setting and B setting		
P05.06	function	16: Multi-step speed terminal 1	0	O
	selection	17: Multi-step speed terminal 2		
	S7 terminals	18: Multi-step speed terminal 3		
P05.07	function	19: Multi- step speed terminal 4	0	O
	selection	20: Multi- step speed pause		
	S8 terminals	21: ACC/DEC time 1		
P05.08	function	22: ACC/DEC time 2	0	O
	selection	23: Simple PLC stop reset		
		24: Simple PLC pause		
		25: PID control pause		
		26: Traverse pause (stop at the current frequency)		
		27: Traverse reset (return to the center frequency)		
		28: Counter reset		
		29: Torque control disabling		
		30: ACC/DEC disabling		
		31: Counter triggering		
		32: Length reset		
	HDI terminal	33: Cancel the frequency change setting temporarily		
P05.09	function	34: DC brake	0	O
	selection	35: Shift the motor 1 into motor 2		
		36: Shift the command to the keypad		
		37: Shift the command to the terminals		
		38: Shift the command to the communication		
		39: Pre-magnetized command		
		40: Power consumption clear		
		41: Power consumption hold		
		42: Air filter blockage signal		
		43: Oil filter blockage signal		
		44: Separator blockage signal		

Function code	Name	Detailed instruction of parameters	Default value	Modify
		45: Precision separator signal		
		46: External fault 1		
		47: External fault 2		
		48~63: Reserved		
		The function code is used to set the polarity of the input		
		terminals.		
		Set the bit to 0, the input terminal is anode.		
	D	Set the bit to 1, the input terminal is cathode.		
P05.10	Polarity	BIT8 BIT7 BIT6 BIT5	0x000	0
	selection	HDI S8 S7 S6		
		BIT4 BIT3 BIT2 BIT1 BIT0		
		S5 S4 S3 S2 S1		
		The setting range: 0x000~0x1FF		
		Set the sample filter time of S1~S8 and HDI terminals. If		
D05 44	ON-OFF filter	the interference is strong, increase the parameter to	0.040-	0
P05.11	time	avoid the misoperation.	0.010s	0
		0.000~1.000s		
		Enable the input function of virtual terminals at the		
		communication mode.		
	Virtual	0: Virtual terminals are invalid		
P05.12	terminals	1: MODBUS communication virtual terminals are valid	0	O
	setting	2: Reserved		
		3: Reserved		
		4: Reserved		
		Set the operation mode of the terminals control		
	Terminals	0:2-wire control 1, comply the enable with the direction.		
P05.13	control running	This mode is widely used. It determines the rotation	0	Ø
	mode	direction by the defined FWD and REV terminals		
		command.		

Function code	Name	Det	ailed instru	ction of parar	neters	Default value	Modify
			K1 FWD K2 REV COM	OFF OFF S ON OFF F OFF ON R OFF ON R	Run mmand JRop WiDing Having Held		
				te the enable f this mode is t			
		ones. The dir REV.	ection depen	ids on the state	e of the defined		
			K1 FWD K2 REV COM	FWD REV Runnin comma OFF OFF Stoppin ON OFF Forwa OFF ON OFF ON OFF N ON ON Reversion ON ON Reversion	ng rd rg		
				he enabling ter			
			-		sed by FWD and is natural closed		
			SB1	FWD Sin REV COM			
		The direction	control is as	below during	operation:		
		Sin	REV	Previous	Current		
		ON	OFF→ON	direction Forward Reverse	direction Reverse Forward		
		ON	ON→OFF	Reverse	Forward		
		ON→OFF	ON		te to stop		

Function code	Name	Deta	iled instruct	ion of paran	neters	Default value	Modify
			OFF				
		3:3-wire contro	I 2; Sin is the	enabling ter	minal on this		
		mode, and the	running com	mand is cau	sed by SB1 or		
		SB3 and both of	of them contr	ol the runnin	g direction.NC		
		SB2 generates	the stop con	nmand.			
			SB2 SB2 SB3	WD In REV OM			
		Sin	FWD	REV	Direction		
				ON	Forward		
		ON	OFF→ON	OFF	Reverse		
			OFF		Reverse Decelerate		
		ON→OFF			to stop		
		terminal is va stopping comm terminal FWD/ when the stop FWD/REV is r For example, th	alid, the inv nand from oth REV keeps we ping comma relaunched, fr ne valid STO	erter stop I ner sources, valid; the inv and is cance the inverter <u>P/RST</u> stop v	when FWD/REV because of the even the control erter won't work eled. Only when can start again. when PLC signal inal control (see		
P05.14	Switch-on delay of S1 terminal			•	nding delay time		0
P05.15	Switch-off delay of S1 terminal	of electrical le switching on to		-	e terminals from	0.000s	0

Function code	Name	Detailed instruction of parameters	Default value	Modify
	Switch-on			
P05.16	delay of S2	Si electrical level	0.000s	0
	terminal	Si valid Invalid Valid Invalid		
	Switch-off	Switching-on delay Switching-off delay		
P05.17	delay of S2	The setting range: 0.000~50.000s	0.000s	0
	terminal			
	Switch-on			
P05.18	delay of S3		0.000s	0
	terminal			
	Switch-off			
P05.19	delay of S3		0.000s	0
	terminal			
	Switch-on			
P05.20	delay of S4		0.000s	0
	terminal			
	Switch-off			
P05.21	delay of S4		0.000s	0
	terminal			
	Switch-on			
P05.22	delay of S5		0.000s	0
	terminal			
	Switch-off			
P05.23	delay of S5		0.000s	0
	terminal			
	Switch-on			
P05.24	delay of S6		0.000s	0
	terminal			
	Switch-off			
P05.25	delay of S6		0.000s	0
	terminal			
	Switch-on			
P05.26	delay of S7		0.000s	0
	terminal			

Function code	Name	Detailed instruction of parameters	Default value	Modify
P05.27	Switch-off delay of S7 terminal		0.000s	0
P05.28	Switch-on delay of S8 terminal		0.000s	0
P05.29	Switch-off delay of S8 terminal		0.000s	0
P05.30	Switch-on delay of HDI terminal		0.000s	0
P05.31	Switch-off delay of HDI terminal		0.000s	0
P05. 32	Lower limit of AI1		0.00V	0
P05.33	Corresponding setting of the lower limit of Al1	The function code defines the relationship between the analog input voltage and its corresponding set value. If		0
P05.34	Upper limit of AI1	the analog input voltage exceeds the set minimum or maximum input value, the inverter will count at the		0
P05.35	Corresponding setting of the upper limit of Al1	minimum or maximum one. When the analog input is the current input, the corresponding voltage of 0~20mA is 0~10V. In different cases, the corresponding rated value of	100.0%	0
P05.36	AI1 input filter time	100.0% is different. See the application for detailed information. The figure below illustrates different applications:	0.100s	0
P05.37	Lower limit of Al2	The ingula below inducates unificant applications.	0.00V	0
P05.38	Corresponding setting of the		0.0%	0

Function code	Name	Detailed instruction of parameters	Default value	Modify
	lower limit of			
	AI2	Corresponding setting 100%		
P05.39	Upper limit of		10.00V	0
1 00.00	AI2		10.00 V	Ŭ
	Corresponding	-10V AI		
P05.40	setting of	10V 20mA	100.0%	0
1 00.40	the upper limit	AI1/AI2	100.070	Ũ
	of AI2	AI3		
P05.41	AI2 input filter		0.100s	0
F 03.41	time		0.1005	Ŭ
P05.42	Lower limit of	Input filter time: The parameter is used to adjust the	-10.00V	0
P05.42	AI3	sensitivity of the analog input. Increasing the value	-10.000	Ŭ
	Corresponding	properly can enhance the anti-interference of the		
P05.43	setting of the	analog, but weaken the sensitivity of the analog input.	100.0%	0
P05.43	lower limit of	Note: Analog Al1 and Al2 can support	-100.0%	U
	AI3	0~10V/0~20mA input, when Al1 and Al2 selects		
DOE 44	Middle value of	0~20mA input, the corresponding voltage of 20mA is		0
P05.44	AI3	10V. Al3 can support the output of -10V~+10V.	0.00V	U
	Corresponding	The setting range of P05.32: 0.00V~P05.34		
P05.45	middle setting	The setting range of P05.33: -100.0%~100.0%	0.0%	0
	of AI3	The setting range of P05.34: P05.32~10.00V		
	Upper limit of	The setting range of P05.35: -100.0%~100.0%		0
P05.46	AI3	The setting range of P05.36: 0.000s~10.000s	10.00V	0
	Corresponding	The setting range of P05.37: 0.00V~P05.39		
	setting of	The setting range of P05.38: -100.0%~100.0%		
P05.47	the upper limit	The setting range of P05.39: P05.37~10.00V	100.0%	0
	of AI3	The setting range of P05.40: -100.0%~100.0%		
		The setting range of P05.41: 0.000s~10.000s		
		The setting range of P05.42: -10.00V~P05.44		
P05.48	AI3 input filter	The setting range of P05.43: -100.0%~100.0%	0.100s	0
1 00.40	time	The setting range of P05.44: P05.42~P05.46	0.1005	Ŭ
		The setting range of P05.45: -100.0%~100.0%		
		The setting range of P05.46: P05.44~10.00V		

Function code	Name	Detailed instruction of parameters	Default value	Modify
		The setting range of P05.47: -100.0%~100.0%		
		The setting range of P05.48: 0.000s~10.000s		
		The function selection when HDI terminals is high-speed		
	HDI high-speed	pulse input		
P05.49	pulse input	0: Frequency setting input, frequency setting source	0	O
P05.49	function	1: Counter input, high-speed pulse counter input	0	0
	selection	terminals		
		2: Length counting input, length counter input terminals		
	Lower limit			
P05.50	frequency of	0.00kHz~P05.52	0.00kHz	0
	HDI			
	Corresponding			
D05 54	setting of HDI		0.00/	0
P05.51	low frequency	-100.0%~100.0%	0.0%	0
	setting			
	Upper limit			
P05.52	frequency of	P05.50~50.00kHz	50.00	0
	HDI		kHz	
	Corresponding			
505 50	setting of upper		400.00/	0
P05.53	limit frequency	-100.0%~100.0%	100.0%	0
	of HDI			
505 54	HDI frequency	0.000 40.000	0.010	0
P05.54	input filter time	0.000s~10.000s	0.010s	0
P06 Grou	up Output terr	ninals		
P06.00	Reserved			
DOC OF	Relay RO3	0: Invalid	0	0
P06.01	output	1: In operation	0	0
Dag ag	Relay RO4	2: Forward rotation operation	-	
P06.02	output	3: Reverse rotation operation	0	0
	Relay RO1	4: Jogging operation	_	
P06.03	output	5: Inverter fault	27	0

Function code	Name	Det	ailed instru	ction of para	ameters		Default value	Modify
	Name Relay RO2 output	6: Frequency 7: Frequency 8: Frequency 9: Zero speed 10: Upper lim 11: Lower lim 12: Ready for 13: Pre-magn 14: Overload 15: Underload 15: Underload 16: Completid 17: Completid 18: Setting co 19: Defined c 20: External f 21: Length ar 22: Running t 23: MODBUS		Modify				
		24: Reserved 25: Reserved 26: Reserved 27: Start-up a for air compre 28: Output cc compressor) 29~30: Reser The function of	and stop con essor) ontrol of mag	netic valve (s	special for air			
P06.05	Polarity of output terminals	terminal. When the cur When the c negative. BIT3 RO2	rent bit is se	t to 0, input te	erminal is pos	sitive.		0

Function code	Name	Detailed instruction of parameters	Default value	Modify
		The setting range: 00~0F		
P06.06	RO3 switch-on delay time		0.000s	
P06.07	RO3 switch-off delay time		0.000s	0
P06.08	RO4 switch-on delay time	of the electrical level change during the programmable	0.000s	0
P06.09	RO4 switch-off delay time	terminal switching on and off.	0.000s	0
P06.10	RO1 switch-on delay time	RO electrical level RO valid Invalid ////Valid ////////////////////////////////////	0.000s	0
P06.11	RO1 switch-off delay time	The setting range: 0.000~50.000s	0.000s	0
P06.12	RO2 switch-on delay time		0.000s	0
P06.13	RO2 switch-off delay time		0.000s	0
P06.14	AO1 output	0: Running frequency	24	0
P06.15	AO2 output	1: Set frequency	0	0
P06.16	Reserved	 Ramp reference frequency Running rotation speed Output current (relative to twice the inverter rated current) Output current (relative to twice the motor rated current) Output voltage Output voltage Output torque All input value 	0	0

