Air Compressor Control System HMI-680T Interface Manual V1.0

The air compressor control system HMI-680T developed by our company has rich interface display, powerful function and simple use, which can easily realize the human-computer interaction function of the air compressor control system. Thank you for your choice!

1 Hardware parameters



1.1 Installation dimension and overall dimension





1.2 Wiring terminal diagram



Figure 2 Terminal Definition

Note: Please install the corresponding terminal wiring. Wrong wiring will cause damage to the touch screen.

2. The system starts

Supply power to the touch screen, the power supply is DC24V, wait for a few seconds to complete the system data loading, and enter the main interface, as shown in Figure 3:



2.1 System settings

(1) The system main interface

① System startup is completed, enter the main interface, main show air compressor running commands (start, stop, and reset), running parameters (temperature, pressure, output frequency, output current, output voltage, output speed and output power, electricity, fan current, operating time 、 motor temp and motor temperature.).

② The lower left corner has multiple fault display functions. When the communication between the touch screen and the frequency converter is interrupted, the communication fault is displayed at the lower end of the reset button.

③ Current time display, the lower right corner display includes the current year, month, day and week display, long press "year" display for 3 seconds, can enter the time adjustment mode.

(2) System to the main menu

Click "menu" option, a pop-up in the main menu including user parameters, timing control, fault records, maintenance parameter, options such as manufacturer parameters and manufacturer information.

Into the part of the menu to enter the password in the interface, including the "users" parameters "timing control" "maintenance parameters" parameters "manufacturer" as shown in figure 4:



(3) User Set

Click on the "user set" option, "password" interface, enter the password to enter parameter interface, as shown in figure 5 :

DCIOT Simulator		-	×	
Return	Please enter a passwor	-d		
	*			
				Figure 5
	Enter			The password input

Enter a password to enter the "user parameters" interface, users can set in the "user preferences" delay, pressure and fan control parameters, as shown in figure 6:

DCIOT Sir	mulator					_		×	
Retur	n		User Set						
De	lay		Pr	ess		Temp	ture		
Start Delay	0	s	Load Press	0	MPa	Start Tempture	0	°C	г.
Load Delay	0	s	Unload Press	0	MPa	Stop Tempture	0.0	°C	Fig Use
Unload Delay	0	s	Inverter Press	0	MPa	Alarm Tempture	0	°C	0.50
Stop Delay	0	s	Sleep Press	0.00	MPa	Target Tempture	0.0	°C	
Restart Delay	0	s							

(4) Timing control

"Timing control" function can be set up the system in week timing boot and shutdown time, realize the automatic operation of the system. In the corresponding input box input time Settings, click the corresponding "tick" set to complete; Do not use this function, all the "tick" no choice; As shown in figure7:



Figure 7 Timing control

(5) Fault record query

Click on the "failure record" "fault record" interface, real record system fault type and fault time, as shown in figure 8:

DCIOT Simulator		– 🗆 X
Return	Error Record	Clear Error
	2025-01-1	3 08:22:04 Monday

Figure 8 Fault record query

(6) Maintain parameter

Click on the "maintenance parameter" option, "password" interface, enter the password to enter parameter interface, as shown in figure 9 :

DCIOT Simul	ator					_		×
Return			Ма					
SET	Г	Current	Current Value			Manufacturer		
Air Filter Set	0	н	Air Filter Used	0	н	Total Load Time	0	н
0il Filter Set	0	н	0il Filter Used	0	н	Total Unload Tim	0	н
Separator Set	0	н	Separator Used	0	н	e		
Lubricating Oil Set	0	н	Lubricating Oil Used	0	н	Kwh Use	0	kwh
Grease Set	0	н	Grease Used	0	н			

Figure 9 Maintain parameter

(7) Manufacturer of parameters

Click on the "manufacturer" parameters, the pop-up interface "password", enter the password to enter parameter interface, as shown in figure 10:

