

Parameter number	Function	Setting range	Unit	Factory Value
P05.20	Stop function	Units: 0: Free parking; 1: DC braking; Tens: 1: Precise parking		0
P05.21	Stop frequency	0.000~1000.000	Hz	0.000

■ Function: Set stop function

> Principle explanation:

During the stop process, when the output frequency is less than the stop frequency, the stop function starts to work.

Precise parking: The motor rotates the same number of revolutions at any speed to achieve consistent repeatability of the parking position. To achieve the best results, the deceleration time should be as long as possible so as not to trigger the overvoltage and overcurrent stall prevention functions.

Parameter number	Function	Setting range	Unit	Factory Value
P05.22	DC braking	0.000~300.000	%	100.000
P05.23	DC braking time	0.000~1000.000	s	0.000
P05.24	Demagnetization time ratio	0.000~1000.000	%	10.000

■ Function: Set the DC braking parameters of the stop function

> DC braking: set DC brake 0.000~200.000 as current brake and 200.001~300.000 as voltage brake.
> DC braking time: set the DC braking time. When set to 1000.000, always braking until receiving free stop or start signal.

> Demagnetization time ratio: Generally, no modification is required. For occasions requiring accurate positioning and strict deceleration time, reduce the demagnetization time ratio; where the requirements for deceleration time are not strict, appropriately increase the demagnetization time ratio to reduce the deceleration current impact.

Parameter number	Function	Setting range	Unit	Factory Value
P05.26	Magnetic flux brake activation frequency	0.000~1000.000	Hz	0.000
P05.27	Magnetic Flux braking coefficient	100~200	%	100
P05.28	Magnetic Flux braking time	0.000~1000.000	s	0.000

■ Function: Set the flux braking parameters of the stop function

> Principle explanation:

During the stop, when the output frequency is less than the flux braking activation frequency, the flux braking function starts to take effect during the flux braking time. Flux braking is generally used in situations that require rapid deceleration, but excessive use will cause the motor to heat up.

Parameter number	Function	Setting range	Unit	Factory Value
P05.30	Brake resistance mode	0: Invalid; 1: Maximum duty cycle		1

■ Function: Braking resistor braking mode parameter setting

Parameter number	Function	Setting range	Unit	Factory Value
P05.50	Auto reset mode	0~9999		0
P05.51	Auto reset time	0.000~600.000	s	10.000

■ Function: Set automatic reset function

> Principle explanation:

If the parameter P05.50 is not 0, the automatic reset function is valid, the number of automatic resets is the set value of P05.50, and the automatic reset time is the time when the fault is delayed. If P05.50 is set to 9999, it can be reset any number of times. If P05.50 is set greater than 0 and less than 9999, when the number of automatic resets exceeds P05.50, the inverter will report a fault.

Parameter number	Function	Setting range	Unit	Factory Value
P05.60	Auto energy saving minimum magnetic flux	30~100	%	100
P05.61	Auto energy saving start frequency	0.000~200.000	Hz	5.000

■ Function: Set automatic energy saving function

> Principle explanation:

Automatic energy saving automatically adjusts the output voltage according to the motor load to achieve the purpose of energy saving. When P06.70 is set to 1, P05.60 set value is less than 100 and the running frequency is greater than P05.61, the automatic energy saving function is effective.

Parameter number	Function	Setting range	Unit	Factory Value
P05.63	Manual energy saving magnetic flux	30~90	%	70

■ Function: Set manual energy-saving magnetic flux size

> Principle explanation:

When P06.70 is set to 1 and the automatic energy saving function is invalid, manual energy saving is effective. If P05.63 is set to 100, manual energy saving is invalid. Adjust the energy saving effect by setting the parameter P05.63 magnetic flux size. The smaller the set value, the more obvious the energy saving effect, but the torque response speed becomes slower.

Parameter number	Function	Setting range	Unit	Factory Value
P05.71	Current upper limit	0~300	%	150

■ Function: When the running current is greater than the upper current limit, the overcurrent stall function is activated. The current reference is the motor rated current (P06.14).

Parameter number	Function	Setting range	Unit	Factory Value
P05.76	Upper limit of electric torque	0.000~900.000	%	150.000
P05.77	Upper limit of regenerative torque	0.000~900.000	%	150.000

■ Function: Set torque limit function

> Principle explanation:

Parameters P05.76 and P05.77 set the upper limit of electric and regenerative torque.

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Parameter number	Function	Setting range	Unit	Factory Value
P05.80	Over-voltage control	0: Invalid; 1: Valid at all times		1
P05.82	Over-voltage control scale coefficient	0~200	%	100
P05.83	Over-voltage control integral coefficient	1~10000	%	100

Function: Set overvoltage control function

> Principle explanation:

When the regenerative voltage exceeds the set threshold, the overvoltage control starts to activate the overvoltage stall function according to the setting of parameter P05.80

Parameter number	Function	Setting range	Unit	Factory Value
P05.85	Under-voltage control	Units: grid power-down action mode 0: Invalid; 1: Instantaneous stop no stop; 2: Safe parking; 3 ~ 6: reserved Tens: under-voltage action mode of power grid 0: Invalid; 1: Safe frequency reduction		0
P05.86	Power grid voltage level	100~800	V	*

Function: Set undervoltage control function

> Principle explanation:

When the input voltage is lower than the grid power-down level, the power-down action starts to activate according to the parameter P05.85 bit setting. Grid undervoltage means that the grid voltage is lower than the normal voltage, and the undervoltage action starts to activate according to the parameter P05.85 tens place setting.

Parameter number	Function	Setting range	Unit	Factory Value
P05.90	AVR function selection	0: invalid; 1: valid; 2: Only invalid when decelerating		1
P05.91	AVR function damping factor	0~100	%	100

Function: Set AVR function

> Principle explanation:

AVR is used to compensate the fluctuation of grid voltage and keep the output voltage constant. When P05.90 is selected as 2, it is conducive to rapid deceleration.

6.6 Group 06 parameters: Motor model

Parameter number	Function	Setting range	Unit	Factory Value
P06.00	Motor parameter self-learning	0: Invalid 1: Complete self-learning 2: Simple self-learning		0

Function: Online learning of motor parameters

> Principle explanation:

During complete self-learning and simple self-learning, the motor will not rotate. After self-learning, the parameters such as motor stator impedance and rotor impedance will change. Before motor parameter self-learning, input motor nameplate parameters P06.10 ~ P06.15.

Self-learning process: Set P06.00, press the run key to start self-learning. When the self-learning is normal, the keyboard displays L0000. After the self-learning is

Parameter number	Function	Setting range	Unit	Factory Value
P06.05	Carrier frequency	2~16	KHz	*

Function: Set carrier frequency

Parameter number	Function	Setting range	Unit	Factory Value
P06.06	Over-modulation function	0: Invalid; 1: Valid		1

Function: Set over modulation function

Parameter number	Function	Setting range	Unit	Factory Value
P06.10	Motor type	0: Asynchronous motor; 1: Surface mount permanent magnet synchronization; 2: Salient pole permanent magnet synchronization; 4: Single-phase motor		0
P06.11	Motor rated Power	0.000~100000.000	kW	*
P06.12	Motor rated voltage	0~1000	V	*
P06.13	Motor rated frequency	1~3000	Hz	*
P06.14	Motor rated current	0.00~1000.00	A	*
P06.15	Motor rated speed	10~65535	rpm	*
P06.16	Motor power factor	0.00~1.00		*
P06.17	Number of motor poles	2~100		*
P06.18	Motor rated torque	0.1~10000.0	N·m	*
P06.19	Motor no-load current	0.00~1000.00	A	*

Function: Set motor parameters

Parameter number	Function	Setting range	Unit	Factory Value
P06.20	PM motor back EMF/rev	1.000~10000.000	mV/rpm	*

Function: Set the back EMF corresponding to the rated speed of the permanent magnet synchronous motor

Parameter number	Function	Setting range	Unit	Factory Value
P06.40	Stator impedance	0.000~99.990	Ω	*
P06.41	Rotor impedance	0.000~99.990	Ω	*
P06.42	Stator leakage reactance	0.000~999.990	mH	*
P06.44	Motor main reactance	0.00~999.90	mH	*

Function: Motor model parameters (obtained by self-learning of motor parameters)

Parameter number	Function	Setting range	Unit	Factory Value
P06.50	PM d-axis reactance	0.000~1000.000	mH	*
P06.51	PM q-axis reactance	0.001~9999.000	mH	*
P06.52	PM d-axis reactance saturation coefficient	0.0~100.0	%	*
P06.53	PM q-axis reactance saturation coefficient	0.0~100.0	%	*
P06.54	Maximum field weakening current d	10~400	%	100
P06.55	Maximum field weakening current q	10~400	%	100

■ Function: Permanent magnet synchronous motor model parameters (obtained by self-learning of motor parameters)

Parameter number	Function	Setting range	Unit	Factory Value
P06.60	Single-phase motor turns ratio	0.200~1.800		1.000

■ Function: Set single-phase motor turn ratio

Parameter number	Function	Setting range	Unit	Factory Value
P06.70	Load type	0: Constant torque; 1: Fan water pump; 2: Promotion; 3: Reserved		0

■ Function: Select the appropriate load type to obtain the corresponding torque characteristics, optimize the control algorithm

Parameter number	Function	Setting range	Unit	Factory Value
P06.80	Motor cable compensation strength	0~500		0

■ Function: This parameter needs to be set when the motor cable exceeds 100 meters, and 20 is recommended to set.

6.7. Group 07 parameters: control algorithm

Parameter number	Function	Setting range	Unit	Factory Value
		-500~500	%	100
P07.50	Slip compensation			100
P07.51	Slip compensation filter constant	1~10000	%	

■ Function: Set vector control slip

➤ Slip compensation: adjust the speed stability accuracy of the motor. When the motor is under heavy load, the speed is low, increase this parameter, otherwise reduce this parameter.

Parameter number	Function	Setting range	Unit	Factory Value
P07.52	Resonance suppression coefficient	0~10000	%	100
P07.53	Low-speed suppression filter constant	1~10000	%	100
P07.54	High-speed suppression filter constant	1~10000	%	100

■ Function: Set resonance suppression coefficient, high and low speed suppression filter constant

➤ Principle explanation:

The no-load frequency conversion control system is prone to resonance, and the resonance suppression function helps eliminate vibration.

Parameter number	Function	Setting range	Unit	Factory Value
P07.55	Automatic torque boost coefficient	0~300	%	100

■ Function: Set automatic torque boost coefficient

➤ Principle explanation:

According to the load, the output voltage at low frequency is automatically compensated to improve the load capacity at low frequency.

Parameter number	Function	Setting range	Unit	Factory Value
P07.57	Low speed minimum current	0~300	%	50
P07.58	Static friction lift coefficient	0~10000	%	100
P07.59	Static friction lift time	0.0~1000.0	S	0.0

■ Function: Set low speed minimum current and static friction parameters

➤ Principle explanation:

Low speed minimum current given the minimum current at low speed, proper settings help to improve the low speed load capacity. The static friction lifting function automatically compensates the output voltage at the start according to the load, thereby increasing the starting torque.

Parameter number	Function	Setting range	Unit	Factory Value
P07.71	VF curve-F1	0.0~3000.0	Hz	50.0
P07.72	VF curve-F2			50.0
P07.73	VF curve-F3			50.0
P07.74	VF curve-F4			50.0
P07.75	VF curve-V0	0~10000	V	0
P07.76	VF curve-V1			*
P07.77	VF curve-V2			*
P07.78	VF curve-V3			*
P07.79	VF curve-V4			*

■ Function: Set VF curve

➤ Principle explanation:

Set the V / F curve in V / F control mode. When vector control 1 is used, the corresponding data points of the V / F curve can be set to adjust the control characteristics of the corresponding control points.

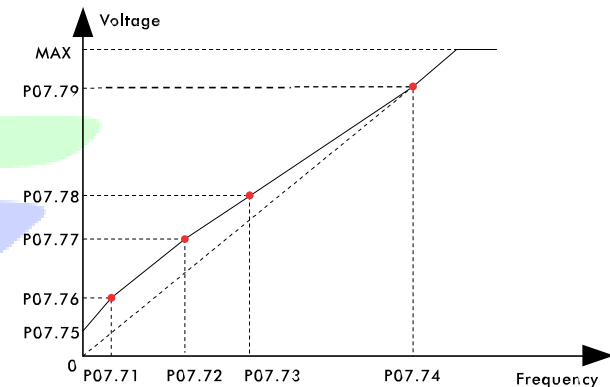


Figure 6-7-1 VF control curve

6.8 Group 09 parameters: system protection

Parameter number	Function	Setting range	Unit	Factory Value
P09.00	Input phase loss action	0: Fault; 1: Alarm; 2: Invalid		2

■ Function: Set input phase loss action

Parameter number	Function	Setting range	Unit	Factory Value
P09.04	Output phase loss detection	0: Invalid; 1: Valid		1

■ Function: Set the action when output phase loss protection

Parameter number	Function	Setting range	Unit	Factory Value
P09.06	ETR selection	0: Invalid; 1: Alarm; 2: Fault		2

■ Function: Select ETR action

Parameter number	Function	Setting range	Unit	Factory Value
P09.49	STO display selection	0: STO/STO1/STO2/STO3 state is not displayed; 1: Display alarm in STO state; 2: Display fault in STO state		0

■ Function: STO display selection

6.9 Group 10 parameters: system status

Parameter number	Function	Setting range	Unit	Factory Value
P10.05	Software version number			

■ Function: Indicate the inverter software version number.

Parameter number	Function	Setting range	Unit	Factory Value
P10.10	Control word	0~429496/295		

■ Function: Indicates the system control word.