Function code	Name	Detailed instruction of parameters	Default value	Modify
code		 14: MODBUS communication set value 1 15: MODBUS communication set value 2 16~21: Reserved 22: Torque current (relative to triple the motor rated current) 23: Ramp reference frequency (with sign) 	value	
		24: PID temperature output 25~30:Reserved		
P06.17	Lower output limit of AO1	The above function codes define the relative relationship between the output value and analog output. When the		0
P06.18	Corresponding AO1 output of lower limit	output value exceeds the range of set maximum or minimum output, it will count according to the low-limit or upper-limit output.	0.00V	0
P06.19	Upper output limit of AO1	When the analog output is current output, 1mA equals to 0.5V.	100.0%	0
P06.20	The corresponding AO1 output of upper limit	In different cases, the corresponding analog output of 100% of the output value is different.	10.00V	0
P06.21	AO1 output filter time		0.000s	0
P06.22	Lower output limit of AO2	Corresponding setting	0.0%	0
P06.23	Corresponding AO2 output of lower limit	0.0% 100.0% The setting range of P06.17: -100.0%~P06.19 The setting range of P06.18: 0.00~10.00V	0.00V	0
P06.24	Upper output limit of AO2	The setting range of P06.19: P06.17~100.0% The setting range of P06.20: 0.00V~10.00V	100.0%	0
P06.25	The corresponding AO2 output of upper limit	The setting range of P06.21: 0.000~10.000s The setting range of P06.22: -100.0%~P06.24 The setting range of P06.23: 0.00~10.00V The setting range of P06.24: P06.22~100.0%	10.00V	0
P06.26	AO2 output	The setting range of P06.25: 0.00~10.00V	0.000s	0

Function code	Name	Detailed instruction of parameters	Default value	Modify
	filter time	The setting range of P06.26: 0.000~10.000s		
P06.27	Reserved	P06.27~P6.31: Reserved		•
P06.28	Reserved			•
P06.29	Reserved			•
P06.30	Reserved			•
P06.31	Reserved			•
P07 Grou	up Human-ma	chine interface		
		0~65535		
		The password protection will be valid when setting any		
		non-zero number.	ing any ake the ameter r check all user 0 and the e. If the o enter dthen ot enter bar the bad 0	
		00000: Clear the previous user password and make the		
		password protection invalid.		
		After the set user password becomes valid, if the		
		password is incorrect, users cannot enter the parameter		
		menu. Only correct password can make the user check		
P07.00	Lloor poorword	or modify the parameters. Please remember all user	0	0
P07.00	User password	passwords.	0	Ŭ
		Retreat the editing state of the function codes and the		
		password protection will become valid in a minute. If the		
		valid password is available, press PRG/ESC to enter	y e e e e e e e e e e e r o e e e s r o e e e s r o e e o	
		into the editing state of the function codes, and then		
		"0.0.0.0" will be displayed. The operator cannot enter		
		into it unless inputting the right password.		
		Note: Restoring to the default value can clear the		
		password, please use it with caution.		
		The function code determines the manner of parameters		
		сору.		
		0: No operation		
P07.01	Parameter	1: Upload the local function parameter to the keypad	0	O
	сору	2: Download the keypad function parameter to local	-	
		address (including the motor parameters)		
		3: Download the keypad function parameter to local		
		address (excluding the motor parameter of P02 and P12		

Function code	Name	Detailed instruction of parameters	Default value	Modify
		group) 4: Download the keypad function parameters to local address (only for the motor parameter of P02 and P12 group) Note: After completing the 1~4 operations, the parameter will restore to 0 automatically; the function of upload and download excludes the factory parameters of P29.		
P07.02	QUICK/JOG function selection	 0: No function 1: Jogging. Press QUICK/JOG to begin the jogging running. 2: Shift the display state by the shifting key. Press QUICK/JOG to shift the displayed function code from right to left. 3: Shift between forward rotation and reverse rotation. Press QUICK/JOG to shift the direction of the frequency commands. This function is only valid in the keypad command channels. 4: Clear UP/DOWN settings. Press QUICK/JOG to clear the set value of UP/DOWN. 5: Coast to stop. Press QUICK/JOG to coast to stop. 6: Shift the reference manner of run commands. Press QUICK/JOG to shift the reference manner. 7: Quick commissioning mode (commissioning according to the non-factory parameters) Note: Press QUICK/JOG to shift between forward rotation and reverse rotation, the inverter does not remember the state after shifting during powering off. The inverter will run in the direction set according to P00.13 during next powering on. 	1	٢
P07.03	QUICK/JOG shifting sequence	When P07.02=6, set the shifting sequence of run command channels. 0: Keypad control→terminals control →communication	0	0

Function code	Name	Detailed instruction of parameters	Default value	Modify
	selection	control		
		1: Keypad control←→terminals control		
		2: Keypad control— \rightarrow communication control		
		3: Terminals control←→communication control		
		The valid selection of STOP/RST stop function,		
		STOP/RST is valid in any state for the fault reset.		
D07.04	STOP/RST	0: Only valid for the keypad control	•	0
P07.04	stop function	1: Both valid for keypad and terminals control	0	U
	selection	2: Both valid for keypad and communication control		
		3: Valid for all control modes		
		0x0000~0xFFFF		
		BIT0: running frequency (Hz on)		
		BIT1: set frequency (Hz flickering)		
		BIT2: bus voltage (Hz on)		
		BIT3: output voltage (V on)		
		BIT4: output current (A on)		
		BIT5: running rotation speed (rpm on)		
	Parameters	BIT6: output power (% on)		
P07.05	selection 1 for	BIT7: output torque (% on)	0x03FF	0
	running state	BIT8: PID reference (% flickering)		
		BIT9: PID feedback value (% on)		
		BIT10: input terminals state		
		BIT11: output terminals state		
		BIT12: torque set value (% on)		
		BIT13: pulse counter value		
		BIT14: length value		
		BIT15: PLC and the current step in multi-step speed		
		0x0000~0xFFFF		
	Parameters	BIT0: AI1 (V on)		
P07.06	selection 2 for	BIT1: AI2 (V on)	0x0000	0
PU1.00		BIT2: AI3 (V on)	0,0000	Ŭ
	running state	BIT3: HDI frequency		
		BIT4: motor overload percentage (% on)		

Function code	Name	Detailed instruction of parameters	Default value	Modify
		BIT5: the inverter overload percentage (% on)		
		BIT6: ramp frequency reference (Hz on)		
		BIT7: linear speed		
		BIT8: AC inlet current (A on)		
		BIT9~15: reserved		
		0x0000~0xFFFF		
		BIT0: set frequency (Hz on, frequency flickering slowly)	ly) 0x00FF 1.00	
		BIT1: bus voltage (V on)		
		BIT2: input terminals state		
		BIT3: output terminals state		
		BIT4: PID reference (% flickering)		
		BIT5: PID feedback value (% on)		
	Parameters for	BIT6: torque set value (% on)		0
P07.07	stopping state	BIT7: AI1 (V on)	0x00FF	0
		BIT8: AI2 (V on)		
		BIT9: AI3 (V on)		
		BIT10: HDI frequency		
		BIT11: PLC and the current step in multi-step speed		
		BIT12: pulse counter value		
		BIT13: length value		
		BIT14~BIT15: reserved		
	Frequency	0.01~10.00		
P07.08	coefficient	Displayed frequency=running frequency*P07.08	1.00	0
		0.1~999.9%		
P07.09	Rotation speed	Mechanical rotation speed =120*displayed running	100.0%	0
	coefficient	frequency×P07.09/motor pole pairs		
	Linear speed	0.1~999.9%		_
P07.10	coefficient	Linear speed= Mechanical rotation speed×P07.10	1.0%	0
	Rectifier bridge			
P07.11	module	-20.0~120.0°C		•
	temperature			
	Converter			
P07.12	module	-20.0~120.0°C		

Function code	Name	Detailed instruction of parameters	Default value	Modify
	temperature			
P07.13	Software version	1.00~655.35		•
P07.14	Local accumulative running time	0~65535h		•
P07.15	High bit of power consumption	Display the power used by the inverter The power consumption of the inverter =P07.15*1000+ P07.16		•
P07.16	Low bit of power consumption	The setting range of P07.15: 0~65535 kWh (*1000) The setting range of P07.16: 0.0~999.9 kWh		•
P07.17	Reserved	Reserved		•
P07.18	The rated power of the inverter	0.4~3000.0kW		•
P07.19	The rated voltage of the inverter	50~1200V		•
P07.20	The rated current of the inverter	0.1~6000.0A		•
P07.21	Factory bar code 1	0x0000~0xFFF		•
P07.22	Factory bar code 2	0x0000~0xFFF		•
P07.23	Factory bar code 3	0x0000~0xFFF		•
P07.24	Factory bar code 4	0x0000~0xFFFF		•
P07.25	Factory bar code 5	0x0000~0xFFFF		•

Function code	Name	Detailed instruction of parameters	Default value	Modify
P07.26	Factory bar code 6	0x0000~0xFFFF		•
D07.07	Current fault	0: No fault		
P07.27	type	1: U phase protection of converter unit (OUt1)		•
D07.00	Previous fault	2: V phase protection of converter unit (OUt2)		
P07.28	type	3: W phase protection of converter unit (OUt3)		•
505.00	Previous 2 fault	4: OC1		
P07.29	type	5: OC2		•
	Previous 3 fault	6: OC3		
P07.30	type	7: OV1		•
	Previous 4 fault	8: OV2		
P07.31	type	9: OV3		•
		10: UV		
		11: Motor overload (OL1)		
		12: Inverter overload (OL2)		
		13: Input side phase loss (SPI)		
		14: Output side phase loss (SPO)		
		15: Overheat of rectifier module (OH1)		
		16: Overheat fault of inverter module (OH2)		
		17: External fault (EF)		
		18: 485 communication fault (CE)		
		19: Current detection fault (ItE)		
P07.32	Previous 5 fault	20: Motor antotuning fault (tE)		•
	type	21: EEPROM operation fault (EEP)		
		22: PID response offline fault (PIDE)		
		23: Braking unit fault (bCE)		
		24: Running time arrival (END)		
		25: Electrical overload (OL3)		
		26: Panel communication fault (PCE)		
		27: Parameter uploading fault (UPE)		
		28: Parameter downloading fault (DNE)		
		29~31: Reserved		
		32: Grounding short circuit fault 1 (ETH1)		

Function code	Name	Detailed instruction of parameters	Default value	Modify
coue		33: Grounding short circuit fault 2 (ETH2)	value	
		34: Speed deviation fault (dEu)		
		35: Maladjustment (STo)		
		36: Underload fault (LL)		
	Running			
P07.33	frequency at		0.00Hz	•
	current fault			
	Ramp			
507.04	reference		0.0011	
P07.34	frequency at		0.00Hz	•
	current fault			
D07.05	Output voltage		0)/	
P07.35	at current fault		0V	•
D07.00	Output current		0.04	
P07.36	at current fault		0.0A	•
P07.37	Bus voltage at		0.01/	
P07.37	current fault		0.0V	•
	Max.			
P07.38	temperature at		0.0° C	•
	current fault			
	Input terminals			
P07.39	state at current		0	•
	fault			
	Output			
P07.40	terminals state		0	•
	at current fault			
	Running			
P07.41	frequency at		0.00Hz	•
	previous fault			
	Ramp			
P07.42	reference		0.00Hz	
1 07.72	frequency at		0.00112	
	previous fault	50		

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Function code	Name	Detailed instruction of parameters	Default value	Modify
P07.43	Output voltage at previous fault		0V	•
P07.44	Output current at previous fault		0.0A	•
P07.45	Bus voltage at previous fault		0.0V	•
P07.46	Max. temperature at previous fault		0.0° C	•
P07.47	Input terminals state at previous fault		0	•
P07.48	Output terminals state at previous fault		0	•
P07.49	Running frequency at previous 2 fault		0.00Hz	•
P07.50	Ramp reference frequency at previous 2 fault		0.00Hz	•
P07.51	Output voltage at previous 2 faults		0V	•
P07.52	Output current at previous 2 faults		0.0A	•
P07.53	Bus voltage at previous 2 fault		0.0V	•

Function code	Name	Detailed instruction of parameters	Default value	Modify
P07.54	Max. temperature at previous 2 fault		0.0° C	•
P07.55	Input terminals state at previous 2 fault		0	•
P07.56	Output terminals state at previous 2 fault		0	•
P08 Grou	up Enhanced	function		
P08.00	ACC time 2		Depend on model	0
P08.01	DEC time 2		Depend on model	0
P08.02	ACC time 3	See P00.11 and P00.12 for detailed definition. Goodrive300-01 series define four groups of ACC/DEC	Depend on model	0
P08.03	DEC time 3	time which can be selected by P5 group. The first group of ACC/DEC time is the factory default one. The setting range: 0.0~3600.0s	Depend on model	0
P08.04	ACC time 4		Depend on model	0
P08.05	DEC time 4		Depend on model	0
P08.06	Jogging frequency	This parameter is used to define the reference frequency during jogging. Setting range: 0.00Hz ~P00.03 (Max. output frequency)	5.00Hz	0
P08.07	Jogging ACC time	The jogging ACC time means the time needed if the inverter runs from 0Hz to P0.03.	Depend on model	0
P08.08	Jogging DEC time	The jogging DEC time means the time needed if the inverter goes from P0.03 to 0Hz. Setting range: 0.0~3600.0s	Depend on model	0
P08.09	Jumping frequency 1	When the set frequency is in the range of jumping frequency, the inverter will run at the edge of the jumping	0.00Hz	0