🔲 DCIOT Simula	tor			_		
Return		Manufact	turer	ne	xt page	
Stop Press	0	MPa Press Bange	0.00	MPa ^{Para Set(1}	lo Point)	
Stop Temptu re	0.0	℃ Tempture	0.0	_% Code	0	
Up Limit Freq	0.00	Hz Fan motor	0.0	Data	0	
Low Limit Freq	0.00	Hz I ratio Hz Power	0.0	م Alarm	OFF	Figure 10
Run Time	0	H ^{Ratio}	UDa	љ 	055	Manufacturer
Detection t emp	0.0	°C	мра	PID	UFF	parameters
Fan Motor Rated I	0	A Advanced Par	a Oth	ner Para Mot	or Debug	-
Fan Min Freq	0.00	Hz 20	25-01-	13 08:22:19	Monday	

Main features include: motor debugging, the function parameter Settings, analog keyboard and information.

①.Motor Debugging

Figure 11

The motor parameters

Click "motor debugging", "Motor debugging" into the interface as shown in figure:11

🔳 DCIOT Sim	_		×						
Return Motor Debug Function									
Max Freq	0.00	Hz	Up Limit Freq	0.00	Hz	LowLimit Freq	0.00	Hz	
Motor Type	0		Rated Power	0.0	kW	Rated V	0	V	
Rated Current	0.00	Α	Rated Fre q	0.00	Hz	Rated Speed	0	rpm	
Back EMF	0.0	V	Acc Time	0.0	S	Dec Time	0.0	S	
Rs	0	Ω	Ld	0	mH	Lq	0	mH	
Study Jog On Jog Off Fan On Fan Off									

Main features include: set motor related parameters, self-learning, inching commissioning and fan start-stop control.

② Motor since the study

Click "study", and under the conditions of machine downtime, system of motor, automatically self learning, learning is completed, the system prompt "studying", if learning fails, then the system prompt "study error", the interface is shown in figure 12:

	-		×	
Study State				
Studyi	.ng!			
0.0	А			Figure 12
0.0	v			Motor sind
2025 04 4	2 00.22.20			
	Study State Studyi 0.0 0.0 2025-01-1	Study State Studying! 0.0 A 0.0 V 2025-01-13 08:22:39	Study State Studying! 0.0 A 0.0 V 2025-01-13 08:22:39	Study State Studying! 0.0 A 0.0 V 2025-01-13 08:22:39 Monday

since the study

Learning success and then click the back button, enter the machine debugging interface, inching test used to test the motor steering, the default run at 10 Hz, observe the motor turned to

whether it is right, such as steering error in time click on the "point move to stop" button, change the motor line, debug step motor to appeal.

Fan, debugging, and click "run" fan, fan to observe whether it is right, such as working properly, then stop running, back to the main interface, such as reverse operation is changing any two fan thread.

③ Information

Click on "information" button, enter the interface system parameters, the password used for manufacturer and user password change, as shown in figure 13:

	DCIOT Simulator	– 🗆 X	
	Return		Chinese
	Production Number		English
	Production Date		Spanish
Figure 13	Service Telephone		Polish
Information	Company Name	German	
	Manufacturer Password	0	French
	User Password	0	Dutch
	2025-01-13	Russian	

(8) Information

Click on the "Information", "Information" into the interface, as shown in figure 14:

🔳 DCIOT Simulat	or			_		×
Return		Fac	tory infor	mation		
Running	0	н	Production Number			
Time	0	М	Production Date			
Vrs	0.0	۷	Service Telephone			
Vst	0.0	۷	Company Name			
Vtr	0.0	V				
V600T.008.01	3.0.1163	s.	1 2025-01-13	08:22:58	Mon	day

Figure 14 Information

Note: the above function if you have deviation with the actual use, is the function of the software version upgrades, please refer to use.

3、System debugging/operation



SP600 Series Air Compressor Integrator User Manual

Foreword

Thank you for choosing SP600 series air compressor integrator.