The definition of each bit is shown in the table below:

Table 6-9-1

Control word(bit)	Definition
0	Start
1	Reverse
2	Start reverse
3	JOG
4	Stop
5	Emergency stop
6	Safe stop
7	Reset
9	Parameter self-learning
10	Tripping
11	Pause
13	UP (incremental)

Parameter number	Function	Setting range	Unit	Factory Value
P10.11		-65535.0~65535.0		

Set value

■ Function: Indicate the set frequency value, see Figure 6-2-1

Parameter number	Function	Setting range	Unit	Factory Value
P10.15	Current state	0~429496/295		

■ Function: Indicates the system status word (see the table below for the definition of each bit). The specific meaning is shown in Figure 6-5-1.

Table 6-9-2

Status word(bit)	Definition
0	The power is being cut off
1	Stopping
2	Running
3	Start function starts
4	Parameter self-learning starts
5	Operating
6	Ready
10	Fault
11	Alarm
12	STO status

Parameter number	Function	Setting range	Unit	Factory Value
P10.16	Fault state word 1	0~429496/295		
P10.17	Fault state word 2	0~429496/295		

■ Function: Indicate the system fault status word (see the table below for the definition of each bit)

Table 6-9-3

Fault status word 1 (bit)	Definition
1	System abnormality
4	Ground fault
5	Short circuit to ground
6	Output short circuit
7	Output overcurrent
8	DC bus overvoltage
9	DC bus undervoltage
10	Inverter overheating
11	Self-learning failure
13	Rectifier bridge overheating
14	U phase missing phase
15	V phase missing phase
16	W phase missing phase
19	No motor connection
20	Input phase loss
21	Inverter overload
22	Overtorque
24	Motor overheating
25	Motor overload
26	Current limit
27	Input power down
Fault status word 2 (bit)	Definition
31	External fault
33	STO safe torque stop
34	STI1 internal circuit abnormal
35	STI2 internal circuit abnormal
36	STI1 and STI2 internal loop abnormal

Parameter number	Function	Setting range	Unit	Factory Value
P10.18	Alarm state word	0~4294967295		

■ Function: indicate the system alarm status word
(see the description of the above table for the definition of each bit)

Parameter number	Function	Setting range	Unit	Factory Value
P10.20	Output frequency absolute value	0.0~65535.0	Hz	
P10.21	Output frequency	-65535.0~65535.0	Hz	
P10.22	Output current	0.00~65535.00	A	
P10.23	Output voltage	0.0~65535.0	V	
P10.24	Output torque	0.000~65535.000	N·m	

■ Function: Indicate output information

Parameter number	Function	Setting range	Unit	Factory Value
P10.25	DC voltage	0.0~65535.0	V	
P10.26	Inverter temperature	0~65535	°C	
P10.27	Inverter hot load	0~65535	%	
P10.28	Motor hot load	0~65535	%	
P10.30	power	0.000~65535.000	kW	
P10.31	energy consumption	0.000~4294967.295	kW·h	

■ Function: Indicate the running status information of the inverter

Parameter number	Function	Setting range	Unit	Factory Value
P10.40	Hours of power on	0.000~4294967.295	h	
P10.41	Number of power-on	0~4294967295		

■ Function: Instruct inverter statistics

Parameter number	Function	Setting range	Unit	Factory Value
P10.44	Communication timeout	0.000~9999.000	s	

■ Function: Monitor the communication timeout of inverter and upper computer

► Principle explanation:

After the inverter is powered on, if there is no communication with the upper computer, the communication timeout is 0.

After only one normal communication, when the communication is normal, the timeout is less than 0.1 data change. At this time, if the communication is abnormal, the communication timeout will be accumulated and counted. The user can use the comparator to judge the communication failure shutdown. Check the parameters as below:

Parameter number	Function	Setting Value
P01.30	Virtual terminal setting	1340
P03.08	Fault command source	17
P12.00	Free parameter 1	3.000
P16.00	Comparator 1 input parameter selection	1044
P16.01	Comparator 1 comparison parameter selection	1200
P16.02	Comparator 1 configuration	2
Function description: When communication timeout $\geq 3s$, the inverter will stop in case of fault, and the keyboard will display E0063.		

Parameter number	Function	Setting range	Unit	Factory Value
P10.60	Current alarm number	0~4294967295		
P10.61	Current fault number	0~4294967295		
P10.62	Last fault number	0~4294967295		
P10.63	The first two fault numbers	0~4294967295		

■ Function: Indicate the inverter fault information, (refer to chapter 10.2 Troubleshooting)

Parameter number	Function	Setting range	Unit	Factory Value
P10.70	S input terminal state	0~4294967295		
P10.71	AI1 terminal input value	-65535.000~65535.000	%	
P10.72	AI2 terminal input value	-65535.000~65535.000	%	
P10.74	Y terminal output state	0~4294967295		
P10.75	AO1 terminal output value	-65535.000~65535.000	%	
P10.76	AO2 terminal output value	-65535.000~65535.000	%	

■ Function: indicate external terminal information

Parameter number	Function	Setting range	Unit	Factory Value
P10.78	Pulse input frequency	0.000~10000.000	KHz	
P10.79	Pulse output frequency	0.000~10000.000	KHz	

■ Function: Indicate pulse input and output frequency

Parameter number	Function	Setting range	Unit	Factory Value
P10.80	Encoder count	0~4294967295		
P10.81	Encoder speed	-9999.000~9999.000	Hz	
P10.82	Encoder angle	0.0~359.9	deg	

■ Function: indicate encoder status

Parameter number	Function	Setting range	Unit	Factory Value
P10.90	Set value 1	-999999.000~999999.000	%	
P10.91	Set value 2	-999999.000~999999.000	%	
P10.92	Set value 3	-999999.000~999999.000	%	

■ Function: Indicate the set value, see Figure 6-2-1

Parameter number	Function	Setting range	Unit	Factory Value
P10.98	Display value 1	-99999.000~99999.000		
P10.99	Display value 2	-99999.000~99999.000		

■ Function: indicate the display value (see P01.68 ~ P01.69 for the source of the display value)

6.10 Group 11 parameters: fault record

Parameter number	Function	Setting range	Unit	Factory Value
P11.10	Current fault output frequency	-999999.0~999999.0	Hz	0.0
P11.11	Current fault output current	-999999.00~999999.00	A	0.00
P11.12	Current fault bus voltage	-999999.0~999999.0	V	0.0
P11.13	Current faulty inverter temperature	-999999~999999	°C	0
P11.14	Current fault S terminal state	-999999~999999		0
P11.15	Current fault Y terminal state	-999999~999999		0
P11.16	Accumulated power-on time of the current fault	0.000~4294967.295	h	0.000
P11.20	Output frequency of last fault	-999999.0~999999.0	Hz	0.0
P11.21	Output current of last fault	-999999.00~999999.00	A	0.00
P11.22	Bus voltage of last fault	-999999.0~999999.0	V	0.0
P11.23	Inverter temperature of last fault	-999999~999999	°C	0
P11.24	S-terminal state of last fault	-999999~999999		0
P11.25	Y terminal state of last fault	-999999~999999		0
P11.26	Accumulated power-on time of the last fault	0.000~4294967.295	h	0.000
P11.30	Output frequency of the first two faults	-999999.0~999999.0	Hz	0.0
P11.31	Output current of the first two faults	-999999.00~999999.00	A	0.00
P11.32	Bus voltage of the first two faults	-999999.0~999999.0	V	0.0
P11.33	Inverter temperature of the first two faults	-999999~999999	°C	0
P11.34	S terminal state of the first two faults	-999999~999999		0
P11.35	Y terminal state of the first two faults	-999999~999999		0
P11.36	Accumulated power-on time of the first two faults	0.000~4294967.295	h	0.000

Function: record fault information

6.11 Group 12 parameters: free parameters

Parameter number	Function	Setting range	Unit	Factory Value
P12.00 ~ P12.19	Free parameter 1 ~ Free parameter 20	-999999.000~999999.000		0.000
P12.90 ~ P12.99	Free parameter 91 ~ Free parameter 100	-999999.000~999999.000		0.000

Function: As an interface or intermediate quantity, expand system functions

Principle explanation:

P12.00 ~ P12.19, P12.90 ~ P12.94, automatically save the current value when power off.
P12.95 ~ P12.99: Set the parameter number. The value of P12.90 ~ P12.94 at power-on is given to the parameter number set in P12.95 ~ P12.99.
Only P12.90 ~ P12.99 parameters are automatically saved after power off.

6.12 Group 13 parameters: function output

Parameter number	Function	Setting range	Unit	Factory Value
P13.00	Comparator output	0~4294967295		0
P13.01	Logic output	0~4294967295		0

Function: Indicate comparator output (see P16.00 ~ P16.35), logic output result (see P16.36 ~ P16.75)

Comparator output: store all comparator results, bit0 stores comparator 1 results, bit1 stores comparator 2 results, ...

Logic output: store all logical unit results, bit0 stores logical unit 1 results, bit1 stores logical unit 2 results, ...

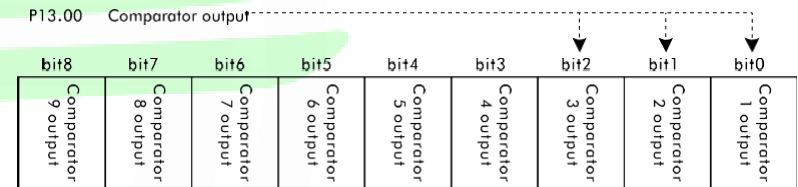


Figure 6-12-1 indicates the output of the comparator

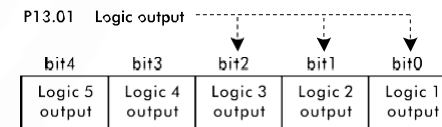


Figure 6-12-2 Indicate the logic output result

Parameter number	Function	Setting range	Unit	Factory Value
P13.02	Linear transformation 1 result	-999999.000~999999.000		0.000
P13.03	Linear transformation 2 result	-999999.000~999999.000		0.000

Function: Indicate the result of linear transformation (see P17.00 ~ P17.09)

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Parameter number	Function	Setting range	Unit	Factory Value
P13.10	Single arithmetic operation 1 output	-999999.000~999999.000		0.000
P13.11	Single arithmetic operation 2 output	-999999.000~999999.000		0.000
P13.12	Single arithmetic operation 3 output	-999999.000~999999.000		0.000
P13.13	Single arithmetic operation 4 output	-999999.000~999999.000		0.000
P13.14	Single arithmetic operation 5 output	-999999.000~999999.000		0.000

■ Function: Indicate the output result of single arithmetic operation (P17.16 ~ P17.25)

Parameter number	Function	Setting range	Unit	Factory Value
P13.15	Math operation 1 output	-999999.000~999999.000		0.000
P13.16	Math operation 2 output	-999999.000~999999.000		0.000
P13.17	Math operation 3 output	-999999.000~999999.000		0.000
P13.18	Math operation 4 output	-999999.000~999999.000		0.000

■ Function: Indicate the output result of mathematical operation (see P17.26 ~ P17.45)

Parameter number	Function	Setting range	Unit	Factory Value
P13.40	Comparator 1 output	0~1		0
P13.41	Comparator 2 output	0~1		0
P13.42	Comparator 3 output	0~1		0
P13.43	Comparator 4 output	0~1		0
P13.44	Comparator 5 output	0~1		0
P13.45	Comparator 6 output	0~1		0
P13.46	Comparator 7 output	0~1		0
P13.47	Comparator 8 output	0~1		0
P13.48	Comparator 9 output	0~1		0

■ Function: Indicate the bit corresponding to the output of a single comparator (see P16.00 ~ P16.35)

Parameter number	Function	Setting range	Unit	Factory Value
P13.50	Logic 1 output	0~1		0
P13.51	Logic 2 output	0~1		0

■ Function: Indicate the bit corresponding to the output of a single logic unit (see P16.36 ~ P16.51)

Parameter number	Function	Setting range	Unit	Factory Value
P13.60	Timer 1 current counting			
P13.61	Timer 1 current value	0~4294967295		0
P13.62	Timer 1 current stage	0~65535		0
P13.63	Timer 2 current counting	0~16		0
P13.64	Timer 2 current value	0~4294967295		0
P13.65	Timer 2 current stage	0~65535		0

■ Function: Indicate the timer result (see P18.00 ~ P18.39)

- Current timer value: The timer counts, the count value can be suspended or cleared.
- Current state of timer: indicates the state of the timer stage, bit0 corresponds to stage 1, bit1 corresponds to stage 2, ...
- Timer current stage: indicates the current stage of the timer.

