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Chapter One: Product inspection and model description

1.1 Product inspection

After the arrival of the product, please check and confirm the following items.

Confirm the project	check contents	
Appearance	Check the appearance of the product to see if there is any damage due to	
	transportation	
Arrival product model	Check the nameplate of the brushless motor and the drive to see if the model is	
	consistent with the order	
Annex completeness	Check the list and the number of attachments	
Motor shaft operating	Manual rotation of the servo motor spindle, can be easily rotated (with	
condition	electromagnetic brake with the exception of the motor)	

note!

- ★ Damaged brushless motor, brushless drive, can not be installed
- ★ The drive must be compatible with the performance of the brushless motor
- ★ In the process of confirmation of the project, if found any questions, please contact with the company's distributors or directly with the company

System characteristics:

Input voltage: AC150V-AC250V 50-60HZ

Operating temperature: -10-50°C

Use and save humidity: < 85% (No frosting condition)

With a number of intelligent protection function, the motor start and stop time can be adjusted, intelligent control, no current vicious impact on the drive and the motor has a very good protection, improve equipment life.

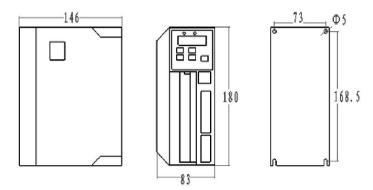
Protection mechanism: ipm overcurrent protection, software overcurrent protection, high voltage protection, motor overload protection, overspeed protection, low voltage protection, high temperature protection, Hall ABC break protection.

Input and output signals: Full optocoupler isolation

1.2 Product model and drive size

Drive description

0-2KW Power section drive size:

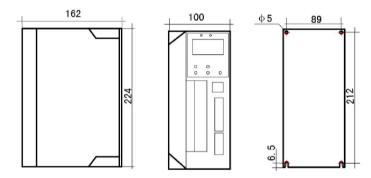


Note: The dimensions are in

millimeters

millimeters

2KW-5.5KW Power section drive size:

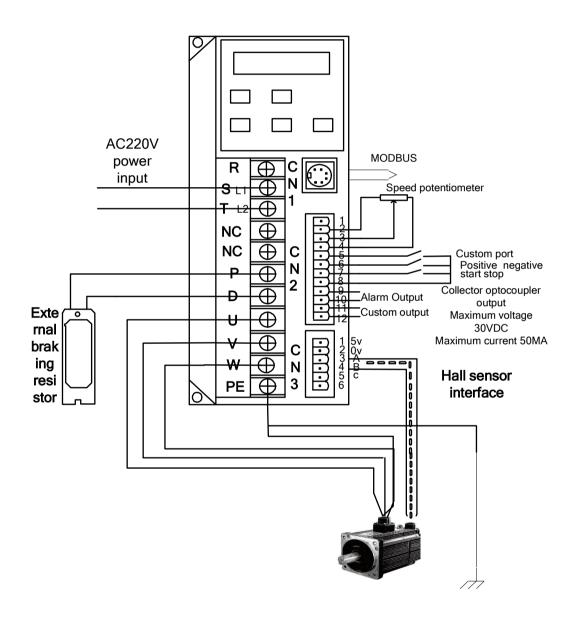


Note: The dimensions are in

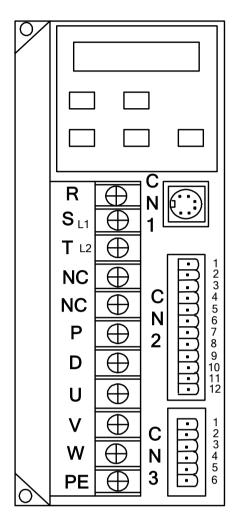
Chapter two: Installation, wiring and functional definition

2.1 Machine wiring diagram and signal definition:

Machine wiring diagram:



2.2 Control signal definition:



CN1MODBUS485				
	CN2Terminal definition			
Number	symbol	Features		
1	-			
2	+5V	Analog+5V power supply		
3	SN	Analog input		
4	GND	Analog GND		
5	103	Custom port		
6	IO2	Positive and reverse		
7	IO1	start stop		
8	GРСОМ	Input signal commo		
9	DO1+	Alarm output +		
10	DO1-	Alarm Output-		
11	DO2+	Custom output+		
12	DO2-	Custom output-		
	CN3 terminal			
Number	symbol	Feature s		
1	+5V	Hall +5V		
2	GND	Hall GND		
3	Α	Α		
4	В	В		
5	С	С		
6	-	-		

