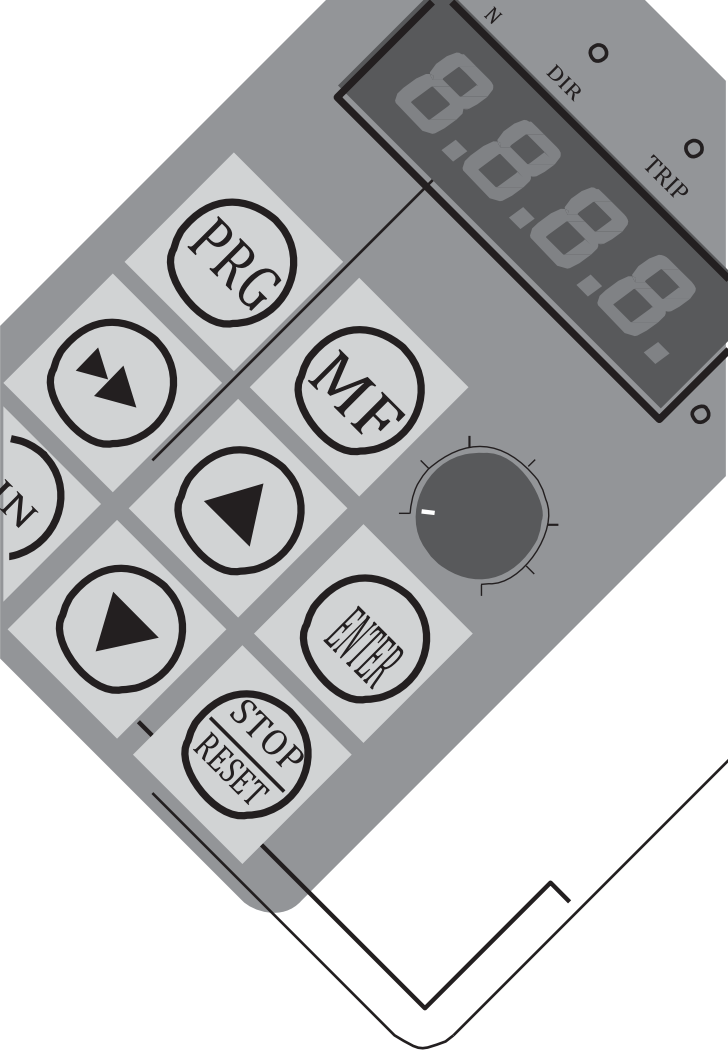


Parameters table

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Function parameter table

○—Parameter that can be modified in any state ×—Unmodifiable parameters in the running state

◆—Actual test parameters cannot be modified ◇—Factory parameters which are limited to the manufacturer's modification, the user is prohibited frommodifying

Group P0 - Basic operating parameters					
Function Code	**Name**	**Content**	**Predetermined Area**	**Factory Default**	**Modification**
P0.00	Power specification of frequency converter	Display current power	0.10~99.99kw	Device settings	◆
P0.01	Software version of the master controller	Display current software version number	1.00~99.99	1.00	◆
P0.02	Run command channel selection	0: The panel runs the command channel 1: The terminal runs the command channel 2: The communication runs command channels	0~2	0	○
P0.03	Frequency setting selection	0: Panel potentiometer 1: Number given 1, adjustby operating ▲/▼ keys on the panel 2: Number given 2, adjustby terminals UP/DOWN 3: AVI simulation given (0～10V/0~20mA) 4: Combination given 5: Reserved 6: Communication given 7: Reserved 8:MPPT given Note: When selecting the combination given, select the mode of combination given mode in P1.15.	0~8	0	○

P0.04	Maximum output frequency	The maximum output frequency is the highest frequency allowed by the frequency converter and the reference for the acceleration/ deceleration setting.	MAX {50.0, [P0.05]} ~ 999.9Hz	50.0Hz	×
P0.05	Upper frequency	The operating frequency cannot exceed this frequency	MAX {0.1, [P0.06]} ~ [P0.04]	50.0Hz	×
P0.06	Low limit frequency	The operating frequency cannot be lower than this frequency	0.0~Upper limit frequency	0.0Hz	×
P0.07	The processing at the lower limit frequency	0: Running at zero speed 1: Running at lower frequency 2: Stop	0~2	0	×
P0.08	Operation frequency digital setting	The set value is a given initial value of the frequency number	0~upper limit frequency	10.0Hz	○
P0.09	Digital frequency control	LED ones place: Storage at power off 0: Store 1: Do not store LED tens place: Keep state at downtime 0: Keep 1: Do not keep LED hundreds place: UP/DOWN negative frequency regulation 0: Invalid 1: Valid LED thousands place: PID and PLC frequency overlay options 0: Invalid 1: P0.03+PID 2: P0.03+PLC	0000~2111	0000	○

P0.10	Acceleration time	Time required for the frequency converter to accelerate from zero frequency to the maximum output frequency	0.1～999.9S 0.4～4.0KW 7.5S 5.5～7.5KW 15.0S	Device setting	○
P0.11	Deceleration time	Time required for the frequency converter to decelerate from maximum output frequency to zero frequency			
P0.12	Running direction setting	0: Forward 1: Reverse 2: Ban reversing	0~2	0	○
P0.13	V/F curve setting	0: Linear curve 1: Square curve 2: Multipoint VF curve	0~2	0	×
P0.14	Torque lift	Vector control: Please set this parameter to 0.0 VF control: This parameter is manual torque lift; this value is set relative to the motor rating Percent voltage.	0.0~30.0%	Device setting	○
P0.15	Cut-off frequency of torque lift	This setting is the lifting cut- off frequency point of manual torque lifting	0.0~50.0Hz	15.0Hz	×
P0.16	Carrier frequency setting	For the occasion of silent operation, the carrier frequency can be increased to meet the requirements appropriately, but increasing the carrier frequency will increase the heat of frequency converter.	2.0~16KHz 0.4~3.0KW 4.0KHz 4.0~7.5KW 3.0KHz	Device setting	×

P0.17	V/F frequency value F1		0.1~frequency Value F2	12.5Hz	×
P0.18	V/F voltage value V1		0.0~ Voltage value V2	25.0%	×
P0.19	V/F frequency value F2		Frequency value F1 ~ Frequency value F3	25Hz	×
P0.20	V/F Voltage value V2		Voltage value V1 ~ Voltage value V3	50%	×
P0.21	V/F frequency value F3		Frequency value F2 ~ Motor rated power [p4.03]	37.5Hz	×
P0.22	V/F Voltage value V3		Voltage value V2~100.0% multiply Uoute(Motor rated voltage[p4.00])	75%	×
P0.23	User password	Set any non-zero number and wait 3 minutes or power down before it takes effect.	0~9999	0	×
P0.24	Frequency display resolution selection	Note: To set this parameter, be sure to check the frequency-related parameters such as maximum output frequency (F0.04), frequency upper limit (F0.05), motor rated frequency (P4.03).	0～1	0	○
P0.25	Motor control method	0: VF control 1: Advanced VF Control 2: Simple vector control 3: Advanced vector control 4: Torque control	0～4	0	×
P0.26	Function macro definition (temporarily reserved)	0: common mode 1: Single pump constant pressure water supply mode 2: One drag two constant pressure water supply mode 3: Backpack smart small water pump mode 4: Engraving machine mode 5: Safe scene application mode 6: High torque starting scene application mode 7: Quick start and stop scene application mode 8: Automatic energy-saving scene application mode 9: Custom mode (please refer to the custom macro parameter group, a maximum of 16 parameter application combinations are supported) 10: reserved	0～10	0	×

