

# H1 Series Inverter USER MANUAL



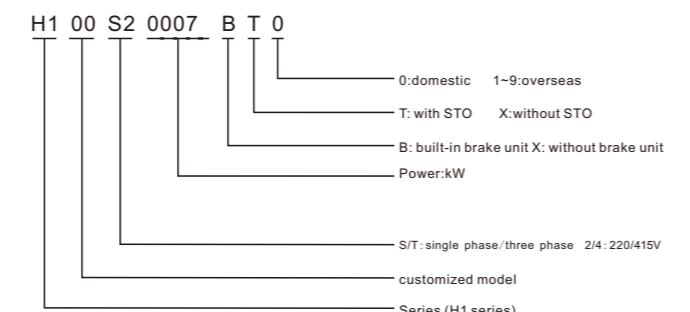
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## NO.1 Product introduction

### 1.1 Technical Features

Items	Description
Rated voltage /frequency	3ph: 415V~440V , 50Hz/60Hz 1ph: 200V~240V , 50Hz/60Hz
Allowed voltage	3ph: 320V~460V ; 1ph: 180V~260V; voltage Imbalance rate: <3% ; frequency: ±5%
Voltage	0~rated input voltage
Frequency	0Hz~1000Hz
Overload capacity	150% rated current 60s, 180% rated current 2s
Control mode	V/F, SVC
Modulation Mode	SVPWM
Motor type	asynchronous motor, synchronous motor, single phase motor (consult factory before using)
Start torque	1Hz/150%
Speed range	1:100(SVC)
Frequency accuracy	digital setting: maximum frequency±0.01%; analog setting: maximum frequency±1%;
Frequency resolution	digital setting: 0.1Hz; analog setting: maximum frequency±1%;
Acceleration/deceleration curve	line/ S - curve
Rapid current limit	limit current rapidly within the current protection value, to ensure the safety of the equipment
None-stop when instantaneous power off	none-stop when instantaneous power off, automatic frequency drop
Command source	keypad, terminal, communication
Set value source	digital, analog,multi-speed,communication
PID	support main setting+PID
LED display	Can display: output frequency,output voltage,output current , Bus voltage, display value 1 , display value 2 , error, alarm
External keypad	YES
Protection function	over-current protection, over-voltage protection, under-voltage protection, overheating protection, over-load protection, phase loss protection, earth leakage, etc
Store environment	indoor, away from direct sunlight, no dust, no corrosive gas, no inflammable gas, no oil mist, no vapour, no drip and no salinity, etc
Altitude	derating use above 1000M, derating 10% per 1000M
Environment temperature	-10°C~+40°C(environment temperature around 40°C~50°C please derating use)
Humidity	5%~95%RH, no condensation
Store temperature	-40°C~+70°C
Vibration	<5. 9M/S (0.6g)