	Number	symbol	Features
	1	R	Main circuit power input terminal,
	2	S L1	input 220V, 50Hz. Use single-phase 220V power supply should be
	3	T L2	connected L1, L2.
Power terminal	4	NC	Reserved port is no function
definition	5	NC	Reserved port is no function
description	6	Р	External braking resistor P, D terminal, (internal brake resistor installed) When
	7	D	using external high power discharge
	8	U	
	9	٧	Motor output U, V, W, PE phase, the motor must be connected with the motor
	10 W	U, V, W, PE one by one correspondence.	
	11	PE	

third chapter: Parameters and function list

3.1 Parameter definition:

The parameters are defined as the following three groups, defined as follows:

Group 0: Monitor parameters (E.g Un-XX)
Group 1: Diagnostic alarm parameters (E.g AL-XX)
Group 2: main function parameters (E.g FnXXX)

Control mode description:

Sz Analog speed mode

Sr Internal register speed mode

Tz Analog torque mode

Tr Internal register torque mode

Parameter code after filling the special code description

- (★) Read-only register (can only be viewed can not be set)
- () You must reboot the settings to take effect
- (A) Power does not remember (set after the power will not remember)
- (■) Immediately after confirmation

3.2 Monitor the parameters:

Code	Features	unit	Control mode	Remarks
Un-00	Software version number	-	ALL	*
Un-01	Given speed	0.1r	ALL	-
Un-02	Given torque	%	ALL	-
Un-03	Motor speed	%	ALL	-
Un-04	Current torque	%	ALL	-
Un-05	Motor current	0.01A	ALL	-
Un-11	Bus voltage	V	ALL	-
Un-12	Simulate the current speed of the	0.1r	ALL	-
	speed			
Un-13	Analog Torque Current Torque	%	ALL	-
Un-14	Module temperature	0.1℃	ALL	-
Un-15	Average load rate	%	ALL	-
Un-16	Input status monitoring DI8-DI5	-	ALL	-
Un-17	Input status monitoring DI4-DI1	-	ALL	-
Un-18	OutputstatusmonitoringDO4-DO1	-	ALL	-
Un-19	Keep it	-	ALL	-
Un-21	Pulse command frequency display	1KHz	P	-

3.3 Fault diagnosis alarm parameters:

Code	Features	unit	Control mode	
AL-01	Ipm Overcurrent protection	-	ALL	-
AL-02	Software overcurrent protection	-	ALL	-
AL-03	High voltage protection	-	ALL	-
AL-04	Motor overload protection	-	ALL	-
AL-05	Overspeed protection	-	ALL	-
AL-06	Low voltage protection	-	ALL	-
AL-07	_	-	ALL	-
AL-08	Temperature is too high	-	ALL	-
AL-09	Memory error	-	ALL	-
AL-10	Chip error	-	ALL	-
AL-11	Hall ABC disconnected	-	ALL	
AL-12	_	-	ALL	-
AL-13	Emergency stop alarm	-	ALL	-
AL-14	Discharge alarm	-	ALL	-
AL-15	Motor temperature is too high alarm	App	licable only wi	th temperature
		sensor	motor	

When a fault alarm occurs, check the cause of the fault and clear it. Then press and hold the SET button for 2 seconds or use the terminal function to clear the alarm.

3.3.1 The cause of the malfunction and the removal method:

AL001: ipm overcurrent protection

Cause of the malfunction	Check the fault	Troubleshooting
Drive output short circuit	Check the motor and the	Exclude short-circuit state,
	drive connection status and	and to prevent the metal
	lead short circuit	conductor exposed.
Abnormal electrical wiring	Check the order of the	According to the instructions
	connections of the motor	of the wiring order of
	connected to the drive	re-wiring
IGBT abnormal	Heat sink temperature	Sent to the dealer or factory
	anomalies	inspection
Control parameter settings	The set value is much larger	Restore to factory settings,
abnormal	than the factory setting	and then by the amount set
Control command to set the	Check the control input	Correction of the input
exception	command is whether the	command rate of change in,
	changes are too severe	or open the filter function