Function code	Name	Detailed instruction of parameters	Default value	Modify
P08.10	Jumping frequency range 1	frequency. The inverter can avoid the mechanical resonance point by setting the jumping frequency. The inverter can set		0
P08.11	Jumping frequency 2	three jumping frequency. But this function will be invalid if all jumping points are 0.	0.00Hz	0
P08.12	Jumping frequency range 2	Set frequency f Jumping freq.:3	0.00Hz	0
P08.13	Jumping frequency 3	Jumping-freq-2	0.00Hz	0
P08.14	Jumping frequency range 3	Jumping freq. range1 Jumping freq. range1 1/2*Jumping freq. range1 1/2*Jumping freq. range1 Time t Setting range: 0.00Hz~P00.03 (Max. output frequency)	0.00Hz	0
P08.15	Traverse range	This function applies to the industries where traverse	0.0%	0
P08.16	Sudden jumping frequency range	and convolution function are required such as textile and chemical fiber. The traverse function means that the output frequency of the inverter is fluctuated with the set frequency as its	0.0%	0
P08.17	Traverse boost time	center. The route of the running frequency is illustrated as below, of which the traverse range is set by P08.15	5.0s	0
P08.18	Traverse declining time	and when P08.15 is set as 0, the traverse is 0 with no function. Output frequency f Center freq Accelerate according to ACC time Traverse range: The traverse running is limited by upper and low frequency. The traverse range relative to the center frequency (set frequency): traverse range AW =center frequency× traverse range P08.15.		0

Function	Name	Detailed instruction of parameters	Default	Modify
code			value	
		Sudden jumping frequency=traverse range AW×sudden		
		jumping frequency range P08.16. The value is relative to		
		the sudden jumping frequency at the traverse frequency.		
		Traverse boost time: The time from the lowest point to		
		the highest one.		
		Traverse declining time: The time from the highest point		
		to the lowest one.		
		The setting range of P08.15: 0.0~100.0% (relative to the		
		set frequency)		
		The setting range of P08.16: 0.0~50.0% (relative to the		
		traverse range)		
		The setting range of P08.17: 0.1~3600.0s		
		The setting range of P08.18: 0.1~3600.0s		
P08.19	Setting length	The function codes of setting length, actual length and	0m	0
P08.20	Actual length	unit pulse are mainly used to control the fixed length.	0m	•
D00.04	Pulse per	The length is counted by the pulse signal of HDI		0
P08.21	rotation	terminals input and the HDI terminals are needed to set	1	U
P08.22	Axle perimeter	as the length counting input.	10.00cm	0
P08.23	Length ratio	Actual length=the length counting input pulse / unit	1.000	0
		pulse		
		When the actual length P08.20 exceeds the setting		
		length P08.19, the multi-function digital output terminals		
		will output ON.		
	Length	Setting range of P08.19: 0~65535m		~
P08.24	correcting	Setting range of P08.20: 0~65535m	1.000	0
	coefficient	Setting range of P08.21: 1~10000		
		Setting range of P08.22: 0.01~100.00cm		
		Setting range of P08.23: 0.001~10.000		
		Setting range of P08.24: 0.001~1.000		
D00.05	Setting	The counter works by the input pulse signals of the HDI	0	0
P08.25	counting value	terminals.	0	U
Da <i>c</i> a <i>c</i>	Reference	When the counter reaches a fixed number, the		
P08.26	counting value	multi-function output terminals will output the signal of	0	0

Function code	Name	Detailed instruction of parameters	Default value	Modify
		"reference counting number arrival" and the counter goes on working; when the counter reaches a setting number, the multi-function output terminals will output the signal of "setting counting number arrival", the counter will clear all numbers and stop to recount before the next pulse. P08.26 should be no more than P08.25. The function is illustrated as below: HDI		
P08.27	Set running time	Setting range of P08.26: 0~P08.25 Pre-set running time of the inverter, when the accumulative running time arrives at the set time, the multi-function digital output terminals will output the signal of "running time arrival". Setting range: 0~65535min		0
P08.28	Fault reset times	Fault reset times: Set the automatic fault reset times. If the reset time exceeds this set value, the inverter will	0	0
P08.29	Interval time of automatic fault reset	stop to wait maintenance. Interval time of automatic fault reset: The interval between the time when the fault occurs and the time when the reset action occurs. Setting range of P08.28: 0~10 Setting range of P08.29: 0.1~3600.0s		0
P08.30	Frequency decreasing ratio of the dropping control	The output frequency of the inverter changes as the load. And it is mainly used to balance the power when several inverters drive one load. Setting range: 0.00~50.00Hz	0.00Hz	0
P08.31	Motor shifting	Goodrive300-01 supports the shift between two motors. This function is used to select the shifting channel.	0x00	O

Function code	Name	Detailed instruction of parameters	Default value	Modify
		LED ones: shifting channel		
		0: terminal shifting; digital terminal is 35		
		1: MODBUS communication shifting		
		2: Reserved		
		3: Reserved		
		4: Reserved		
		LED tens: shifting enabling in operation		
		0: Disabled		
		1: Enabled		
		0x00~0x14		
	FDT1 electrical	When the output frequency exceeds the corresponding		
P08.32	level detection	frequency of FDT electrical level, the multi-function	50.00Hz	0
	value	digital output terminals will output the signal of		
P08.33	FDT1 retention	"frequency degree test FDT" until the output frequency	5.0%	0
F 00.55	detection value	decreases to a value lower than (FDT electrical	5.0%	Ŭ
	FDT2 electrical	level—FDT retention detection value) the corresponding		
P08.34	level detection	frequency, the signal is invalid. Below is the waveform	50.00Hz	0
	value	diagram:		
P08.35	FDT2 retention detection value	FDT electrical level FDT electrical level FDT retention FDT retention FDT retention FDT retention Time t Setting range of P08.32: 0.00Hz~P00.03 (Max. output frequency) Setting range of P08.33: -100.0~100.0% (FDT1 electrical level) Setting range of P08.34: 0.00Hz~P00.03 (Max. output	5.0%	0

Function code	Name	C	etailed instr	uction of para	ameters		Default value	Modify
		frequency) Setting ran electrical le	ge of P08.35	: -100.0~100.0	% (FDT2			
P08.36	Frequency arrival	negative c multi-functi	letection rar on digital out cy arrival", se : Output	ency is amor age of the se put terminal wi be the diagram	et frequency	r, the signal tailed		0
	detection value	Setting ran	R0	P00.03 (Max. o	Time t Time t Time t	ncy)		
P08.37	Energy braking enable	This paran pipe inside 0: Disabled 1: Enabled	neter is used the inverter.	I to control th	e internal br		0	0
P08.38		adjust the default valu	voltage appr	bus voltage to opriately to bra vith the voltage 0~2000 0V	ake the load	0,7		
	Threshold voltage	In order to	U U	omers set the v	alue is too la 660	rge, it		0
		range	685~750 V	860~950V	1080~11 80V		voltage: 1120.0V	

Function code	Name	Detailed instruction of parameters	Default value	Modify
P08.39	Cooling fan	0: Normal mode	0	0
1 00.00	running mode	1: The fan keeps running after power on	0	Ŭ
		0x00~0x21		
		LED ones: PWM mode selection		
		0: PWM mode 1, three-phase modulation and		
		two-modulation		
		1: PWM mode 2, three-phase modulation		
P08.40	PWM selection	LED tens: low-speed carrier frequency limit mode	01	Ø
		0: Low-speed carrier frequency limit mode 1, the carrier		
		frequency will limit to 2k if it exceeds 2k at low speed		
		1: Low-speed carrier frequency limit mode 2, the carrier		
		frequency will limit to 4k if it exceeds 4k at low speed		
		2: No limit		
	Over commission selection	LED ones		
		0: Invalid		
D00 44		1: Valid	01	
P08.41		LED tens	01	O
		0: Light overcommission; in zone 1		
		1: Heavy overcommission; in zone 2		
		0x000~0x1223		
		LED ones: frequency enable selection		
		0: Both $~\wedge/\vee~$ keys and digital potentiometer		
		adjustments are valid		
		1: Only \land / \lor keys adjustment is valid		
		2: Only digital potentiometer adjustment is valid		
P08.42	Keypad data	3: Neither $\land I \lor$ keys nor digital potentiometer	0x0000	0
P08.42	control	adjustment is valid	0x0000	U
		LED tens: frequency control selection		
		0: Only valid when P00.06=0 or P00.07=0		
		1: Valid for all frequency setting manners		
		2: Invalid for multi-step speed when multi-step speed		
		has the priority		
		LED hundreds: action selection during stopping		

Function code	Name	Detailed instruction of parameters	Default value	Modify
		0: Setting is valid		
		1: Valid during running, cleared after stopping		
		2: Valid during running, cleared after receiving the stop		
		command		
		LED thousands: \land / \lor keys and digital potentiometer		
		integral function		
		0: The integral function is valid		
		1: The integral function is invalid		
	Integral ratio of			
P08.43	the keypad	0.01~10.00s	0.10s	0
	potentiometer			
		0x000~0x221		
	UP/DOWN terminals control	LED ones: frequency enable selection		
		0: UP/DOWN terminals setting valid		
		1: UP/DOWN terminals setting invalid		
		LED tens: frequency control selection		
		0: Only valid when P00.06=0 or P00.07=0	0x000	
P08.44		1: All frequency manners are valid		0
1 00.44		2: When the multi-step has the priority, it is invalid to the	0,000	Ũ
		multi-step speed.		
		LED hundreds: action selection during stopping		
		0: Setting is valid		
		1: Valid during running, cleared after stopping		
		2: Valid during running, cleared after receiving the stop		
		command		
	UP terminals		0.50	
P08.45	frequency	0.01~50.00Hz/s	Hz/s	0
	changing ratio			
	DOWN			
P08.46	terminals	0.01~50.00Hz/s	0.50	0
	frequency		Hz/s	
	changing ratio			
P08.47	Frequency	0x000~0x111	0x000	0

Function	Name	Detailed instruction of parameters	Default	Modify
code			value	_
	setting at	LED ones: action selection when power off in digital		
	power loss	setting		
		0: Save when power off		
		1: Clear when power off		
		LED tens: action selection when power off in MODBUS		
		setting		
		0: Save when power off		
		1: Clear when power off		
		LED hundreds: action selection when power off in other		
		communication settings		
		0:Save when power off		
		1:Clear when power off		
	High bit of	This parameter is used to set the original value of the		
P08.48	initial power	power consumption.	0°	0
	consumption	The original value of the power consumption = P08.48*		
	Low bit of initial	1000 + P08.49		
P08.49	power	Setting range of P08.48: 0~59999kWh(k)	0.0°	0
	consumption	Setting range of P08.49: 0.0~999.9 kWh		
		This function code is used to enable magnetic flux		
		braking.		
		0: Invalid		
		100~150: The bigger the coefficient, the stronger the		
		braking is.		
		This inverter is used to increase the magnetic flux to		
		decelerate the motor. The energy generated by the		
P08.50	Magnetic flux	motor during braking can be converted into heat energy	0	0
	braking	by increasing the magnetic flux.		
		The inverter monitors the state of the motor continuously		
		even during the magnetic flux period. So the magnetic		
		flux can be used for motor stop as well as to change the		
		rotation speed of the motor. Its other advantages are:		
		Brake immediately after the stop command. It does not		
		need to wait the magnetic flux weakening.		

Function code	Name	Detailed instruction of parameters	Default value	Modify
		Provide better cooling for motors. The current of the		
		stator other than the rotor increases during magnetic flux		
		braking, while the cooling of the stator is more effective		
		than the rotor.		
	Input power	This function code is used to adjust the displayed current		
P08.51	factor of the	of the AC input side.	0.56	0
	inverter	Setting range: 0.00~1.00		
P09 Grou	p PID contro	1		
		When the frequency command selection (P00.06,		
		P00.07) is 7 or the voltage setting channel selection		
		(P04.27) is 6, the running mode of the inverter is		
		procedure PID control.		
		The parameter determines the target reference channel		
		of procedure PID.		
		0: Keypad (P09.01)		
		1: AI1		
		2: AI2		
		3: AI3		
		4: HDI		
P09.00	PID reference	5: Multi-step speed	0	0
F09.00	source	6: MODBUS communication	0	Ŭ
		7: Reserved		
		8: Reserved		
		9: Reserved		
		10: Special pressure setting for air compressor		
		The setting target of procedure PID is a relative one,		
		100% of the setting equals to 100% of the response of		
		the controlled system.		
		The system is calculated according to the relative value		
		(0~100.0%).		
		Note: Multi-step speed reference, it is realized by		
		setting P10 group.		
P09.01	Keypad PID	When P09.00=0, set the parameter whose basic value is	0.0%	0

Function code	Name	Detailed instruction of parameters	Default value	Modify
	preset	the response value of the system.		
		The setting range: -100.0%~100.0%		
		Select the PID feedback channel by the parameter.		
		0: AI1		
		1: AI2		
		2: AI3		
		3: HDI		
P09.02	PID feedback	4: MODBUS communication	0	0
P09.02	source	5: Reserved	0	U
		6: Reserved		
		7: Reserved		
		8: Special pressure feedback for air compressor		
		Note: The reference and feedback channels cannot		
		coincide; otherwise, PID cannot control effectively.		
		0: PID output is positive: When the feedback signal		
		exceeds the PID reference, the output frequency of the		
		inverter will decrease to balance the PID. For example,		
P09.03	PID output	the strain PID control during wrapup.	0	0
P09.03	feature	1: PID output is negative: When the feedback signal is		Ŭ
		stronger than the PID given value, the output frequency		
		of the inverter will increase to balance the PID. For		
		example, the strain PID control during wrapdown.		
		The function is applied to the proportional gain P of PID		
		input.		
		P determines the strength of the whole PID adjuster. The		
P09.04	Proportional	parameter of 100 means that when the deviation of PID	10.00	0
P09.04	gain (Kp)	feedback and reference is 100%, the adjusting range of		U
		PID adjustor is the maximum frequency (ignoring		
		integral and differential effect).		
		The setting range: 0.00~100.00		
	Internet the	This parameter determines the speed of PID adjustor to		
P09.05	Integral time	carry out integral adjustment on the deviation of PID	2.00s	0
	(Ti)	feedback and reference.		