SP600 series air compressor integrator using sheet metal structure, floor and wall supports two kinds of installation, ease of installation; commissioning wiring products easy to operate, wherein the control circuit terminal plug-in connector terminals, and mistake proofing plug design; high integration products: built-in DC reactors to reduce the external interference, improve the power factor; built-in 220V AC power supply, transformer anti-over current fuses provide 24V DC external output; the other built-in integrated PT100 and PTC, and other detection circuit and protection circuit. Product software uses special software, communications equipment HMI, and other things with no debugging achieve a key to start.

This guide describes the SP600 series air compressor integrator basic information and use instructions, please be sure to carefully read this manual before use.

Precautions

• The illustrations in this manual are for illustrative purposes only, and may differ from the product you ordered.

• The company is committed to continuous improvement of products, will continue to upgrade product function, the information provided is subject to change without notice.

• If you use with a problem, please contact our agents in each region, please contact customer service with the company.

1 Basic Specifications

	ltem	specification					
	Control mode	Open loop vector control, V / F control					
	Maximum	Open loop vector control: $0{\sim}600$ Hz, V / F control:					
	frequency	0~3200Hz					
Basi	Carrier frequency	0.5kHz \sim 15kHz $$, The carrier frequency is automatically adjusted based on the load features.					
000	Input frequency	Digital setting: 0.01Hz					
ontr	resolution	Analog setting: maximum frequency x 0.025%					
<u>0</u>	Startup torque	0.5 Hz/150%					
ľun	Speed range	1:100					
ctions	Speed stability accuracy	± 0.2%					
	Torque control accuracy	±10%					
	Overload capacity	60s for 150% of the rated current, 3s for 180% of the rated current.					
	Torque boost	Fixed boost					
		Customized boost 0.1%-30.0%					
		Straight-line V/F curve					
	V/F curve	Multi-point V/F curve					
		N-power V/F curve (1.2-power, 1.4-power, 1.6-power,					
		1.8-power, square)					
	V/F separation	Two types: complete separation; half separation					
		Straight-line ramp					
	Ramp mode	S-curve ramp					
		Four groups of acceleration/deceleration time with the					
	O	range of 0.0–6500.0s					
	Communication methods	RS485					
	JOG control	JOG frequency range: 0.00–50.00 Hz					
		JOG acceleration/deceleration time: 0.0–6500.0s					
	Built-in PID	It realizes process-controlled closed loop control system easily.					
	Auto voltage	It can keep constant output voltage automatically					
	regulation (AVR)	when the mains voltage changes.					
	Frequency source	Digital setting					
5 =	Analog Input	1 pressure sensor: 4 ~ 20mA input					
nter		z temperature sensor: P1100					
:put	Digital insut	2 alguar input					
es es	Digital input	I PIC circuit protection (compatible with normal digital					
		inputs)					

	Digital Output	1 normally open relay output (built in 220VAC voltage)						
	LED diode display Standard 3 LED display							
pr	Motor overheating	protection (PTC), the power-to-ground short-circuit						
ote	protection, inverter	vover-current, overload, over voltage, under voltage,						
ctio	over temperature,	output phase, communication fault, fault current						
on	detection, EEPROM write failure and so on							
	Installation logation	Indoor, free from direct sunlight, dust, corrosive						
	Installation location	gas,combustible gas, oil smoke, vapor, drip or salt.						
п	Altitude Lower than 1000 m							
nvi	Ambient	-10°C \sim 40°C (Downshift if the ambient temperature is						
ron	temperature	between 40°C and 50°C)						
mei	Humidity	Less than 95%RH, without condensing						
nt	Vibration	Less than 5.9 m/s2 (0.6 g)						
	Storage							
	temperature	-20 C~60 C						