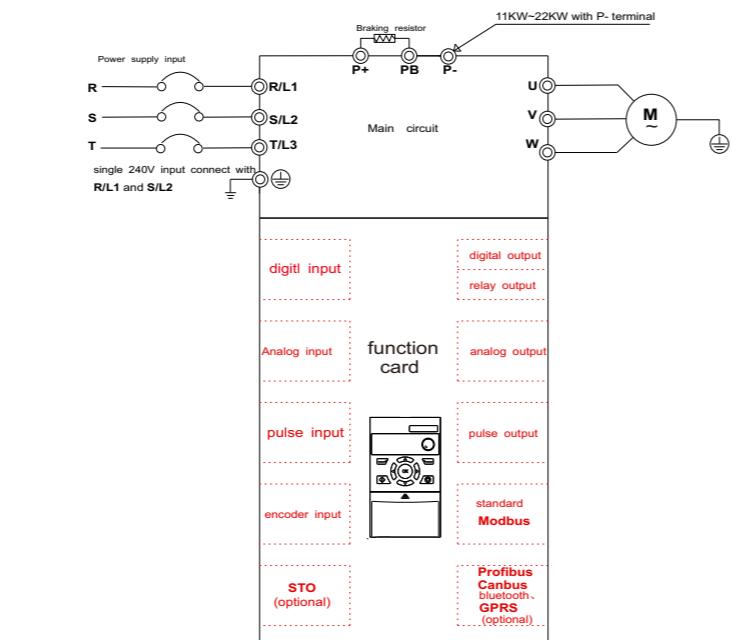
## 1.2 H1 nameplate



## 1.3 H1 series specifications and models

Base.No	Models	Input voltage	Power (kw)	Output current(A)	Adaptive motor(KW) (Heavy/light load)
F1	H100S2007BX0	1 phase 240V	0.75	5.0	0.75
	H100S20015BX0	1 phase 240V	1.5	7.0	1.5
F2	H100T20022BX0	1 phase 240V	2.2	12.5	2.2
	H100T20037BX0	1 phase 240V	3.7	15.2	3.7
F1	H100T40007BX0	3 phase 415V	0.75	3.0	0.75
	H100T40015BX0	3 phase 415V	1.5	4.5	1.5
F2	H100T40022BX0	3 phase 415V	2.2	5.6	2.2
	H100T40040BX0	3 phase 415V	4.0	10.5	4.0
F3	H100T40055BX0	3 phase 415V	5.5	14	5.5
	H100T40075BX0	3 phase 415V	7.5	19	7.5
F4	H100T40110BX0	3 phase 415V	11	26	11
	H100T40150BX0	3 phase 415V	15	33	15
F5	H100T40185BX0	3 phase 415V	18.5	40	18.5
	H100T40220BX0	3 phase 415V	22	46	22
Typical application					

## NO.2 Main circuit and function card



Notice: different function card corresponding to different terminals. Except standard function card, can customize any type of card.

Reset parameters when using different function cards. An AC drive only can use one function card.