Function code	Name	Detailed instruction of parameters	Default value	Modify
		When the deviation of PID feedback and reference is 100%, the integral adjustor works continuously after the time (ignoring the proportional and differential effect) to reach the maximum output frequency (P00.03) or the maximum voltage (P04.31). Shorter the integral time,		
		stronger is the adjustment. Setting range: 0.00~10.00s		
P09.06	Differential time (Td)	This parameter determines the strength of the change ratio when PID adjustor carries out integral adjustment on the deviation of PID feedback and reference. If the PID feedback changes 100% during the time, the adjustment of integral adjustor (ignoring the proportional and differential effect) is the maximum output frequency (P00.03) or the maximum voltage (P04.31). Longer the integral time, stronger the adjustment. Setting range: 0.00~10.00s	0.00s	0
P09.07	Sampling cycle (T)	This parameter means the sampling cycle of the feedback. The adjustor operates each sampling cycle. The longer the sampling cycle, the slower the response. Setting range: 0.001~10. 000s	0.100s	0
P09.08	PID control deviation limit	The output of PID system is the maximum deviation relative to close loop reference. As shown in the diagram below, PID adjustor stops to work during the deviation limit. Set the function properly to adjust the accuracy and stability of the system.	0.0%	0

Function code	Name	Detailed instruction of parameters	Default value	Modify
		Reference		
P09.09	Output upper limit of PID	This parameter is used to set the upper and lower limit of the PID adjustor output.	100.0%	0
P09.10	Output lower limit of PID	100.0% corresponds to the maximum output frequency (P00.03) or the maximum voltage (P04.31). Setting range of P09.09: P09.10~100.0% Setting range of P09.10: -100.0%~P09.09	0.0%	0
P09.11		Set the detection value of feedback offline. When the feedback detection value is smaller than or equals to the detected value and the lasting time exceeds the set	0.0%	0
P09.12	Detection time of feedback offline	value in P09.12, the inverter will report "PID feedback offline fault" and the keypad will display PIDE. Output frequency f t1 <t2, continues="" inverter="" running.<br="" so="" the="">t2=P09.12 P09.11 P09.11 Time t t1 t1 t2=P09.12 Time t t1 t1 t2=P09.12 Time t t1 t1 t2=P09.12 Time t</t2,>		0
P09.13	PID adjustment	0x00~0x11 LED ones: 0: Keep on integral adjustment when the frequency	0x01	0

P11.00 Preaches the upper and low limit; the integration shows the change between the reference and feedback unless it reaches the internal integral limit. When the trend between the reference and feedback changes, it needs more time to offset the impact of continuous working and the integration will change with the trend. 1: Stop integral adjustment when the frequency reaches the upper and low limit. If the integration keeps stable and the integration will change with the trend quickly. IEED tens: 0: The same with the setting direction; if the output of PID adjustment is different from the current running direction, the internal will output 0 forcedly. 1: Opposite to the setting direction; if the output of PID adjustment is different from the current running direction, conduct the output of forcedly. P11.00 Phase loss protective parameters 0x00-0x11 P11.00 Phase loss protection 0: Input phase loss protection disabled 1: Input phase loss protection enabled 1: Output phase loss protection enabled 1: Input phase loss protection enabled 1: Output phase loss protection enabled 1: O	Function	Name	Detailed instruction of parameters	Default	Modify
P11.00 Protective parameters P11.00 Protection P11.00 Protection P11.00 Frequency P11.01 Frequency	code			value	
P11.00 Protective parameters P11.00 Phase loss 0: Disabled 0: Disabled 1: Opposite on sprotection disabled P11.01 Frequency Frequency 0: Disabled 0: Disabled 0: Disabled P11.01 Frequency 0: Disabled 0: Disabled 0: Disabled 0: Disabled 0: Disabled P11.01 Frequency 0: Disabled 0: Disabled 0: Disabled 0 0			reaches the upper and low limit; the integration shows		
P11.00 Protective parameters P11.00 Phase loss protection 0 0 0 0 0 P11.01 Frequency decreasing at loss protection disabled is sudden power is class 0 <td< td=""><td></td><td></td><td>the change between the reference and feedback unless</td><td></td><td></td></td<>			the change between the reference and feedback unless		
P11.00 Protective parameters P11.00 Phase loss protection P11.00 Protective parameters P11.00 Frequency decreasing at 0: Disabled 1: Output phase loss protection disabled 1: Output phase loss protection enabled 1: Output phase loss protection disabled 1: Output phase loss protection enabled 1: Output phase loss protection disabled 1: Output phase loss protection enabled 1: Output phase loss protection enabled 1: Output phase loss protection disabled 1: Output phase loss protection disabled 1: Output phase loss protection disabled 1: Output phase loss protection enabled 1: Output phase loss protection disabled 1: Output phase loss protection enabled 1: Output phase loss protection disabled 1: Output phase loss protection disabled 1: Output phase loss protection enabled 1: Output phase loss protection en			it reaches the internal integral limit. When the trend		
P11.00 Protective parameters P11.00 Phase loss protection p			between the reference and feedback changes, it needs		
P11 Group Protective parameters P11.00 Phase loss protection 0: Input phase loss protection disabled 1: Input phase loss protection disabled 1: Input phase loss protection enabled 1: Output phase loss			more time to offset the impact of continuous working and		
P11.00 Protective parameters P11.00 Phase loss protection protection is abled and the set of the current running direction is apposite to the setting direction adjustment which is apposite to the current running direction. P11.00 Phase loss protection is composite to the current running direction adjustment is different from the current running direction. P11.00 Phase loss protection P11.00 Phase loss protection P11.00 Phase loss protection P11.00 Phase loss protection P11.00 Frequency decreasing at 0: Disabled is udden power P11.01 Frequency loss P11.01 Frequency loss P11.01 Frequency loss P11.01 Image: protection protection protection apposed to the protection of the protectic			the integration will change with the trend.		
P11 Group Protective parameters P11.00 Phase loss protection 0: Input phase loss protection disabled 1: Input phase loss protection disabled 1: Output phase loss protection enabled 1: Output phase loss protection enabled 1: Output phase loss protection enabled 1: Dutput phase loss			1: Stop integral adjustment when the frequency reaches		
P11.00 Phase loss protection pr			the upper and low limit. If the integration keeps stable		
P11.00 Protective parameters P11.00 Phase loss protection protection protection phase loss protection disabled 1: Input phase loss protection disabled 1: Output phase loss protection disabled 1: Output phase loss protection disabled 1: Output phase loss protection disabled 1: Duput phase loss protection disabled 1: Duput phase loss protection disabled 1: Output phase loss protection disabled 1: Output phase loss protection disabled 1: Duput phase loss phase phase pha			and the trend between the reference and feedback		
P11 Group Protective adjustment is different from the current running direction, the internal will output 0 forcedly. 1: Opposite to the setting direction; if the output of PID adjustment is different from the current running direction, conduct the output of close loop adjustment which is opposite to the current running direction. P11 Group Protective			changes, the integration will change with the trend		
P11.00Protective parametersP11.00O: The same with the setting direction; if the output of PID adjustment is different from the current running direction, the internal will output 0 forcedly. 1: Opposite to the setting direction; if the output of PID adjustment is different from the current running direction, conduct the output of close loop adjustment which is opposite to the current running direction.P11 Group Protective parameters0x00~0x11 LED ones: 0: Input phase loss protection disabled 1: Input phase loss protection enabled 1: Output phase loss protection disabled 1: Output phase loss protection disabled 1: Output phase loss protection enabled 1: Output phase loss protection enabled 1: Output phase loss protection disabled 1: Output phase loss protection enabled 1: Output phase loss protection disabled 1: Output phase loss protection disabled 1: Output phase loss protection disabled 1: Output phase loss protection enabled 1: Output phase loss protection enabled 1: Output phase loss protection disabled 1: Output phase loss protection disabled 1: Output phase loss protection enabled 1: Output phase loss protection enabled0			quickly.		
PID adjustment is different from the current running direction, the internal will output 0 forcedly. 1: Opposite to the setting direction; if the output of PID adjustment is different from the current running direction, conduct the output of close loop adjustment which is opposite to the current running direction. P11 Group Protective parameters P11.00 Phase loss protection 0x00~0x11 LED ones: 0: Input phase loss protection disabled 11 0 Display the protection 0: Output phase loss protection enabled 11 0 P11.00 Phase loss protection 0: Output phase loss protection disabled 11 0 P11.00 Phase loss protection 0: Disabled 1: Output phase loss protection enabled 11 0 P11.01 Frequency decreasing at sudden power loss 0: Disabled 0: Disabled 0 0			LED tens:		
P11 Group Protective parameters P11.00 Phase loss protection 0x00~0x11 LED ones: 0: Input phase loss protection enabled 1: Input phase loss protection disabled 0: Input phase loss protection enabled 0: Output phase loss protection disabled 1: Output phase loss protection disabled P11.00 Frequency 0: Output phase loss protection disabled 0: Output phase loss protection disabled P11.01 Frequency 0: Disabled 0: Disabled 0: Disabled P11.01 Is analysis 0: Disabled 0: Disabled 0: Disabled 0: Disabled 1: Enabled 0: Disabled 0: Disabled 0: Disabled			0: The same with the setting direction; if the output of		
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P11 Group Protective parameters P11 Group Protective parameters P11.00 Phase loss protection disabled P11.00 Phase loss protection P11.01 Prequency			direction, the internal will output 0 forcedly.		
P11 Group Protective parameters P11 Group Protective parameters P11.00 Phase loss Phase loss 0: Input phase loss protection disabled 1: Input phase loss protection enabled 11 1: Input phase loss protection disabled 11 0: Output phase loss protection disabled 11 1: Input phase loss protection disabled 0: Output phase loss protection disabled 1: Output phase loss protection disabled 0: Output phase loss protection disabled 1: Output phase loss protection disabled 0: Output phase loss protection disabled 1: Output phase loss protection disabled 0: Output phase loss protection enabled P11.01 Frequency decreasing at loss 0: Disabled sudden power 1: Enabled loss 0: Disabled			1: Opposite to the setting direction; if the output of PID		
P11 Group Protective parameters P11.00 Protective parameters P11.00 Phase loss protection disabled 1 Input phase loss protection enabled 1 Input phase loss ph			adjustment is different from the current running direction,		
P11 Group Protective parameters P11 Group Protective parameters 0x00~0x11 LED ones: 0: Input phase loss protection disabled 11 0: Input phase loss protection enabled 11 1: Input phase loss protection disabled 11 1: Input phase loss protection disabled 11 1: Output phase loss protection disabled 11 1: Output phase loss protection enabled 0 P11.01 Frequency decreasing at loss 0: Disabled sudden power 1: Enabled			conduct the output of close loop adjustment which is		
P11 Group Protective parameters P11 Group Protective parameters 0x00~0x11 LED ones: 0: Input phase loss protection disabled 11 0: Input phase loss protection enabled 11 1: Input phase loss protection disabled 11 1: Input phase loss protection disabled 11 1: Output phase loss protection disabled 11 1: Output phase loss protection enabled 0 P11.01 Frequency decreasing at loss 0: Disabled sudden power 1: Enabled			opposite to the current running direction.		
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P11.00 Phase loss protection LED ones: 0: Input phase loss protection disabled 1: Input phase loss protection enabled LED tens: 0: Output phase loss protection disabled 1: Output phase loss protection enabled 1: Output phase loss protection enabled 0: Dutput phase loss protection enabled 0: Output phase loss protection enabled 11 O P11.01 Frequency decreasing at loss O: Disabled 1: Enabled 0: O O					
P11.00 Phase loss protection 1: Input phase loss protection enabled 11 0 LED tens: 0: Output phase loss protection disabled 11 0 0: Output phase loss protection enabled 1: Output phase loss protection disabled 11 0 P11.01 Frequency 0: Disabled 0 0 0 P11.01 decreasing at loss 0: Disabled 0 0 0 P11.01 loss I: Enabled 0 0 0			LED ones:		
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P11.01 LED tens: 0: Output phase loss protection disabled 1: Output phase loss protection enabled 0: Disabled 0: Disabled	P11.00	Phase loss	1: Input phase loss protection enabled	11	0
P11.01 I: Output phase loss protection enabled 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		protection	LED tens:		
P11.01 Frequency decreasing at 0: Disabled sudden power 1: Enabled loss 0 0 0			0: Output phase loss protection disabled		
P11.01 decreasing at 0: Disabled 0 sudden power 1: Enabled 0 loss 0			1: Output phase loss protection enabled		
P11.01 sudden power 1: Enabled 0 0		Frequency			
sudden power 1: Enabled	P11.01	decreasing at	0: Disabled		0
		sudden power	1: Enabled	0	0
Englighter Setting range: 0.00Hz/eD00.02 (May autout frequency) 40.00		loss			
Frequency [Setting range, 0.00m2/s~P00.03 (Max. output frequency)] 10.00		Frequency	Setting range: 0.00Hz/s~P00.03 (Max. output frequency)	10.00	~
P11.02 decreasing After the power loss of the grid, the bus voltage drops to Hz/s	P11.02				0