AL002: Software over-current protection (Ipm overcurrent protection)

AL003: High-voltage protection

Cause of the malfunction	Check the fault	Troubleshooting
The main circuit input	Voltmeter measuring the	Use the correct voltage
voltage is higher than the	main circuit input voltage is	source in series regulator
rated voltage allowed	allowed at the rated voltage	
	value	
Power input error (the	Voltmeter for measuring	Use the correct voltage
correct power supply	power system is consistent	source in series regulator
system)	with the specifications	
	defined	
Drive hardware failure	This error occurs when	Sent to the dealer or factory
	permitted by the the	inspection
	voltmeter determination of	
	the main circuit input	
	voltage at rated voltage or	
	less still	

AL004: Motor overload protection

Cause of the malfunction	Check the fault	Troubleshooting		
More than the drive rated	Monitoring parameters	Improve the capacity of the		
load continuous use	Un015 can see the drive,	motor or reduce load		
	look at the monitoring			
	parameters, the average			
	load rate is not continuous			

	in more than 100%	
Control system parameter	Mechanical system is	Adjust the control loop gain
settings	placed earthquake	
Improper	Rapid deceleration constant	Acceleration and
	setting	deceleration set the time to
		slow down
Motor, encoder wiring error	Check UVW and encoder	Correct wiring
	wiring	
Poor motor encoder	Returned to the dealer or fact	ory overhaul

AL005: Overspeed protection

Cause of the malfunction	Check the fault	Troubleshooting
Speed input command	Whether the abnormal	Adjust the signal input rate
changes had severe	detection signal detection	of change in, or open the
	meter analog input voltage	filter function
	signal	
Given the speed is too large	Check the speed of a given	Change to the appropriate
	command is too large	speed value

AL006: Low Voltage Protection

Cause of the malfunction	Check the fault	Troubleshooting
The main circuit inpu	Check the main circuit input	To re-confirm the voltage
voltage is lower than rated	voltage wiring is correct	wiring
allowed input voltage value		
The main circuit inpu	Voltmeter to measure the	Reaffirmation of the power
voltage source	main circuit voltage	switch
Power input errors	Voltmeter for measuring	Use the correct voltage
(non-power input)	power system is consistent	source in series regulator
	with the specifications	
	defined	

AL008: Temperature is too high

Cause of the malfunction	Check the fault	Troubleshooting
Ambient temperature is too	Check the drive ambient	Plus fans or cooling devices
high	temperature value	
More than the drive rated	Check whether the load is	Improve the capacity of the
load continuous operation	too big or motor current is	motor or reduce load
	too high	
Discharge frequency is too	Check frequent start and	nstallation of an external
high	stop, load inertia volume	braking resistor or reduce
		the load
Drive output short circuit	Check the drive output	Correct wiring
	wiring	

AL009: Memory errors

Cause of the malfunction		Check the fault	Troubleshooting					
Memory	data	access	Parameter reset	or power	Reset	is	still	abnormal,
exception			reset		please return it to the dealer			the dealer
					or facto	ry o	verha	ul

AL010: Chip error

Cause of the malfunction	Check the fault Troubleshooting		
Chip data access exception	Parameter reset or power	Reset is still abnormal,	
	reset	please return it to the dealer	
		or factory overhaul	

AL011: Encoder ABZ break

Cause of the malfunction		Check the fault	Troubleshooting	
Encoder connection	ABZ	Check encoder connection	Correctly connect t	the
phase disconnect		is normal.	encoder cable	

AL012: Encoder UVW break

Cause of the malfunction		Check the fault		Troubleshooting			
UVW	disconnect	the	Check encoder	connection	Correctly	connect	the
encode	encoder connection		is normal.		encoder ca	ble	

AL013: Emergency stop alarm

Cause of the malfunction	Check the fault	Troubleshooting	
Emergency stop start	Check the emergency stop	Open the emergency stop	
	switch	switch	