## 2.1 Main circuit terminal description

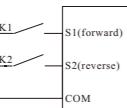
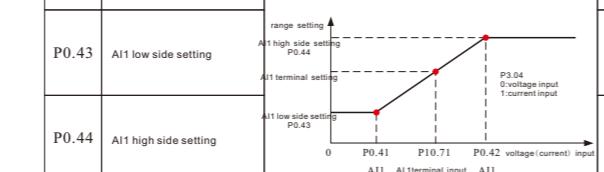
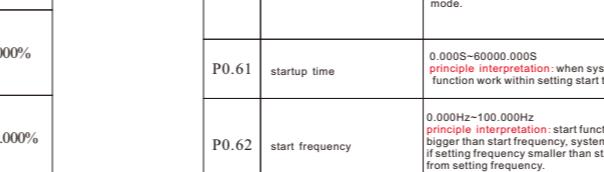
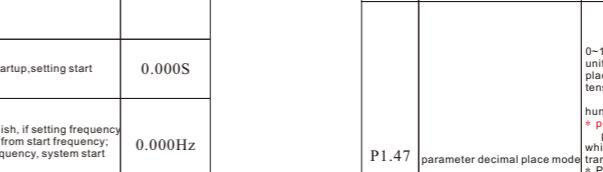
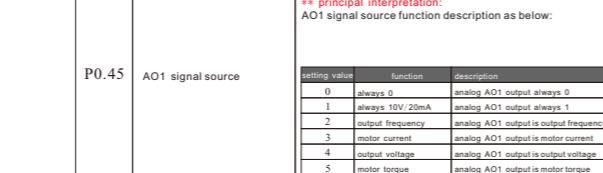
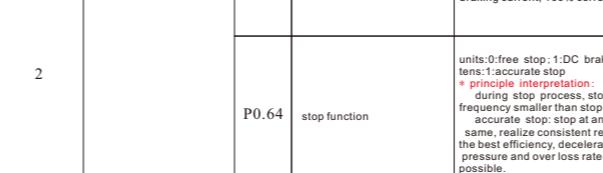
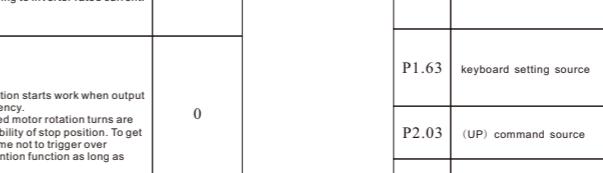
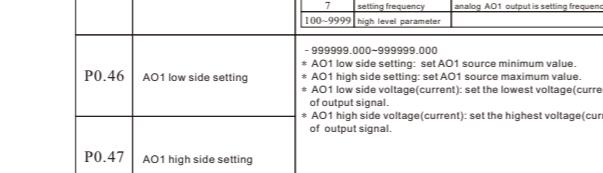
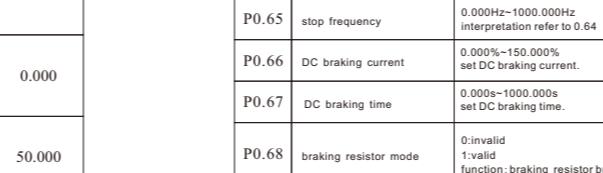
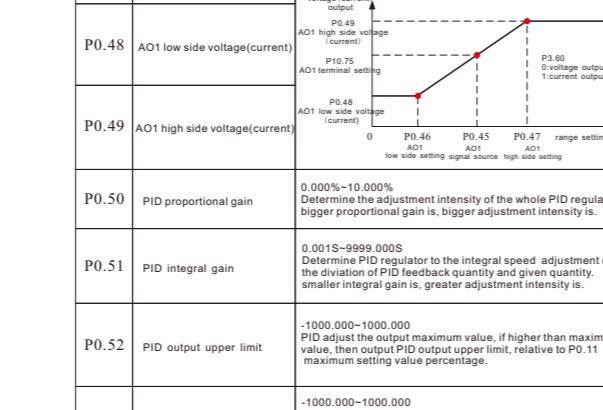
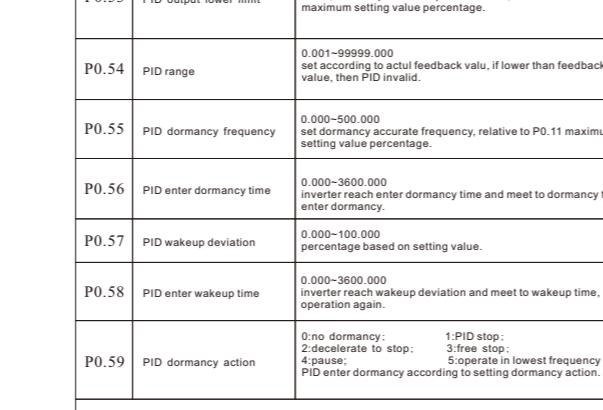
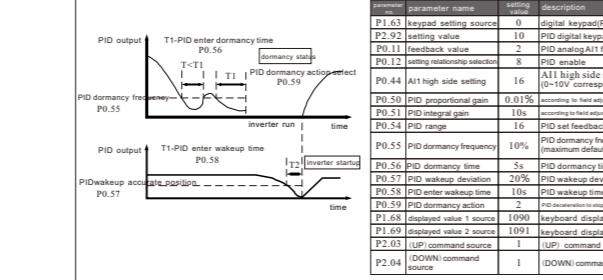