P1 group - auxiliary operating parameters					
Functio ncode	Name	Setting range	Minimum Unit	Factory default	Modifi cation
P1.00	Start mode	LED ones place: Starting type 0: Start from the starting frequency 1: First dc braking and then start fromthe starting frequency LED tens place: power failure or abnormal restart mode 0: Invalid 1: Start from the starting frequency LED hundreds place: Reserve LED thousands place: Reserve	0000~0011	00	×
P1.01	Start frequency		0.0~50.0Hz	1.0Hz	○
P1.02	Start dc braking voltage		0.0~ 50.0% × Motor rated voltage	0.0%	○
P1.03	Start dc braking time		0.0~30.0s	0.0s	○
P1.04	Stop mode	0: Slowing down to stop 1: Stopping freely	0 1	0	×
P1.05	Starting frequency of stop DC braking		0.0~upper limit frequency	0.0Hz	○
P1.06	Stop DC braking voltage		0.0~50.0% ×Motor rated voltage	0.0	○
P1.07	Stop DC braking time		0.0 30.0s	0.0s	×
P1.08	Waiting time of stop DC braking		0.00~99.99s	0.00s	×
P1.09	Frequency setting of forward jog	Set the frequency of forward and reverse jog	0.0~50.0Hz	10.0Hz	○
P1.10	Frequency setting of reverse jog				

P1.11	Jog acceleration time	Set the jog acceleration and deceleration time	0.1～999.9S 0.4～4.0KW 10.0S 5.5～7.5KW 15.0S	Device setting	○
P1.12	Jog deceleration time				
P1.13	Hopping frequency	The frequency converter can avoid the mechanical resonance point of load by setting the jumping frequency and range,	0.0~upper limit frequency	0.0Hz	○
P1.14	Hopping range		0.0~10.0Hz	0.0Hz	○
P1.15	Combination of frequency setting method	0: Potentiometer + digital frequency 1 1: Potentiometer + digital frequency 2 2: Potentiometer + AVI 3: Digital frequency 1+AVI 4: Digital frequency 2+AVI 5: Digital frequency 1+SPD 6: Digital frequency 2+SPD 7: Potentiometer + SPD	0 7	0	×
P1.16	Programmable operation control (Simple PLC operation)	LED ones place: PLC controller 0: Invalid 1: Valid LED tens place: Operation mode options 0: Single cycle 1: Continuous cycle 2: Keep the final value after a single cycle LED hundreds place: Start mode 0 Restart from the first stage 1 Start from the stage of stop (fault) moment 2 Start from the stage and frequency of stop (fault) moment LED thousands place: Power down storage options 0: Do not store 1: Store	0000~1221	0000	×
P1.17	Multi-speed frequency 1	Set the frequency in velocity period 1	Negative upper limit frequency~ Upper limit	5.0Hz	○

P1.18	Multi-speed frequency 2	Set the frequency in velocity period 2	Negative upper limit frequency~ Upper limit frequency	10.0Hz	○
P1.19	Multi-speed frequency 3	Set the frequency in velocity period 3	Negative upper limit frequency~ Upper limit frequency	15.0Hz	○
P1.20	Multi-speed frequency 4	Set the frequency in velocity period 4	Negative upper limit frequency~ Upper limit frequency	20.0Hz	○
P1.21	Multi-speed frequency 5	Set the frequency in velocity period 5	Negative upper limit frequency~ Upper limit frequency	25.0Hz	○
P1.22	Multi-speed frequency 6	Set the frequency in velocity period 6	Negative upper limit frequency~ Upper limit frequency	37.5Hz	○
P1.23	Multi-speed frequency 6	Set the frequency in velocity period 7	Negative upper limit frequency~ Upper limit frequency	50.0Hz	○
P1.24	Running time of stage 1	Set the running time of stage 1 (unit is chosen by [P1.35] and defaults to seconds)	0.0~999.9s	10.0s	○
P1.25	Running time of stage 2	Set the running time of stage 2 (unit is chosen by [P1.35] and defaults to seconds)	0.0~999.9s	10.0s	○
P1.26	Running time of stage 3	Set the running time of stage 3 (unit is chosen by [P1.35] and defaults to seconds)	0.0~999.9s	10.0s	○
P1.27	Running time of stage 4	Set the running time of stage 4(unit is chosen by [P1.35] and in second by default)	0.0~999.9s	10.0s	○

P1.28	Running time of stage 5	Set the running time of stage 5(unit is chosen by [P1.35] and in second by default)	0.0~999.9s	10.0s	○
P1.29	Running time of stage 6	Set the running time of stage 6(unit is chosen by [P1.35] and in second by default)	0.0~999.9s	10.0s	○
P1.30	Running time of stage 7	Set the running time of stage 7(unit is chosen by [P1.35] and in second by default)	0.0~999.9s	10.0s	○
P1.31	Stage acceleration and deceleration time option 1	LED ones place: Acceleration and deceleration time in stage 1 0~1 LED tens place: Acceleration and deceleration time in stage 2 0~1 LED hundreds place: Acceleration and deceleration time in stage 3 0~1 LED thousands place: Acceleration and deceleration time in stage 4 0~1	0000~1111	0000	○
P1.32	Stage acceleration and deceleration time option 2	LED ones place: Acceleration and deceleration time in stage 5 0~1 LED tens place: Acceleration and deceleration time in stage 6 0~1 LED hundreds place: Acceleration and deceleration time in stage 7 0~1 LED thousands place: Reserve	000~111	000	○
P1.33	Acceleration time 2	Set acceleration and deceleration time 2	0.1～999.9s 0.4～4.0KW 10.0s 5.5～7.5KW 15.0s	10.0s	○
P1.34	Deceleration time2				

P1.35	Time unit selection	LED ones place: Time unit of process PLC LED tens place: Time unit of simple PLC LED hundreds place: Regular acceleration and deceleration time LED thousands place: Reserve 0: Unit is in 1 second 1: Unit is in 1 minute 1: Unit is in 0.1 second	000~211	000	×

Group P2 - analog and digital input and output parameters					
Function code	**Name**	**Setting range**	**Minimum Unit**	**Factory default**	**Modification**
P2.00	AVI input lower limit voltage	Set AVI upper and lower limits of voltage	0.00~ [P2.01]	0.00V	○
P2.01	AVI input upper limit voltage		[P2.01] ~ 10.00V	10.00V	○
P2.02	AVI lower limit corresponding setting	Set the AVI upper and lower limits corresponding setting which is corresponding to the percentage of the upper limit frequency [P0.05]	-100.0%~ 100.0%	0.0%	○
P2.03	AVI upper limit corresponding setting			100.0%	○
P2.04	AVI input lower limit voltage	Set ACI upper and lower limits of current	0.00~ [P2.05]	0.00mA	○
P2.05	AVI input upper limit voltage		[P2.04] ~ 20.00mA	20.00mA	○
P2.06	ACI lower limit corresponding setting	Set the ACI upper and lower limits corresponding setting which is corresponding to the percentage of the upper limit frequency [P0.05]	-100.0%~100.0%	0.0%	○
P2.07	ACI upper limit corresponding setting			100.0%	○
P2.08	Time constant of analog input signal filtering	This parameter is used to filter input signals of AVI, ACI and panel potentiometers to eliminate the influence of interference.	0.1~5.0s	0.1s	○
P2.09	Anti - shake error limit of analog input	When the analog input signal fluctuates frequently near the given value, P2.09 can be set to suppress the frequency fluctuation caused by this fluctuation.	0.00~0.10V	0.00V	○