3.3.2 List of operating tips and response methods:

Action	prompt	Indicates the content
code		
IOEER		Input terminal function has a repeated definition, the terminal will be set
		repeatedly set to 30 no function and then set to solve
EPEER		Save the wrong time, prohibit the amendment, whether the password
		protected state, when the entry is a password to protect the read and write
Red		Whether to continue to save the password, if you press OK again, the new
		password will be saved
EER		If you enter a password in fn026, this code will be displayed if the password
		is incorrect

4.4 The main functional area parameters:

- (★) Read-only register (Can only view can not be set)
- () Must re-boot settings to take effect
- (**A**) Power and not memory (After power settings are not memory)
- (**■**) Effect immediately after confirmation
- (-) Unit does not do the initial value or set according to demand

Code	Function	Setting	Unit	initial	Cont	S	Rem
		range		value	rolm	е	arks
					ode	t	
Fn000	Control mode and set in the	Two-par	-	0 0	ALL	•	
	forward direction	ameter					
	d						
		Y	Control mode is				
		0 In	ternal registers	speed mode			
		2 Int	ernal registers	torque mode	<u> </u>		
		4 Ex	ternal analog to	orque mode			
		5 E	xternal analog	speed mode			
					_		
		X	Servo motor rotation of	lirection setting			
		U	ok forward counterclo the motor sha forward clockwise ro				
	5	1 1	shaft sid	e	<u> </u>		
Fn001	Driver Enable to select Settings	0~1	-	0	ALL		-
	0: External terminal to enable	1:	nternal para	meters to	enable		
Fn002	Drive internal parameters	0~1	-	0	ALL	A	-
	anable to calcut Cottings						
	enable to select Settings						
	0: Enable 1: energy (this paral	meter after	l the power fa	l ilure mem	l nory, boo	ot to	0. For
			•		l nory, boo	ot to	0. For
Fn003	0: Enable 1: energy (this paral	parameter	•		ALL	ot to	0. For -
Fn003	0: Enable 1: energy (this paral boot automatically enable set	parameter	Fn047 numb	oer)	· I	Ι	0. For -
Fn003	0: Enable 1: energy (this paral boot automatically enable set Motor maximum speed limit	parameter 0~6000	Fn047 numb	oer)	· I	Ι	0. For
	0: Enable 1: energy (this parameter) boot automatically enable set Motor maximum speed limit is set	parameter 0~6000	Fn047 numb	oer) 3000	ALL	•	0. For -
	0: Enable 1: energy (this paral boot automatically enable set Motor maximum speed limit is set Motor maximum torque limit	parameter 0~6000	Fn047 numb	oer) 3000	ALL	•	0. For - -
Fn004	0: Enable 1: energy (this parameter) boot automatically enable set Motor maximum speed limit is set Motor maximum torque limit setting	parameter 0~6000 0~800%	Fn047 numb	3000 3000	ALL ALL	•	-
Fn004 Fn006	0: Enable 1: energy (this parameter) boot automatically enable set Motor maximum speed limit is set Motor maximum torque limit setting Jog speed settings	parameter 0~6000 0~800%	Fn047 numb	3000 3000	ALL ALL	•	-
Fn004 Fn006 Fn007	0: Enable 1: energy (this parameter) boot automatically enable set Motor maximum speed limit is set Motor maximum torque limit setting Jog speed settings Jog mode, enter the settings	parameter $0 \sim 6000$ $0 \sim 800\%$ $0 \sim 30000$ -	Fn047 numb	3000 3000 300 1000	ALL ALL ALL	•	-
Fn004 Fn006 Fn007	0: Enable 1: energy (this parameters to modify the	parameter $0 \sim 6000$ $0 \sim 800\%$ $0 \sim 30000$ $ 0 \sim 1$	Fn047 numb 1r/min % 0.1r/min -	3000 3000 1000 -	ALL ALL ALL ALL	=	- - -
Fn004 Fn006 Fn007	0: Enable 1: energy (this parameters to modify the switch (manual adjustment)	parameter $0 \sim 6000$ $0 \sim 800\%$ $0 \sim 30000$ $ 0 \sim 1$	Fn047 numb 1r/min % 0.1r/min -	3000 3000 1000 -	ALL ALL ALL ALL	=	- - -