2 Dimensions

2.1 Closet dimensions



r

MODEL	W	Н	H1	D	Α	В	Ød
SP600T-5R5KY-4 SP600T-7R5KY-4	118	238	274	154	80	260	5.5
SP600T-011KY-4 SP600T-015KY-4	145	293	335	172	100	320	7
SP600T-018KY-4 SP600T-022KY-4	168	338	380	172	100	365	7
SP600T-030KY-4 SP600T-037KY-4	217	400		216	202	385	7
SP600T-045KY-4 SP600T-055KY-4	300	440	470	275	210	455	9
SP600T-075KY-4	338	455	485	240	270	470	9
SP600T-090KY-4	275	590	630	310	200	612	9
SP600T-110KY-4							
SP600T-132KY-4	300	610	650	310	200	633	9
SP600T-160KY-4	400	675	715	310	320	695	11

2.2 HMI installation dimension

HMI-600T (4.3 inch)

















3 Terminal Definition

3.1 Main circuit terminal definitions



Terminal symbol	Terminal functions
R、 S、 T	Three-phase AC input terminals
U1、V1、W1	The master three-phase AC inverter output terminals
U2、V2、W2	Fan-phase AC output terminal
PE	Ground terminal

3.2 Definition of the control terminal and wiring



Note:

1) PT2 +, PT 2- are motor PT100 terminals, please shorted missed, otherwise it will report motor overheating fault.

2) S3 is the Motor PTC terminals, please COM shorted missed, otherwise it will be reported to the motor overheating fault.

3.3 Rated input/output current

	(A)	current (A)	current (A)
SP600T-5R5KY-4	15.9	13	3
SP600T-7R5KY-4	20	17	3
SP600T-11KY-4	26	25	3
SP600T-15KY-4	35	32	3
SP600T-18.5KY-4	38	37	3
SP600T-22KY-4	46	45	3
SP600T-30KY-4	62	60	3
SP600T-37KY-4	76	75	3
SP600T-45KY-4	92	90	15
SP600T-55KY-4	113	110	15
SP600T-75KY-4	157	150	15
SP600T-90KY-4	180	176	15
SP600T-110KY-4	214	210	15
SP600T-132KY-4	256	253	15
SP600T-160KY-4	307	300	15

4 Debugging Process



Function parameter

Group P0 Monitoring Preferences			
Code	Function	Accuracy	type of data
P0.00	Display selection	0-32	Read-only
P0.01	Set frequency	0.01Hz	Read-only
P0.02	Output frequency	0.1Hz	Read-only
P0.03	Output current	0.1A	Read-only
P0.04	Running speed	1rpm	Read-only
P0.05	DCV	0.1V	Read-only
P0.06	Inverter temperature	1℃	Read-only
P0.07	Pressure compressor	0.01MPa	Read-only
P0.08	Running hours	1hour	Read-only
P0.09	Output voltage	0.1V	Read-only
P0.10	PID stage status	0: Start-up delay	Read-only
		1: Loading delay	
		2: Running	
		3: Pressure relief	
		4: Sleeping	
		10: Stop delay	
		11: Standby	
		12: Restart delay	
		13: malfunction	
P0.11	PID each stage timing	1s	Read-only
P0.13	Head temperature	1℃ (PT1+/PT1-)	Read-only
P0.14	Inverter fault	Bit0: Inverter fault	Read-only
		Bit1: Air Compressor overheating	
		Bit2: Air Compressor over pressure	
		Bit3: EMERGENCY	