Function code	Name	Detailed instruction of parameters	Default value	Modify
code		the sudden frequency decreasing point and the inverter begins to decrease the running frequency at P11.02 to make the inverter generate power again. The returning power can maintain the bus voltage to ensure a rated running of the inverter until the recovery of power. Voltage degree 220V 380V 660V Frequency decreasing 260V 460V 800V threshold Note: 1. Adjust the parameter properly to avoid the stopping caused by inverter protection during the	value	
		switching of the grid. 2. Disable input phase loss protection to enable this function.		
P11.03	Overvoltage stall protection	0:Disabled 1:Enabled DC bus current A Overvoitage speed loss point Output frequency f	1	0
	Voltage	120~150% (standard bus voltage) (220V)	120%	0
P11.04	protection of	120~150% (standard bus voltage) (380V)	136%	
	overvoltage stall	120~150% (standard bus voltage) (660V)	120%	
P11.05		The actual increasing ratio of motor speed is lower than that of output frequency because of the big load during ACC running. It is necessary to take measures to avoid overcurrent fault and the inverter trips.	01	0

Function code	Name	Detailed instruction of parameters	Default value	Modify
P11.06	Automatic current limit Frequency decreasing ratio during current limit	Ones: current limit action selection 0: Invalid 1: Valid Tens: overload alarm of hardware current limit 0: Valid 1: Invalid During the running of the inverter, it will detect the output current and compare it with the limit level defined in P11.06. If it exceeds the level, the inverter will run at stable frequency in ACC running, or the inverter will derate to run during the constant running. If it exceeds the level continuously, the output frequency will keep on decreasing to the lower limit. If the output current is detected to be lower than the limit level, the inverter will accelerate to run. Output current A Current Imit point Setting range of P11.06: 50.0~200.0%	160.0%	0
P11.08	Overload pre-alarm of motor/inverter	Setting range of P11.07: 0.00~50.00Hz/s	0x000	0
P11.09	Overload pre-alarm detection level	The output current of the inverter or the motor is above P11.09 and the lasting time is beyond P11.10, overload pre-alarm will be output.		0
P11.10	Overload pre-alarm		1.0s	0

Function code	Name	Detailed instruction of parameters	Default value	Modify
	detection time	Output current A Overload pre-alarm point Pre-alarm time t RO		
		Setting range of P11.08:		
		Enable and define the overload pre-alarm of the inverter		
		or the motor.		
		Setting range: 0x000~0x131		
		LED ones:		
		0: Overload pre-alarm of the motor, relative to the rated		
		current of the motor		
		1: Overload pre-alarm of the inverter, relative to the		
		rated current of the inverter		
		LED tens:		
		0: The inverter continues to work after overload and		
		underload pre-alarm		
		1: The inverter continues to work after underload		
		pre-alarm and it stops running after overload fault		
		2: The inverter continues to work after overload		
		pre-alarm and it stops running after underload fault		
		3: The inverter stops running after overload and		
		underload pre-alarm		
		LED hundreds :		
		0: Detection all the time		
		1: Detection in constant running		
		Setting range of P11.09: P11.11~200%		
		Setting range of P11.10: 0.1~3600.0s		
P11.11	Underload	If the inverter or motor output current is lower than	50%	0

pre-alarm detection level inverter will output underload pre-alarm.	Function code	Name	Detailed instruction of parameters	Default value	Modify
P11.12 Underload pre-alarm detection time Setting range of P11.11: 0-P11.09 Setting range of P11.12: 0.1~3600.0s 1.0s 0 P11.12 Setting range of P11.12: 0.1~3600.0s 1.0s 0 Select the action of fault output terminals during undervoltage and automatic reset. 0x00~0x11 0x00 0 Output terminal ED ones: 0: Action during undervoltage LED tens: 0x00 0 Year 0: Action during the automatic reset 1: No action during the automatic reset 10.0% 0 P11.14 Speed deviation detection 0.~50.0% Set the speed deviation detection. 10.0% 0 P11.15 Speed deviation detection time 0.~50.0% Set the speed deviation detection time. 0.5s 0 P11.15 Speed deviation detection time Set the speed deviation detection time. 0.5s 0 P11.16 Speed deviation detection time 0: Invalid 1 0 P11.16 Automatic frequency voltage drop 0: Invalid 1: Valid; when the grid voltage drops to the rated voltage, the inverter will decrease the frequency voltage drop 1 0 P12.00 Motor type 2 0:Asynchronous motor 0 I		pre-alarm	P11.11, and its lasting time is beyond P11.12, the		
P11.12 pre-alarm detection time Setting range of P11.12: 0.1~3600.0s 1.0s O P11.12 detection time Setence of fault output terminals during undervoltage and automatic reset. 0x00~0x11 0x00~0x10 O Output terminal LED ones: 0: Action during undervoltage 0x00 O O P11.13 action during 0: Action during undervoltage 0x00 O LED tens: 0: Action during the automatic reset 1: No action during the automatic reset 10.0% O P11.14 Speed deviation detection 0.0~50.0% Set the speed deviation detection. 10.0% O P11.15 Speed deviation detection value 0.0~50.0% Set the speed deviation detection. 0.0% O P11.16 Speed deviation detection value 0.0~50.0% Set the speed deviation detection. 0.0% O P11.15 Speed deviation detection value 0.0~50.0% Set the speed deviation detection time. 0.5s O P11.16 Speed deviation detection value 1 0.5s O O P11.15 Setting range of P11.15: 0.0~10.0s 0 I I P11.16		detection level	inverter will output underload pre-alarm.		
Print production Print		Underload	Setting range of P11.11: 0~P11.09		
P11.13 Select the action of fault output terminals during undervoltage and automatic reset. 0x00-0x11 0x00-0x11 Output terminal LED ones: action during fault 0: Action during undervoltage 1: No action during undervoltage LED tens: 0: Action during the automatic reset 1: No action during the automatic reset 0x00 0 P11.14 Speed deviation detection 0.0~50.0% Set the speed deviation detection. 10.0% 0 P11.15 Speed deviation detection time 0.0~50.0% Set the speed deviation detection. 10.0% 0 P11.15 Speed deviation detection time 0.0~50.0% Set the speed deviation detection time. 0.5% 0 P11.15 Speed deviation detection time Set the speed deviation detection time. 0.5% 0 P11.16 Speed deviation detection time Set detection value Time t ZMCCCMMGR Fault output dEu t1 12, so the inverter continues running t2+P11.13 0.5% 0 P11.16 Automatic frequency 0: Invalid t1 12, so the inverter continues running t2+P11.13 1 0 P11.16 Grege drop automatically to ensure the rated output torque. 1 0 P11.18 Automatic requency voltage drop 0: Asynchronous motor 0	P11.12	pre-alarm	Setting range of P11.12: 0.1~3600.0s	1.0s	0
P11.13 output terminal action during fault 0. Action during undervoltage 1: No action during undervoltage 1: No action during undervoltage LED tens: 0: Action during the automatic reset 1: No action during the automatic reset 1: No action during the automatic reset 0x00 0 P11.14 Speed deviation detection 0.0~50.0% Set the speed deviation detection. 10.0% 0 P11.15 Speed deviation detection 0.0~50.0% Set the speed deviation detection time. 0.5s 0 P11.16 Speed deviation detection time Actual detection value (1 + 1), 12 Time t (2 + 1), 13 0.5s 0 P11.16 Speed deviation detection time Actual detection value (1 + 1), 12 Time t (2 + 1), 13 0.5s 0 P11.16 Setting range of P11.15: 0.0~10.0s 0: Invalid frequency 0: Invalid it valid; when the grid voltage drops to the rated decreasing at voltage drop 1 0 P11.16 Motor type 2 0:Asynchronous motor 0 0		detection time			
P11.13 0x00~0x11 0x00~0x11 P11.13 action during 0: Action during undervoltage 0x00 0 fault 1: No action during undervoltage 0x00 0 0 fault 1: No action during the automatic reset 0x00 0 0 P11.14 Speed 0.0~50.0% 0.0~50.0% 10.0% 0 P11.14 deviation 0.0~50.0% Set the speed deviation detection. 10.0% 0 P11.15 Speed 0.0~50.0% Set the speed deviation detection time. \$set detection value <			Select the action of fault output terminals during		
Output terminal LED ones: action during 0: Action during undervoltage 1: No action during undervoltage LED tens: 0: Action during the automatic reset 0x00 0 P11.13 Speed deviation detection 0.0~50.0% Set the speed deviation detection. 10.0% 0 P11.14 Speed deviation detection 0.0~50.0% Set the speed deviation detection. 10.0% 0 P11.14 Speed deviation detection Set the speed deviation detection. 0.0~50.0% Set the speed deviation detection. 0.0% P11.15 Speed deviation detection Set the speed deviation detection time. Set the speed deviation detection time. 0.5% 0 P11.15 Speed deviation detection time Set the speed ferice of the speed deviation detection time. 0.5% 0 P11.15 Speed deviation detection time Set the speed ferice of the speed speed ferice of t			undervoltage and automatic reset.		
P11.13 action during fault 0: Action during undervoltage 0x00 0 fault 1: No action during undervoltage LED tens: 0: Action during the automatic reset 0 0 P11.14 Speed deviation detection 0.0~50.0% Set the speed deviation detection. 10.0% 0 P11.15 Speed deviation detection 0.0~50.0% Set the speed deviation detection time. 10.0% 0 P11.15 Speed deviation detection time Set the speed deviation detection time. 0.5s 0 P11.15 Speed deviation detection time Set the speed for the inverter continues running t2=P11.13 0.5s 0 P11.16 Automatic frequency voltage drop 0: Invalid 0: Invalid 1 0 P11.16 Motor type 2 0:Asynchronous motor 0 0 0			0x00~0x11		
Finite boots rating Intervention generating and integration of the second s		Output terminal	LED ones:		
LED tens: 0: Action during the automatic reset 1 P11.14 Speed deviation detection 0.0-50.0% Set the speed deviation detection. 10.0% 0 P11.14 Speed deviation detection 0.0-50.0% Set the speed deviation detection. 10.0% 0 P11.15 Speed deviation detection time Set the speed deviation detection time. 0.5s 0 P11.15 Speed deviation detection time Actual detection value Set detection value (1 + 12, so the inverter continues running t2 = P11.13 0.5s 0 P11.16 Automatic frequency voltage drop 0: Invalid 1: Valid; when the grid voltage drops to the rated voltage, the inverter will decrease the frequency voltage drop 1 0 P12.00 Motor type 2 0:Asynchronous motor 0 ©	P11.13	action during	0: Action during undervoltage	0x00	0
P11.14 Speed deviation detection 0. Action during the automatic reset 10.0% 0 P11.14 Speed deviation detection 0.0~50.0% Set the speed deviation detection. 10.0% 0 P11.15 Speed deviation detection Set the speed deviation detection time. 10.0% 0 P11.15 Speed deviation detection time Set the speed deviation detection time. 0.5s 0 P11.15 Speed deviation detection time Set the speed deviation detection value set detection value 0.5s 0 P11.15 Speed deviation detection time Set the speed fertilities of the inverter continues running t2=P11.13 0.5s 0 P11.16 Automatic frequency voltage drop 0: Invalid 1: Valid; when the grid voltage drops to the rated voltage, the inverter will decrease the frequency voltage drop 1 0 P12.00 Motor type 2 0:Asynchronous motor 0 ©		fault	1: No action during undervoltage		
Image: No action during the automatic reset Image: No action during the automatic reset Image: No action during the automatic reset P11.14 Speed deviation detection 0.0~50.0% Set the speed deviation detection. Image: No action during the automatic reset Image: No action during the automatic reset P11.14 Speed deviation detection Set the speed deviation detection time. Image: No action value for the speed deviation detection time. Image: No action value for the speed deviation detection value for the speed deviation value			LED tens:		
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P11.14 deviation detection 0.0~50.0% 10.0% 0 Set the speed deviation detection. Set the speed deviation detection time. 10.0% 0 P11.15 Speed deviation detection value Set the speed deviation detection time. 10.0% 0 P11.15 Speed deviation detection value Actual detection value Speed for the speed deviation detection time. 0.5s 0 P11.15 Speed deviation detection value Set detection value Image: the speed deviation detection time. 0.5s 0 P11.15 Setting range of P11.15: 0.0~10.0s 0 Setting range of P11.15: 0.0~10.0s 1 0 P11.16 frequency decreasing at voltage, the inverter will decrease the frequency voltage drop automatically to ensure the rated output torque. 1 0 P12.00 Motor type 2 0:Asynchronous motor 0 Image: the speed output torque output torque output torque.			1: No action during the automatic reset		
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detection Set the speed deviation detection time. P11.15 Speed deviation Actual detection value Set detection value Set detection value Set detection value Set detection value Set detection value Time t Set detection value Set detection value Set detection value Time t Set detection value Set detection value Set detection value Time t Setting range of P11.15: 0.0~10.0s I P11.16 frequency I: Valid; when the grid voltage drops to the rated decreasing at voltage, the inverter will decrease the frequency 1 voltage drop automatically to ensure the rated output torque. 1 P12.00 Motor	P11.14	deviation	0.0~50.0%	10.0%	0
P11.15 Speed deviation detection time Actual detection value Set detection value Set detection value Set detection value (1,1,1,2,2,3,1,1,1,1,1,1,1,1,1,1,1,1,1,1,		detection	Set the speed deviation detection.		
P11.15 Speed deviation detection time Actual detection value Set detection value File 0.5s 0.5s 0 P11.15 detection time Set detection value File Fault output dEu t1<12, so the inverter continues running t2=P11.13 0.5s 0 P11.16 Automatic frequency decreasing at voltage drop 0: Invalid 1: Valid; when the grid voltage drops to the rated decrease the frequency voltage drop 1 0 P12.00 Motor type 2 0:Asynchronous motor 0 0			Set the speed deviation detection time.		
P11.15 Speed deviation detection time Set detection value Image: Constraint of the set of			Speed		
P11.16 Automatic 0: Invalid frequency 1: Valid; when the grid voltage drops to the rated 1 decreasing at voltage, the inverter will decrease the frequency 1 voltage drop automatically to ensure the rated output torque. 1 P12 Group Motor 2 0:Asynchronous motor 0 ©	P11.15	deviation	Set detection value		0
P11.16 Automatic 0: Invalid frequency 1: Valid; when the grid voltage drops to the rated 1 decreasing at voltage, the inverter will decrease the frequency 1 voltage drop automatically to ensure the rated output torque. 1 P12 Group Motor 2 0:Asynchronous motor 0 ©			Setting range of P11.15: 0.0~10.0s		
P11.16 decreasing at voltage, the inverter will decrease the frequency voltage drop automatically to ensure the rated output torque. 1 0 P12 Group Motor 2 0:Asynchronous motor 0 0		Automatic			
decreasing at voltage, the inverter will decrease the frequency voltage drop automatically to ensure the rated output torque. 1 P12 Group Motor 2 0:Asynchronous motor 0 P12.00 Motor type 2 0:Asynchronous motor 0		frequency	1: Valid; when the grid voltage drops to the rated		
P12 Group Motor 2 P12.00 Motor type 2 0:Asynchronous motor 0 ©	P11.16	decreasing at	voltage, the inverter will decrease the frequency	1	0
P12.00 Motor type 2 0:Asynchronous motor 0 ©		voltage drop	automatically to ensure the rated output torque.		
P12.00 Motor type 2 0 ○	P12 Grou	p Motor 2			
P12.00 Motor type 2 0 ○			0:Asynchronous motor		
	P12.00	Motor type 2		0	Ø