Parameter number	Function	Setting range	Unit	Factory Value
P13.92	virtual address current value 1	0~4294967295		0
P13.93	virtual address current value 2	0~4294967295		0
P13.94	virtual address current value 3	0~4294967295		0
P13.95	virtual address current value 4	0~4294967295		0
	virtual address current value 5	0~4294967295		0
P13.97	virtual address current value 6	0~4294967295		0
P13.98	virtual address current value 7	0~4294967295		0

■ Function: virtual address receiving value, referring to P01.32~P01.38 for detailed functions

6.13 Group 14 parameters: encoder

Parameter number	Function	Setting range	Unit	Factory Value
P14.01	Encoder 1 resolution	1~2147483647		1024
P14.02	Encoder 1 direction	0: Forward; 1: Reverse		0

■ Function: Set encoder parameters

6.14 Group 16 parameters: logic unit

Parameter number	Function	Setting range	Unit	Factory Value
P16.00	Comparator 1 input parameter selection	0~65535		0
P16.01	Comparator 1 comparison parameter selection	0~65535		0
P16.02	Comparator 1 configuration	0: >; 1: <; 2: >=; 3: <=; 4: ==; 5: !=; 6: #		0
P16.03	Comparator 1 delay time	0.000~99999.000	s	0.000
P16.04	Comparator 2 input parameter selection	0~65535		0
P16.05	Comparator 2 comparison parameter selection	0~65535		0
P16.06	Comparator 2 configuration	0: >; 1: <; 2: >=; 3: <=; 4: ==; 5: !=; 6: #		0
	Comparator 2 delay time	0.000~99999.000	s	0.000
P16.07	Comparator 3 input parameter selection	0~65535		0
P16.08	Comparator 3 comparison parameter selection	0~65535		0
P16.09	Comparator 3 configuration	0: >; 1: <; 2: >=; 3: <=; 4: ==; 5: !=; 6: #		0
P16.10	Comparator 3 delay time	0.000~99999.000	s	0.000
P16.11				

P16.12	Comparator 4 input parameter selection	0~65535		0
P16.13	Comparator 4 comparison parameter selection	0~65535		0
P16.14	Comparator 4 configuration	0: >; 1: <; 2: ; 3: ; 4: =; 5: ≥; 6: ≤		0
P16.15	Comparator 4 delay time	0.000~99999.000	s	0.000
P16.16	Comparator 5 input parameter selection	0~65535		0
P16.17	Comparator 5 comparison parameter selection	0~65535		0
P16.18	Comparator 5 configuration	0: >; 1: <; 2: ; 3: ; 4: =; 5: ≥; 6: ≤		0
P16.19	Comparator 5 delay time	0.000~99999.000	s	0.000
P16.20	Comparator 6 input parameter selection	0~65535		0
P16.21	Comparator 6 comparison parameter selection	0~65535		0
P16.22	Comparator 6 configuration	0: >; 1: <; 2: ; 3: ; 4: =; 5: ≥; 6: ≤		0
P16.23	Comparator 6 delay time	0.000~99999.000	s	0.000
P16.24	Comparator 7 input parameter selection	0~65535		0
P16.25	Comparator 7 comparison parameter selection	0~65535		0
P16.26	Comparator 7 configuration	0: >; 1: <; 2: ; 3: ; 4: =; 5: ≥; 6: ≤		0
P16.27	Comparator 7 delay time	0.000~99999.000	s	0.000
P16.28	Comparator 8 input parameter selection	0~65535		0
P16.29	Comparator 8 comparison parameter selection	0~65535		0
P16.30	Comparator 8 configuration	0: >; 1: <; 2: ; 3: ; 4: =; 5: ≥; 6: ≤		0

P16.31	Comparator 8 delay time	0.000~99999.000	s	0.000
P16.32	Comparator 9 input parameter selection	0~65535		0
P16.33	Comparator 9 comparison parameter selection	0~65535		0
P16.34	Comparator 9 configuration	0: >; 1: <; 2: ; 3: ; 4: =; 5: ≥; 6: ≤		0
P16.35	Comparator 9 delay time	0.000~99999.000	s	0.000

Function: Set comparison operation

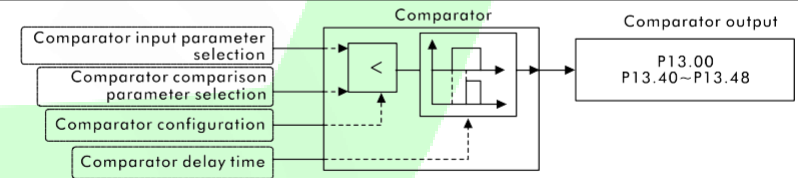


Figure 6-14-1 Comparator

- Comparator input parameter selection: this setting is the address. The address is the selected parameter number, and the actual value is determined by the current value of the selected parameter number.
- Comparator comparison parameter selection: this setting is the address. The address is the selected parameter number, and the actual value is determined by the current value of the selected parameter number.
- Comparator configuration: select the comparison relationship.
- Comparator delay time: After the delay time is reached, the comparator result is output.

Parameter number	Function	Setting range	Unit	Factory Value
P16.36	Logic unit 1 parameter selection 1	0~65535		0
P16.37	Logic unit 1 input bit selection 1	0 32		
P16.38	Logic unit 1 parameter selection 2	0~65535		0
P16.39	Logic unit 1 input bit selection 2	0 32		
P16.40	Logic unit 1 parameter selection 3	0~65535		0
P16.41	Logic unit 1 input bit selection 3	0 32		
P16.42	Logical unit 1 configuration 1	0: No effect; 1: And; 2: OR; 3: NAND; 4: NOR; 5: XOR		0
P16.43	Logical unit 1 configuration 2	0: No effect; 1: And; 2: OR; 3: NAND; 4: NOR; 5: XOR		0
P16.44	Logic unit 2 parameter selection 1	0~65535		0
P16.45	Logic unit 2 input bit selection 1	0 32		
P16.46	Logic unit 2 parameter selection 2	0 65535		
P16.47	Logic unit 2 input bit selection 2	0 32		
P16.48	Logic unit 2 parameter selection 3	0~65535		0
P16.49	Logic unit 2 input bit selection 3	0 32		
P16.50	Logical unit 2 configuration 1	0: No effect; 1: And; 2: OR; 3: NAND; 4: NOR; 5: XOR		0
P16.51	Logical unit 2 configuration 2	0: No effect; 1: And; 2: OR; 3: NAND; 4: NOR; 5: XOR		0

Parameter number	Function	Setting range	Unit	Factory Value
P16.76	Selector 1 parameter source	0~65535		0
P16.77	Selector 1 setting	0~16: numerical setting; 200~65535: address		0
P16.78	Selector 1 destination parameters	0~65535		0
P16.79	Selector 2 parameter source	0 65535		
P16.80	Selector 2 setting	0~16: numerical setting; 200~65535: address		0
P16.81	Selector 2 destination parameters	0 65535		
P16.82	Selector 3 parameter source	0~65535		0
P16.83	Selector 3 setting	0~16: numerical setting; 200~65535: address		0
P16.84	Selector 3 destination parameters	0~65535		0
P16.85	Selector 4 parameter source	0~65535		0
P16.86	Selector 4 setting	0~16: numerical setting; 200~65535: address		0
P16.87	Selector 4 destination parameters	0~65535		0
P16.88	Selector 5 parameter source	0 65535		
P16.89	Selector 5 setting	0~16: numerical setting; 200~65535: address		0
P16.90	Selector 5 destination parameters	0~65535		0
P16.91	Selector 6 parameter source	0~65535		0
P16.92	Selector 6 setting	0~16: numerical setting; 200~65535: address		0
P16.93	Selector 6 destination parameters	0~65535		0
P16.94	Selector 7 parameter source	0 65535		
P16.95	Selector 7 setting	0~16: numerical setting; 200~65535: address		0
P16.96	Selector 7 destination parameters	0 65535		
P16.97	Selector 8 parameter source	0~65535		0
P16.98	Selector 8 setting	0~16: numerical setting; 200~65535: address		0
P16.99	Selector 8 destination parameters	0~65535		0

Function
parameter descriptionFunction
parameter description

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Figure 6-14-2 logic operation

6.15 Group 17 parameters: mathematical operations

Parameter number	Function	Setting range	Unit	Factory Value
P17.00	Linear transformation 1 parameter source	0~65535		0
P17.01	Linear transformation 1 X1	-999999.000~999999.000		0.000
P17.02	Linear transformation 1 X2	-999999.000~999999.000		50.000
P17.03	Linear transformation 1 Y1	-999999.000~999999.000		0.000
P17.04	Linear transformation 1 Y2	-999999.000~999999.000		1500.000
P17.05	Linear transformation 2 parameter source	0~65535		0
P17.06	Linear transformation 2 X1	-999999.000~999999.000		0.000
P17.07	Linear transformation 2 X2	-999999.000~999999.000		0.000
P17.08	Linear transformation 2 Y1	-999999.000~999999.000		0.000
P17.09	Linear transformation 2 Y2	-999999.000~999999.000		0.000

- Function: Set linear transformation operation

► Principle explanation:

As shown in Figure 6-15-1, the source parameter of the linear transformation parameter is set, and the current value of the reference parameter is used as the x input. Linear relationship setting (modify parameters P17.01~17.04 or parameters P17.05~P17.09).

► Example: Different output frequencies correspond to different speeds (0~50Hz corresponds to 0~1500rpm), the setting parameters are as follows:

P17.00 = 1021 (source of linear transformation 1 parameter is output frequency)
P17.01 = 0 (linear transformation 1 X1 is 0)
P17.02 = 50 (linear transformation 1 X2 is 50)
P17.03 = 0 (linear transformation 1 Y1 is 0)
P17.04 = 1500 (linear transformation 1 Y2 is 1500)
P13.02 = Linear transformation 1 result

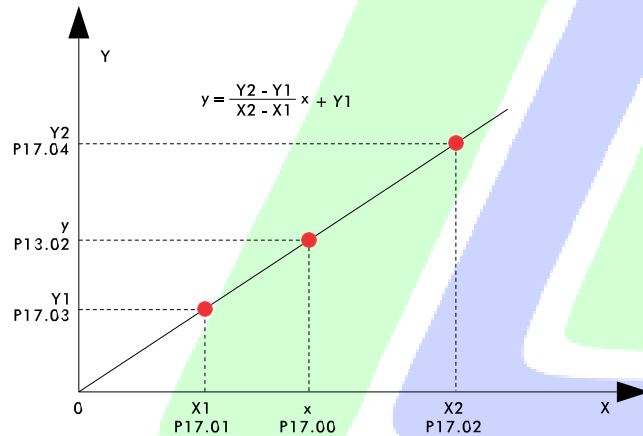


Figure 6-15-1 Linear transformation

Parameter number	Function	Setting range	Unit	Factory Value
P17.16	Single arithmetic operation parameter source	0~65535		0
P17.17	Single arithmetic operation operation setting	0: ABS; 1: Sqrt; 2: Sin; 3: Cos; 4: Power2; 5: Power3; 6: Random; 7: Bitwise NOT; 8: 2 to the n; 10: If less than 0, it means 0. If greater than 0, it means 0; 11: If greater than 0, it means 0. If less than 0, it means 0.		0
P17.18	Single arithmetic operation 2 parameter source	0~65535		0
P17.19	Single arithmetic operation 2 operation setting	0: ABS; 1: Sqrt; 2: Sin; 3: Cos; 4: Power2; 5: Power3; 6: Random; 7: Bitwise NOT; 8: 2 to the n; 10: If less than 0, it means 0. If greater than 0, it means 0; 11: If greater than 0, it means 0. If less than 0, it means 0.		0
P17.20	Single arithmetic operation 3 parameter source	0~65535		0
P17.21	Single arithmetic operation 3 operation setting	0: ABS; 1: Sqrt; 2: Sin; 3: Cos; 4: Power2; 5: Power3; 6: Random; 7: Bitwise NOT; 8: 2 to the n; 10: If less than 0, it means 0. If greater than 0, it means 0; 11: If greater than 0, it means 0. If less than 0, it means 0.		0
P17.22	Single arithmetic operation 4 parameter source	0~65535		0
P17.23	Single arithmetic operation 4 operation setting	0: ABS; 1: Sqrt; 2: Sin; 3: Cos; 4: Power2; 5: Power3; 6: Random; 7: Bitwise NOT; 8: 2 to the n; 10: If less than 0, it means 0. If greater than 0, it means 0; 11: If greater than 0, it means 0. If less than 0, it means 0.		0
P17.24	Single arithmetic operation 5 parameter source	0~65535		0
P17.25	Single arithmetic operation 5 operation setting	0: ABS; 1: Sqrt; 2: Sin; 3: Cos; 4: Power2; 5: Power3; 6: Random; 7: Bitwise NOT; 8: 2 to the n; 10: If less than 0, it means 0. If greater than 0, it means 0; 11: If greater than 0, it means 0. If less than 0, it means 0.		0

- Function: Set single arithmetic operation

► For example: P17.16=1200, P17.17=0, P17.18=10, P13.10=81.000

Parameter number	Function	Setting range	Unit	Factory Value
P17.26	Mathematical operation 1 Parameter source 1	0~65535		0
P17.27	Mathematical operation 1 Parameter source 2	0~65535		0
P17.28	Mathematical operation 1 Parameter source 3	0~65535		0
P17.29	Math operation 1 Operation setting 1	0:No effect; 1:+; 2:-; 3:*; 4:/; 5:Max; 6:Min; 7:Mean; 9:Bitwise AND; 10:Bitwise OR; 11:ANDN; 15:Edge signal source :(P17.29=15, detect the rising edge of P17.26 source, P17.30=15, when the result of P17.27 and P17.28 is not 0 by bitwise, resetting the rising edge) 16:Rearrange the values and increase 8 bits		0
P17.30	Math operation 1 Operation setting 2	0:No effect; 1:+; 2:-; 3:*; 4:/; 5:Max; 6:Min; 7:Mean; 9:Bitwise AND; 10:Bitwise OR; 11:ANDN; 15: Edge signal reset:(P17.29=15, detect the rising edge of P17.26 source, P17.30=15, when the result of P17.27 and P17.28 is not 0 by bitwise, resetting the rising edge) 16: Rearrange the values and decrease 8 bits		0
P17.31	Mathematical operation 2 Parameter source 1	0~65535		0
P17.32	Mathematical operation 2 Parameter source 2	0~65535		0
P17.33	Mathematical operation 2 Parameter source 3	0~65535		0
P17.34	Math operation 2 Operation setting 1	0:No effect; 1:+; 2:-; 3:*; 4:/; 5:Max; 6:Min; 7:Mean; 9:Bitwise AND; 10:Bitwise OR; 11:ANDN; 15:Edge signal source :(P17.29=15, detect the rising edge of P17.26 source, P17.30=15, when the result of P17.27 and P17.28 is not 0 by bitwise, resetting the rising edge) 16:Rearrange the values and increase 8 bits		0