P2.10	AO analog output terminal function selection	0: Output frequency 1: Output current 2: Motor speed 3: Output voltage 4: AVI 5: ACI	0~5	0	○
P2.11	AO output lower limit	Set the AO output upper and lower limits	0.00~10.00V/ 0.00~20.00mA	0.00V	○
P2.12	AO output upper limit			10.00V	○
P2.13	Input Terminal X1 function	0: Idle control terminal 1: Forward jog control2: Reverse jog control 3: Forward control (FWD) 4: Reverse control (REV) 5: Three-wire operation control 6: Free stop control 7: External stop signal input (STOP) 8: External reset signal input (RST)9: External fault normally open input 10: Frequency up command (UP) 11: Frequency down command (DOWN) 13: Multi-speed option S1 14: Multi-speed option S2 15: Multi-speed option S3 16: Run command channel forced to be terminal 17: Run command channel forced to be communication 18: Stop DC braking command 19: Frequency switching to AVI20: Frequency switching to digital frequency 1 21: Frequency switching to digital	0～60	3	×
P2.14	Input Terminal X2 function		～ 0～60	4	×
P2.15	Input Terminal X3 function		～ 0～60	0	×
P2.16	Input Terminal X4 function		～ 0～60	0	×

P2.17	Input Terminal X5 function	frequency 2 22: Reserved 23: Counter clear signal24: Counter trigger signal 25: Timer clear signal 26: Timer trigger signal 28: Swing frequency pause (stop at the current frequency) 29: Swing frequency reset (back to center frequency) 30: External stop/reset signal input (STOP/RST) 31~60: Reserved	~ 0～60 ~	22	×
P2.18	FWD/REV terminal control mode	0: Two-wire control mode 1 1: Two-wire control mode 2 2: Three-wire control mode 1 3: Three-wire control mode 2 4～5：Reserved	0～5 ~	0	×
P2.19	Terminal function detection selection at power-on	0: Terminal run command is invalid at power-on 1: Terminal run command is valid at power-on	0 ~1 ~	0	×
P2.20	R output setting	0: Idle 1: The frequency converter is ready for operation 2: The frequency converter is running 3: The frequency converter runs at zero speed 4: External downtime	0 ~ 14	5	○
P2.21	Y1 Output Setting	5: Frequency converter failure 6: Frequency/speed arrival signal (FAR) 7: Frequency/speed level detection signal (FDT 8: Output frequency reaches the upper limit 9: Output frequency reaches the lower limit 10: Frequency converter overload pre-alarm 11: Timer overflow signal 12: Counter detection signal 13: Counter reset signal 14: Auxiliary motor	0 ~ 14	0	◆

P2.22	Closing delay	The delay of the relay R state changes to the output change	0.0~255.0s	0.0s	×
P2.23	Disconnection delay				
P2.24	Frequency reaches the FAR detection range	The output frequency is within the positive and negative detection width of the set frequency, and the terminal outputs a valid signal (low level).	0.0Hz~15.0Hz	5.0Hz	○
P2.25	FDT level setting value		0.0Hz~ frequency upper limit	10.0Hz	○
P2.26	FDT hysteresis value		0.0~30.0Hz	1.0Hz	○
P2.27	UP/DOWN terminal end rate	The function code is the frequency end rate when the UP/DOWN terminal setting frequency is set, that is, the amount of frequency change when UP/DOWN terminal is shorted to the COM terminal for one second.	0.1Hz~99.9Hz/s	1.0Hz/s	○
P2.28	Input terminal pulse trigger mode setting (X1~ X5)	0: Indicates the level trigger mode 1: Indicates the pulse trigger mode	0~1FH	0	○
P2.29	Input terminal effective logic setting (X1~X5)	0: Indicates positive logic, that is, the connection between the Mi terminal and the common terminal is valid, and the disconnection is invalid 1: Indicates the inverse logic, that is, the connection between the Mi terminal and the common terminal is invalid, and the disconnection is valid.	0~1FH	0	○

P2.30	X1 Filter coefficient	Used to set the sensitivity of the input terminals. If the digital input terminal is susceptible to interference and cause malfunction, you can increase this parameter to increase the anti-interference ability, but if the setting is too large, the sensitivity of the input terminal will decrease. 1: Represent 2MS scan time unit	0~9999	5	○
P2.31	X2 Filter coefficient		0~9999	5	○
P2.32	X3 Filter coefficient		0~9999	5	○
P2.33	X4 Filter coefficient		0~9999	5	○
P2.34	X5 Filter coefficient		0~9999	5	○

Group P3 - PID parameters					
Function code	**Name**	**Setting range**	**Minimum unit**	**Factory defaul**	**modification**
P3.00	PID function setting	LED ones place: PID adjustment characteristics 0: Invalid 1: Positive action When the feedback signal is greater than the given amount of PID, the output frequency of frequency converter is required to decrease (i.e., the feedback signal is reduced). 2: Negative action When the feedback signal is greater than the given amount of PID, the output frequency of the frequency converter is required to rise (i.e., the feedback signal is reduced). LED tens place: PID given amount channel 0: Keyboard potentiometer The PID given amount is given by the potentiometer on the operator panel. 1: Digital given The PID given amount is given by the number and set by the function code P3.01. 2: Pressure given (MPa, Kg) The pressure is given by setting P3.01 and P3.18. LED hundreds place: PID feedback amount input channel 0: AVI（0～10V/0～20mA） 1: Reserved LED thousands place: PID Sleep options 0: Invalid 1: Normal sleep This mode needs to set specific parameters such as P3.10~P3.13. 2: Disturbing sleep The parameter setting is the same as when the sleep mode is selected as 0. If the PID feedback value is within the range of the P3.14 set value, enter the disturbance sleep after the sleep delay time is maintained. When the feedback value is less than the wake threshold (the PID polarity is positive), it will wake up immediately.	0000~2122	1010	×

P3.01	The number setting given amount	Use the operation keypad to set the given amount of PID control. This function is valid only when the PID given channel selecting digital is given (P3.00 tens place is 1 or 2). If the P3.00 tens place is 2, it is used as the pressure given, and the unit of this parameter is consistent with of P3.18.	0.0~100.0%	0.0%	○
P3.02	Gain of Feedback channel	This function can be used to adjust the gain of the feedback channel signal when the feedback channel does not match the set channel level.	0.01~10.00	1.00	○
P3.03	Proportional gain P	The speed of the PID adjustment is set by the two parameters of proportional gain and integration time. It is required to increase the proportional gain and reduce the integration time to get high adjustment speed. It is required to reduce the proportional gain and increase the integration time to get a low adjustment speed. In general, the derivative time is not set.	0.01~5.00	2.00	○
P3.04	Integration time Ti		0.1~50.0s	1.0s	○
P3.05	Derivative time Td		0.1~10.0s	0.0s	○
P3.06	Sampling period T	The larger the sampling period, the slower the response, but the better the suppression of the interference signal, and it is generally not necessary to set it.	0.1~10.0s	0.0s	○
P3.07	Deviation limit	The deviation limit is the ratio of the absolute value of the deviation between the system feedback quantity and the given quantity to the given quantity, when the feedback quantity is within the deviation limit range, the PID adjustment does not work.	0.0~20.0%	0.0%	○