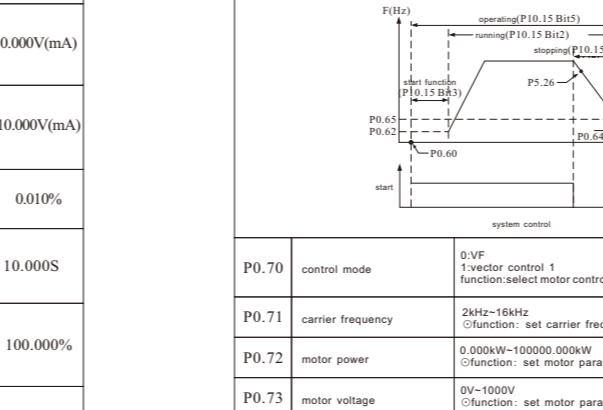
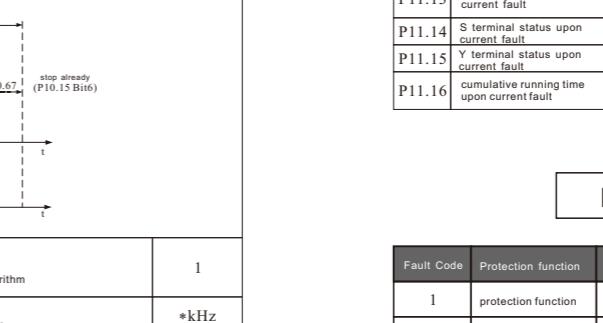
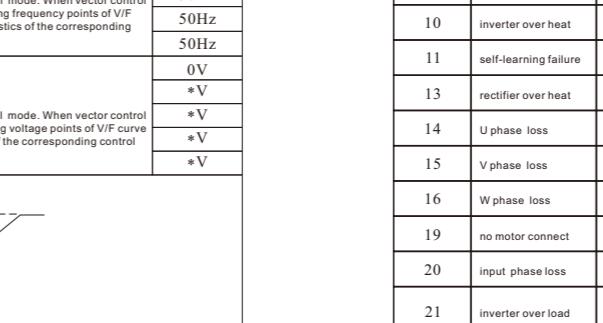
Terminal identification	Name	Function description
	Grounding terminal	Safety grounding
R/L1、S/L2、T/L3	Main circuit power input terminal	Connect three phase power supply, single phase power supply connect with R/L1, S/L2
P+、PB	Braking terminal	Connect with external braking resistor
P+、P-	DC bus terminal	Two sets or more inverters use a common DC bus (11kW~22kW has P terminal)
U、V、W	output terminal	Connect with three phase motor