P17.35	Math operation 2 Operation setting 2	0:No effect; 1:+; 2:-; 3:*; 4:/; 5:Max; 6:Min; 7:Mean; 9:Bitwise AND; 10:Bitwise OR; 11:ANDN; 15: Edge signal reset:(P17.29=15, detect the rising edge of P17.26 source, P17.30=15, when the result of P17.27 and P17.28 is not 0 by bitwise, resetting the rising edge) 16: Rearrange the values and decrease 8 bits		0
P17.36	Mathematical operation 3 Parameter source 1	0~65535		0
P17.37	Mathematical operation 3 Parameter source 2	0~65535		0
P17.38	Mathematical operation 3 Parameter source 3	0~65535		0
P17.39	Math operation 3 Operation setting 1	0:No effect; 1:+; 2:-; 3:*; 4:/; 5:Max; 6:Min; 7:Mean; 9:Bitwise AND; 10:Bitwise OR; 11:ANDN; 15:Edge signal source :(P17.29=15, detect the rising edge of P17.26 source, P17.30=15, when the result of P17.27 and P17.28 is not 0 by bitwise, resetting the rising edge) 16:Rearrange the values and increase 8 bits		0
P17.40	Math operation 3 Operation setting 2	0:No effect; 1:+; 2:-; 3:*; 4:/; 5:Max; 6:Min; 7:Mean; 9:Bitwise AND; 10:Bitwise OR; 11:ANDN; 15: Edge signal reset:(P17.29=15, detect the rising edge of P17.26 source, P17.30=15, when the result of P17.27 and P17.28 is not 0 by bitwise, resetting the rising edge) 16: Rearrange the values and decrease 8 bits		0
P17.41	Mathematical operation 4 Parameter source 1	0~65535		0
P17.42	Mathematical operation 4 Parameter source 2	0~65535		0
P17.43	Mathematical operation 4 Parameter source 3	0~65535		0

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Function
parameter descriptionFunction
parameter description

P17.44	Math operation 4 Operation setting 1	0:No effect; 1:++; 2:--; 3:*; 4:/; 5:Max; 6:Min; 7:Mean; 9:Bitwise AND; 10:Bitwise OR; 11:ANDN; 15:Edge signal source ;(P17.29=15, detect the rising edge of P17.26 source, P17.30=15, when the result of P17.27 and P17.28 is not 0 by bitwise, resetting the rising edge) 16:Rearrange the values and increase 8 bits	0
P17.45	Math operation 4 Operation setting 2	0:No effect; 1:++; 2:--; 3:*; 4:/; 5:Max; 6:Min; 7:Mean; 9:Bitwise AND; 10:Bitwise OR; 11:ANDN; 15: Edge signal reset:(P17.29=15, detect the rising edge of P17.26 source, P17.30=15, when the result of P17.27 and P17.28 is not 0 by bitwise, resetting the rising edge) 16: Rearrange the values and decrease 8 bits	0

- Function: Set up math operation

- Source of mathematical operation parameters:
this setting is the address. The address is the selected parameter number, and the actual value is determined by the current value of the selected parameter number.
- Math operation setting: set math operation.

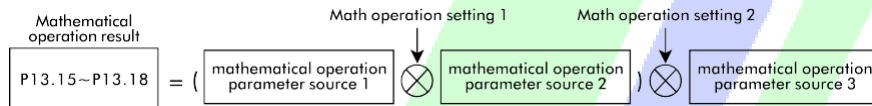


Figure 6-15-2 mathematical operation

For example: P17.26 = 1201, P17.27 = 1202, P17.28 = 1203, P17.29 = 1, P17.30 = 3
When P12.01 = 2.000, P12.02 = 3.000, P12.03 = 5.000,
the calculation result P13.15 = (2.000 + 3.000) * 5.000 = 25.000

- Edge signal .

For example: When the output frequency reaches 50Hz, the relay pulls in. When the output frequency is less than 50Hz, the relay keeps pull in. Only when the inverter stops, the relay will disconnect.

Parameter number	Function	Setting Value
P03.00	Start command source	3
P03.30	Y1 terminal source	1341
P12.00	Free parameter 1	50
P12.01	Free parameter 2	1
P12.02	Free parameter 3	0.001
P16.00	Comparator 1 input parameter	1020
P16.01	Comparator 1 comparison parameter	1200
P16.02	Comparator 1 configuration	4

P16.04	Comparator 2 input parameter	1315
P16.05	Comparator 2 comparison parameter	1202
P16.06	Comparator 2 configuration	4
P16.36	Logic unit 1 parameter selection 1	1070
P16.37	Logic unit 1 input bit selection 1	0
P16.38	Logic unit 1 parameter selection 2	1201
P16.39	Logic unit 1 input bit selection 2	0
P16.42	Logical unit 1 configuration 1	5
P17.26	Mathematical operation 1 parameter source 1	1340
P17.27	Mathematical operation 1 parameter source 2	1350
P17.28	Mathematical operation 1 parameter source 3	1201
P17.29	Math operation 1 operation setting 1	15
P17.30	Math operation 1 operation setting 2	15

6.16 Group 18 parameters: timing control

Parameter number	Function	Setting range	Unit	Factory Value
P18.00	Timer 1 clock source	0:1ms; 1:10ms; 2:100ms; 3:1s; 6:1h; 7:1day; 11~26: from S1 ~ S16, when S terminal is the rising edge, count plus 1; 27~42: from the 0~15 bits of virtual terminal P01.30, when the corresponding bit is the rising edge, count plus 1; 51~76: from S1~S16, when S terminal is the falling edge, count plus 1; 77~92: from the 0~15 bits of virtual terminal P01.30, when the corresponding bit is the falling edge, count plus 1; 200~3799: address		0
P18.01	Timer 1 working mode	0: Stop at the end of a single run; 1 ~ 16: Set the start of the next cycle At the end of a single operation, the cycle starts automatically from the setting		0
P18.02	Timer 1 control command	bit0: Enable; bit1: Start counting; bit2: Pause counting; bit3: Clear counting		0
P18.03	Timer 1 set value	-1~4294967295		-1
P18.04	Timer 1 phase 1 time	0~4294967295		0
P18.05	Timer 1 phase 2 time	0~4294967295		0
P18.06	Timer 1 phase 3 time	0~4294967295		0
P18.07	Timer 1 phase 4 time	0~4294967295		0
P18.08	Timer 1 phase 5 time	0~4294967295		0
P18.09	Timer 1 phase 6 time	0~4294967295		0
P18.10	Timer 1 phase 7 time	0~4294967295		0
P18.11	Timer 1 phase 8 time	0~4294967295		0
P18.12	Timer 1 phase 9 time	0~4294967295		0
P18.13	Timer 1 phase 10 time	0~4294967295		0
P18.14	Timer 1 phase 11 time	0~4294967295		0
P18.15	Timer 1 phase 12 time	0~4294967295		0
P18.16	Timer 1 phase 13 time	0~4294967295		0
P18.17	Timer 1 phase 14 time	0~4294967295		0

P18.18	Timer 1 phase 15 time	0~4294967295	0
P18.19	Timer 1 phase 16 time	0~4294967295	0
P18.20	Timer 2 clock source	0: 1ms; 1: 10ms; 2: 100ms; 3: 1s; 6: 1h; 7: 1day; 11~26: from S1 ~ S16, when S terminal is the rising edge, count plus 1; 27~42: from the 0~15 bits of virtual terminal P01.30, when the corresponding bit is the rising edge, count plus 1; 51~76: from S1~S16 when S terminal is the falling edge, count plus 1; 77~92: from the 0~15 bits of virtual terminal P01.30, when the corresponding bit is the falling edge, count plus 1; 200~3799: address	0
P18.21	Timer 2 working mode	0: Stop at the end of a single run; 1 ~ 16: Set the start of the next cycle At the end of a single operation, the cycle starts automatically from the setting	0
P18.22	Timer 2 control command	bit0: Enable; bit1: Start counting; bit2: Pause counting; bit3: Clear counting	0
P18.23	Timer 2 set value	-1~4294967295	-1
P18.24	Timer 2 phase 1 time	0~4294967295	0
P18.25	Timer 2 phase 2 time	0~4294967295	0
P18.26	Timer 2 phase 3 time	0~4294967295	0
P18.27	Timer 2 phase 4 time	0~4294967295	0
P18.28	Timer 2 phase 5 time	0~4294967295	0
P18.29	Timer 2 phase 6 time	0~4294967295	0
P18.30	Timer 2 phase 7 time	0~4294967295	0
P18.31	Timer 2 phase 8 time	0~4294967295	0
P18.32	Timer 2 phase 9 time	0~4294967295	0
P18.33	Timer 2 phase 10 time	0~4294967295	0
P18.34	Timer 2 phase 11 time	0~4294967295	0
P18.35	Timer 2 phase 12 time	0~4294967295	0
P18.36	Timer 2 phase 13 time	0~4294967295	0
P18.37	Timer 2 phase 14 time	0~4294967295	0
P18.38	Timer 2 phase 15 time	0~4294967295	0
P18.39	Timer 2 phase 16 time	0~4294967295	0

Function: Set timer parameters

- Timer clock source: Set the timer clock source.
Set to 0 ~ 199, this setting is to select a specific time interval,
Set to 200 ~ 3799, this setting is the address.
The address is the selected parameter number, and the actual value is determined by the current value of the selected parameter number.
- Timer working mode: set to 0, it will not cycle after the end of a single run; set to N ($1 \leq N \leq 16$), after the end of a single run, it will automatically start to cycle from N until the timer is not enabled
- Timer control commands: bit0: enable; bit1: start counting, rising edge signal enable; bit2: pause counting; bit3: clear counting.
- Timer setting value: Set the timer count value.
- Timer phase time: set the timer duration of each phase of the timer.

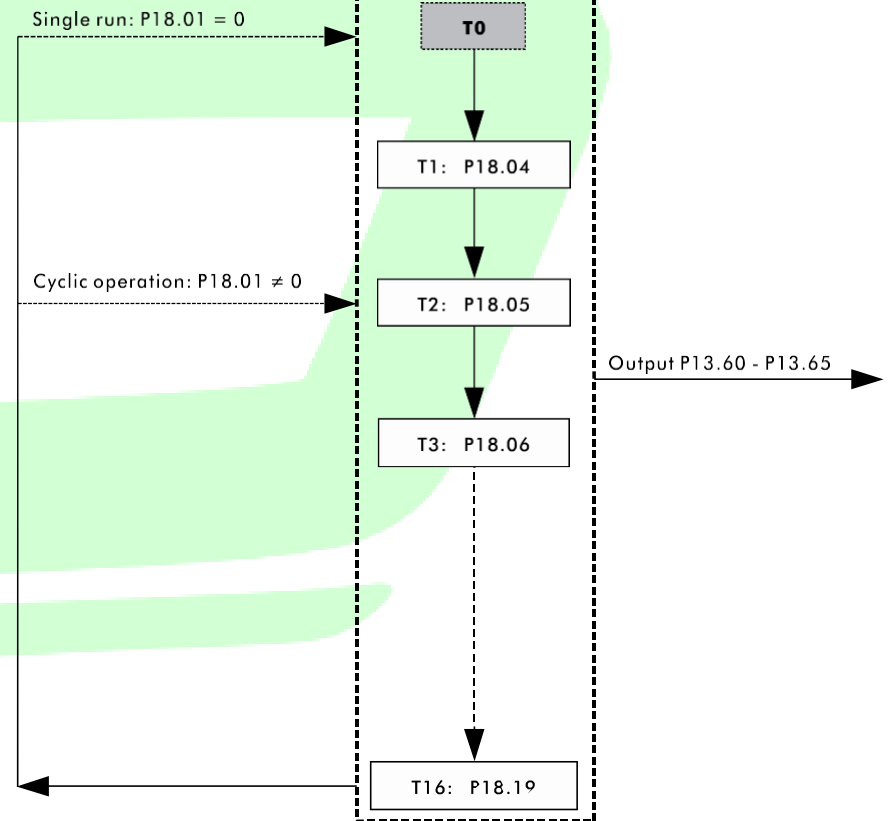


Figure 6-16-1 Timing control

CHAPTER 7 - The examples for macro of application

7.1 Multi-speed control operation

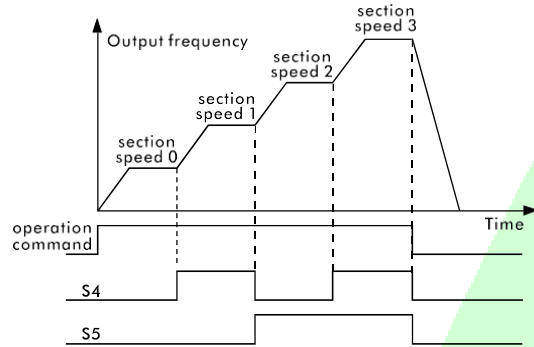


Figure 7-1 Multi-speed selection

- Example: The external terminals S4 and S5 control the four-stage speed switching, and the multi-stage speeds are set to 10HZ, 15HZ, 20HZ, 25HZ respectively.
Step 1: Set P01.20 to 31, select multi-stage speed macro;
Step 2: Set P03.00 to 3, select external terminal S1 to control start.

7.2 The internal control with eight periods of speed

- Example: timing control of eight-stage speed switching, setting multi-stage speeds as 5HZ, 10HZ, 15HZ, 20HZ, 25HZ, 30HZ, 35HZ, 40HZ; external terminal S4 controls multi-stage speed enable, S1 controls motor running.
Step 1: Set P01.20 to 68, select the internal control eight-stage speed macro;
Step 2: Set P03.00 to 3, select external terminal S1 to control start.
- Example: Timing control of eight-stage speed switching, setting multi-stage speeds as 5HZ, 10HZ, 15HZ, 20HZ, 25HZ, 30HZ, 35HZ, 40HZ; external terminal S4 controls multi-stage speed enable and motor start.
Step 1: Set P01.20 to 68, select the internal control eight-stage speed macro;
Step 2: Set P03.00 to 6, select external terminal S4 to control start.

7.3 PID control operation

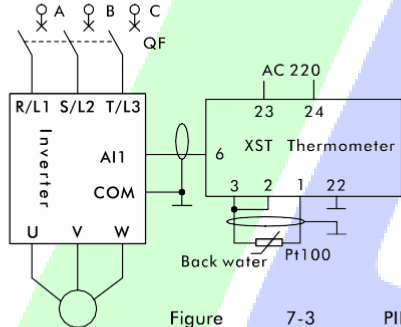


Figure 7-3 PID wiring

- Example: PID control operation, set value is multi-step speed, feedback uses AI1, external terminal S1 controls start and stop.
Step 1: Set P01.20 to 32, select PID macro 1;
Step 2: Set P01.39 to 0, the command source setting selects single command source mode;
Step 3: Set P03.00 to 3 and select S1 as the source of the start command.
- Example: PID control operation, set value is AI2, feedback uses AI1, external terminal S1 controls start and stop.
Step 1: Set P01.20 to 33, select PID Macro 2;
Step 2: Set P01.39 to 0, the command source setting selects single command source mode;
Step 3: Set P03.00 to 3 and select S1 as the source of the start command.