	I	1		I			
	switch (PC communication)						
	0: PC communication, the bar			paramete	r		
_	1: allows you to save the mod		eters	ı	T	ı	
Fn010	The display area is selected	0~29	-	15	ALL		-
	by default settings						
	Corresponding monitoring area () ~ 29 parame	eter setting (3	is the cur	rent worl	king	speed)
Fn011	The countdown for the first	-	-	-	ALL	*	-
	time failure alarm code						
Fn012	Penultimate fault alarm code	-	-	-	ALL	*	-
Fn013	The third to last fault alarm	-	-	-	ALL	*	-
	code						
Fn014	Fourth from the bottom of	-	-	-	ALL	*	-
	the fault alarm code						
Fn015	The fifth from the bottom of	-	-	-	ALL	*	-
	the fault alarm code						
Fn017	Restore the factory setting	0~13	-	-	ALL		-
	=3 Restore the factory setting						
	=13 Save the current parame	eters to the	factory sett	ings (Not	e: This	actio	on will
	overwrite the original factory v	/alue)					
Fn018	Bleed resistor output power	0~32000	W	200	ALL		-
	settings						
Fn019	Bleed resistor resistance	20-32000	Ω	150	ALL		-
	settings						
Fn024	The electromagnetic brake	0~32000	10ms	10	ALL		-
	open delay (this time delay						
	can release the brake)						
Fn025	The electromagnetic brake	0~32000	10ms	100	ALL		-
	close delay (to enable the						
	delay this time brake to hold						
	together)						
	Go to enable this time delay of	r speed less	s than 30 re	v / points	brake c	ohes	sion
Fn026	User password is set	0~32000	-	0	ALL		-
	Password are invalid password	rd is set, 0 c	an directly r	nodify the	passwo	ord,	type a
	password to enter this parame	eter in the d	efault accor	ding to the	e confirr	natio	on
	prompt red if you do not want	to modify yo	ou can pres	s mode to	exit, ot	herw	/ise
	once again confirm that the ch		•				
	password to enter the parame	•		•			
	confirmed password to enter t		`	_	•		alid
	error message is displayed. V		•	•			
	correct password to re-enter t		-	-			
	press the red again confirm th	•					
Fn028	Password-protected mode	0~3	-	0	ALL		-
	selection						
	I .	1	I	1	1	1	l

	0: Password-protected prohil	hited to mo	dify the par	ameter na	assword	nro	tected				
	i i	ed to read a		•		•	iccica				
	2: Password protection, prohi		•	•			lowing				
	communications to modify the	` •					lowing				
	1	•	•			ne					
	1	estrictions of	•	•		۱۱ ا					
7 000	(This parameter is only set to		password II	1	1	ora)					
Fn030	Drive communication	$1\sim250$	-	1	ALL		-				
	address selection										
Fn031	Communication mode	0~1	-	1	ALL		-				
	selection										
	0:asic 1:rtu			T		ı	ı				
Fn032	Communication baud rate	-	-	11520	ALL		-				
	selection										
	9600 set for 960 115200 se	et for 11520									
Fn033	Data bits to select 1: 7, 2: 8	1~2	ı	2	ALL		-				
Fn034	Parity bits select the	0~2	-	0	ALL		-				
	0: No 1: Odd number	2: Even									
Fn035	Stop bit mode selection (1:	1~2	-	1	ALL		-				
	A, 2: Two)										
Fn039	Motor current	0~10	A	4	ALL		-				
Fn045	Motor pole pairs	0~99	对	2	ALL		-				
Fn047	Boot automatically enabled	0~1	_	0	ALL		-				
	(internal energy)										
	0: The boot does not automatically enable										
	1: Boot automatically enabled	d									
	When Fn001(Driver Enable		ettings) par	ameter is	set to	1(lr	nternal				
	energy), Fn047 parameter is		• , .			•					
	and immediately enable the n					,					
	Warning: This parameter will	•				аас	certain				
	degree of risk, caution.		,	,							
	Gain switching mode	0~4	_	0	P S		_				
			an								
	0: Not the switch has been used to gain an1: According to the speed switch, the switch when the speed is greater than a										
Fn050	given speed	,		. о оросы .	9.00.11						
111000	2: Switch according to the IO	port									
	3: Switch according to the ref	•	e number of	foulses v	when str	and	ed				
						a. i.a.	.				
	pulses greater than a given number of pulses after switching to gain 2 4. According to the pulse frequency switching frequency greater than the switch										
	to gain less than the switch to	-	51g 64.4.6	oney great			01111011				
Fn051	Gain switching time	0~30000	ms	30	P S		_				
111001	Generally should not be less t			l		of st	en				
	Note: The conditions are met,			•							
	not set up to switch to gain a	9411 4 50011	on to gain ti	o, gairi	0011	J. 110	. 10 al 0				
	Gain from2to1,thedelay time	0~30000	ms	0	P S		I _				
	Can nomzio i, incueiay lime	0 30000	1113	U	1 0		L -				