## 2.2 Function card configuration table

Function card	H10001	H10002	H10003	H10004	H10005	H10006	H10007	H10008	H10009	H10010	H10011	H10012
Digital input	4	3	4	8	2	2	3	2	2	4	4	3
Digital output								4	4			
Relay output	1		3	1	1	1	1	1	1	1	1	1
Analog Input	1		1		2			1	1	1	1	1
Analog output					2			1	1			
Pulse Input						1						
Pulse output							1					
Encoder Input								1				
Modbus	1	1	1	1	1	1	1	1	1	1	1	1
Profibus									1			
Canbus									1			
Bluetooth										1		
GPRS											1	
STO												1

## NO.5 Function · Parameter Table

Function code	Function	Description (setting range)	Factory default																																				
P0.09	Parameter operation	1:parameter initialization, initialize parameters except PI.XX, in normal condition, use mode 1 initialization; 2:initialize all parameters	0																																				
P0.10	Setting(frequency reference F1)	0:keypad 1:multi-speed 2:A11 3:A12 5:communication	0																																				
P0.11	Setting(frequency reference F2)	5:communication	0																																				
P0.12	setting relation selection	<p>* principle interpretation: set 0 choose F1 channel setting value; set 1 choose F2 channel setting value; set 2 choose the sum of F1 and F2 channel setting value; set 3 choose the difference of F1 and F2 channel setting value; set 4 choose the product of F1 and F2 channel setting value; divide 100; set 5 choose larger value of F1 and F2; set 6 choose smaller value of F1 and F2; set 7 choose average value of F1 and F2; set 8 choose PID control(F1 is setting, F2 is feedback).</p>	0																																				
P0.13	maximum setting value	<p>- 99999.000~99999.000 * principle interpretation: limit setting value range.The unit of setting source is %, the maximum setting value(P0.13) stands for 100%, take maximum setting value as standard.</p>	50.000																																				
P0.14	motor output frequency upper limit	0.000Hz~1000.000Hz interpretation:motor operation frequency upper limit	55.000Hz																																				
P0.15	multi-speed source	<table border="1"> <tr> <td>S<sub>4</sub></td><td>S<sub>3</sub></td><td>S<sub>2</sub></td><td>valid multi-speed</td> </tr> <tr> <td>0~11111111</td><td>units: S1</td><td>0~1</td><td>multi-speed 0</td> </tr> <tr> <td>0~11111110</td><td>tens: S2 hundreds' digit: S3</td><td>0~1</td><td>multi-speed 1</td> </tr> <tr> <td>0~11111101</td><td>thousands' digit: S4</td><td>0~1</td><td>multi-speed 2</td> </tr> <tr> <td>1~11111100</td><td>1~0</td><td>1~0</td><td>multi-speed 3</td> </tr> <tr> <td>1~11111011</td><td>1~0</td><td>1~0</td><td>multi-speed 4</td> </tr> <tr> <td>1~11111010</td><td>1~1</td><td>0~1</td><td>multi-speed 5</td> </tr> <tr> <td>1~11111001</td><td>1~1</td><td>0~0</td><td>multi-speed 6</td> </tr> <tr> <td>1~11111000</td><td>1~1</td><td>1~1</td><td>multi-speed 7</td> </tr> </table> <p>* P0.15:multi-speed source,select to corresponding external terminal, multi-speed refer to P0.16-P0.23. * e.g.select S2, S3, S4 as valid external terminal to control multi-speed set P0.15=1110, detailed 8 segment corresponding relationship as above table</p>	S <sub>4</sub>	S <sub>3</sub>	S <sub>2</sub>	valid multi-speed	0~11111111	units: S1	0~1	multi-speed 0	0~11111110	tens: S2 hundreds' digit: S3	0~1	multi-speed 1	0~11111101	thousands' digit: S4	0~1	multi-speed 2	1~11111100	1~0	1~0	multi-speed 3	1~11111011	1~0	1~0	multi-speed 4	1~11111010	1~1	0~1	multi-speed 5	1~11111001	1~1	0~0	multi-speed 6	1~11111000	1~1	1~1	multi-speed 7	0
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0~11111111	units: S1	0~1	multi-speed 0																																				
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1~11111011	1~0	1~0	multi-speed 4																																				
1~11111010	1~1	0~1	multi-speed 5																																				
1~11111001	1~1	0~0	multi-speed 6																																				
1~11111000	1~1	1~1	multi-speed 7																																				
P0.16	multi-speed 0		0.000%																																				
P0.17	multi-speed 1		0.000%																																				
P0.18	multi-speed 2		0.000%																																				
P0.19	multi-speed 3		0.000%																																				
P0.20	multi-speed 4		0.000%																																				
P0.21	multi-speed 5		0.000%																																				
P0.22	multi-speed 6		0.000%																																				
P0.23	multi-speed 7		0.000%																																				
P0.24	acceleration time	<p>0.000~3600.000s * principle interpretation: as figure, acceleration time refer to the time from 0HZ accelerate to P0.13 maximum setting value</p>	*S																																				
P0.25	deceleration time	<p>- 1000.000~1000.000s function: multi-speed setting, corresponding to P0.13 maximum setting percentage</p>	0																																				
P0.26	Jog frequency	- 1000.000~1000.000s function: set jog frequency, jog command refer to P0.33	10.000%																																				
P0.30	start command source	0 invalid 1 keypad 2:communication 3:S1 4:S2 5:S3 6:S4	1																																				
P0.31	reverse start command source	function: select command source(select keypad as command source, then reverse start command, reverse command, jog command, free stop command, safe stop command, pause command all from multi-function key of keypad)	0																																				
P0.32	reverse command source	function: select command source(select keypad as command source, then reverse start command, reverse command, jog command, free stop command, safe stop command, pause command all from multi-function key of keypad)	0																																				
P0.33	Jog command source	function: jog command. Priority is higher than start command, lower than stop command.	1																																				
P0.34	stop command source	* reverse start command: setting value reversed, and give a start command * reverse command: setting value reversed.	0																																				
P0.35	free stop command source																																						