CHAPTER 8 - Application Macro

No.	Name	S1	S2	S3	S4	S5	Y1	Y2	Y3	AI1	AI2	AO1	AO2	Keyboard	Communication
0~9	User Macro 1~10	x	x	x	x	x	x	x	x	x	x	x	x	x	x
10	Comprehensive Macro 1	start up	Reverse start	JOG	Segment speed selection	Segment speed selection	Running	Fault	Alarm	Set value	x	Output frequency	Output current	Start and stop	Start/stop/setting value
11	Comprehensive Macro 2	start up	Forward and reverse	JOG	Segment speed selection	Segment speed selection	Running	Fault	Alarm	Set value	x	Output frequency	Output current	Start and stop	Start/stop/setting value
12	Comprehensive Macro 3	start up	Stop	Forward reverse	Segment speed selection	Segment speed selection	Running	Fault	Alarm	Set value	x	Output frequency	Output current	Start and stop	Start/stop/setting value
13	Comprehensive Macro 4	start up	Stop	JOG	x	x	Running	Fault	Alarm	Feedback value	Set value	Output frequency	Output current	Start and stop	Start and stop
20	1-line command macro	start up	x	x	x	x	x	x	x	x	x	x	x	Start and stop	Start/stop/setting value
21	2-line command macro 1	start up	Reverse start	x	x	x	x	x	x	x	x	x	x	Start and stop	Start/stop/setting value
22	2-line command macro 2	start up	Forward and reverse	x	x	x	x	x	x	x	x	x	x	Start and stop	Start/stop/setting value
23	3-line command macro 1	start up	Reverse start	Stop	x	x	x	x	x	x	x	x	x	Start and stop	Start/stop/setting value
24	3-line command macro 2	start up	Forward and reverse	Stop	x	x	x	x	x	x	x	x	x	Start and stop	Start/stop/setting value
30	Main and auxiliary settings	x	x	x	x	x	x	x	x	Set value	x	x	x	x	Set value
31	Multi-stage speed macro	x	x	x	Segment speed selection	Segment speed selection	x	x	x	x	x	x	x	x	x
32	PID Macro 1	x	x	x	x	x	x	x	x	Feedback value	x	x	x	x	x
33	PID Macro 2	x	x	x	x	x	x	x	x	Feedback value	Set value	x	x	x	x
50	Speed Start macro	x	x	x	x	x	x	x	x	x	x	x	x	x	x
51	DC injection macro	x	x	x	x	x	x	x	x	x	x	x	x	x	x
52	Free parking macro	x	x	x	x	x	x	x	x	x	x	x	x	x	x
53	DC brake macro	x	x	x	x	x	x	x	x	x	x	x	x	x	x
54	Emergency deceleration macro	x	x	x	x	x	x	x	x	x	x	x	x	x	x
55	Emergency stop macro	x	x	x	x	x	x	x	x	x	x	x	x	x	x
60	Console switch	x	x	x	Segment speed selection	Segment speed selection	x	x	x	x	x	x	x	Set value	x
61	Emergency stop macro	x	x	x	x	x	Frequency reach	x	x	x	x	x	x	x	x
62	FDT macro	x	x	x	x	x	Frequency reach range	x	x	x	x	x	x	x	x
63	Acceleration and deceleration switching	x	x	x	x	x	x	x	x	x	x	x	x	x	x
64	Brake signal macro	x	x	x	x	x	Frequency too low	x	x	x	x	x	x	x	x
65	Release signal macro	x	x	x	x	x	Frequency reached and the current is too large	x	x	x	x	x	x	x	x
66	Break detection macro	x	x	x	x	x	Frequency reached and the current is too small	x	x	x	x	x	x	x	x
67	Signal loss macro	x	x	x	x	x	Detection signal is less than the threshold	x	x	x	x	x	x	x	x
68	Internal control eight-stage speed macro	x	x	x	Segment speed selection	x	x	x	x	x	x	x	x	x	x

Note: restore factory value before changing application macro

x x x x x



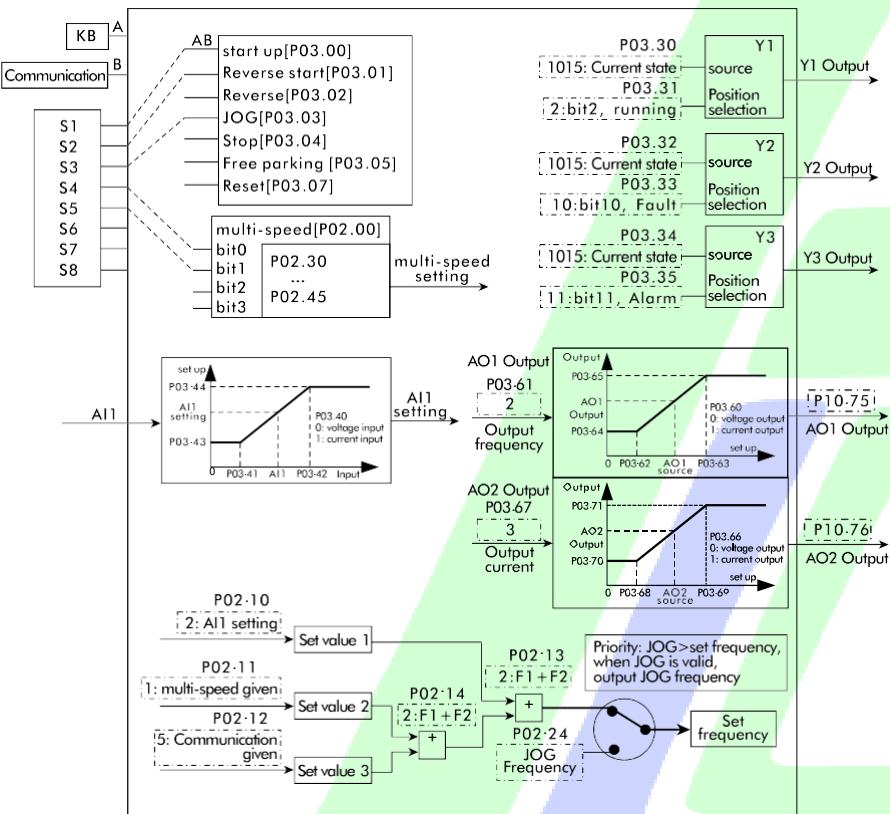
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x x x x x x x x x x x x x x

8.1 Comprehensive Macro 1

Comprehensive Macro 1 (P01.20= 10)

Multi-command source, multi-set value given mode, analog and digital output.

- Set frequency: main frequency AI1 + auxiliary frequency (multi-speed + communication).
- If JOG command is valid, run JOG frequency.
- Command source: start and stop, reverse start, JOG command.
- Use analog quantity AI1, AO1, AO2, external terminals S1 ~ S5.



P03.40	AI1 signal type	0	AI1 signal type is voltage signal
P03.41	AI1 low-end voltage (current)	0.050	0.050V corresponds to 0Hz
P03.42	AI1 high-end voltage (current)	10.000	10.000V corresponds to 50Hz
P03.43	AI1 low-end setting	0.000	AI1 low-end setting
P03.44	AI1 high-end setting	100.000	AI1 high-end setting
P03.60	AO1 signal type	0	AO1 signal type is voltage signal
P03.62	AO1 low-end setting	0.000	AO1 low-end setting
P03.63	AO1 high-end setting	50.000	AO1 high-end setting
P03.64	AO1 low-end voltage (current)	0.000	0.000V corresponds to 0Hz
P03.65	AO1 high-end voltage (current)	10.000	10.000V corresponds to 50Hz
P03.66	AO2 signal type	0	AO2 signal type is voltage signal
P03.68	AO2 low-end setting	0.000	AO2 low-end setting
P03.69	AO2 high-end setting	50.000	AO2 high-end setting
P03.70	AO2 low-end voltage (current)	0.000	0.000V corresponds to 0Hz
P03.71	AO2 high-end voltage (current)	10.000	10.000V corresponds to 50Hz
P01.39	Command mode	1	Multi-command source
P02.00	Multi-speed source	11000	Multi-speed selection for external terminals S4, S5
P02.10	Set value source 1	2	Set value source 1 select AI1
P02.11	Set value source 2	1	Set value source 2 select multi-speed
P02.12	Set value source 3	5	Set value source 3 is communication
P02.13	Set channel 1 relationship selection	2	Set the channel 1 relationship selection to F1 + F2
P02.14	Set channel 2 relationship selection	2	Set the channel 2 relationship selection to F1 + F2
P03.00	Start command source	7	Start command to select keyboard, communication, external terminal S1
P03.01	Reverse start command source	8	Reverse start command is selected as external terminal S2
P03.03	JOG command source	16	JOG command is selected as external terminal S3
P03.30	Y1 terminal source	3	Relay 1 comes from the current state is running
P03.32	Y2 terminal source	4	Relay 2 comes from current state fault
P03.34	Y3 terminal source	5	Relay 3 comes from the current state alarm

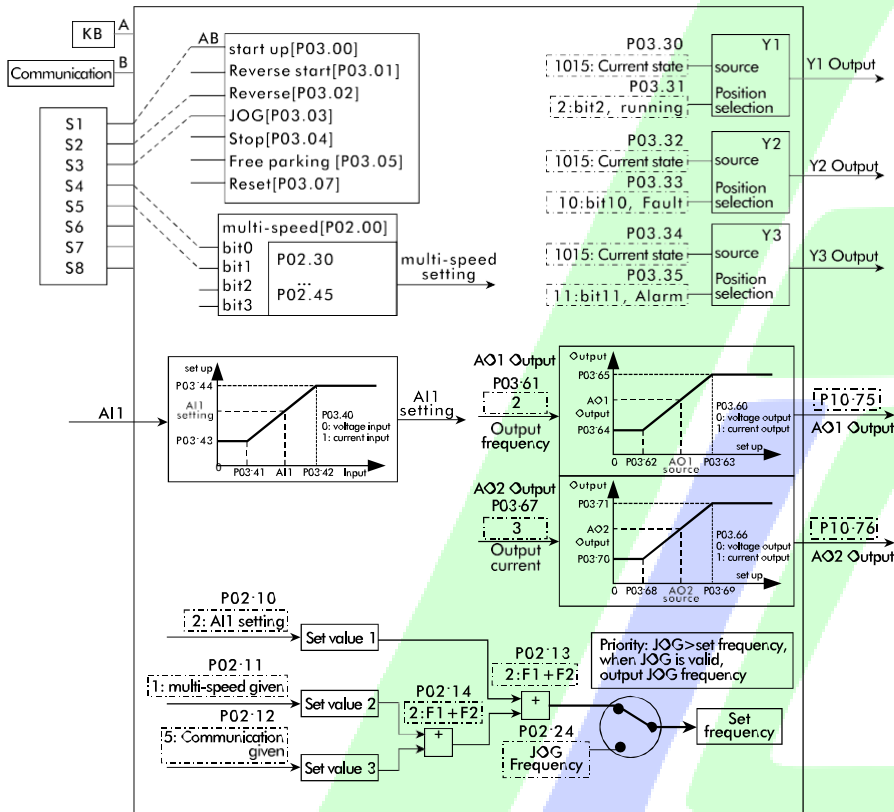
Parameter No.	Function	Setting value	Note
P02.24	JOG Frequency	10	JOG frequency is set to 5Hz
P02.30	Multi-speed 0	20	Auxiliary frequency multi-speed 0 is set to 10Hz
P02.31	Multi-speed 1	30	Auxiliary frequency multi-speed 1 is set to 15Hz
P02.32	Multi-speed 2	40	Auxiliary frequency multi-speed 2 is set to 20Hz
P02.33	Multi-speed 3	50	Auxiliary frequency multi-speed 3 is set to 25Hz
P03.61	AO1 signal source	2	Output frequency
P03.67	AO2 signal source	3	Output current

8.2 Comprehensive Macro 2

Comprehensive Macro 2 (P01.20= 11)

Multi-command source, the mode how multi-set value is given, analog and digital output.

- Set frequency: The main frequency AI1 + auxiliary frequency (multi-stage speed + communication) is given.
- If JOG command is valid, run JOG frequency.
- Command source: start and stop, forward and reverse, JOG command.
- Use analog quantity AI1, AO1, AO2, external terminals S1 ~ S5.