Fn052	This feature is gain switching	mode in or	der to preve	ent freque	ent switc	ching	back	
	and forth affect performance.		•			_		
	when the switching time to sw							
	parameter is set to switch from	n 2 to 1and	then switch	the switch	ning time	e to	gain a	
Fn053	Switching conditions (speed,							
	motor speed is greater than	0~30000	ms	1000	P S	•	-	
	a given speed, switch to the							
	gain of 2)							
Fn058	Speed proportional gain 1	1~10000	Hz	100	P S		-	
	(this parameter in the							
	non-gain switching mode)							
Fn059	Speed integral gain (in the	1~10000	-	20	P S		-	
	non-gain switching mode							
	this parameter)							
Fn062	Speed proportional gain 2	1~10000	Hz	150	P S			
Fn063	Speed integral gain of 2	1~10000	-	20	P S	•		
Fn064	Speed feedforward gain	0~99	%	0	P S			
Fn065	Speed feed forward low pass	0~1000	0.1ms	0	P S	•		
	filter							
			1					
Fn090	Speed command filter (in	$0 \sim 500$	0.1ms	0	P S	•	-	
	addition to torque)							
Fn093	Speed command given unit	0~1	-	0	S		-	
	0: 0.1r/min 1: 1r/min		T				1	
Fn094	Speed mode acceleration	0~30000	ms	0	S	•		
	time							
Fn095	Speed mode deceleration	0~30000	ms	0	S	•		
	time							
Fn096	Internal speed reference0	0~30000	0.1r/min	0	Sr	•	-	
Fn097	Internal speed reference1	0~30000	0.1r/min	100	S	•	-	
Fn098	Internal speed reference2	0~30000	0.1r/min	200	S	•	-	
Fn099	Internal speed reference3	0~30000	0.1r/min	300	S		-	
Fn100	Internal speed reference4	0~30000	0.1r/min	400	S		-	
Fn101	Internal speed reference5	0~30000	0.1r/min	500	S		-	
Fn102	Internal speed reference6	0~30000	0.1r/min	600	S	•	-	
Fn103	Internal speed reference7	0~30000	0.1r/min	700	S		-	
Fn171	Torque limit choice	0~2	-	0	P S		-	
	0: Only by the maximum torq							
	1: Torque limit port invalid sta			egative to	rque lim	nit (F	n172,	
	Fn173, decide whether restric	-						
	2: External analog torque limi	•			•			
	torque limit port invalid state by the positive and negative torque limit (Fn172,							