P3.08	Closed loop preset frequency	Frequency and running time of the frequency converter before the PID is put into operation	0.0~upper limit frequency	0.0Hz	○
P3.09	Preset Frequency hold time		0.0~999.9s	0.0s	×
P3.10	Wake-up threshold coefficient	If the actual feedback value is greater than the set value and the output frequency of the frequency converter reaches the lower limit frequency, the frequency converter enters the sleep state (i.e., zero speed running) after the delay waiting time defined by P3.12; the value is the percentage of PID set value.	0.0~150.0%	**100.0%**	○
P3.11	Awakening threshold coefficient	If the actual feedback value is less than the set value, the frequency converter will leave the sleep state after the delay waiting time defined by P3.13, and start working; this value is the percentage of the PID set value	0.0~150.0%	90.0%	○
P3.12	Sleep delay time	Set the sleep delay time	0.0~999.9s	100.0s	○
P3.13	Awakening delay time	Set the awakening delay time	0.0~999.9s	1.0s	○
P3.14	The difference between the feedback and the set pressures when entering sleep	This function parameter is valid onlyfor the disturbance sleep mode.	0.0~10.0%	0.5%	○
P3.15	Burst detection delay time	Set the burst detection delay time	0.0～130.0s	0.0S	○

P3.16	High pressure detection threshold	When the feedback pressure is greater than or equal to this set value, the tube explosion fault “EPA0” is reported after the P3.15 burst tube delay. When the feedback pressure is less than this set value, the burst alarm “EPA0” is automatically reset; the given threshold is the percentage of pressure.	0.0~200.0%	150.0%	○
P3.17	Low pressure detection threshold	When the feedback pressure is less than or equal to this set value, the tube explosion fault “EPA0” is reported after the P3.15 burst tube delay. When the feedback pressure is greater than this set value, the burst alarm “EPA0” is automatically reset; the given threshold is the percentage of pressure.	0.0~200.0%	50.0%	○
P3.18	Sensor range	Set the maximum range of the sensor	0.00~99.99 (MPa/Kg)	10.00MPa	○

Group P4 - Advanced Function Parameters					
Function code	name	Setting range	Minimum unit	Factory default	Modification
P4.00	Motor rated voltage	Motor parameter setting	0~500V: 380V 0~250V: 220V	Service setting	×
P4.01	Motor rated current		0.1~999A	Service setting	×
P4.02	Motor rated speed		0~60000Krpm	Service setting	×
P4.03	Motor rated frequency		1.0~999.9Hz	50.0Hz	×
P4.04	Motor stator resistance	Set the motor stator resistance	0.001~20.000Ω	Service setting	○
P4.05	Motor no-load current	Set the motor no-load current	0.1~ [P4.01]	Service setting	×
P4.06	AVR function	0: Invalid 1: Valid throughout 2: Invalid only during deceleration	0~2	0	×
P4.07	Cooling fan control	0: Automatic control mode 1: Keep running during the power- on process	0~1	0	○
P4.08	Number of automatic resets	When the number of fault resets is set to 0, there is no automatic reset function, only manual reset, and 10 means that the number of times is not limited, that is, countless times	0~1	0	×
P4.09	Interval of fault auto reset	Set the interval of fault auto reset	0.5~25.0s	3.0s	×
P4.10	Energy consumption brake starting voltage	If the internal DC side voltage of the frequency converter is greater than the energy consumption brake starting voltage, the built-in brake unit operates. If the brake resistor is connected at this time, the voltage	330~380/660~800V	385/720V	○

P4.11	Energy consumption braking action ratio	energy boosted inside the frequency converter will be released through braking resistor, causing the DC voltage to fall back.	10~100%	100%	○
P4.12	Overmodulation function selection	0: invalid 1: Valid	0～1	0	×
P4.13	PWM mode	0: full frequency seven segments 1: Full frequency five segments 2: Seven segments turn to five segments 3: single-phase drive mode	0～3	0	×
P4.14	Slip compensation coefficient	After the asynchronous motor is loaded, the speed will drop, and the use of slip compensation can make the motor speed close to its synchronous speed, so that the motor speed control accuracy is higher. This coefficient is only valid for common V/F and simple vector.	0～200%	100%	×
P4.15	slip compensation mode	0: invalid 1: low frequency compensation Note: This parameter is only valid for advanced V/F	0～1	0	×
P4.16	Motor parameter self-learning	0: invalid 1: Static self-learning (Start will be displayed immediately after starting, and END will be displayed after end,and 1S later turn off)	0～1	0	×
P4.17	Motor rated power	After changing the motor rated power P4.17, P4.01, P4.02, P4.04, P4.05, P4.18~P4.20 are automatically updated to the default motor parameters of the corresponding power.	0.0～2000.0KW	Model Setting	○
P4.18	Motor rotor resistance		0.00～200.00Ω	Model Setting	○

P4.19	Motor stator and rotor inductance		0.00～200.00mH	Model Setting	○
P4.20	Motor stator and rotor mutual inductance		0.00～200.00mH	Model Setting	○
P4.21	Speed loop (ASR1) proportional gain	Function codes P4.21~P4.26 are valid in vector control mode. By setting proportional gain P and integral time I, the speed response characteristics of vector control can be changed.	1～100	30	×
P4.22	Speed loop (ASR1) integral time		0.01～10.00S	0.50	○
P4.23	Switch low point frequency		0.0～10.0Hz	5.0	×
P4.24	Speed loop (ASR2) proportional gain		1～100	20	○
P4.25	Speed loop (ASR2) integral time		0.01～10.00S	1.00	○
P4.26	Switch high point frequency		【P4.23】～ 320.0Hz	10.0	×
P4.27	Vector slip compensation	In the vector control mode, this parameter is used to adjust the steady speed accuracy of the motor. When the motor is heavily loaded and the speed is low, increase this parameter, otherwise decrease this parameter.	50%～200%	100	○

P4.28	Speed loop filter time constant	Set the speed loop filter time constant	0.000～1.000S	0.010	○
P4.29	Reserved	-	-	0	◆
P4.30	Speed loop torque limit	The setting value is the percentage of the motor rated current	0.0%～200.0%	150.0	○
P4.31	Torque command selection	0: Keypad digital given 1: AVI (0～10V/0～20mA) 2: Reserved	0～2	0	×
P4.32	Torque digital given	The setting value is the percentage of the motor rated current	0.0%～200.0%* Motor rated current	150.0	○
P4.33	Torque control forward maximum frequency	It is used to set the inverter forward or reverse maximum running frequency in the torque control mode.	0.0～3200.0Hz	50.0	○
P4.34	Torque control reverse maximum frequency		0.0～3200.0Hz	50.0	○
P4.35	Torque rising time	The torque rise/fall time defines the time when the torque rises from 0 to the maximum value or falls from the maximum value to 0.	0.00～1.00S	0.00	○
P4.36	Torque Fall Time		0.00～1.00S	0.00	○