P03.61	AO1 signal source	2	Output frequency
P03.67	AO2 signal source	3	Output current
P03.40	AI1 signal type	0	AI1 signal type is voltage signal
P03.41	AI1 low-end voltage (current)	0.050	0.050V corresponds to 0Hz
P03.42	AI1 high-end voltage (current)	10.000	10.000V corresponds to 50Hz
P03.43	AI1 low-end setting	0.000	AI1 low-end setting
P03.44	AI1 high-end setting	100.000	AI1 high-end setting
P03.60	AO1 signal type	0	AO1 signal type is voltage signal
P03.62	AO1 low-end setting	0.000	AO1 low-end setting
P03.63	AO1 high-end setting	50.000	AO1 high-end setting
P03.64	AO1 low-end voltage (current)	0.000	0.000V corresponds to 0Hz
P03.65	AO1 high-end voltage (current)	10.000	10.000V corresponds to 50Hz
P03.66	AO2 signal type	0	AO2 signal type is voltage signal
P03.68	AO2 low-end setting	0.000	AO2 low-end setting
P03.69	AO2 high-end setting	50.000	AO2 high-end setting
P03.70	AO2 low-end voltage (current)	0.000	0.000V corresponds to 0Hz
P03.71	AO2 high-end voltage (current)	10.000	10.000V corresponds to 50Hz
P01.39	Command mode	1	Multi-command source mode
P02.00	Multi-speed source	11000	The multi-stage speed is selected as S4, S5
P02.10	Set value source 1	2	Set value source 1 select AI1
P02.11	Set value source 2	1	Set value source 2 select multi-speed
P02.12	Set value source 3	5	Set value source 3 is communication
P02.13	Set channel 1 relationship selection	2	Set the channel 1 relationship selection to F1 + F2
P02.14	Set channel 2 relationship selection	2	Set the channel 2 relationship selection to F1 + F2
P03.00	Start command source	7	Start command to select keyboard, communication, external terminal S1
P03.02	Reverse command source	8	Reverse command is selected as external terminal S3
P03.03	JOG command source	16	JOG command is selected as external terminal S3
P03.30	Y1 terminal source	3	Relay 1 comes from the current state is running
P03.32	Y2 terminal source	4	Relay 2 comes from current state fault
P03.34	Y3 terminal source	5	Relay 3 comes from the current state alarm

Parameter No.	Function	Setting value	Note
P02.24	JOG Frequency	10	JOG frequency is set to 5Hz
P02.30	Multi-speed 0	20	Auxiliary frequency multi-speed 0 is set to 10Hz
P02.31	Multi-speed 1	30	Auxiliary frequency multi-speed 1 is set to 15Hz
P02.32	Multi-speed 2	40	Auxiliary frequency multi-speed 2 is set to 20Hz
P02.33	Multi-speed 3	50	Auxiliary frequency multi-speed 3 is set to 25Hz

8.3 Comprehensive Macro 3

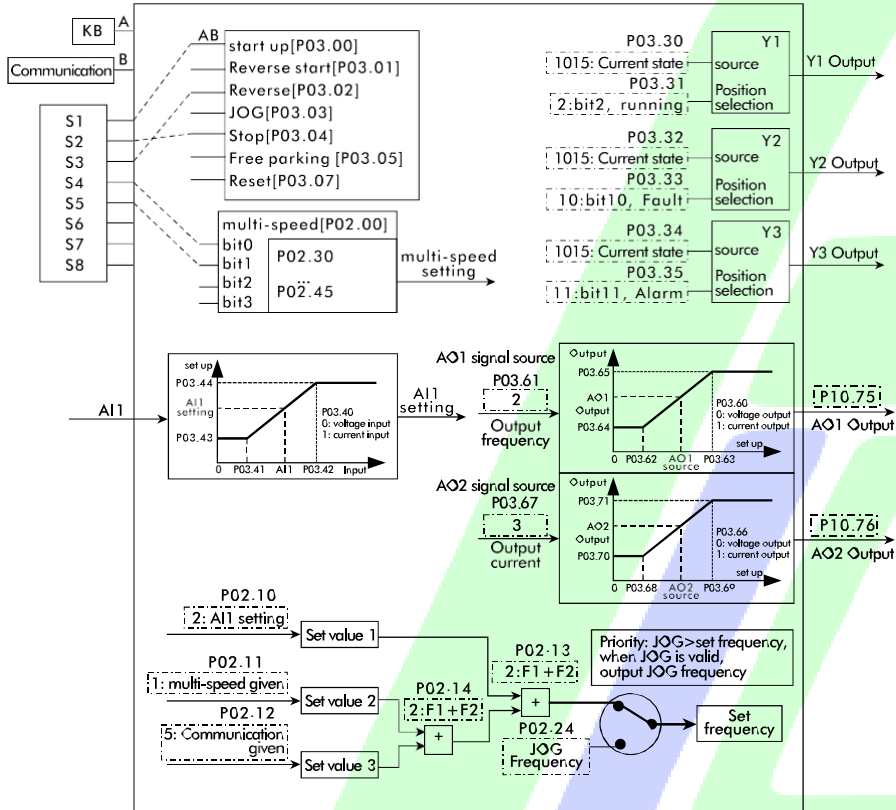
Comprehensive Macro 3 (P01.20=12)

Multi-command source, multi-set value given mode, analog and digital output.

•Set frequency: The main frequency AI1 + auxiliary frequency (multi-stage speed + communication) is given.

•Command source: start stop, stop, forward and reverse.

•Use analog quantity AI1, AO1, AO2, external terminals S1 ~ S5.



P03.61	AO1 signal source	2	Output frequency
P03.67	AO2 signal source	3	Output current
P03.40	AI1 signal type	0	AI1 signal type is voltage signal
P03.41	AI1 low-end voltage (current)	0.050	0.050V corresponds to 0Hz
P03.42	AI1 high-end voltage (current)	10.000	10.000V corresponds to 50Hz
P03.43	AI1 low-end setting	0.000	AI1 low-end setting
P03.44	AI1 high-end setting	100.000	AI1 high-end setting
P03.60	AO1 signal type	0	AO1 signal type is voltage signal
P03.62	AO1 low-end setting	0.000	AO1 low-end setting
P03.63	AO1 high-end setting	50.000	AO1 high-end setting
P03.64	AO1 low-end voltage (current)	0.000	0.000V corresponds to 0Hz
P03.65	AO1 high-end voltage (current)	10.000	10.000V corresponds to 50Hz
P03.66	AO2 signal type	0	AO2 signal type is voltage signal
P03.68	AO2 low-end setting	0.000	AO2 low-end setting
P03.69	AO2 high-end setting	50.000	AO2 high-end setting
P03.70	AO2 low-end voltage (current)	0.000	0.000V corresponds to 0Hz
P03.71	AO2 high-end voltage (current)	10.000	10.000V corresponds to 50Hz
P01.39	Command mode	1	Multi-command source mode
P02.00	Multi-speed source	11000	Multi-speed selection for external terminals S4, S5
P02.10	Set value source 1	2	Set value source 1 select AI1
P02.11	Set value source 2	1	Set value source 2 select multi-speed
P02.12	Set value source 3	5	Set value source 3 select communication
P02.13	Set channel 1 relationship selection	2	Set the channel 1 relationship selection to F1 + F2
P02.14	Set channel 2 relationship selection	2	Set the channel 2 relationship selection to F1 + F2
P03.00	Start command source	7	Start command to select keyboard, communication, external terminal S1
P03.04	Stop command source	8	Stop command is selected as external terminal S2
P03.02	Reverse command source	16	Reverse command is selected as external terminal S3
P03.30	Y1 terminal source	3	Relay 1 comes from the current state is running
P03.32	Y2 terminal source	4	Relay 2 comes from current state fault
P03.34	Y3 terminal source	5	Relay 3 comes from the current state alarm

Parameter No.	Function	Setting value	Note
P02.30	Multi-speed 0	20	Auxiliary frequency multi-speed 0 is set to 10Hz
P02.31	Multi-speed 1	30	Auxiliary frequency multi-speed 1 is set to 15Hz
P02.32	Multi-speed 2	40	Auxiliary frequency multi-speed 2 is set to 20Hz
P02.33	Multi-speed 3	50	Auxiliary frequency multi-speed 2 is set to 25Hz

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8.4 Comprehensive Macro 4

Comprehensive Macro 4(P01.20=13)

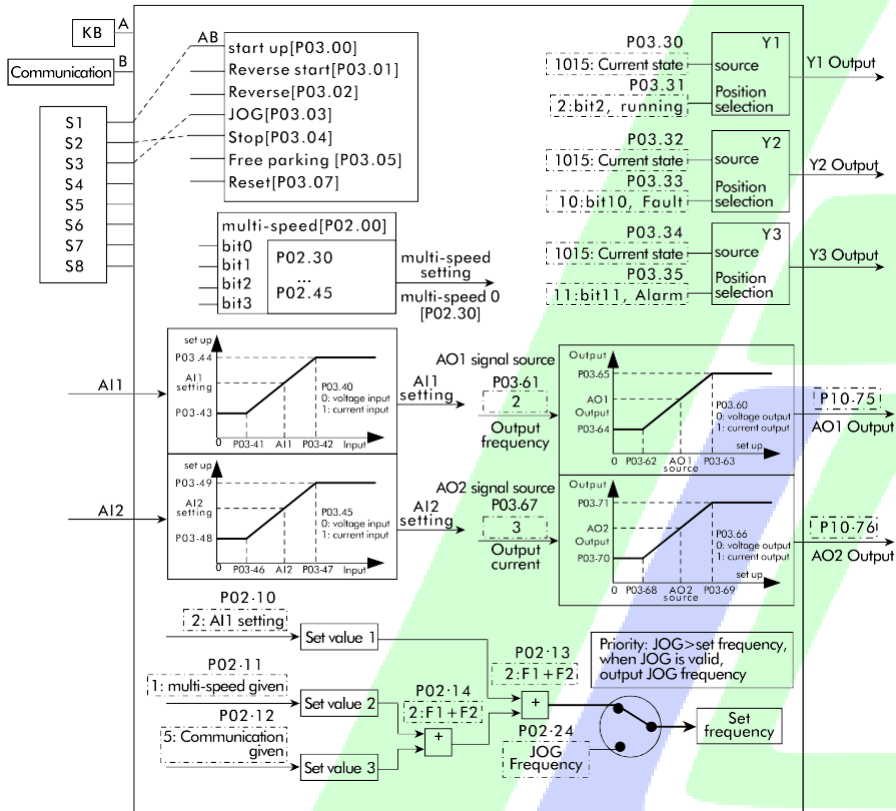
Multi-command source, PID main and auxiliary setting value given mode, analog and digital output.

*Set frequency: The main frequency AI2 + auxiliary frequency PID is given. PID setting: multi-step speed, PID feedback: AI1.

*If JOG command is valid, run JOG frequency.

*Command source: start stop, stop, JOG command.

*Use analog AI1, AI2, AO1, AO2, external terminals S1, S2.



P03.61	AO1 signal source	2	Output frequency
P03.67	AO2 signal source	3	Output current
P03.40	AI1 signal type	0	AI1 signal type is voltage signal
P03.41	AI1 low-end voltage (current)	0.050	0.050V corresponds to 0Hz
P03.42	AI1 high-end voltage (current)	10.000	10.000V corresponds to 50Hz
P03.43	AI1 low-end setting	0.000	AI1 low-end setting
P03.44	AI1 high-end setting	100.000	AI1 high-end setting
P03.45	AI2 signal type	0	AI2 signal type is voltage signal
P03.46	AI2 low-end voltage (current)	0.050	0.050V corresponds to 0Hz
P03.47	AI2 high-end voltage (current)	10.000	10.000V corresponds to 50Hz
P03.48	AI2 low-end setting	0.000	AI2 low-end setting
P03.49	AI2 high-end setting	50.000	AI2 high-end setting
P03.60	AO1 signal type	0	AO1 signal type is voltage signal
P03.62	AO1 low-end setting	0.000	AO1 low-end setting
P03.63	AO1 high-end setting	50.000	AO1 high-end setting
P03.64	AO1 low-end voltage (current)	0.000	0.000V corresponds to 0Hz
P03.65	AO1 high-end voltage (current)	10.000	10.000V corresponds to 50Hz
P03.66	AO2 signal type	0	AO2 signal type is voltage signal
P03.68	AO2 low-end setting	0.000	AO2 low-end setting
P03.69	AO2 high-end setting	50.000	AO2 high-end setting
P03.70	AO2 low-end voltage (current)	0.000	0.000V corresponds to 0Hz
P03.71	AO2 high-end voltage (current)	10.000	10.000V corresponds to 50Hz
P01.39	Command mode	1	Multi-command source mode
P02.00	Multi-speed source	0	Multi-speed selection without external terminals
P02.10	Set value source 1	3	Set value source 1 select AI2
P02.11	Set value source 2	1	Set value source 2 select multi-speed
P02.12	Set value source 3	2	Set value source 3 select AI1
P02.13	Set channel 1 relationship selection	2	Set the channel 1 relationship selection to F1 + F2
P02.14	Set channel 2 relationship selection	8	Set the channel 2 relationship selection to PID
P03.00	Start command source	7	Start command to select keyboard, communication, external terminal S1
P03.04	Stop command source	8	Stop command is selected as external terminal S2
P03.03	JOG command source	16	JOG command is selected as external terminal S3
P03.30	Y1 terminal source	3	Relay 1 comes from the current state is running
P03.32	Y2 terminal source	4	Relay 2 comes from current state fault
P03.34	Y3 terminal source	5	Relay 3 comes from the current state alarm

Parameter No.	Function	Setting value	Note
P02.24	JOG Frequency	10	JOG frequency is set to 5Hz
P02.30	Multi-speed 0	20	PID setting is set to 10HZ

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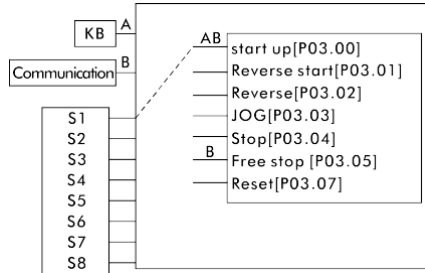
8.5 1-line command macro

1-line command macro (P01.20=20)

S1 controls start and stop.

•The command source include “start, stop and free stop”.

•Use external terminal S1.



Parameter No.	Function	Setting value	Note
P02.91	Communication commands	0	0 is no command; 1 is start command; 32 is free stop
P01.39	Command mode	1	Multi-command source mode
P03.00	Start command source	7	Start command selection is keyboard, communication, external terminal S1
P03.04	Stop command source	0	No effect
P03.05	Free stop command source	2	Free stop command selection is communication

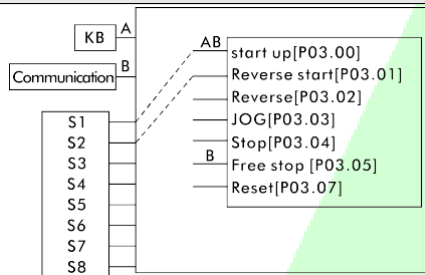
8.6 2-line command macro 1

2-line command macro 1 (P01.20=21)

S1 controls forward, S2 controls reverse.

•The command sources include “start stop, reverse start and free stop”.

•Use external terminals S1 ~ S2.