	Fn173))						
	Note: The maximum torque	imit in all m	nodes (give	n the mir	nimum li	mit	torque
	onset)		(0				
Fn172	Torque limit (positive	0~800	%	100	P S		
	torque)						
Fn173	Torque limit (counter	0~800	%	100	P S		
	torque)						
Fn185	Internal torque is given 0	0~800	%	0	Tr		-
Fn186	Internal torque is given 1	0~800	%	5	Т		-
Fn187	Internal torque is given 2	0~800	%	10	T		-
Fn188	Internal torque is given 3	0~800	%	15	Т		-
	Torque mode, the speed	0~2	%	0	T		-
	limit set						
Fn189	0: Without limiting the (limited	d only by the	e maximum	speed lim	nit)		
	1: Subject to the the Fn190 a	given limit	(at the same	e time by	the max	imu	m
	speed limit) in the state of the	torque limit	ing port doe	s not			
	2: By Fn190 given limited by	y the analog	g speed lim	it in the s	state of	the	torque
	limiting port does not(Absolute	e value) (As	well as by	the maxin	num spe	ed I	imit)
Fn190	Torque mode, the speed	0~32000	r/min	2000	T		-
	limit for a given speed						
Fn197	Forward rotation prohibition	0~1	-	0	ALL		-
	0: Forward rotation prohibitio	n invalid					
	1: Forward rotation prohibitio	n effective		r	1	1	1
Fn198	Reverse rotation prohibits	0~1	-	0	ALL		-
	0: Reverse rotation prohibition	1	1: Rever	se rotatio	n prohib	it ef	fective
Fn199	Terminal filter time	0~100	ms	1	ALL		-
	IO1 Terminal definition	0~30	-	-	ALL		
	d		nal function				
		defin	ed to choose gical relati				
D 000		— X betwe	en positive	and			
Fn200	V 1		(the defaul	t is 1)			
	Y setting selection parame			1 00 D	1	0.4	
	00: Brushless start, 01: Al						
	switching, 05: Reserved, 06						
	(1 bit), 08: Internal spee		_				_
	selection 3 (3 digits), 10:						
	torque selection 1 (1 bit), reserved, 15: keep, 16: Rese						
	20: Reserved, 21: Reserved						
	function All terminals tha					υp ,	50. 110
	XSet the select parameters as		ipou Heeu (o be set	10 00		
	0: Anti-logic (Port is not con		e case)				
	1: Positive logic (Port conne						
	(Input terminal can not be se		if so reneat	. will IOFF	ER warn	ina))
L	input torriniar our riot be se	r to repeat,	oo repeat	, *****		9	

	T	ı	ı	Т	1	1	1			
Fn201	IO2 input terminal	0~30	-	-	ALL	-				
	definition									
	Ibid			T						
Fn202	IO3 input terminal	0~30	-	-	ALL					
	definition									
	Ibid	T	T	T		1				
Fn210	D01 Output terminal	$0 \sim 14$	-	-	ALL	•				
	definition									
	Y setting selection parameters are as follows									
	00: start output, 01: ready to output, 02: speed reached, 03: reserved									
	04: electromagnetic brake	control sig	gnal output	, 05: ala	arm out	put,	06:			
	overload warning, 07: torque limit									
	08: speed limit, 09: reserved, 10: instruction error warning, 11:									
	instruction range arrival									
	12: Reserved, 14: Gain switching monitorin									
	X Set the select parameters as follows:									
	0: Anti-logic (Port is not connected to the case)									
	1: Positive logic (Port connected)									
	(Output terminal can be repeated to define)									
Fn211	DO2 Output terminal	$0 \sim 14$	-	-	ALL	•				
	definition									
	Ibid									
Fn220	Analog speed input 0-5v	0~20000	r/min	1000	Sz	•				
	corresponds to the speed									
	value									
Fn221	Simulation speed zero drift compensation	±30000	0.1r/min	0	Sz	•	-			
	Note: For reversing the speed of adjustment in the case of a single power Speed,									
	zero-drift compensation can be set to a given simulation speed of the negative									
	half, so that you can half the voltage of zero speed, whichReversible analog									
	speed control.									
Fn222	Analog speed input the	0~6000	r/min	3000	Sz		_			
	maximum limit									
Fn223	Analog torque input +-10v	0~800	%	100	Tz	•	_			
	corresponding torque		, •							
		e torque ad	iustment in t	the case o	of the sir	nale-	power			
	Note: For positive and negative torque adjustment in the case of the single-power speed control, zero-drift compensation can be set to the negative half of the									
	torque of a given simulation, so that you can half the voltage as zero torquein									
		-		_			. 400111			
order to achieve the positive and negative control of the analog torque.										

Fn224	Analog torque zero drift	0~800	%	0	Tz		-		
	compensation								
Fn225	Analog torque is the	0~800	%	100	Tz		-		
	maximum limit								
Fn226	Low-pass filtering of the	1~150	0.1ms	10	Sz		-		
	simulation speed								
	Increasing this value can reduce the simulation noise, reduce mechanical shock,								
	but it will extend the response time, reduce this value will reduce the response								
	time to improve performance, but the noise becomes large.								
Fn227	Low-pass filtering of the	1~500	0.1ms	10	Tz		-		
	analog torque								
	Increasing this value can reduce the simulation noise, reduce mechanical should but it will extend the response time, reduce this value will reduce the response								
	time to improve performance, but the noise becomes large.								