Function code	Name	Detailed instructio	n of parameters	Default value	Modify
		Note: Switch the current	motor by the switching		
		channel of P08.31.			
P12.01	Rated power of AM2	0.1~3000.0kW	Set the parameters of the controlled asynchronous	Depend on model	O
P12.02	Rated frequency of AM2	0.01Hz~P00.03 (Max. output frequency)	motor. To guarantee the control performance, be sure to	50.00Hz	O
P12.03	Rated speed of AM2	1~36000rpm	set P12.01~P12.05 correctly according to the	Depend on model	O
P12.04	Rated voltage of AM2	0~1200V	name plate of the motor. The accuracy of	Depend on model	O
P12.05	Rated current of AM2	0.8~6000.0A	parameter autotuning for Goodrive300-01 inverters depends on correct setting of motor parameters on the name plate. To guarantee the control performance, configure the motor as the standard motor. If the motor power has a great gap between the standard, the control performance of the inverter will decrease obviously. Note: Resetting the motor rated power (P12.01) will initialize P12.02~P12.05.	Depend on model	٥
P12.06	Stator resistor of AM2	0.001~65.535Ω	After motor parameter autotuning, the settings of	Depend on model	0
P12.07	Rotor resistor of AM2	0.001~65.535Ω	P12.06~P12.10 update automatically. As basic	Depend on model	0

Function code	Name	Detailed instructio	n of parameters	Default value	Modify
P12.08	Leakage inductance of AM2	0.1~6553.5mH	parameters for high performance vector control, the parameters	Depend on model	0
P12.09	Mutual inductance of AM2	0.1~6553.5mH	have a direct impact on the control performance. Note: Users should not	Depend on model	0
P12.10	Non-load current of AM2	0.1~6553.5A	change the parameters of the group.	Depend on model	0
P12.11	Magnetic saturation coefficient 1 for the iron core of AM2			80.0%	0
P12.12	Magnetic saturation coefficient 2 for the iron core of AM2			68.0%	0
P12.13	Magnetic saturation coefficient 3 for the iron core of AM2			57.0%	O
P12.14	Magnetic saturation coefficient 4 for the iron core of AM2	0.0~100.0%		40.0%	0
P12.15	Rated power of SM2	0.1~3000.0kW	Set the parameters of the controlled synchronous	Depend on model	O
P12.16	Rated frequency of SM2	0.01Hz~P00.03 (Max. output frequency)	motor. To guarantee the control performance, be sure to	50.00Hz	0

Function code	Name	Detailed instructio	n of parameters	Default value	Modify
P12.17	Number of poles pairs for SM2	1~50	set P12.15~P12.19 correctly according to the name plate of the motor.	2	0
P12.18	Rated voltage of SM2	0~1200V	The accuracy of parameter autotuning for	Depend on model	0
P12.19	Rated current of SM2	0.8~6000.0A	Goodrive300-01 inverters depends on correct setting of motor parameters on the name plate. To guarantee the control performance, configure the motor as the standard motor. If the motor power has a great gap between the standard, the control performance of the inverter will decrease obviously. Note: Resetting the motor rated power (P12.15) will initialize P12.16~P12.19.	Depend on model	Ø
P12.20	Stator resistor of SM2	0.001~65.535Ω	After motor parameter autotuning, the settings of	Depend on model	0
P12.21	Direct axis inductance of SM2	0.01~655.35mH	P12.20~P12.22 update automatically. As basic parameters for high	Depend on model	0
P12.22	Quadrature axis inductance of SM2	0.01~655.35mH	performance vector control, the parameters have a direct impact on	Depend on model	0
P12.23	Back EMF constant of SM2	When P00.15=2, the set value of P12.23 cannot be updated by autotuning, please count according to the following method. The counter-electromotive	the control performance. When P00.15=1 (rotation autotuning), in no need of change, P12.23 will update via autotuning; when P00.15=2 (static	300	0

Function code	Name	Detailed instructio	n of parameters	Default value	Modify
code		force constant can be counted according to the parameters on the name plate of the motor. There are three ways to count: 1. If the name plate designates the EMF constant Ke, then: $E=(Ke^*n_N*2\pi)/60$ 2. If the name plate designates the EMF constant E'(V/1000r/min), then: $E=E^*n_N/1000$ 3. If the name plate does not designate the above	autotuning), P12.23 cannot update via autotuning, so calculate the value and update it by manual.	value	
		parameters, then: E=P/√3*I In the above formulas: n _N is the rated rotation speed, P is the rated power and I is the rated current. The setting range: 0~10000			
P12.24	Initial pole position of SM2	0~FFFFH (reserved)		0x0000	•
P12.25	Identification current of SM2	0%~50% (rated current of the	motor) (reserved)	10%	•
P12.26	Motor 2 overload protection	0:No protection 1: Common motor (with low s 2: Variable frequency motor (v compensation)		2	0
P12.27	Motor 2 overload protection coefficient	Times of motor overload M=lo In is the rated current of the current of the inverter and protection coefficient. So, the smaller the value of K	e motor, lout is the output K is the motor overload	100.0%	0

Function code	Name	Detailed instruction of parameters	Default value	Modify
code	Name	Detailed instruction of parameters M is. When M=116%, the fault will be reported after 1 hour; when M=200%, the fault will be reported after 1 minute; when M>=400%, the fault will be reported instantly. Time t 1m Time t Times of motor overload 116% 200%		Modify
		The setting range: 20.0%~120.0%		
P12.28	Correction coefficient of motor 2 power	Correct the power displaying of motor 2. Only impact the displaying value other than the control performance of the inverter. The setting range: 0.00~3.00	1.00	0
P12.29	Parameter display of motor 2	0: Display according to the motor type; in the mode, only display the related parameters of current motor type for the convenience of operation 1: Display all; in the mode, display all motor parameters	0	0
P13 Grou	up Synchrono	ous motor control		
P13.00	Reduction coefficient of source current	0.0~100.0%	80.0%	0
P13.01	Original pole test mode	0: No test 1: High-frequency superposition (reserved) 2: Pulse superposition	0	O
P13.02	Source current	Source current is the positioning current of the magnetic pole position. Source current 1 is valid under the frequency point of current shifting. Increasing the value can raise the starting torque. Setting range: 0.0%~100.0% (rated current of the motor)		0

Function code	Name	Detailed instruction of parameters	Default value	Modify
P13.03	Source current 2	Source current is directional current of the magnetic pole position. Source current 2 is valid under the frequency point of current shifting. There is no need to modify the value generally. Setting range: 0.0%~100.0% (rated current of the motor)		0
P13.04	Shift frequency of source current	Valid frequency shifting point between source current 1 and current 2. Setting range: 0.00Hz~P00.03 (Max. output frequency)	30.00 Hz	0
P13.05	Superposition frequency (reserved)	200~1000Hz	500Hz	O
P13.06	Pulse superposition voltage	0.0~300.0% (rated voltage of the motor)	40.0%	O
P13.07	Reserved	0~65535	0	0
P13.08	Control parameter 1	0~65535	0	0
P13.09	Control parameter 2	0~655.35	2.00	0
P13.10	Reserved	0~65535	0	0
P13.11	Maladjustment detection time	Adjust the response of anti-maladjustment. Bigger load inertia may increase the value, but the response will be slower. Setting range: 0.0~10.0s		0
P13.12	High frequency compensation coefficient	When the motor speed is faster than the rated speed, the parameter is valid, if vibration occurs to the motor, please adjust the parameter. Setting range: 0~100.0%	60.0%	0
P13.13		When P01.00=0 during the starting of the inverter, set P13.14 to a non-zero value to enter the short circuit	0.0%	0
P13.14	retention time	braking. When the running frequency is lower than P01.09 during the stopping of the inverter, set 13.15 to a non-zero value to enter into stopping short circuited braking and	0.00s	0

Function code	Name	Detailed instruction of parameters	Default value	Modify
P13.15		then carry out the DC braking at the time set by P01.12 (refer to the instruction of P01.09~P01.12) . Setting range of P13.13: 0.0~150.0% (inverter) Setting range of P13.14: 0.00~50.00s Setting range of P13.15: 0.00~50.00s	0.00s	0
P14 Grou	up Serial com	munication		
P14.00	Local communication address	The setting range: 1~247 When the master is writing the frame, the communication address of the slave is set to 0; the address is the communication address. All slaves on the MODBUS bus can receive the frame, but the salve does not respond. The communication of the drive is unique in the communication net. This is the fundamental for the point to point communication between the upper computer and the inverter. Note: The address of the slave cannot set to 0.	2	0
P14.01	Communication baud ratio	Set the digital transmission speed between the upper computer and the inverter. 0: 1200BPS 1: 2400BPS 2: 4800BPS 3: 9600BPS 4: 19200BPS 5: 38400BPS 6: 57600BPS 6: 57600BPS 7: 115200BPS Note: The baud rate between the upper computer and the inverter must be the same. Otherwise, the communication is not applied. The bigger the baud rate, the quicker the communication speed.	4	0
P14.02	Digital bit checkout	The data format between the upper computer and the inverter must be the same. Otherwise, the communication is not applied.		0

Function code	Name	Detailed instruction of parameters	Default value	Modify
		0: No check (N, 8, 1) for RTU		
		1: Even check (E, 8, 1) for RTU		
		2: Odd check (O, 8, 1) for RTU		
		3: No check (N, 8, 2) for RTU		
		4: Even check (E, 8, 2) for RTU		
		5: Odd check(O, 8, 2) for RTU		
		0~200ms		
		The interval time when the inverter receives the data and		
		sends it to the upper computer. If the answer delay is		
		shorter than the system processing time, then the		
P14.03	Answer delav	answer delay time is the system processing time; if the		0
	,	answer delay is longer than the system processing time,		
		then after the system deals with the data, the inverter will		
		not send the data to the upper computer until reaching		
		the answer delay time.		
		0.0 (invalid), 0.1~60.0s		
		When the function code is set as 0.0, the communication		
		overtime parameter is invalid.		
		When the function code is set as non-zero, if the interval		
	Fault time of	time between two communications exceeds the		
P14.04	communication	communication overtime, the system will report "485	0.0s	0
	overtime	communication fault" (CE).		
		Generally, set it as invalid; set the parameter in the		
		continuous communication to monitor the		
		communication state.		
		0: Alarm and coast to stop		
		1: No alarm and continue to run		
	Transmission	2: No alarm and stop according to the stop mode (only		~
P14.05	fault	under the communication control)	0	0
	processing	3: No alarm and stop according to the stop mode (under		
		all control modes)		
	o	0x00~0x11		
P14.06	Communication	LED ones:	0x00	0
	processing	0: Write with response: the inverter will respond to all		

