# HCFA TECHNOLOGY



#### Parameter List for E380/220 Series Inverter

Manual No.	HPPV00300EN
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http://www.hcfa.com.cn

unction code	Name	Description
P00.00	Motor operation mode	Select the operation mode for the mot
P00.02	Command source selection	Select the command source for the invert
P00.03	Frequency source A	
P00.04	Frequency source B	
P00.05	Frequency command operation relationship	1
P00.06	Range base of frequency source B	
P00.07	Range of frequency source B	Select the setting mode and
P00.08	Maximum output frequency	setting value for the set frequenc
P00.09	Frequency upper limit source	
P00.10	Frequency upper limit digital setting	
P00.11	Frequency lower limit	
P00.12	Setting frequency	1
P00.13	Acceleration time 0	Select the acceleration/ deceleration
P00.14	Deceleration time 0	time.
P00.23	Parameter initialization	Parameters will be initialized.
P00.24	Rotation direction selection of motor 1	Select the rotation direction for the mot
P00.25	Carrier frequency setting	
P00.26	Carrier frequency adjustment	Select the carrier frequency and
P00.27	PWM method	PWM method.
P00.33	Motor auto tuning	Select the auto tuning mode for the mo
P01.00	Start mode	
P01.01	Startup frequency	-
P01.02	Startup frequency holding time	Select the start mode and the
P01.02	Startup DC braking current	related parameters.
P01.03		
P01.04	Startup DC braking holding time Stop mode	
P01.05		
P01.08	Initial frequency of stop DC braking	Select the stop mode and the related parameters.
	Stop DC braking current	
P01.09	Stop DC braking holding time	
unction code	ter for vector control mode Name	Description
		Description
P03.01	Speed loop proportional gain 1	
P03.02	Speed loop integral time 1	-
P03.03	Switchover frequency 1	
P03.04	Speed loop proportional gain 2	Select the parameters for speed loo
P03.05	Speed loop integral time 2	
P03.06	Switchover frequency 2	
P03.07	Speed loop filter time	
P03.08	Fielding weakening torque compensation gain	Select the braking gain and
P03.09	Motor slip gain	fielding weakening compensation
P03.10	Braking slip gain	
P03.11	Torque upper limit source in speed control mode	Select the torque limit in speed
P03.12	Digital setting of torque upper limit in speed control mode	control mode.
P03.13	Current loop proportional coefficient	Parameters for current loop.
P03.14	Current loop integral coefficient	
Parame	ters for V/F control mode	
unction code	Name	Description
P04.00	V/F curve setting	
P04.02	Multi-point V/F frequency 1	
P04.03	Multi-point V/F voltage 1	
P04.04	Multi-point V/F frequency 2	
P04.05	Multi-point V/F voltage 2	Select the V/F control curve.
P04.06	Multi-point V/F frequency 3	1
		1
P04.07	Multi-point V/F voltage 3	
P04.07 P04.08	Multi-point V/F voltage 3 Multi-point V/F frequency 4	

P04.10	Automatic torque boost compensation	Select automatic torque boost
D0/ 11	coefficient V/F manual torque boost	compensation coefficient Select the torque boost method and value.
P04.11	Field weakening torque compensation	Select field weakening torque
P04.13	coefficient	compensation coefficient
P04.15	Slip compensation gain	Select the slip gain.
P04.17	Oscillation suppression gain	Select the oscillation suppression gain
P04.19	Flux braking	Select the flux braking value.
P04.26	Current limit	Select the current limit value.
P04.27	Current limit switch	Select current limit switch
P04.28	VF torque filter coefficient	Select VF torque filter coefficient
	ters for analog set frequency	
Function code	Name	Description
P00.03	Frequency source A	Set to 2, 3, 4 and 5(AI1, AI2, AI3 and high-speed pulse input)
P05.13	AI1 voltage lower limit	
P05.14	AI1 lower limit setting	
P05.15	Al1 voltage upper limit	Select the AI1 input setting.
P05.16	Al1 upper limit setting	
P05.17	All input filter time	
P05.18	AI2 input selection	
P05.19	AI2 voltage lower limit	
P05.20	AI2 lower limit setting	
P05.21 P05.22	AI2 voltage upper limit AI2 upper limit setting	
P05.22 P05.23	AI2 upper limit setung AI2 input filter time	Select the AI2 input setting.
P05.23 P05.24	Al2 current lower limit	
P05.24	Al2 current lower limit Al2 lower limit setting	
P05.25	Al2 current upper limit	
P05.27	AI2 upper limit setting	
P05.28	AI3 voltage lower limit	
P05.29	AI3 lower limit setting	
P05.30	AI3 voltage upper limit	Select the AI3 input setting.