Parameter No.	Function	Setting value	Note
P01.39	Command mode	1	Multi-command source mode
P03.00	Start command source	7	Start command selection is keyboard, communication, external terminal S1
P03.01	Reverse start command source	8	Reverse start command selection is external terminal S2
P03.04	Stop command source	0	No effect
P03.05	Free stop command source	2	Free stop command selection is communication

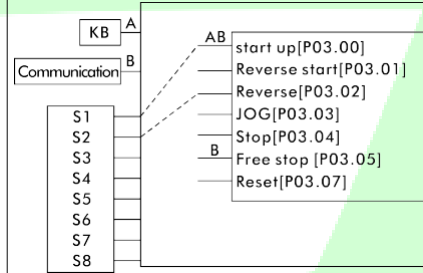
8.7 2-line command macro 2

2-line command macro 2 (P01.20=22)

S1 controls start and stop, S2 controls direction.

•The command sources include “start stop, forward reverse and free stop”.

•Use external terminals S1 ~ S2.



Parameter No.	Function	Setting value	Note
P01.39	Command mode	1	Multi-command source mode
P03.00	Start command source	7	Start command selection is keyboard, communication, external terminal S1
P03.02	Reverse command source	8	Reverse command selection is external terminal S2
P03.04	Stop command source	0	No effect
P03.05	Free stop command source	2	Free stop command selection is communication

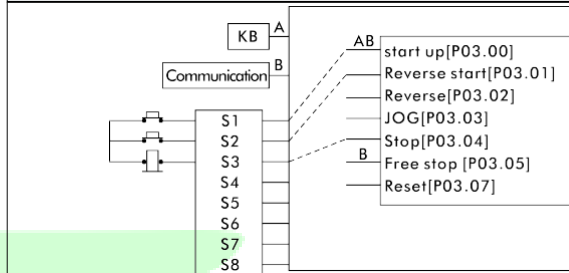
8.8 3-line command macro 1

3-line command macro 1 (P01.20=23)

Three-wire system.

•The command sources include “start, reverse start, stop, free stop”.

•Use external terminals S1 ~ S3.



Parameter No.	Function	Setting value	Note
P01.39	Command mode	1	Multi-command source mode
P03.00	Start command source	7	Start command selection is keyboard, communication, external terminal S1
P03.01	Reverse start command source	8	Reverse start command is selected as external terminal S2
P03.04	Source of stop command	16	Stop command is selected as terminal S3
P03.05	Free stop command source	2	Free stop command selection is communication
P03.20	S1 type	2	Trigger on rising edge
P03.21	S2 type	2	Trigger on rising edge
P03.22	S3 type	3	Trigger on falling edge

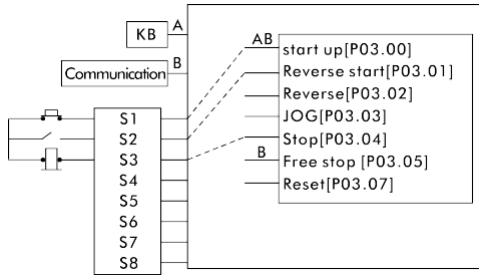
8.9 3-line command macro 2

3-line command macro 2 (P01.20=24)

Three-wire system.

•The command sources include start, forward and reverse, stop and free stop.

•Use external terminals S1 ~ S3.



Parameter No.	Function	Setting value	Note
P01.39	Command mode	1	Multi-command source mode
P03.00	Start command source	7	Start command selection is keyboard, communication, external terminal S1
P03.02	Reverse start command source	8	Reverse start command is selected as external terminal S2
P03.04	Stop command source	16	Stop command is selected as terminal S3
P03.05	Free stop command source	2	Free stop command selection is communication
P03.20	S1 type	2	Trigger on rising edge
P03.22	S3 type	3	Trigger on falling edge

8.10 Main and auxiliary settings

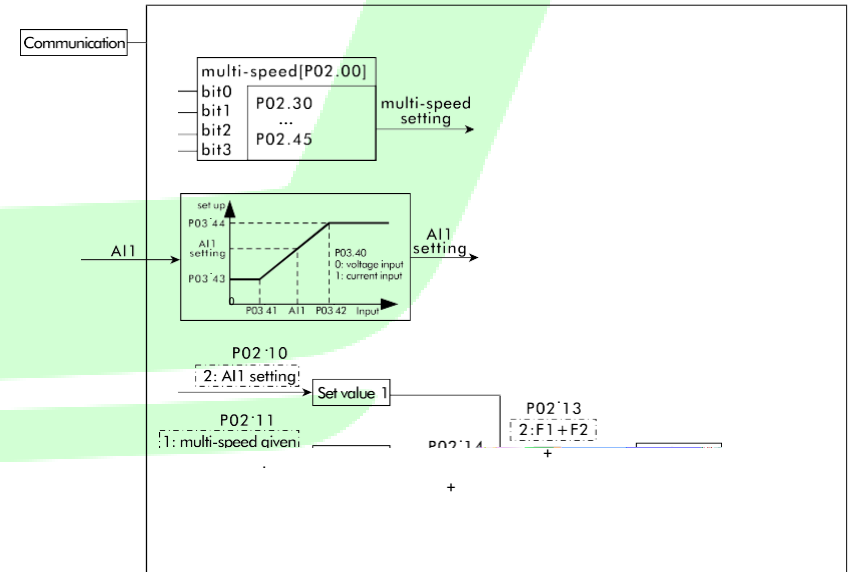
Main and auxiliary settings (P01.20=30)

Various setting values are added and given.

•The set frequency is given by the main frequency AI1 + auxiliary frequency (multi-stage speed + communication).

•No command source is given.

•No external terminals are used.



Parameter No.	Function	Setting value	Note
P02.30	Multi-speed 0	20	Auxiliary frequency multi-speed 0 is set to 10Hz
P03.40	AI1 signal type	0	AI1 signal type is voltage signal
P03.41	AI1 low-end voltage (current)	0.050	0.050V corresponds to 0Hz
P03.42	AI1 high-end voltage (current)	10.000	10.000V corresponds to 50Hz
P03.43	AI1 low-end setting	0.000	AI1 low-end setting
P03.44	AI1 high-end setting	100.000	AI1 high-end setting
P02.10	Set value source 1	2	Set value source 1 is AI1
P02.11	Set value source 2	1	Set value source 2 is multi-speed
P02.12	Set value source 3	5	Set value source 3 is communication
P02.13	Set channel 1 relationship selection	2	Set the channel 1 relationship selection to F1 + F2
P02.14	Set channel 2 relationship selection	2	Set the channel 2 relationship selection to F1 + F2
P02.00	Multi-speed source	0	Multi-speed selection without external terminals

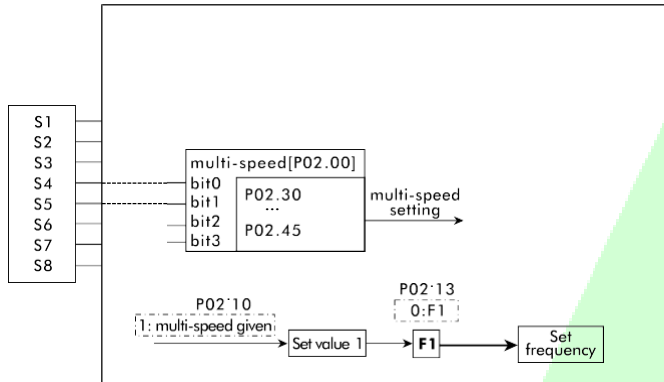
8.11 Multi-stage speed macro

Multi-stage speed macro (P01.20=31)

Externally controlled four-speed.

•The set frequency is given by multi-step speed.

•Use external terminals S4 ~ S5.



Parameter No.	Function	Setting value	Note
P02.30	Multi-speed 0	20	Multi-speed 0 is set to 10Hz
P02.31	Multi-speed 1	30	Multi-speed 1 is set to 15Hz
P02.32	Multi-speed 2	40	Multi-speed 2 is set to 20Hz
P02.33	Multi-speed 3	50	Multi-speed 3 is set to 25Hz
P02.10	Set value source 1	1	Set value source 1 is multi-speed
P02.13	Set channel 1 relationship selection	1	Set the channel 1 relationship selection to F2
P02.00	Multi-speed source	11000	Multi-speed selection for external terminals are S4, S5

Multi speed macro

8.12 PID Macro 1

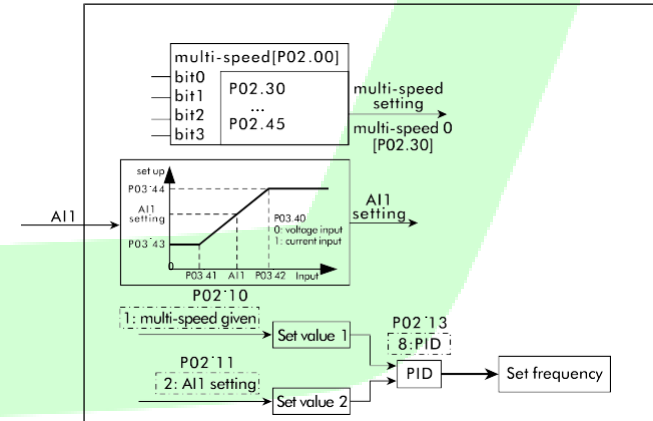
PID Macro 1 (P01.20=32)

PID.

•PID setting value: Multi-stage speed.

•PID feedback: AI1.

Multi-speed 0 — Set value
AI1 — Feedback value — PID — PID Output

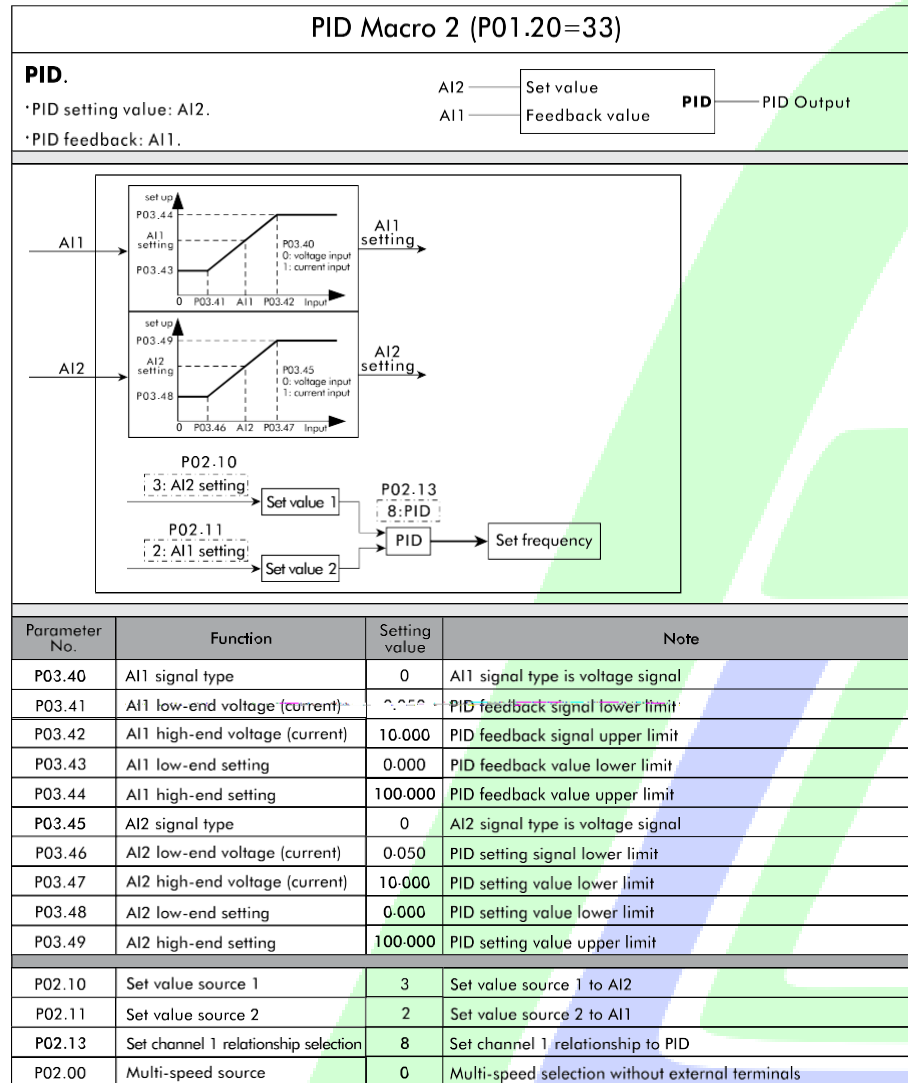


Parameter No.	Function	Setting value	Note
P02.30	Multi-speed 0	20	PID setting value
P03.40	AI1 signal type	0	AI1 signal type is voltage signal
P03.41	AI1 low-end voltage (current)	0'050	PID feedback signal lower limit
P03.42	AI1 high-end voltage (current)	10'000	PID feedback signal upper limit
P03.43	AI1 low-end setting	0'000	PID feedback value lower limit
P03.44	AI1 high-end setting	100'000	PID feedback value upper limit
P02.10	Set value source 1	1	Set value source 1 is multi-speed
P02.11	Set value source 2	2	Set value source 2 is AI1
P02.13	Set channel 1 relationship selection	8	Set channel 1 relationship is PID
P02.00	Multi-speed source	0	Multi-speed selection without external terminals