Function code	Function	Description(setting range)	Factory default																											
P0.37	S1 type	0:positive logic 1:negative logic 2:rising edge 3:falling edge function: select external terminal trigger type  * principle interpretation: 0:positive logic, high level is valid status, low level is invalid status; 1:negative logic, high level is invalid status, low level is valid status; 2:rising edge, rising edge is valid; 3:falling edge, falling edge is valid.  *two-line mode 1: the mode is most commonly used two-line mode, enable and direction combined, K1 and K2 control forward/reverse of motor	0  <table border="1"><thead><tr><th>parameter no</th><th>setting value</th><th>description</th></tr></thead><tbody><tr><td>P0..30</td><td>3</td><td>start command source is S1</td></tr><tr><td>P0..31</td><td>4</td><td>reverse start command source is S2</td></tr><tr><td>P0..37</td><td>0</td><td>S1 type is positive logic</td></tr><tr><td>P0..38</td><td>0</td><td>S2 type is negative logic</td></tr></tbody></table>	parameter no	setting value	description	P0..30	3	start command source is S1	P0..31	4	reverse start command source is S2	P0..37	0	S1 type is positive logic	P0..38	0	S2 type is negative logic												
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P0..31	4	reverse start command source is S2																												
P0..37	0	S1 type is positive logic																												
P0..38	0	S2 type is negative logic																												
-999999.000~999999.000 ◎function: analog input AI1 setting *AI1 low side voltage/current: set the lowest voltage/current of input signal. *AI1 high side voltage/current: set the highest voltage/current of input signal. *AI1 low side setting: set corresponding value of low side voltage/current. *AI1 high side setting: set corresponding value of high side voltage/current.	0.000V(mA)																													
P0.42 AI1 high side voltage(current) 	10.000V(mA)																													
P0.43 AI1 low side setting 	0.000%																													
P0.44 AI1 high side setting 	100.000%																													
0:always 0 1:always 10V/20mA 2:output frequency 3:motor current 4:output voltage 5:motor torque 6:output power 7:setting frequency 100~9999:high level parameter ** principle interpretation: AO1 signal source function description as below:																														
P0.45 AO1 signal source <table border="1"><thead><tr><th>setting value</th><th>function</th><th>description</th></tr></thead><tbody><tr><td>0</td><td>always 0</td><td>analog AO1 output always 0</td></tr><tr><td>1</td><td>always 10V/20mA</td><td>analog AO1 output always 1</td></tr><tr><td>2</td><td>output frequency</td><td>analog AO1 output is output frequency</td></tr><tr><td>3</td><td>motor current</td><td>analog AO1 output is motor current</td></tr><tr><td>4</td><td>output voltage</td><td>analog AO1 output is output voltage</td></tr><tr><td>5</td><td>motor torque</td><td>analog AO1 output is motor torque</td></tr><tr><td>6</td><td>output power</td><td>analog AO1 output is output power</td></tr><tr><td>7</td><td>setting frequency</td><td>analog AO1 output is setting frequency</td></tr></tbody></table> 	setting value	function	description	0	always 0	analog AO1 output always 0	1	always 10V/20mA	analog AO1 output always 1	2	output frequency	analog AO1 output is output frequency	3	motor current	analog AO1 output is motor current	4	output voltage	analog AO1 output is output voltage	5	motor torque	analog AO1 output is motor torque	6	output power	analog AO1 output is output power	7	setting frequency	analog AO1 output is setting frequency	2		
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6	output power	analog AO1 output is output power																												
7	setting frequency	analog AO1 output is setting frequency																												
P0.46 AO1 low side setting 	0.000																													
P0.47 AO1 high side setting 	50.000																													
P0.48 AO1 low side voltage(current) 	0.000V(mA)																													
P0.49 AO1 high side voltage(current) 	10.000V(mA)																													
P0.50 PID proportional gain 0.000%~10.000% Determine the adjustment intensity of the whole PID regulator, bigger proportional gain is, bigger adjustment intensity is.	0.010%																													
P0.38	S2 type	P0.51 PID integral gain 0.001S~9999.000S Determine PID regulator to the integral speed adjustment of the deviation of PID feedback quantity and given quantity. smaller integral gain is, greater adjustment intensity is.	10.000S																											
		P0.52 PID output upper limit -1000.000~1000.000 PID adjust the output maximum value, if higher than maximum value, then output PID output upper limit, relative to P0.11 maximum setting value percentage.	100.000%																											
		P0.53 PID output lower limit -1000.000~1000.000 PID adjust the output minimum value, if lower than minimum value, then output PID output lower limit, relative to P0.11 maximum setting value percentage.	0.000%																											
		P0.54 PID range 0.001~9999.000 set according to actual feedback value, if lower than feedback value, then PID invalid.	100.000																											
		P0.55 PID dormancy frequency 0.000~500.000 set dormancy accurate frequency, relative to P0.11 maximum setting value percentage.	0.000%																											
		P0.56 PID enter dormancy time 0.000~3600.000 inverter reach enter dormancy time and meet to dormancy time, enter dormancy.	0.000s																											
		P0.57 PID wakeup deviation 0.000~100.000 percentage based on setting value.	0.000%																											
		P0.58 PID enter wakeup time 0.000~3600.000 inverter reach wakeup deviation and meet to wakeup time, operation again.	0.000s																											
		P0.59 PID dormancy action 0:none dormancy: 2:decelerate to stop: 4:pause: 5:operate in lowest frequency PID enter dormancy according to setting dormancy action.	0																											