Group P5 - Protection function parameters					
Function code	Name	Setting range	Minimum unit	Factory default	Modification
P5.00	Protection settings	LED ones place: motor overload protection option 0: Invalid 1: Valid LED tens place: PID feedback disconnection protection 0: Invalid 1: Protect action and stop freely LED Hundreds place: 485Communication failure handling 0：Protection action and coast to stop 1：Alarm but maintain status quo running 2：Alarm and stop according to the set method LED Thousands place: Oscillation suppression options 0: Invalid 1: Valid	0000~1211	0001	×
P5.01	Motor overload protection coefficient	The motor overload protection coefficient is the percentage of the motor rated current value to the rated output current of the frequency converter.	30 ~110%	100%	×
P5.02	Undervoltage protection level	This function code specifies the lower limit voltage allowed by the DC bus when the frequency converter is working normally.	50~280/50~480V	180/360V	×
P5.03	Deceleration voltage limiting coefficient	This parameter is used to adjust the ability of the frequency converter to suppress overvoltage during deceleration.	0: shutdown, 1~255	1	×
P5.04	Overvoltage limit level	The overvoltage limit level defines the operating voltage for overvoltage stall protection	350~400/660~850V	375/790V	×

P5.05	Acceleration current limit coefficient	This parameter is used to adjust the ability of the frequency converter to suppress overcurrent during acceleration.	0: shut down, 1~99	10	×
P5.06	Constant speed current limiting coefficient	This parameter is used to adjust the ability of the frequency converter to suppress overcurrent during constant speed.	0: shut down, 1~10	0	×
P5.07	Current limit level	The current limit level defines the current threshold for the automatic current limit action, and its set value is relative to the percentage of rated current of the frequency converter.	50% ~250%	160%	×
P5.08	Feedback disconnection detection value	The value is the percentage of given amount of the PID. When the feedback value of the PID continues to be less than the feedback disconnection detection value, the frequency converter will make the corresponding protection action according to the setting of P5.00, which is invalid when P5.08=0.0%.	0.0~100.0%	0.0%	×
P5.09	Feedback disconnection detection time	After the feedback disconnection occurs, the delay time before the action is protected.	0.1~999.9S	10.0s	×
P5.10	Frequency converter overload pre-alarm level	The current threshold of the frequency converter overload pre- alarm action, the set value is relative to the rated current of the frequency converter.	0~150%	120%	○

P5.11	Frequency converter overload pre-alarm delay	The delay time between the output current of the frequency converter is continuously lager than the overload pre-alarm level (P5.10) and output overload pre-alarm signals.	0.0～9999.0s	5.0s	×
P5.12	Jog priority enable	0: Invalid 1: The jog priority is highest when the frequency converter is running	0~1	0	×
P5.13	Oscillation suppression coefficient	When the motor is oscillating, you should set the thousands place of P5.00 effective, turn on the oscillation suppression function and adjust by setting the oscillation suppression coefficient. Under normal circumstances, the oscillation amplitude is large, and increase the oscillation suppression coefficient P5.13, do not set P5.14~P5.16; if you encounter a special occasion, you need to use P5.13~P5.16 together.	0~200	30	○
P5.14	Amplitude suppression coefficient		0~12	5	○
P5.15	Oscillation suppression lower limit frequency		0.0~[P5.16]	5.0Hz	○
P5.16	Oscillation suppression upper limit frequency		[P5.15] ~ [P0.05]	45.0Hz	○
P5.17	Wave-by-wave current limit selection	LED ones place: options in acceleration 0: Invalid 1: Valid LED tens place: options in deceleration 0: Invalid 1: Valid LED Hundreds place: Options in constant speed running 0: Invalid 1: Valid LED Thousands place: Reserve	000~111	011	×

P5.18	Output phase loss protection detection coefficient	When the ratio of the maximum value to the minimum value of the three-phase output current is greater than this coefficient and lasts for more than 6 seconds, the inverter will report the output current imbalance fault EPLI; when F5.18=0.00, the output phase loss protection is invalid.	0.00～20.00	2.00	○
P5.19	Inverter overload selection	0: Pre-alarm output 1: User-defined inverter overload fault Note: See P5.10～P5.11 for details.	0～1	0	○

Group P6 - Communication parameters					
P6.00	Native address	Set the native address, and 0 is the broadcast address.	0~247	1	×
P6.01	MODBUS communication configuration	LED ones place: Baud rate options 0:9600BPS 1:19200BPS 2:38400BPS LED Tens place: Data Format 0: No parity 1: Even parity 2: Odd parity LED Hundreds place: Communication Response 0: Normal response 1: Only respond to the slave address 2: No response 3: Slave does not respond to the free stop command of the host in broadcast mode LED Thousands place: Reserve	0000~0322	0001	×
P6.02	Communication timeout checkout time	If the native machine does not receive the correct data signal within the interval time defined by this function code, then the native machine thinks that the communication has failed, and the frequency converter will decide whether to protect or maintain the current operation according to the setting of the communication failure action mode; when the value is set to 0.0, RS485 communication timeout is not detected.	0.1 100.0s	0.0S	×

P6.03	Native response delay	This function code defines the intermediate interval time between the end of the data frame reception of the frequency converter and the transmission of the response data frame to the host computer. If the response time is less than the system processing time, the system processing time shall prevail.	0~200ms	5ms	×
P6.04	Proportional linkage coefficient	This function code is used to set the weight coefficient of the frequency command of the frequency converter received through the RS485 interface as the slave. The actual running frequency of the native machine is equal to the value of this function code multiplied by the frequency setting command value received through the RS485 interface. In the linkage control, this function code can set the ratio of the running frequency of multiple frequency converters.	0.01~10.00	1.00	○

Group P7 - Supplementary Function P arameters					
Function code	Name	Setting range	Minimum unit	Factory default	Modification
P7.00	Counting and timing mode	LED ones place: Counting arrival processing 0: Single cycle count, stop outputting 1: Single cycle count, continue to output 2: Loop count, stop outputting 3: loop count, continue to output LED tens place: Reserve LED Hundreds place: Timing Arrival processing 0: One-week timing, stop outputting 1: Single-cycle timing, continue to output 2: Cycle timing, stop outputting 3: Cycle timing, continue to output LED Thousands place: Reserve	000~303	103	×
P7.01	Counter reset value setting	Set the counter reset value	[P7.02] ~9999	1	○
P7.02	Counter detection value setting	Set the counter detection value	0~ [P7.01]	1	○
P7.03	Timed time setting	Set timed time	0 9999s	0s	○
P7.04～P7.07	Reserved	-	-	0	◯
P7.08	Swing frequency control	0: prohibit 1: valid	0～1	0	×