. <u> </u>			-
		Bit4: Fan status	
		Bit5: Phase sequence fault	
		Bit6: Pressure sensor failure(<2Ma)	
		Bit7: Motor overheating PT100	
		Bit8: Motor failure PTC	
		Bit9: Communication fault	
		Bit10: Electromagnetic valve	
		Bit11: Reserved	
		Bit12: Fan motor over current alarm	
		Bit13: Fan inverter alarm	
P0.15	Air filter used time	1hour	Read-only
P0.16	Oil filter used time	1hour	Read-only
P0.17	Splitter used time	1hour	Read-only
P0.18	Lubricants used time	1hour	Read-only
P0.19	Grease used time	1hour	Read-only
P0.20	Power	0.1KW	Read-only
P0.21	Motor temperature	1°C (PT2+/PT2-)	Read-only
P0.22	Total running time	1hour	Read-only
P0.23	Total loading time	1hour	Read-only
P0.24	Total uninstall time	1hour	Read-only
P0.25	Fan current	0.0A	Read-only
P0.26	Energy used	1kwh	Read-only
P0.27	Fault code	Inverter fault codes	Read-only
P0.28	Inverter status	1: Forward running	Read-only
		2: Reverse running	
		3: Stop	
P0.29	Running time in minutes		
P0.32	Main inverter fault code		Read-only

Group P1	Master basic parameters and motor parameters		
Code	Function	Setting range	Factory default
P1.00	Keyboard setting	0~P1.05	00.00Hz
	frequency		
P1.01	Control method	0:Vector without PG	0
		1:V / F control	
P1.02	Frequency setting	0:KEY	0
	mode	1:FIC: 4-20mA	
		2:Communication	
P1.03	Operation mode	0: KEY	0
		1: I/O	
		2: Communication control	
P1.04	Enable reverse	0: Prohibit Reverse	0
		1: Allow Reverse	
P1.05	Upper limit frequency	50.00Hz	50.00Hz
P1.06	Lower limit frequency	00.00Hz	00.00Hz
P1.07	Acceleration time	Changing	30.00s
P1.08	Deceleration time	Changing	30.00s
P1.09	Stop mode	0-Deceleration stop; 1-Coast to stop	0
P1.12	Power Factor	0~200.0%	100.0%
P1.13	Carrier frequency	1.0-16.0k	change
P1.17	Factory Reset	Factory Reset=08	0
P1.18	Parameter lock	0: Unlock parameters 1: Lock parameters	0
P1.19	Inverter maximum	Rated motor frequency~500.00hz	50Hz
	frequency		
Master pa	rameters		·
P1.20	Motor type	0-Asynchronous; 2-Synchronous	Refer to the motor
P1.21	Rated motor power	0.1~1000.0kW	Refer to the motor