		PID output  <table border="1"><thead><tr><th>parameter name</th><th>setting value</th><th>description</th></tr></thead><tbody><tr><td>P1..63</td><td>keypad setting source</td><td>0 digital keypad(P2..52/setting)</td></tr><tr><td>P2..92</td><td>setting value</td><td>10 PID digital keypad set 10kg</td></tr><tr><td>P0..11</td><td>feedback value</td><td>2 analog/AI1 feedback</td></tr><tr><td>P0..12</td><td>dormancy selection</td><td>8 PID enable</td></tr></tbody></table>	parameter name	setting value	description	P1..63	keypad setting source	0 digital keypad(P2..52/setting)	P2..92	setting value	10 PID digital keypad set 10kg	P0..11	feedback value	2 analog/AI1 feedback	P0..12	dormancy selection	8 PID enable													
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PID dormancy frequency 0~5.0Hz PID dormancy time 5s PID dormancy action 0:none dormancy: 2:decelerate to stop: 4:pause: 5:operate in lowest frequency PID enter dormancy according to setting dormancy action.																														
P0.40	Y1 terminal source	0:always 0 1:always 1 2:stopped 3:running 4:fault 5:alarm 6:reversing 64:STO status 100~9999:high level parameter ** principle interpretation: terminal source setting value ≥100 (address mode), the address is selected parameter no., actual value is decided by current value of selected parameter no.. terminal source function description as below:	3  <table border="1"><thead><tr><th>setting value</th><th>function</th><th>description</th></tr></thead><tbody><tr><td>0</td><td>always 0</td><td>Y1 terminal output always 0</td></tr><tr><td>1</td><td>always 1</td><td>Y1 terminal output always 1</td></tr><tr><td>2</td><td>stopped</td><td>in stopped status Y1 terminal output is 1</td></tr><tr><td>3</td><td>running</td><td>in running status Y1 terminal output is 1</td></tr><tr><td>4</td><td>fault</td><td>in fault status Y1 terminal output is 1</td></tr><tr><td>5</td><td>alarm</td><td>in alarm status Y1 terminal output is 1</td></tr><tr><td>6</td><td>reversing</td><td>in reversing status Y1 terminal output is 1</td></tr><tr><td>64</td><td>STO status</td><td>in STO status Y1 terminal output is 1</td></tr></tbody></table>	setting value	function	description	0	always 0	Y1 terminal output always 0	1	always 1	Y1 terminal output always 1	2	stopped	in stopped status Y1 terminal output is 1	3	running	in running status Y1 terminal output is 1	4	fault	in fault status Y1 terminal output is 1	5	alarm	in alarm status Y1 terminal output is 1	6	reversing	in reversing status Y1 terminal output is 1	64	STO status	in STO status Y1 terminal output is 1
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6	reversing	in reversing status Y1 terminal output is 1																												
64	STO status	in STO status Y1 terminal output is 1																												
pressure sensor range:1.6MPa(1MPa~10kg/PIDcontrol parameter <table border="1"><thead><tr><th>parameter name</th><th>setting value</th><th>description</th></tr></thead><tbody><tr><td>P1..63</td><td>keypad setting source</td><td>0 digital keypad(P2..52/setting)</td></tr><tr><td>P2..92</td><td>setting value</td><td>10 PID digital keypad set 10kg</td></tr><tr><td>P0..11</td><td>feedback value</td><td>2 analog/AI1 feedback</td></tr><tr><td>P0..12</td><td>dormancy selection</td><td>8 PID enable</td></tr></tbody></table> 	parameter name	setting value	description	P1..63	keypad setting source	0 digital keypad(P2..52/setting)	P2..92	setting value	10 PID digital keypad set 10kg	P0..11	feedback value	2 analog/AI1 feedback	P0..12	dormancy selection	8 PID enable															
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T1-PID enter dormancy time P0.56 PID dormancy frequency 0~5.0Hz PID dormancy time 5s PID dormancy action 0:none dormancy: 2:decelerate to stop: 4:pause: 5:operate in lowest frequency PID enter dormancy according to setting dormancy action.																														
P0.57 PID wakeup dev. P0.58 PID enter wakeup time P0.59 PID dormancy action 0:none dormancy: 2:decelerate to stop: 4:pause: 5:operate in lowest frequency PID enter dormancy according to setting dormancy action.																														
P0.60 startup function  <table border="1"><thead><tr><th>parameter name</th><th>setting value</th><th>description</th></tr></thead><tbody><tr><td>P0..60</td><td>start frequency operation</td><td>0:no check</td></tr><tr><td>1:speed start</td><td>1:even check</td></tr><tr><td>2:DC injection</td><td>2:odd check</td></tr></tbody></table>	parameter name	setting value	description	P0..60	start frequency operation	0:no check	1:speed start	1:even check	2:DC injection	2:odd check	0																			
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1:speed start	1:even check																													
2:DC injection	2:odd check																													
P0.61 startup time 0.000S~60000.000S principle interpretation: when system startup.setting start function work within setting start time.	0.000S																													
P0.62 start frequency 0.000Hz~100.000Hz principle interpretation: start function finish, if setting frequency bigger than start frequency, system start from start frequency; if setting frequency smaller than start frequency, system start from setting frequency.	0.000Hz																													
P1.47	parameter decimal place mode	P0.63 DC injection current 0.000%~200.000% ◎function: set magnitude of DC injection current. (set P0..60=2 as DC injection) * principle interpretation: start mode is DC injection, need to set magnitude of DC braking current, 100% corresponding to inverter rated current.	100.000%																											
		P0.64 stop function units:0:free stop ; 1:DC braking: tens:1:accurate stop * principle interpretation: during stop process, stop function starts work when output frequency smaller than stop frequency. same stop frequency, same stop time. repeated stop time, same, realize consistent repeatability of stop position. To get the best efficiency, deceleration time not to trigger over pressure and over loss rate prevention function as long as possible.	0																											
		P0.65 stop frequency 0.000Hz~1000.000Hz interpretation refer to 0.64	0.000Hz																											
		P0.66 DC braking current 0.000%~150.000% set DC braking current.	100.000%																											
		P0.67 DC braking time 0.000s~1000.000s set DC braking time.	0.000s																											
		P0.68 braking resistor mode 0:invalid 1:valid function: braking resistor braking mode parameter set	1																											
																														