P7.09	Amplitude control	0: fixed amplitude The amplitude reference value is the maximum output frequency (F0.04). 1: variable amplitude The amplitude reference value is a given channel frequency.	0～1	0	×
P7.10	Swing frequency stop and start mode selection	0: Start according to the state memorized before stopping 1: Restart the start	0～1	0	×
P7.11	Swing frequency amplitude	Swing frequency amplitude is the percentage relative to the maximum output frequency (F0.04).	0.0～100.0%	0.0%	○
P7.12	Sudden jump frequency	This function code refers to the range of rapid drop after the frequency reaches the upper limit of the swing frequency during the swing frequency process, and of course it also refers to the range of rapid rise after the frequency reaches the lower limit of the swing frequency. This value is the percentage relative to the swing frequency amplitude (P7.11), if it is set to 0.0%, there will be no Sudden jump frequency.	0.0～50.0%	0.0%	○
P7.13	Swing frequency rise time	The running time from the lower limit frequency of the swing frequency to the upper limit frequency of the swing frequency.	0.1～3600.0s	5.0	○
P7.14	Swing frequency fall time	The running time from the upper limit frequency of the swing frequency to the lower limit frequency of the swing frequency.	0.1～3600.0s	5.0	○
P7.15	Swing frequency upper limit frequency delay	Set the upper and lower limit frequency delay of the swing frequency.	0.1～3600.0s	5.0	○
P7.16	Swing frequency lower limit frequency delay		0.1～3600.0s	5.0	○

Group P8 - Management and Display Parameters					
Function code	Name	Setting range	Minimum unit	Factory default	Modification
P8.00	Operation monitoring parameter item selection	For example: P8.00=2, that is, select the output voltage (d-02), then the default display item of the main monitoring interface is the current output voltage value.	0~31	0	○
P8.01	Shut-down monitoring parameter selection	For example: P8.01=3, that is, select the bus voltage (d-03), then the default display item of the main monitoring interface is the current bus voltage value.	0~31	1	○
P8.02	Motor speed display factor	It is used to correct the display error of the speed scale and has no effect on the actual speed.	0.01~99.99	1.00	○
P8.03	Parameter initialization	0: No operation The frequency converter is in the normal parameter read-write status. Whether the function code setting value can be changed depends on the setting status of the user password and the current working status of the frequency converter. 1: Restore factory settings All user parameters are restored to the factory settings according to device. 2: Clear the fault record Clear the contents of the fault record (d-19~d-24). This function code is automatically cleared to 0 after the operation is completed.	0~2	0	×
P8.04	MF key setting	0: MF 1: Forward and reverse switching2: Clear frequency setting of ▲/▼ button 3: Reverse run (At this time, the RUN button defaults to forward)	0~3	0	×

P8.05	Slip Compensation Selection	0: invalid 1: valid After the asynchronous motor is loaded, the speed will drop, and the use of slip compensation can make the motor speed close to its synchronous speed, so that the motor speed control accuracy is higher.	0～1	0	×
P8.06	Instantaneous power off frequency drop coefficient	Set the instantaneous power-off frequency drop coefficient, the larger the set value, the faster the frequency drop.	0：Instantaneous stop non-stop function is invalid 1～9999	0	○
P8.07	Instantaneous power off frequency drop point	Set the Instantaneous power off frequency drop point	220V:180～330V 250V 380V:300～550V 450V	Model Setting	×
P8.08	MPPT low point working voltage	If the bus voltage (d-03) is higher than the MPPT high point working voltage (P8.09) set value, run at the maximum frequency; If it is lower than the MPPT high point working voltage (P8.09) set value, run at the frequency obtained by (bus voltage /MPPT high point working voltage) * maximum frequency, if the bus voltage reaches the MPPT low point working voltage (P8.08), run at the lowest outlet running frequency (P8.11).	0V～【F1.00】	Model Setting	○
P8.09	MPPT high point working voltage		【F1.01】～1000V	Model Setting	○

P8.10	Photovoltaic water pump water shortage detection current corresponding to no-load current ratio		Water shortage detection 0.0～300.0%	0.0	○
P8.11	Photovoltaic pump water output minimum running frequency	If the inverter runs above the minimum water outlet frequency, and the output current is less than the motor no-load current (P4.05) * the photovoltaic water pump water shortage detection current corresponding no-load current ratio (P8.10), after the photovoltaic water pump water shortage detection time (P8 .10), the inverter reports water shortage fault E-24.	0.0～999.9Hz	0.0	○
P8.12	Photovoltaic water pump water shortage detection time		0～250S	10	○
P8.13	Run auxiliary display monitoring parameter item selection	For example: P8.00=2, that is, select the output voltage (d-02), then the default display item on the main monitoring interface is the current output voltage value.	0～31	4	○
P8.14	Inverter Stop Auxiliary Display Monitoring Parameter Item Selection	For example: P8.01=3, that is, select the bus voltage (d-03), then the default display item on the main monitoring interface is the current bus voltage value.	0～31	3	○

Group P9 - manufacturer parameters					
Function code	**Name**	**Setting range**	**Minimum unit**	**Factory default**	**Modification**
P9.00	Manufacturer password	1~9999	1	****	◇
Group d - Monitoring parameter group					
Function code	**Name**	**Range**	**Minimum unit**	**Factory default**	**Modification**
d-00	Output frequency (Hz) setting	0.0~999.9Hz	0.1Hz	0.0Hz	◆
d-01	Frequency (Hz)	0.0~999.9Hz	0.1Hz	0.0Hz	◆
d-02	Output voltage (V)	0~999V	1V	0V	◆
d-03	Bus voltage (V)	0~999V	1V	0V	◆
d-04	Output current (A)	0.0~999.9A	0.1A	0.0A	◆
d-05	Motor speed (Krpm)	0~60000Krpm	1Krpm	Device setting	◆
d-06	Analog input AVI(V/mA)	0.00～10.00V/0.00～20.00mA	0.01V	0.00V/mA	◆
d-07	Analog input ACI (mA)	0.00~20.00mA	0.01mA	0.00mA	◆
d-08	Analog output AO(V/mA)	0.00～10.00V/0.00～20.00mA	0.01V/0.01mA	0.00V/mA	◆
d-09	Reservation	-	-	0	◆
d-10	Reserved	-	-	0	◆
d-11	PID pressure feedback value	0.00~10.00V/0.00~99.99(MPa/Kg)	0.01V/(MP)/Kg)	0.00V/(MPa/Kg)	◆
d-12	Current count value	0~9999s	1s	0s	◆
d-13	Current timing value (s)	0~9999s	1s	0s	◆
d-14	Input terminal status (X1-X5)	0~1FH	1H	0H	◆

d-15	Output relay status (R)	0~1H	1H	0H	◆
d-16	Module temperature (°C)	0.0~132.3℃	0.0～132.3℃	0.0～132.3℃	◆
d-17	Software upgrade date (year)	2010~2026	1	2017	◆
d-18	Software upgrade date (month, day)	0~1231	1	0914	◆
d-19	Second fault code	0~19	1	0	◆
d-20	Last fault code	0~19	1	0	◆
d-21	Output frequency (Hz) in the most recent fault	0.0~999.9Hz	0.1Hz	0.0Hz	◆
d-22	Output current (A) in the most recent fault	0.0~999.9A	0.1A	0.0V	◆
d-23	Bus voltage (V) in the most recent fault	999.9V	1V	0V	◆
d-24	Module temperature in the most recent fault (°C)	0.0~132.3℃	0.1℃	0.0℃	◆
d-25	Accumulated running time of the frequency converter (h)	0~9999h	1h	0h	◆

d-26	Frequency converter status	0 ~ FFFFH BIT0: Run/Stop BIT1: Reverse / Forward BIT2: Jog BIT3: DC braking BIT4: Reserve BIT5: Overvoltage limit BIT6: Frequency decreasing in constant speed BIT7: Overcurrent limit BIT8~9:00-zero speed/01-acceleration/10-deceleration/11-constant speed BIT10: Overload pre-alarm BIT11: Reserve BIT12~13 running command channel: 00-panel/01- terminal /10-reserve BIT14~15 bus voltage status: 00-normal/01-low voltage protection/10-overvoltage protection	1H	0H	◆
d-27	Software version	1.00～99.99	0.01	1.00	◆
d-28	Power model	0.10～99.9KW	0.01KW	Model Setting	◆
d-29	Motor estimated frequency	0.0～Maximum output frequency [F0.04] Note: The motor running frequency is converted from the motor estimated speed	0.1Hz	0.0Hz	◆
d-30	Output torque	-200～+200%	1%	0%	◆
d-31	Input voltage	0～999V	1V	Model Setting	◆