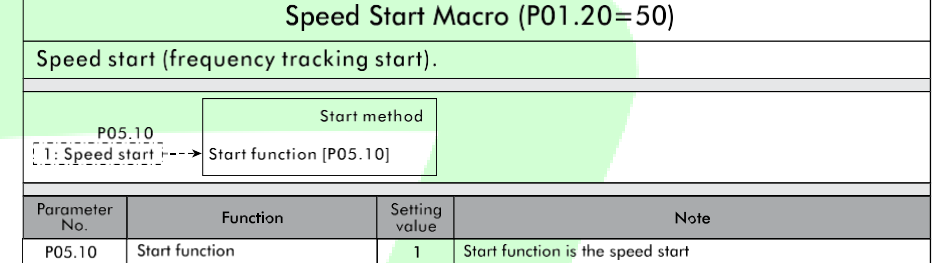
PID macro 1

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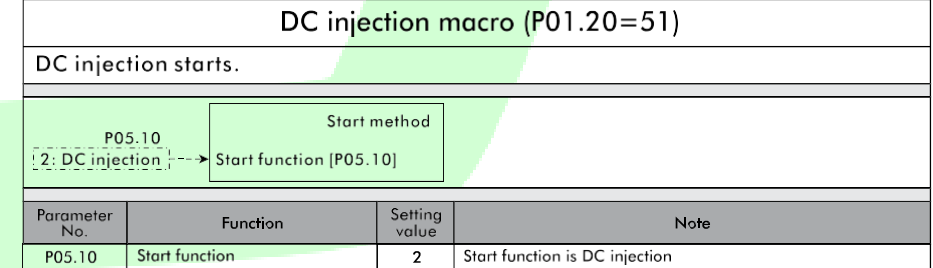
8.13 PID Macro 2



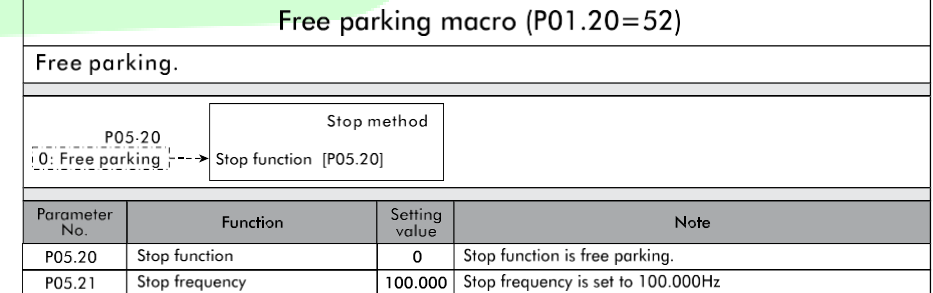
8.14 Speed Start Macro



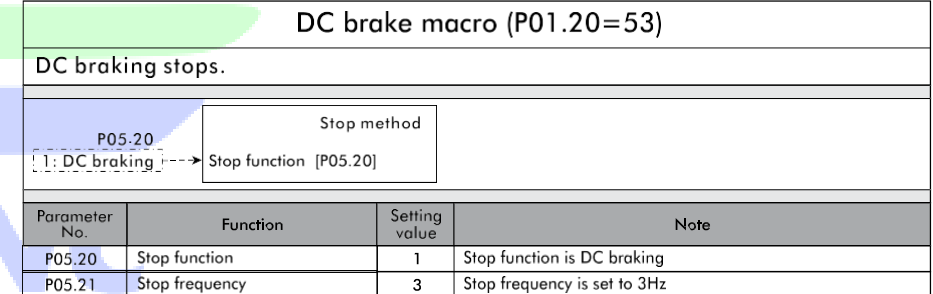
8.15 DC injection macro



8.16 Free parking macro



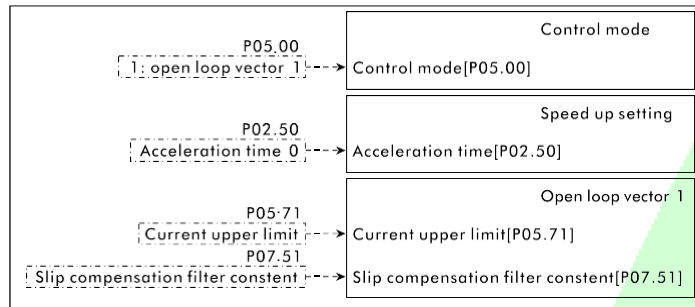
8.17 DC brake macro



8.18 Emergency acceleration macro

Emergency acceleration macro (P01.20=54)

Start quickly.

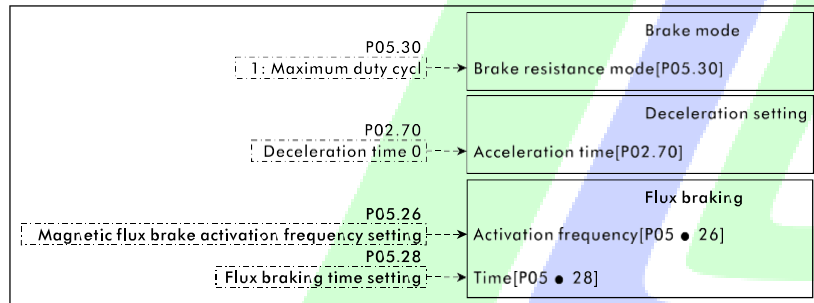


Parameter No.	Function	Setting value	Note
P02.50	Acceleration time 0	1	The acceleration time is set to 1s
P05.00	Control mode	1	Select open loop vector 1
P05.71	Current upper limit	160	The current limit is set to 160%
P07.51	Slip compensation filter constant	150	The slip compensation filter is set to 150%

8.19 Emergency deceleration macro

Emergency deceleration macro (P01.20=55)

Stop quickly.



Parameter No.	Function	Setting value	Note
P02.70	Deceleration time 0	1	The deceleration time is set to 1s
P05.26	Magnetic flux brake activation frequency	100	The flux activation frequency is set to 100%
P05.28	Flux braking time	3	The flux braking time is set to 3s
P05.71	Current upper limit	180	The current upper limit is set to 180%
P05.30	Brake resistance mode	1	Choose the maximum duty cycle

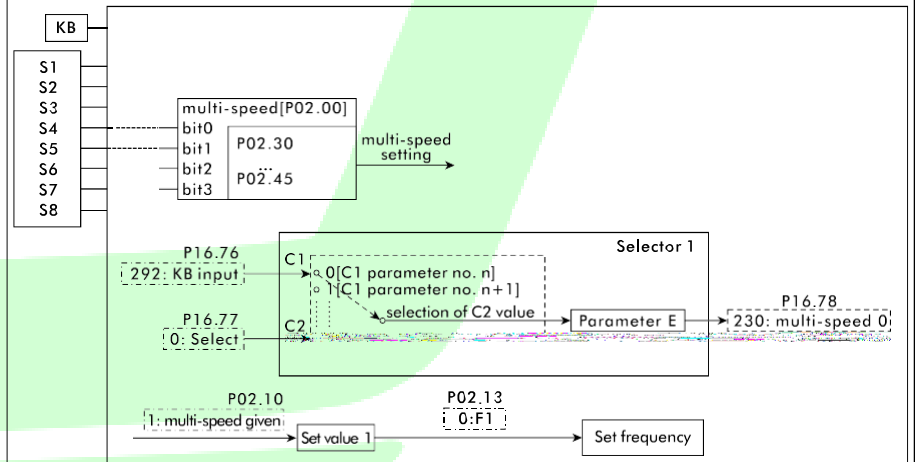
8.20 Console switch macro

Console switch macro (P01.20=60)

When there is multi-speed signal, it is given by multi-speed, and when there is no multi-speed signal, it is given by keyboard.

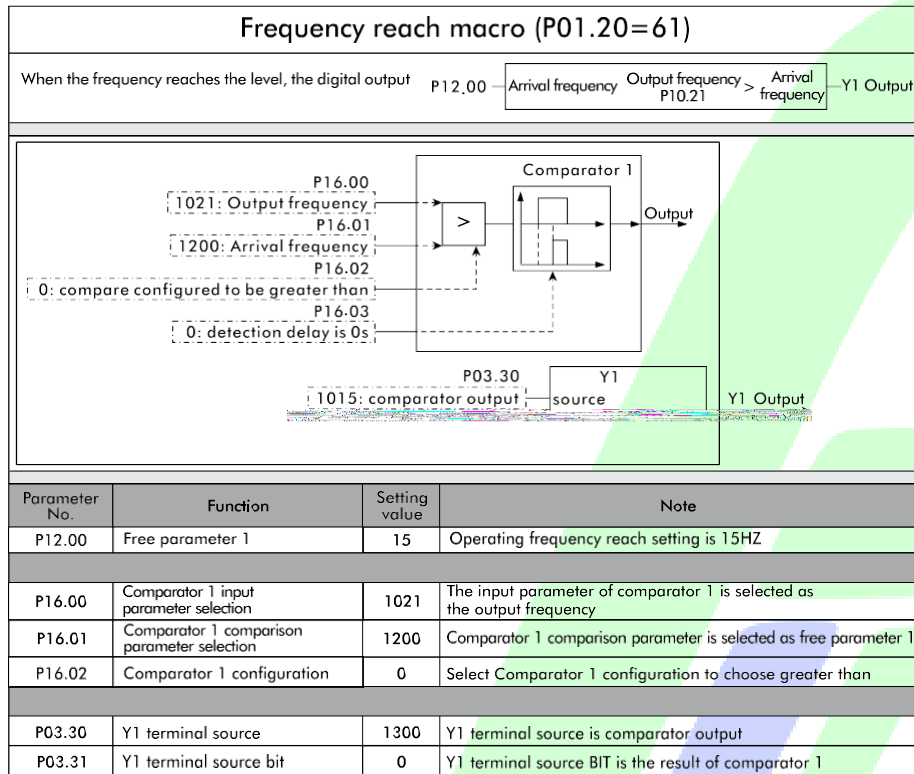
*The setting frequency can be selected by multi-speed or keyboard.

*Use external terminals S4, S5.

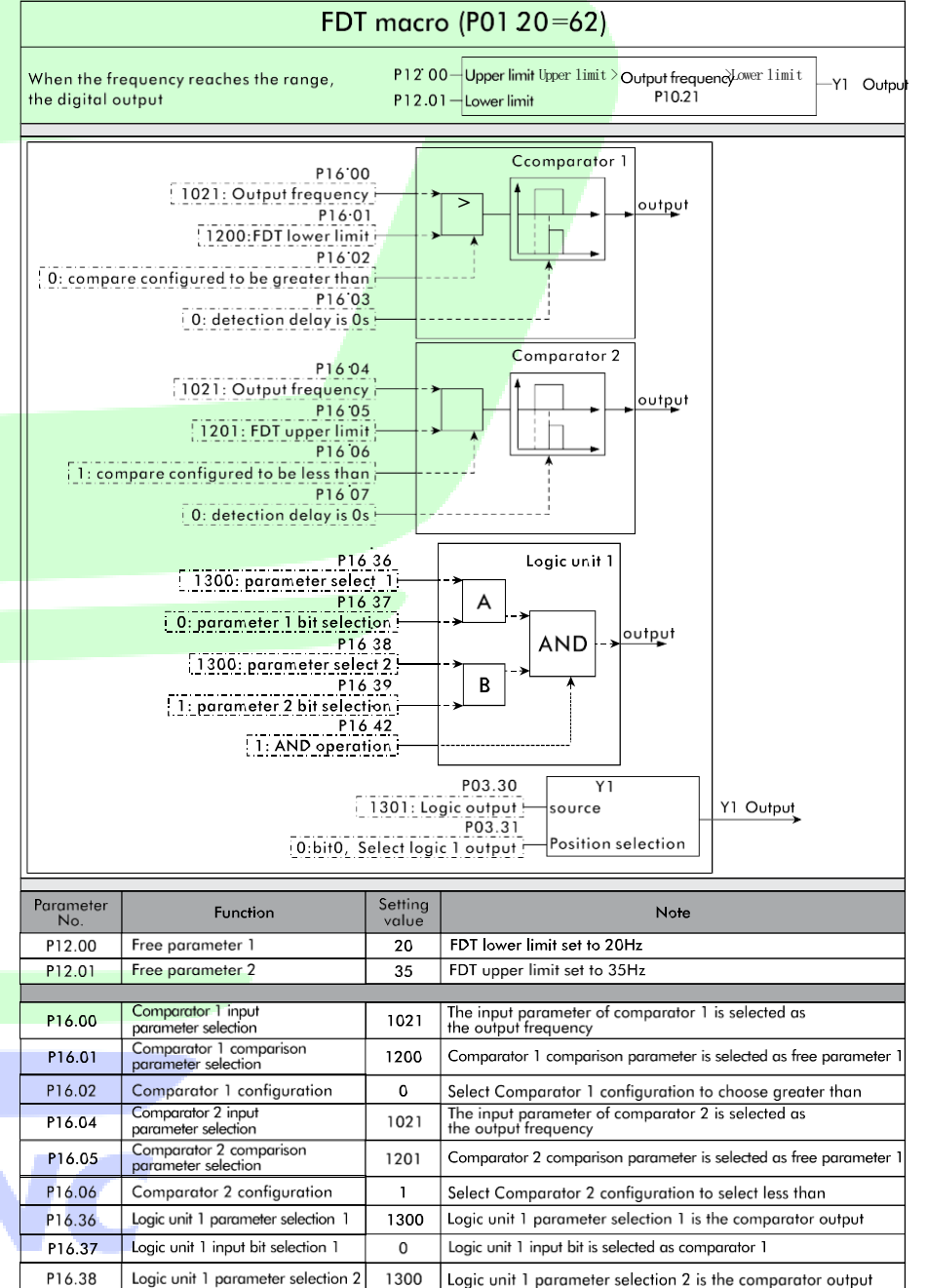


Parameter No.	Function	Setting value	Note
P02.92	Keyboard set value	*	Keyboard potentiometer
P02.31	Multi-speed 1	30	Multi-speed 1 is set to 15Hz
P02.32	Multi-speed 2	40	Multi-speed 1 is set to 20Hz
P02.33	Multi-speed 3	50	Multi-speed 1 is set to 25Hz
P16.76	Selector 1 parameter source	292	Selector 1 parameter source is keyboard setting value
P16.77	Selector 1 setting	0	Selector 1 is set to 0
P16.78	Selector 1 destination parameter	230	Selector 1 destination parameter source is multi-speed 0
P02.10	Set value source 1	1	Set value source 1 is multi-speed
P02.13	Set channel 1 relationship selection	0	Set the channel relationship selection to F1
P02.00	Multi-speed source	11000	Multi-speed source is external terminal S4, S5

8.21 Frequency reach macro



8.22 FDT macro





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