		P0.70 control mode 0:VF 1:vector control 1 function:select motor control algorithm	1																											
		P0.71 carrier frequency 2kHz~16kHz ◎function: set carrier frequency	*kHz																											
		P0.72 motor power 0.000kW~10000.000kW ◎function: set motor parameters	*kW																											
		P0.73 motor voltage 0V~1000V ◎function: set motor parameters	*V																											
		P0.74 motor frequency 1Hz~3000Hz ◎function: set motor parameters	*Hz																											
		P0.75 motor current 0.00A~1000.00A ◎function: set motor parameters	*A																											
		P0.76 motor speed 10rpm~65535rpm ◎function: set motor parameters	*RPM																											
P1.41	local address	P0.77 V/F curve-F1 0Hz~3000Hz * principle interpretation: set V/F curve under V/F control mode. When vector control 1 is adopted, set the corresponding frequency points of V/F curve to adjust control characteristics of the corresponding control points.	50Hz																											
		P0.78 V/F curve-F2 0Hz~3000Hz * principle interpretation: set V/F curve under V/F control mode. When vector control 1 is adopted, set the corresponding frequency points of V/F curve to adjust control characteristics of the corresponding control points.	50Hz																											
		P0.79 V/F curve-F3 0Hz~3000Hz * principle interpretation: set V/F curve under V/F control mode. When vector control 1 is adopted, set the corresponding frequency points of V/F curve to adjust control characteristics of the corresponding control points.	50Hz																											
		P0.80 V/F curve-F4 0Hz~3000Hz * principle interpretation: set V/F curve under V/F control mode. When vector control 1 is adopted, set the corresponding frequency points of V/F curve to adjust control characteristics of the corresponding control points.	50Hz																											
		P0.81 V/F curve-V0 0V~10000V * principle interpretation: set V/F curve under V/F control mode. When vector control 1 is adopted, set the corresponding voltage points of V/F curve to adjust control characteristics of the corresponding control points.	0V																											
		P0.82 V/F curve-V1 0V~10000V * principle interpretation: set V/F curve under V/F control mode. When vector control 1 is adopted, set the corresponding voltage points of V/F curve to adjust control characteristics of the corresponding control points.	*V																											
		P0.83 V/F curve-V2 0V~10000V * principle interpretation: set V/F curve under V/F control mode. When vector control 1 is adopted, set the corresponding voltage points of V/F curve to adjust control characteristics of the corresponding control points.	*V																											
		P0.84 V/F curve-V3 0V~10000V * principle interpretation: set V/F curve under V/F control mode. When vector control 1 is adopted, set the corresponding voltage points of V/F curve to adjust control characteristics of the corresponding control points.	*V																											
		P0.85 V/F curve-V4 0V~10000V * principle interpretation: set V/F curve under V/F control mode. When vector control 1 is adopted, set the corresponding voltage points of V/F curve to adjust control characteristics of the corresponding control points.	*V																											
																														
		P0.86 VF curve-V4																												
		P1.42 baud rate 0~2400bps 1:4800bps 2~9600bps 2:19200bps 4~38400bps 4~10~reserved ◎function: Communication port configuration	3																											
		P1.43 odd-even check 0:none check 1:even check 2:odd check ◎function: Communication port configuration	0																											
		P1.44 data bits 8~9 ◎function: Communication port configuration	8Bits																											
		P1.45 stop bits 0~2.0 ◎function: Communication port configuration	1.0Bit																											
		P1.47 parameter decimal place mode 0~123 units:0:remain decimal place,1:decimal place change to 2 places, 2:decimal place change to 1 place, 3:decimal place:tens,0:remain decimal place,1:decimal place change to 1 place,																												