P17.00Ramp reference frequencyDisplay current output voltage of the inverter Range: 0.00Hz-P00.030.00Hz 0.00Hz0.00Hz 0.00HzP17.01Output voltage reference frequencyDisplay current output voltage of the inverter Range: 0.00Hz-P00.030.00Hz0.00HzP17.02Ramp reference frequencyDisplay current output reference frequency of the inverter Range: 0.00Hz-P00.030.00Hz0.00HzP17.01Output reference frequencyDisplay current output frequency of the inverter Range: 0.00Hz-P00.030.00Hz0.00HzP17.02Ramp reference frequencyDisplay current output current output current of the inverter Range: 03000.0A0.00Hz0.00HzP17.03Motor speed Plisplay current output current of the inverter Range: 03000.0A0.00A0.00HzP17.03Forque current Plisplay current torque current of the inverter Range: 03000.0A0.00A0.00AP17.05Motor speed Plisplay current exciting current of the inverter Range: 03000.0A0.00A0.00AP17.05Exciting current Plisplay current exciting current of the inverter Range: 03000.0A0.00A0.00AP17.07Exciting current Plisplay current power of the motor. The positive value is in pervander to the inverter generating state. Setting range: -300.0%-300.0% (motor rated power)0.0%PP17.09Output torque <b< th=""><th>Function code</th><th>Name</th><th>Detailed instruction of parameters</th><th>Default value</th><th>Modify</th></b<>	Function code	Name	Detailed instruction of parameters	Default value	Modify
Image: Province of the section of t			read and write commands of the upper computer.		
Image: Communication efficiency can be increased by this method. LED tens: 0: Communication encrypting invalid 			1: Write without response: the inverter only responds to		
method. LED tens: 0: Communication encrypting invalid 1: Communication encrypting validImage: Communication encrypting validP17.00Set frequency requencyDisplay current set frequency of the inverter Range: 0.00Hz~P00.030.00Hz0P17.01Output frequency reference frequencyDisplay current output frequency of the inverter Range: 0.00Hz~P00.030.00Hz0P17.02Ramp reference frequencyDisplay current output frequency of the inverter Range: 0.00Hz~P00.030.00Hz0P17.02Ramp reference frequencyDisplay current output voltage of the inverter Range: 0.00Hz~P00.030.00Hz0P17.03Output voltage Range: 0.00Hz~P00.03Display current output voltage of the inverter Range: 0.00Hz~P00.030.00Hz0P17.03Output voltage Range: 0.00Hz~P00.03Display current output current of the inverter Range: 0.000.0A0.0A0P17.04Output current Range: 0.0~3000.0ADisplay current output current of the inverter Range: 0.0~3000.0A0.0A0P17.05Motor speed Range: 0.0~3000.0ADisplay current exciting current of the inverter Range: 0.0~3000.0A0.0A0P17.07Exciting current Range: 0.0~3000.0ADisplay current exciting current of the inverter Range: 0.0~3000.0A0.0A0P17.07Exciting current Range: 0.0~3000.0ADisplay current exciting current of the inverter Range: 0.0~3000.0A0.0A0P17.07Exciting current Range: 0.0~3000.0ADisplay current power of the motor. 100.0% corresponds to the rated p			the read command other than the write command. The		
LED tens: 0: Communication encrypting invalid 1: Communication encrypting validImage: Communication encrypting validImage: Communication encrypting validP17 Group P17.00Monitoring function Set frequencyDisplay current set frequency of the inverter Range: 0.00Hz~P00.030.00Hz0.00HzP17.01Output frequencyDisplay current output frequency of the inverter Range: 0.00Hz~P00.030.00Hz0.00HzP17.02Ramp freference frequencyDisplay current output frequency of the inverter Range: 0.00Hz~P00.030.00Hz0.00HzP17.02Ramp freference frequencyDisplay current output voltage of the inverter Range: 0.00Hz~P00.030.00Hz0.00HzP17.03Output voltage frequencyDisplay current output voltage of the inverter Range: 0.00Hz~P00.030.00Hz0.00HzP17.03Dutput voltage frequencyDisplay current output current of the inverter Range: 0.00Hz~P00.030.00Hz0.00HzP17.04Output current frequencyDisplay current output current of the inverter Range: 0.0-3000.0A0.0A0.0AP17.05Motor speed Range: 0.0-3000.0ADisplay current torque current of the inverter Range: 0.0-3000.0A0.0A0.0AP17.07Exciting current Range: 0.0-3000.0ADisplay current power of the motor. 100.0% corresponds to the rated power of the motor. 100.0% corresponds to the rated power of the motor. 100.0% corresponds to the rated power of the motor. The positive value is in power generating state. Setting range: -300.0%-300.0% (motor rated power)0.0%0.0%P17.09Output			communication efficiency can be increased by this		
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Range:Range:0.00Hz~P00.03Range: <t< td=""><td>D17 02</td><td>•</td><td>Display current ramp reference frequency of the inverter</td><td>0.004-</td><td>•</td></t<>	D17 02	•	Display current ramp reference frequency of the inverter	0.004-	•
P17.03Output voltageDisplay current output voltage of the inverter Range: 0~1200VOV•P17.04Output currentDisplay current output current of the inverter Range: 0.0~3000.0A0.0A•P17.05Motor speedDisplay the rotation speed of the motor Range: 0~65535RPM0RPM•P17.06Torque currentDisplay current torque current of the inverter Range: 0.0~3000.0A0.0A•P17.06Torque currentDisplay current torque current of the inverter Range: 0.0~3000.0A0.0A•P17.07Exciting currentDisplay current exciting current of the inverter Range: 0.0~3000.0A0.0A•P17.08Motor powerDisplay current exciting current of the inverter Range: 0.0~3000.0A0.0A•P17.08Exciting currentDisplay current power of the motor. 100.0% corresponds to the rated power of the motor. The positive value is in electromotion state while the negative value is in power generating state. Setting range: -300.0%~300.0% (motor rated power)•P17.09Output torqueDisplay the current output torque of the inverter. 100.0% 0.0%•	F17.02		Range: 0.00Hz~P00.03	0.00HZ	•
P17.03Output voltage Range: 0~1200VOVOVP17.04Output currentDisplay current output current of the inverter Range: 0.0~3000.0A0.0A0.0AP17.05Motor speedDisplay the rotation speed of the motor Range: 0~65535RPM0RPM0RPMP17.06Torque current Range: 0.0~3000.0A0.0A0.0AP17.07Exciting current Range: 0.0~3000.0A0.0A0.0AP17.07Exciting current Range: 0.0~3000.0A0.0A0.0AP17.08Display current torque current of the inverter Range: 0.0~3000.0A0.0A0.0AP17.08Display current exciting current of the inverter Range: 0.0~3000.0A0.0A0.0AP17.08Exciting current Range: 0.0~3000.0A0.0A0.0AP17.08Motor power generating state. Setting range: -300.0%~300.0% (motor rated power)0.0%0.0%P17.09Output torqueDisplay the current output torque of the inverter. 100.0% 0.0%0.0%		irequency	Diaplay surrent sutput valtage of the inverter		
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P17.04Output current Range: 0.0~3000.0A0.0A0.0AP17.05Motor speedDisplay the rotation speed of the motor Range: 0~65535RPM0RPM0RPMP17.06Torque current P17.07Display current torque current of the inverter Range: 0.0~3000.0A0.0A•P17.07Exciting current Range: 0.0~3000.0ADisplay current exciting current of the inverter Range: 0.0~3000.0A0.0A•P17.07Exciting current Range: 0.0~3000.0ADisplay current exciting current of the inverter Range: 0.0~3000.0A0.0A•P17.08Motor power Motor powerDisplay current power of the motor. 100.0% corresponds to the rated power of the motor. The positive value is in generating state. Setting range: -300.0%~300.0% (motor rated power)0.0%•P17.09Output torqueDisplay the current output torque of the inverter. 100.0% 0.0%0.0%•					
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P17.07 Exciting current Exciting current Display current exciting current of the inverter Range: 0.0~3000.0A 0.0A • P17.07 Exciting current Exciting current Display current exciting current of the inverter Range: 0.0~3000.0A 0.0A • P17.08 Motor power Display current power of the motor. 100.0% corresponds to the rated power of the motor. The positive value is in electromotion state while the negative value is in power 0.0% • P17.08 Motor power Setting range: -300.0%~300.0% (motor rated power) 0.0% • P17.09 Output torque Display the current output torque of the inverter. 100.0% 0.0% •	P17.06	Torque current	Display current torque current of the inverter	0.0A	•
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P17.09 Output torque Display the current output torque of the inverter. 100.0% 0.0% •	P17 07	Exciting current	Display current exciting current of the inverter	0.04	•
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P17.08 Motor power electromotion state while the negative value is in power 0.0% • generating state. Setting range: -300.0%~300.0% (motor rated power) • • P17.09 Output torque Display the current output torque of the inverter. 100.0% 0.0% •			Display current power of the motor. 100.0% corresponds		
P17.09 Output torque Display the current output torque of the inverter. 100.0% 0.0%			to the rated power of the motor. The positive value is in		
P17.09 Output torque Display the current output torque of the inverter. 100.0% 0.0%	P17.08	Motor power	electromotion state while the negative value is in power	0.0%	•
P17.09 Output torque Display the current output torque of the inverter. 100.0% 0.0%			generating state.		
P17.09 Output torque 0.0% •			Setting range: -300.0%~300.0% (motor rated power)		
P17.09 Output torque 0.0% •			Display the current output torque of the inverter. 100.0%		
	P17.09	Output torque	corresponds to the rated torque of the motor. During	0.0%	•

Function code	Name	Detailed instruction of parameters	Default value	Modify
		FWD rotation, the positive value is in electromotion state while the negative value is in power generating state. During REV rotation, the states are on the contrary. Range: -250.0~250.0%		
P17.10	Evaluated motor frequency	Evaluate the motor rotor frequency on open loop vector Range: 0.00~ P00.03	0.00Hz	•
P17.11	DC bus voltage	Display current DC bus voltage of the inverter Range: 0.0~2000.0V	0V	•
P17.12	Digital input terminals state	Display current switch input terminals state of the inverter Range: 0000~00FF	0	•
P17.13	Digital output terminals state	Display current switch output terminals state of the inverter Range:0000~000F	0	•
P17.14	Digital adjustment	Display the adjustment through the keypad of the inverter. Range: 0.00Hz~P00.03	0.00V	•
P17.15	Torque reference	Display the torque reference, the percentage to the current rated torque of the motor. Setting range: -300.0%~300.0% (motor rated current)	0.0%	•
P17.16	Linear speed	Display the current linear speed of the inverter Range: 0~65535	0	•
P17.17	Length	Display the current length of the inverter Range: 0~65535	0	•
P17.18	Counting value	Display the current counting value of the inverter Range: 0~65535	0	•
P17.19	AI1 input voltage	Display analog AI1 input signal Range: 0.00~10.00V	0.00V	•
P17.20	AI2 input voltage	Display analog Al2 input signal Range: 0.00~10.00V	0.00V	•
P17.21	AI3 input voltage	Display analog Al3 input signal Range: -10.00~10.00V	0.00V	•

Function code	Name	Detailed instruction of parameters	Default value	Modify
P17.22	HDI input frequency	Display HDI input frequency Range: 0.00~50.00kHz	0.00kHz	•
P17.23	PID reference	Display PID reference value Range: -100.0~100.0%	0.0%	•
P17.24	PID feedback	Display PID feedback value Range: -100.0~100.0%	0.0%	•
P17.25	Power factor of the motor	Display the current power factor of the motor Range: -1.00~1.00	0.0	•
P17.26	Current running time	Display the current running time of the inverter Range: 0~65535min	0m	•
P17.27	Simple PLC and current step of multi-step speed	Display simple PLC and current step of multi-step speed Range: 0~15	0	•
P17.28	ASR controller output	The percentage of the rated torque of the relative motor, display ASR controller output Range: -300.0%~300.0% (motor rated current)	0.0%	•
P17.29	•	Display magnetic pole angle of synchronous motor Range: 0.0~360.0	0.0	•
P17.30	Phase compensation of SM	Display phase compensation of synchronous motor Range: -180.0~180.0	0.0	•
P17.31	• •	Display high-frequency superposition current of synchronous motor Range: 0.0%~200.0% (motor rated current)	0.0	•
P17.32	Magnetic flux linkage	Display the magnetic flux linkage of the motor Range: 0.0~200.0%		•
P17.33	Exciting current reference	Display the exciting current reference in the vector control mode Range: -3000.0~3000.0A	0.0A	•
P17.34	Torque current reference	Display the torque current reference in the vector control mode	0.0A	•

Function code	Name	Detailed instruction of parameters		Modify
		Range: -3000.0~3000.0A		
P17.35	AC current	Display the value of inlet current at AC side Range: 0.0~5000.0A	0.0A	•
P17.36	Output torque	Display the output torque. During FWD rotation, the positive value is in electromotion state while the negative value is in power generating state. During REV rotation, the states are on the contrary. Range : -3000.0Nm~3000.0Nm		•
P17.37	Counting value of motor overload	0~100 (100 reports OL1 fault)	0	•
P17.38	PID output	-100.00~100.00%	0.00%	•
P17.39	Wrong download of parameters	0.00~99.99	0.00	•

2.2 Special function parameters

Function code	Name	Detailed instruction of parameters	Default value	Modify
P05 Grou	ıp Input termi	inals		
	S1 terminals			
P05.01	function		0	O
	selection			
	S2 terminals			
P05.02	function		0	O
	selection			
	S3 terminals			
P05.03	function		0	O
	selection			
	S4 terminals			
P05.04	function	42: Air filter blockage signal	0	Ø
	selection	43: Oil filter blockage signal		
	S5 terminals	44: Separator blockage signal		
P05.05	function	45: Precision separator signal	0	Ø
	selection	46: External fault 1		
	S6 terminals	47: External fault 2		
P05.06	function	48~63: Reserved	0	O
	selection			
	S7 terminals			
P05.07	function		0	O
	selection			
	S8 terminals			
P05.08	function		0	O
	selection			
	HDI terminal			
P05.09	function		0	O
	selection			
P06 Grou	p Output terr	ninals		
P06.01	Relay RO3	27: Start-up and stop control of auxiliary motor (special	0	0
1 00.01	output	for air compressor)	0	Ŭ