P1.22	Rated motor voltage	0~690V	Refer to the motor
P1.23	Rated motor current	0.01~655.35A	Refer to the motor
P1.24	Rated motor frequency	0.00~500.00HZ	Refer to the motor
P1.25	Rated motor speed	0~65536rpm	Refer to the motor
P1.26	Motor Back EMF	0~380V	Refer to the motor
P1.28	Rated fan current	When select inverter fan, Inverter read current	Refer to the motor
P1.29	Minimum percentage of	0-100%	40.0%
	fan		
P1.30	Auto-tune	1: Static state 2: dynamic state	0
P1.31	Stator resistance RS		
P1.32	LD		
P1.33	LQ		
P1.34	Inverter function code		
P1.35	Inverter data		
Group P2	Multi-function input / o	utput	
Group P2 P4.13	Multi-function input / o	0~F2.01	2.00V
Group P2 P4.13 P4.15	Multi-function input / of FIC Minimum input FIC Maximum input	utput 0~F2.01 F2.01~20.0mA	2.00V 10.00V
Group P2 P4.13 P4.15 P4.00	Multi-function input / o FIC Minimum input FIC Maximum input S1 function	utput 0~F2.01 F2.01~20.0mA 0: no function	2.00V 10.00V 8
Group P2 P4.13 P4.15 P4.00 P4.01	Multi-function input / of FIC Minimum input FIC Maximum input S1 function S2 function	0~F2.01 F2.01~20.0mA 0: no function 8: EMERGENCY STOP normally closed	2.00V 10.00V 8 00
Group P2 P4.13 P4.15 P4.00 P4.01 P4.02	Multi-function input / of FIC Minimum input FIC Maximum input S1 function S2 function S3 function	0~F2.01 F2.01~20.0mA 0: no function 8: EMERGENCY STOP normally closed 32: Motor overheating protection	2.00V 10.00V 8 00 33
Group P2 P4.13 P4.15 P4.00 P4.01 P4.02 Multi-function	Multi-function input / o FIC Minimum input FIC Maximum input S1 function S2 function S3 function	utput 0~F2.01 F2.01~20.0mA 0: no function 8: EMERGENCY STOP normally closed 32: Motor overheating protection	2.00V 10.00V 8 00 33
Group P2 P4.13 P4.15 P4.00 P4.01 P4.02 Multi-fund F2.30	Multi-function input / or FIC Minimum input FIC Maximum input S1 function S2 function S3 function ction Output Fan switch mode	0~F2.01 F2.01~20.0mA 0: no function 8: EMERGENCY STOP normally closed 32: Motor overheating protection 0: Auto; 1 ON; 2 OFF	2.00V 10.00V 8 00 33
Group P2 P4.13 P4.15 P4.00 P4.01 P4.02 Multi-fund F2.30 F2.34	Multi-function input / of FIC Minimum input FIC Maximum input S1 function S2 function S3 function ction Output Fan switch mode Motor temperature	utput 0~F2.01 F2.01~20.0mA 0: no function 8: EMERGENCY STOP normally closed 32: Motor overheating protection 0: Auto; 1 ON; 2 OFF 0~200°C	2.00∨ 10.00∨ 8 00 33 0 125°C
Group P2 P4.13 P4.15 P4.00 P4.01 P4.02 Multi-fund F2.30 F2.34	Multi-function input / or FIC Minimum input FIC Maximum input S1 function S2 function S3 function ction Output Fan switch mode Motor temperature alarm threshold	0~F2.01 F2.01~20.0mA 0: no function 8: EMERGENCY STOP normally closed 32: Motor overheating protection 0: Auto; 1 ON; 2 OFF 0~200°C	2.00∨ 10.00∨ 8 00 33 0 125°C
Group P2 P4.13 P4.15 P4.00 P4.01 P4.02 Multi-fund F2.30 F2.34	Multi-function input / of FIC Minimum input FIC Maximum input S1 function S2 function S3 function ction Output Fan switch mode Motor temperature alarm threshold Air compressor constant	utput 0~F2.01 F2.01~20.0mA 0: no function 8: EMERGENCY STOP normally closed 32: Motor overheating protection 0: Auto; 1 ON; 2 OFF 0~200°C t pressure control specific parameters (set P6.00 = 1 is	2.00∨ 10.00∨ 8 00 33 0 125°C valid)
Group P2 P4.13 P4.15 P4.00 P4.01 P4.02 Multi-fund F2.30 F2.34 Group P5 P5.00	Multi-function input / or FIC Minimum input FIC Maximum input S1 function S2 function S3 function ction Output Fan switch mode Motor temperature alarm threshold Air compressor constant Frequency pressure	utput 0~F2.01 F2.01~20.0mA 0: no function 8: EMERGENCY STOP normally closed 32: Motor overheating protection 0: Auto; 1 ON; 2 OFF 0~200°C c pressure control specific parameters (set P6.00 = 1 is P5.02~P5.01	2.00∨ 10.00∨ 8 00 33 0 125°C valid) 7.00kgf/cm2
Group P2 P4.13 P4.15 P4.00 P4.01 P4.02 Multi-fund F2.30 F2.34 Group P5 P5.00 P5.01	Multi-function input / or FIC Minimum input FIC Maximum input S1 function S2 function S3 function ction Output Fan switch mode Motor temperature alarm threshold Air compressor constant Frequency pressure Unloading pressure	utput 0~F2.01 F2.01~20.0mA 0: no function 8: EMERGENCY STOP normally closed 32: Motor overheating protection 0: Auto; 1 ON; 2 OFF 0~200°C c pressure control specific parameters (set P6.00 = 1 is P5.02~P5.01 P5.00~P5.03	2.00∨ 10.00∨ 8 00 33 0 125°C valid) 7.00kgf/cm2 8.00kgf/cm2