P05.31	AI3 upper limit setting	
P05.32	AI3 input filter time	
P05.33	High-speed pulse input minimum frequency	
P05.34	High-speed pulse input minimum frequency setting	Calest the bigh append pulse input
P05.35	High-speed pulse input maximum frequency	Select the high-speed pulse input setting.
P05.36	High-speed pulse input maximum frequency setting	-
P05.37	High-speed pulse input filter time	
	ters for analog output	Description
Function code	Name	Description
P06.14	Ao1 function selection Ao2 function selection	Function selection for analog and
P06.15 P06.16	HDO1 pulse output function selection	high-speed pulse output
P06.17	TIDO I puise output fuffction selection	
F 00.17	A o1 output voltage lower limit	
P06 18	Ao1output voltage lower limit	Select the related setting for AO1
P06.18 P06.19	Ao1 output voltage lower limit setting	Select the related setting for AO1 output.
P06.19	Ao1 output voltage lower limit setting Ao1 output voltage upper limit	
	Ao1 output voltage lower limit setting	
P06.19 P06.20	Ao1 output voltage lower limit setting Ao1 output voltage upper limit Ao1 output voltage upper limit setting	
P06.19 P06.20 P06.21	Ao1 output voltage lower limit setting Ao1 output voltage upper limit Ao1 output voltage upper limit setting Ao2 output voltage lower limit	output
P06.19 P06.20 P06.21 P06.22	Ao1 output voltage lower limit setting Ao1 output voltage upper limit Ao1 output voltage upper limit setting Ao2 output voltage lower limit Ao2 output voltage lower limit setting	output. Select the related setting for AO2
P06.19 P06.20 P06.21 P06.22 P06.23	Ao1 output voltage lower limit setting Ao1 output voltage upper limit Ao1 output voltage upper limit setting Ao2 output voltage lower limit Ao2 output voltage lower limit setting Ao2 output voltage upper limit	output. Select the related setting for AO2
P06.19 P06.20 P06.21 P06.22 P06.23 P06.24	Ao1 output voltage lower limit setting         Ao1 output voltage upper limit         Ao1 output voltage upper limit setting         Ao2 output voltage lower limit         Ao2 output voltage lower limit setting         Ao2 output voltage lower limit setting         Ao2 output voltage upper limit         Ao2 output voltage upper limit	output. Select the related setting for AO2 output. elect the related setting for HDO
P06.19 P06.20 P06.21 P06.22 P06.23 P06.24 P06.25	Ao1 output voltage lower limit setting         Ao1 output voltage upper limit         Ao1 output voltage upper limit setting         Ao2 output voltage lower limit         Ao2 output voltage lower limit setting         Ao2 output voltage lower limit setting         Ao2 output voltage upper limit         Ao2 output voltage upper limit setting         HD01 mini. output setting frequency         HD01 max. output setting frequency	Select the related setting for AO2 output.
P06.19 P06.20 P06.21 P06.22 P06.23 P06.24 P06.25 P06.25 P06.26 P06.27 P06.28	Ao1 output voltage lower limit setting         Ao1 output voltage upper limit         Ao1 output voltage upper limit         Ao2 output voltage lower limit         Ao2 output voltage lower limit         Ao2 output voltage lower limit setting         Ao2 output voltage lower limit setting         Ao2 output voltage upper limit         Ao2 output voltage upper limit         Ao2 output voltage upper limit         Ao2 output voltage upper limit setting         HD01 mini. output setting frequency         HD01 mini. output setting requency         HD01 max. output setting requency         HD01 max. output setting value	output. Select the related setting for AO2 output. elect the related setting for HDO
P06.19 P06.20 P06.21 P06.22 P06.23 P06.24 P06.25 P06.26 P06.27 P06.28 Paramet	Ao1 output voltage lower limit setting Ao1 output voltage upper limit Ao1 output voltage upper limit Ao2 output voltage lower limit Ao2 output voltage lower limit setting Ao2 output voltage upper limit setting Ao2 output voltage upper limit Ao2 output voltage upper limit setting HDO1 mini. output setting frequency HDO1 mini. output setting value HDO1 max. output setting requency HDO1 max. output setting value iters for digital input terminal	output. Select the related setting for AO2 output. elect the related setting for HDO output.