Function code	Name	Detailed instruction of parameters	Default value	Modify
P06.02	Relay RO4 output	28: Output control of magnetic valve (special for air compressor)	0	0
P06.03	Relay RO1 output	29~30: Reserved	27	0
P06.04	Relay RO2 output		28	0
P09 Grou	p PID contro	1		
P09.00	PID reference source	10: Special pressure setting for air compressor	0	0
P09.02	PID feedback source	8: Special pressure feedback for air compressor	0	0
P18 Grou	up Special fur	nction group for air compressor		
P18.00	Control mode	0: Invalid 1: Control mode for air compressor	0	O
P18.01	Hibernation function	0: Invalid 1: Valid	1	O
P18.02	Load and unload mode	0: Automatic 1: Manual In manual mode, the air compressor is loaded and unloaded by manual after start-up; in automatic mode, the air compressor loads and unloads automatically according to pressure after start-up.	0	0
P18.03	Channel of temperature sensor	0: PT100 connected to AI2 via temperature transmitter 1: PT100 connected directly	1	0
P18.04	Upper limit of pressure sensor	0.00~20.00	1.60Mpa	0
P18.05	Unloading pressure	0.00~ P18.04 Under automatic mode, after the air compressor starts, unload automatically when the air supply pressure is higher than the set value.	0.80Mpa	0
P18.06	Loading	0.00~ P18.04	0.60Mpa	0

Function code	Name	Detailed instruction of parameters	Default value	Modify
	pressure	Under automatic mode, after the air compressor starts,		
		load automatically when the air supply pressure is lower		
		than the set value; wake up automatically at hibernation.		
		0.00~ P18.04		
P18.07	Set pressure	Set the air supply pressure for air compressor at stable	0.70Mpa	0
		running.		
		-20~150°C		
P18.08	Fan start	When the exhaust temperature is higher than the set	75°C	0
	temperature	value, start the fan.		
		-20~150°C		
P18.09	Fan stop	When the exhaust temperature is lower than the set	65°C	0
	temperature	value, stop the fan.		
	_	-20~150°C		
P18.10	temperature	Set the exhaust temperature for air compressor at stable	e 75°C	0
		running.		
		P18.12~P00.04 (upper limit of running frequency)		
	Lower limit of	During adjusting, allow to output the minimum running		0
P18.11	loading running	frequency when the pressure is above the set pressure	20.00Hz	0
	frequency	and below the unloading pressure.		
	Non-load	P01.15~P00.04 (upper limit of running frequency)		
P18.12	running	The allowable output running frequency for air	18.00Hz	0
	frequency	compressor at no load.		
		0~3600s		
P18.13	Non-load delay	Enter into hibernation when non-load running exceeds	300s	0
	time	the set time.		
		0~3600s		
P18.14	Stop delay time	At stop, run by non-load frequency and then stop after	0s	0
		the delay time.		
	Loading delay	0~3600s		_
P18.15	time	The master runs for the time before loading operation.	10s	0
	Restart delay	0~3600s		<i>^</i>
P18.16	time	After stop, the set time is needed for restart.	30s	0
P18.17	Pre-alarm	0.00~ P18.04	0.90Mpa	0

Function code	Name	Detailed instruction of parameters	Default value	Modify
	pressure	Pre-alarm when the air supply pressure is detected above the set pressure.		
P18.18	Alarm pressure	0.00~ P18.04 Alarm and stop when the air supply pressure is detected above the set pressure.	1.00Mpa	0
P18.19	Pre-alarm temperature	-20~150°C Pre-alarm when the exhaust temperature is detected above the set temperature.	105°C	0
P18.20	Alarm temperature	-20~150°C Alarm and stop when the exhaust temperature is detected above the set temperature.	110°C	0
P18.21	Low temperature protection threshold	-20~150°C When the exhaust temperature is detected below the set value, display the temperature is too low, prohibit starting the air compressor and alarm.	-10°C	0
P18.22	Power correction coefficient	0%~200%	100%	0
P18.23	Counting period of PID temperature (Ts)	0.0~10.0s	2.0s	0
P18.24	Gain coefficient (Kp)	0.0~100.0	18.0	0
P18.25	Convergence coefficient (K)	0.00~1.00	0.12	0
P18.26	PID temperature upper limit	0.00~100.00%	100.00%	0
P18.27	PID temperature lower limit	0.00~100.00%	0.00%	0
P18.28	Pt100 temperature	-5.0~5.0°C	0.0°C	0

Function code	Name	Detailed instruction of parameters	Default value	Modify
P18.29	compensation compensation coefficient of Pt100 temperature	.0~200.0%		0
P18.30	Upper-limit frequency decreasing pressure	0.00~ P18.04 When the current pressure is larger than the value, the upper-limit frequency will decrease.	0.70Mpa	0
P18.31	Upper-limit frequency decreasing ratio	0.00Hz~10.00Hz When the current pressure is larger than P18.30, increase 0.01Mpa, corresponding upper-limit frequency reduction.	0.00Hz	0
P19 Grou	up State grou	p for air compressor		
P19.00	Set time for maintenance of component 1	0~65535h Pre-alarm when the accumulated service time of component 1 exceeds the set value; pre-alarm is invalid when the set value=0.	0	•
P19.01	Set time for maintenance of component 2	0~65535h Pre-alarm when the accumulated service time of component 2 exceeds the set value; pre-alarm is invalid when the set value=0.	0	•
P19.02	Set time for maintenance of component 3	0~65535h Pre-alarm when the accumulated service time of component 3 exceeds the set value; pre-alarm is invalid when the set value=0.	0	•
P19.03	Set time for maintenance of component 4	0~65535h Pre-alarm when the accumulated service time of component 4 exceeds the set value; pre-alarm is invalid when the set value=0.	0	•
P19.04	Set time for maintenance of component 5	0~65535h Pre-alarm when the accumulated service time of component 5 exceeds the set value; pre-alarm is invalid when the set value=0.	0	•

Function code	Name	Detailed instruction of parameters	Default value	Modify
P19.05	Time for use of component 1	0~65535h	0	•
P19.06	Time for use of component 2	0~65535h	0	•
P19.07	Time for use of component 3	0~65535h	0	•
P19.08	Time for use of component 4	0~65535h	0	•
P19.09	Time for use of component 5	0~65535h	0	•
P19.10	Motor actual output power	0.0~6553.6kW	0.0kW	•
P19.11	Current pressure	0.00~655.36Mpa	0.00Mpa	•
P19.12	Current temperature	-20~150°C	0°C	•
P19.13	Signal state 1	 BIT0: air filter blockage signal, 1: fault, 0: normal BIT1: oil filter blockage signal, 1: fault, 0: normal BIT2: separator blockage signal, 1: fault, 0: normal BIT3: precision separator blockage signal, 1: fault, 0: normal BIT4: external fault signal 1, 1: fault, 0: normal BIT5: external fault signal 2, 1: fault, 0: normal BIT6: magnetic valve signal state, 1: load, 0: unload BIT7: auxiliary motor state, 1: run, 0: stop BIT8: pressure pre-alarm signal, 1: pressure pre-alarm, 0: normal BIT9: temperature pre-alarm signal, 1: temperature pre-alarm, 0: normal BIT10: pressure alarm signal, 1: pressure alarm, 0: normal BIT11: temperature alarm signal, 1: temperature alarm, 0: normal BIT11: temperature signal, 1: temperature alarm, 0: normal BIT12: pressure signal, 1: pressure alarm, 0: normal 	0	•

Function code	Name	Detailed instruction of parameters	Default value	Modify
couc		BIT13: temperature signal, 1: temperature signal fault, 0:	Value	
		normal		
		BIT14: low temperature protection, 1: low temperature		
		alarm, 0: normal		
		BIT15: master state, 1: run, 0: stop		
		BIT0: tip for maintenance of component 1, 1: need		
		maintenance, 0: normal		
		BIT1: tip for maintenance of component 2, 1: need		
		maintenance, 0: normal		
		BIT2: tip for maintenance of component 3, 1: need		
P19.14	Signal state 2	maintenance, 0: normal	0	•
		BIT3: tip for maintenance of component 4, 1: need		
		maintenance, 0: normal		
		BIT4: tip for maintenance of component 5, 1: need		
		maintenance, 0: normal		
		0: Stand-by		
		1: Run		
		2: Fault		
		3: Emergency stop		
P19.15	Device state	4: Undervoltage	0	•
		5: Alarm		
		6: Hibernation		
		7: Stop		
		8: Restart delay		
P19.16	Accumulative	0. 65525h	0	
P 19.10	running time	0~65535h	0	•
	Accumulative			
P19.17	running time for	0~65535h	0	•
	loading			
	Restart			
P19.18	countdown	0~3600s	0s	•
	PID			
P19.19		0.00~100.00%	0.00%	
P 19.19		0.00~100.00%	0.00%	-
	output			

Chapter 3 Commissioning guidelines

3.1 System commissioning

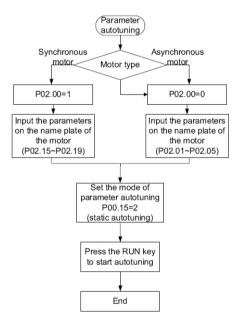
3.1.1 Master inverter commissioning

1. Connect the wires according to the wiring diagram of the system. Before commissioning, disconnect 24V power of the touch screen. Then ensure that the wiring is correct and the ground wires are in good connection (including the grounding of the inverter and the cover).

Note: Pressure, temperature and fan speed control signals are current signals selected by corresponding analog input and output terminals.

2. P00.18=1, restore to the factory default state. Set P00.03 according to the parameter settings of the motor, then input the parameters of the motor and start motor autotuning.

Note: If there is no motor rated current on the name plate of the synchronous motor, set P02.19 to inverter rated current or the default value.



3. Press QUICK/JOG for jogging and check the direction. If the direction is incorrect, change the wiring of the motor.

Set P01.15 to 25.00Hz, and adjust the control parameters of the motor (current loop mainly).
 P03.09 will be different in different motor power.

P03.09 reference	Motor power
2000	18.5kW
2000	22kW
2500	37kW
3000	55kW
3000	75kW
3000	90kW
3500	110kW
3500	132kW
3500	160kW

3.1.2 Fan commissioning

1. Connect the wires according to the wiring diagram of the system and check whether the wiring is correct. Note: The fan speed control signals are 0-20mA current signals, so pay attention to jumper selection for the terminals.

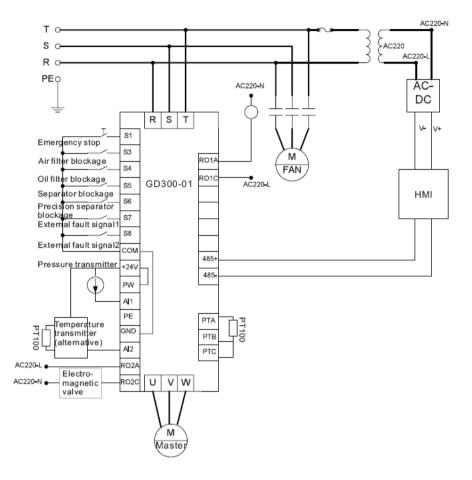
2. P00.18=1, restore to the factory default state, then input the parameters of the motor, press QUICK/JOG for jogging and check the direction. If the direction is incorrect, change the motor wiring.

3.1.3 System commissioning

1. Connect the power of the touch screen and wait for the start-up of the system.

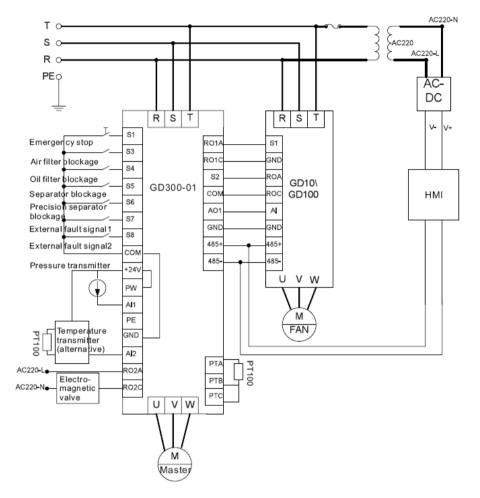
2. Enter into the interface of system configuration, set the parameters, including pressure sensor, temperature sensor and whether the fan variable frequency starts, and press "one-click setting parameters". The system will finish related configuration automatically.

3. Refer to the touch screen manual, adjust the parameters of the user, factory and maintenance for following running.



3.1.3.1 Wiring diagram of single variable frequency system

The channel of temperature sensor PT100 is set by P18.03 and the factory setting is temperature detection terminals (PTA, PTB and PTC). The temperature transmitter can be set as field requirements (P18.03=0), generally, in no need of configuration.



3.1.3.2 Wiring diagram of dual variable frequency system

The channel of temperature sensor PT100 is set by P18.03 and the factory setting is temperature detection terminals (PTA, PTB and PTC). The temperature transmitter can be set as field requirements (P18.03=0), generally, in no need of configuration.



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