P5.03	Stop pressure	P5.01~30.00kgf/cm2	10.00kgf/cm2
P5.04	Pressure gauge range	0.00~30.00kgf/cm2	16.00kgf/cm2
P5.05	Fan start temperature	Fan stop temperature~120.0C°C	80°C
P5.06	Fan stop temperature	0~Fan start temperature	70°C
P5.07	Stop Temperature	Fan start temperature~180°C	100°C
P5.08	Start-up delay	0~100s	3s
P5.09	Loading delay	0~3000s	20s
P5.10	Uninstall delay	0~3000s	120s
P5.11	Restart delay	0~3000s	5s
P5.12	Stop delay	0~3000s	30s
P5.22	Fan current coefficient		
P5.53	Loading	0: No function; 1: Running;	10(loading)
P5.54	3phase 380V fan	2: Fault; 10: Loading; 11: Fan of air compressor	11
			•
Group 1	P 6		
P6.00	Compressor constant voltage control mode valid	0- Invalid 1- Valid	0
Group I P6.00 P6.02	Compressor constant voltage control mode valid Inverter fan temperature	0- Invalid 1- Valid	0 75°C
Group I P6.00 P6.02 P6.07 P6.07	Compressor constant voltage control mode valid Inverter fan temperature PID-P	0- Invalid 1- Valid 0.0~200.0	0 75℃ 100.0
Group I P6.00 P6.02 P6.07 P6.08	Compressor constant voltage control mode valid Inverter fan temperature PID-P PID-I	0- Invalid 1- Valid 0.0~200.0 0.0~200.0s	0 75°C 100.0 0.5s
Group I P6.00 P6.02 P6.07 P6.08 P6.10 P6.10	Compressor constant voltage control mode valid Inverter fan temperature PID-P PID-I PID Steps	0- Invalid 1- Valid 0.0~200.0 0.0~200.0s 0.00~10.00Hz	0 75℃ 100.0 0.5s 2.50Hz
Group Image: Constraint of the second s	Compressor constant voltage control mode valid Inverter fan temperature PID-P PID-I PID Steps PID feedback loss alarm mode	0- Invalid 1- Valid 0.0~200.0 0.0~200.0s 0.00~10.00Hz 0: No warning 1: Warning but not stop, fault code "20" 2: warning and stop, fault code"20"	0 75°C 100.0 0.5s 2.50Hz 0
Group Group <th< td=""><td> Compressor constant voltage control mode valid Inverter fan temperature PID-P PID-I PID Steps PID feedback loss alarm mode PID feedback loss detection value </td><td>0- Invalid 1- Valid 0.0~200.0 0.0~200.0s 0.00~10.00Hz 0: No warning 1: Warning but not stop, fault code "20" 2: warning and stop, fault code "20" Range :0~10.0V (If 4~20mA is selected, it is disconnected if it is less than 2mA; set P622=2mA*500Ω=0.50V)</td><td>0 75℃ 100.0 0.5s 2.50Hz 0 1.00V</td></th<>	 Compressor constant voltage control mode valid Inverter fan temperature PID-P PID-I PID Steps PID feedback loss alarm mode PID feedback loss detection value 	0- Invalid 1- Valid 0.0~200.0 0.0~200.0s 0.00~10.00Hz 0: No warning 1: Warning but not stop, fault code "20" 2: warning and stop, fault code "20" Range :0~10.0V (If 4~20mA is selected, it is disconnected if it is less than 2mA; set P622=2mA*500Ω=0.50V)	0 75℃ 100.0 0.5s 2.50Hz 0 1.00V
Group Group <th< td=""><td>Compressor constant voltage control mode valid Inverter fan temperature PID-P PID-I PID Steps PID feedback loss alarm mode PID feedback loss detection value</td><td>0- Invalid 1- Valid 0.0~200.0 0.0~200.0s 0.00~10.00Hz 0: No warning 1: Warning but not stop, fault code "20" 2: warning and stop, fault code "20" Range :0~10.0V (If 4~20mA is selected, it is disconnected if it is less than 2mA; set P622=2mA*500Ω=0.50V) 0.0s~20.0s</td><td>0 75°C 100.0 0.5s 2.50Hz 0 1.00V 1.00V</td></th<>	Compressor constant voltage control mode valid Inverter fan temperature PID-P PID-I PID Steps PID feedback loss alarm mode PID feedback loss detection value	0- Invalid 1- Valid 0.0~200.0 0.0~200.0s 0.00~10.00Hz 0: No warning 1: Warning but not stop, fault code "20" 2: warning and stop, fault code "20" Range :0~10.0V (If 4~20mA is selected, it is disconnected if it is less than 2mA; set P622=2mA*500Ω=0.50V) 0.0s~20.0s	0 75°C 100.0 0.5s 2.50Hz 0 1.00V 1.00V
Group Group <th< td=""><td>Compressor constant voltage control mode valid Inverter fan temperature PID-P PID-I PID Steps PID feedback loss alarm mode PID feedback loss detection value PID feedback loss detection value</td><td>0- Invalid 1- Valid 0.0~200.0 0.0~200.0s 0.00~10.00Hz 0: No warning 1: Warning but not stop, fault code "20" 2: warning and stop, fault code "20" Range :0~10.0V (If 4~20mA is selected, it is disconnected if it is less than 2mA; set P622=2mA*500Ω=0.50V) 0.0s~20.0s</td><td>0 75°C 100.0 0.5s 2.50Hz 0 1.00V 1.00V</td></th<>	Compressor constant voltage control mode valid Inverter fan temperature PID-P PID-I PID Steps PID feedback loss alarm mode PID feedback loss detection value PID feedback loss detection value	0- Invalid 1- Valid 0.0~200.0 0.0~200.0s 0.00~10.00Hz 0: No warning 1: Warning but not stop, fault code "20" 2: warning and stop, fault code "20" Range :0~10.0V (If 4~20mA is selected, it is disconnected if it is less than 2mA; set P622=2mA*500 Ω =0.50V) 0.0s~20.0s	0 75°C 100.0 0.5s 2.50Hz 0 1.00V 1.00V