E Group-Fault Code				
Fault Code	Name	Possible Cause Of Fault	Fault Countermeasures	code name
E0C1	Overcurrent during acceleration	Acceleration time is too short	Extend acceleration time	1
		Inverter power is too small	Choose a larger power inverter	
		Improper setting of V/F curve or torque boost	Adjust V/F curve or torque boost	
E0C2	Overcurrent during deceleration	Deceleration time is too short	Extend deceleration time	2
		Inverter power is too small	Choose a larger power inverter	
E0C3	Overcurrent during uniform speed running	Grid voltage is low	Check input power	3
		Load mutation or abnormality	Check the load or reduce the load mutation	
		Inverter power is too small	Choose a larger power inverter	
EHU1	Overvoltage during acceleration	Abnormal input voltage	Check input power	4
		Restart the rotating motor	Set to start after DC braking	
EHU2	Overvoltage during deceleration	Deceleration time is too short	Extend deceleration time	5
		Abnormal input voltage	Check input power	
EHU3	Overvoltage during uniform speed running	Abnormal input voltage	Check input power	6
EHU4	Overvoltage when stop	Abnormal input voltage	Check the power supply voltage	7
ELU0	Undervoltage during running	The input voltage is abnormal or the relay is not drawn	Check the power supply voltage or seek service from the manufacturer	8
ESC1	Power module fault	Inverter output short circuit or ground	Check motor wiring	9
		Inverter instantaneous	Refer to overcurrent	
		The control board is abnormal or interfered seriously	Seek service from the manufacturer	
		Power device damage	Seek service from the	
E-0H	radiator overheating	Ambient temperature is too	reduce ambient temperature	10
		fan damage	replace the fan	
		Air duct blocked	Dredge the air duct	

EOL1	Inverter overload	Improper setting of V/F curve or torque boost	Adjust V/F curve and torque boost	11
		Grid voltage is low	Check grid voltage	
		Acceleration time is too short	Extend acceleration time	
		Motor load is too heavy	Choose a larger power inverter	
EOL2	Motor overload	Improper setting of V/F curve or torque boost	Adjust V/F curve and torque boost	12
		Grid voltage is low	Check grid voltage	
		The motor stalls or the sudden change of load is too large	Check the load	
		Motor overload protection factor setting is incorrect	Correctly set the motor overload protection coefficient	
E-EF	External device fault	External device fault input terminal closed	Disconnect the external device fault input terminal and clear the fault (pay attention to check the cause)	13
EPOF	Dual CPU communication fault	CPU communication fault	Seek service from the manufacturer	14
EPID	PID feedback disconnection	PID feedback line is loose	Check feedback wiring	15
		The feedback value is less than the disconnection detection value	Adjust detection input threshold	
E485	RS485 communication fault	Does not match the baud rate of the upper computer	Adjust baud rate	16
		RS485 channel interference	Check whether the communication connection is shielded, whether the wiring is reasonable, and if necessary, consider connecting the filter capacitor in parallel	
		communication timeout	Retry	
ETUN	Motor tuning fault	Motor parameter setting error	Reset the motor parameters	17
ECCF	Current detection fault	Current sampling circuit fault	Seek service from the manufacturer	18
		Auxiliary power fault		
EEEP	EEPROM read and write errors	EEPROM fault	Seek service from the manufacturer	19
EPLI	Output phase loss protection	Output U, V, W has phase loss	Check output wiring	20
E-LT	Photovoltaic water pump water shortage fault	Abnormal water pressure/level	Check whether the water pressure at the water pump inlet is abnormal	21
		The sensor is disconnected or poorly connected, and the system has no feedback	Check sensor installation and wiring	
EPAO	Burst tube fault	The feedback pressure is less than the low pressure detection threshold or greater than or equal to the high pressure detection threshold	Check the feedback connection or adjust the detection high and low pressure threshold	22

Communication Protocol

(The following data are all in hexadecimal**)**

1、RTU Mode And Format

When the controller communicates on the Modbus bus in RTU mode, each 8-bit byte in the information is divided into two 4-bit hexadecimal characters. The main advantage of this mode is the density of the characters it transmits at the same baud rate is above ASCII mode, each message must be transmitted consecutively.

（1）Format Of Each Byte In RTU Mode

Coding system: 8-bit binary, hexadecimal 0-9, A-F.

Data bit: 1 start bit, 8 data bits (lower bit send first), 1 stop bit, parity bit can be selected. (Refer to the sequence diagram of the RTU data frame)

Error check area: cyclic redundancy check (CRC).

（2） RTU Data Frame Bit Order Diagram

With parity check

Start	1	2	3	4	5	6	7	8	Par	Stop

No parity check

Start	1	2	3	4	5	6	7	8	Stop

2、Read And Write Function Codes Description:

Function Code	**Function Description**
03	Read register
06	Write register

3、Communication Protocol Parameter Address Description

Function Description	**Address Definition**	**Data Meaning Description**	**R/W**
Communication Control Command	2000H	0001H：Stop	W
		0012H：Forward running	
		0013H：Forward jog running	
		0022H：Reverse running	
		0023H：Reverse jog running	
Communication setting frequency address	2001H	Communication setting frequency range is -10000～10000. Note: The communication setting frequency is the percentage relative to the maximum frequency, and its range is -100.00%～100.00%).	W
Communication Control Command	2002H	0001H：External fault input	W
		0002H：Fault reset	
Read run/stop parameter description	2102H	Set frequency (two decimal places)	R
	2103H	Output frequency (two decimal places)	R
	2104H	Output current (one decimal place)	R
	2105H	Bus voltage (one decimal place)	R
	2106H	Output voltage (one decimal place)	R
	2107H	Analog input AVI (two decimal places)	R
	2108H	Analog input ACI (two decimal places)	R
	2109H	Current count value	R
	210AH	Motor speed	R
	210BH	Analog output AO（two decimal	R
	210CH	Reserved	R
	210DH	Inverter temperature (one decimal place)	R
	210EH	PID feedback value (two decimal places)	R
	210FH	PID set value (two decimal places)	R
	2110H	Reserved	R
	2111H	Pulse input frequency	R

	2112H	Current fault	R
	2113H	current timing value	R
	2114H	Input terminal state	R
	2115H	Output terminal state	R
	2116H	BIT0：Run/Stop BIT1：Forward/Reverse BIT2：Jog BIT3：DC braking BIT4：Reserved BIT5：overvoltage limit BIT6：constant speed down frequency BIT7：overcurrent limit BIT8~9：00-Zero speed/01-Acc/10- Dec/11-uniform speed BIT10：Overload pre-alarm BIT11：Reserved BIT12~13 running command channel：00-panel/01-termnial/10-communication BIT14~15 bus voltage status：00-normal/01-Low voltage protection/10-Overvoltage protection	R
	2101H	Bit0：Run Bit1：Stop Bit2：Jog Bit3：Forward Bit4：Reverse Bit5～Bit7：Reserved Bit8:Communication given Bit9：Analog signal input Bit10：Communication run command channel Bit11：parameter lock Bit12：running Bit13：Jog command Bit14～Bit 15：Reserved	R
Read fault code description	2100H	00：No abnormality 01：Module fault 02：Overvoltage 03：temperature fault 04：Inverter overload 05：Motor overload 06：external fault 07～09：Reserved 10：Overcurrent during acceleration 11：Overcurrent during deceleration 12：Overcurrent in constant speed 13：Reserved 14：Undervoltage	R

4、03 Read Function Mode：

Inquiry information frame format（send frame）:

Address	01H
Function	03H
Starting data address	21H
	02H
Data(2Byte)	00H
	02H
CRC CHK Low	6FH
CRC CHK High	F7H

Analysis of this segment of data:

01H is the inverter address

03H is the read function code

2102H is the starting address
0002H is the number of read addresses, and 2102H and 2103H
F76FH is 16-bit CRC check code

Response information frame format (return frame):

Address	01H
Function	03H
DataNum*2	04H
Data1[2Byte]	17H
	70H
Data2[2Byte]	00H
	00H
CRC CHK Low	FEH
CRC CHK High	5CH

Analysis of this segment of data:

01H is the inverter address

03H is the read function code

04H is the product of read items*2
1770H is to read the data of 2102H (setting frequency)
0000H is to read the data of 2103H (output frequency)

5CFEH is 16-bit CRC check code

5、06H Write Function Mode

Inquiry information frame format (send frame):

Address	01H
Function	06H
Starting data address	20H
	00H
Data(2Byte)	00H
	01H
CRC CHK Low	43H
CRC CHK High	CAH

Analysis of this segment of data:

01H is the inverter address

06H is the write function code

2000H is the control command address

0001H is the stop command

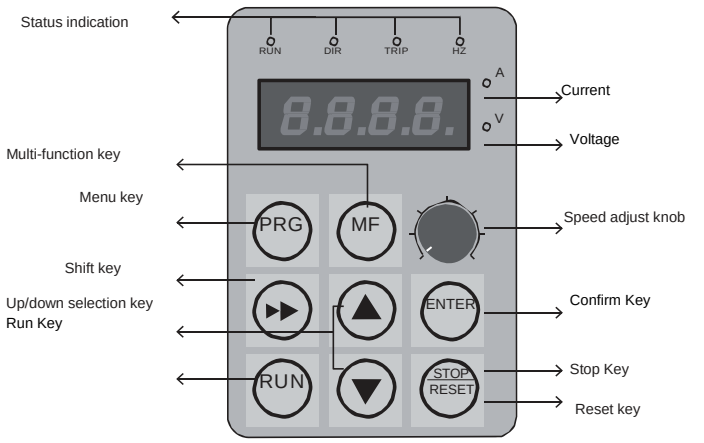
43CAH is 16-bit CRC check code

Response information frame format（return frame）:

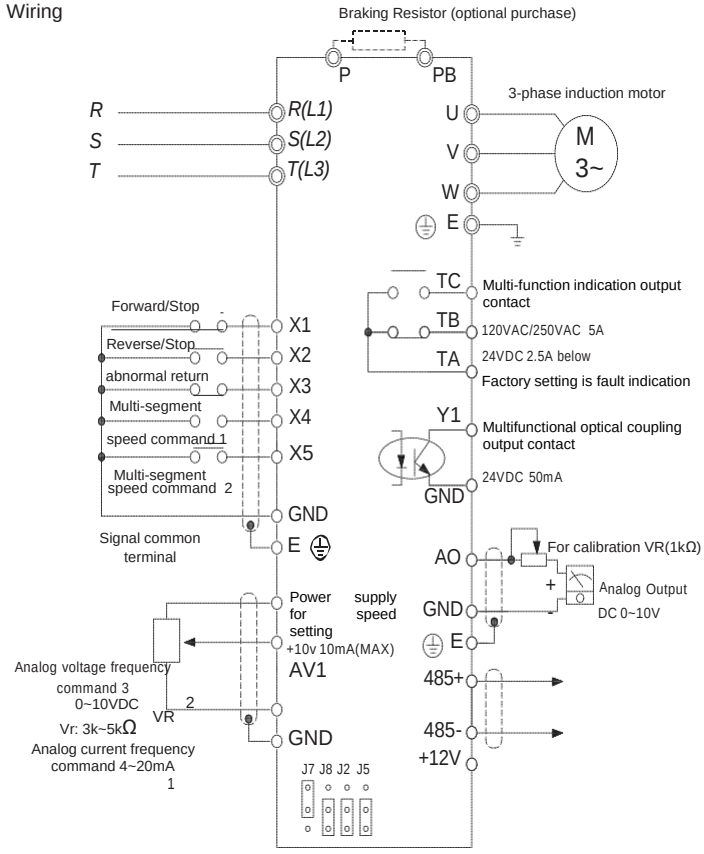
Address	01H
Function	06H
Starting data address	20H
	00H
Number of Data(Byte)	00H
	01H
CRC CHK Low	43H
CRC CHK High	CAH

Data analysis of this segment: If the settings are correct, return the same input data.

Operation Keypad Description

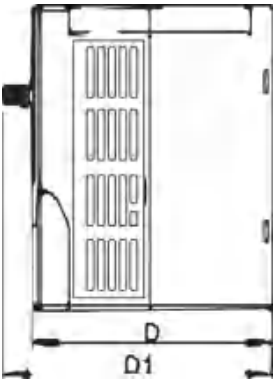


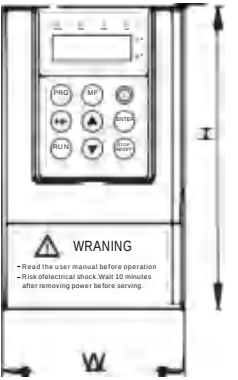
Wiring

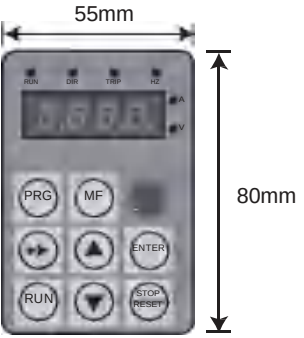


J7 is the ground terminal selection, disconnected by default
J8 is the selection of 485 terminal resistance, disconnected by default
J2 is the selection of AO output, the default is voltage output
J5 is the selection of AI input, the default is voltage input

Installation Dimensions







Hole Size

Voltage Grade	Power (KW)	Output Current (A)	w (MM)	H (MM)	D (MM)	D1 (MM)	Installation Hole Diameter (MM)
1-phase 110V	0.4	5	85	143	116	126	4. 5
	0.75	10					
	1.5	14	100	151	120	130	
1-phase 220V	0.4	2.5	85	143	116	126	
	0.75	5					
	1.5	7					
	2.2	10	100	151	120	130	
3-phase 380V	0.75	3					
	1.5	4					
	2.2	5					
	3. 7	8.5	113	209	188	198	
	5.5	13					
	7.5	17					