P8.00	Group P8 Parameter Lock	0- LOCK 1- UNLOCK	1
P8.13	Phase sequence detection times	0~1000	300
P8.14	Temperature correction	0-200.0%	100%
	coefficient		
P8.15	Inverter type	0- Synchronous, 1- Asynchronous	0
P8.16	Fan work mode	1	1
Air Comp	ressor Fault Type		
H-OP		Over voltage alarm	
н-он		Over-temperature alarm	
ΝΟΤΟ		Motor overheating protection	
ES		EMERGENCY stop	
со		Communication failure (inverter)	
PHAS		Phase sequence fault	
NNA		Pressure Sensor disconnection fault	
djoH		Motor over-temperature alarm	
Master inv	verter fault		
oC1 oC2 oC3		Over current	
oU1 oU2 (bU3	Over voltage	
LU		Under voltage	
CBC		Rapid current limit timeout	
Lo		Output phase loss	
oL1		Motor overload	
oL2		Inverter overload	
оН		Inverter overheat	
IE		Current detection abnormal	
CE		Communication timeout	
EF		External fault	

RAY	Relay abnormal
Inverter fan fault	
FoC1, FoC2, FoC3	Output short circuit
FUC1,FUC2,FUC3	Output short circuit
FoU1,FoU2,FoU3	Over voltage
FLU	Under voltage
Flo	Output phase loss
FoL1,FoL2,FoL3	Inverter overload
FoH	Inverter overheat