P06.19 P06.20 P06.21 P06.22 P06.23 P06.24 P06.25 P06.25 P06.26 P06.27 P06.28	Ao1 output voltage lower limit setting         Ao1 output voltage upper limit         Ao1 output voltage upper limit         Ao2 output voltage lower limit         Ao2 output voltage lower limit         Ao2 output voltage lower limit setting         Ao2 output voltage lower limit setting         Ao2 output voltage upper limit         Ao2 output voltage upper limit         Ao2 output voltage upper limit         Ao2 output voltage upper limit setting         HD01 mini. output setting frequency         HD01 mini. output setting requency         HD01 max. output setting requency         HD01 max. output setting value	output Select the related setting for AO2 output elect the related setting for HDO output. Description
P06.19 P06.20 P06.21 P06.22 P06.23 P06.24 P06.25 P06.26 P06.27 P06.28 Paramet	Ao1 output voltage lower limit setting Ao1 output voltage upper limit Ao1 output voltage upper limit Ao2 output voltage lower limit Ao2 output voltage lower limit setting Ao2 output voltage upper limit setting Ao2 output voltage upper limit Ao2 output voltage upper limit setting HDO1 mini. output setting frequency HDO1 mini. output setting value HDO1 max. output setting requency HDO1 max. output setting value iters for digital input terminal	output. Select the related setting for AO2 output. elect the related setting for HDO output.
P06.19 P06.20 P06.21 P06.22 P06.23 P06.24 P06.25 P06.26 P06.27 P06.28 Paramet Value	Ao1 output voltage lower limit setting Ao1 output voltage upper limit Ao1 output voltage upper limit Ao2 output voltage lower limit Ao2 output voltage lower limit setting Ao2 output voltage upper limit Ao2 output voltage upper limit Ao2 output voltage upper limit setting HDO1 mini. output setting frequency HDO1 mini. output setting requency HDO1 max. output setting requency HDO1 max. output setting value ers for digital input terminal Function	output. Select the related setting for AO2 output. elect the related setting for HDO output. Description Disabled: No operation
P06.19 P06.20 P06.21 P06.22 P06.23 P06.24 P06.25 P06.26 P06.27 P06.28 Paramet Value 0	Ao1 output voltage lower limit setting Ao1 output voltage upper limit Ao1 output voltage upper limit Ao2 output voltage lower limit Ao2 output voltage lower limit setting Ao2 output voltage upper limit Ao2 output voltage upper limit setting HDO1 mini. output setting frequency HDO1 mini. output setting frequency HDO1 max. output setting requency HDO1 max. output setting value ers for digital input terminal Function No function	output. Select the related setting for AO2 output. elect the related setting for HDO output. Description Disabled: No operation Enabled: No operation Disabled: No operation
P06.19 P06.20 P06.21 P06.22 P06.23 P06.24 P06.25 P06.26 P06.27 P06.28 Paramet Value 0	Ao1 output voltage lower limit setting         Ao1 output voltage upper limit         Ao1 output voltage upper limit         Ao2 output voltage lower limit         Ao2 output voltage lower limit setting         Ao2 output voltage lower limit setting         Ao2 output voltage upper limit         Ao2 output voltage upper limit         Ao2 output voltage upper limit         Ao2 output voltage upper limit setting         HDO1 mini. output setting frequency         HDO1 mini. output setting requency         HDO1 max. output setting value         eres for digital input terminal         Function         No function         Forward RUN (FWD)	output. Select the related setting for AO2 output. elect the related setting for HDO output. Description Disabled: No operation Enabled: No operation Disabled: No operation Enabled: No operation Enabled: No operation Enabled: No operation Enabled: No operation
P06.19 P06.20 P06.21 P06.22 P06.23 P06.24 P06.25 P06.26 P06.27 P06.28 Paramet Value 0 1	Ao1 output voltage lower limit setting         Ao1 output voltage upper limit         Ao1 output voltage upper limit         Ao2 output voltage lower limit         Ao2 output voltage lower limit setting         Ao2 output voltage lower limit setting         Ao2 output voltage upper limit         Ao2 output voltage upper limit         Ao2 output voltage upper limit setting         HD01 mini. output setting frequency         HD01 mini. output setting frequency         HD01 max. output setting requency         HD01 max. output setting value         ters for digital input terminal         Function         No function         Forward RUN (FWD)         Reverse RUN (REV)	output. Select the related setting for AO2 output. elect the related setting for HDO output. Description Disabled: No operation Enabled: No operation Disabled: No operation Enabled: No operation Enabled: No operation Enabled: No operation Disabled: No operation Enabled: No operation En
P06.19 P06.20 P06.21 P06.22 P06.23 P06.24 P06.25 P06.26 P06.27 P06.28 Paramet Value 0 1 2 3	Ao1 output voltage lower limit setting         Ao1 output voltage upper limit         Ao1 output voltage upper limit         Ao2 output voltage lower limit         Ao2 output voltage lower limit setting         Ao2 output voltage lower limit setting         Ao2 output voltage upper limit         Ao2 output voltage upper limit         Ao2 output voltage upper limit         Ao2 output voltage upper limit setting         HD01 mini. output setting frequency         HD01 mini. output setting requency         HD01 max. output setting requency         HD01 max. output setting value         ters for digital input terminal         Function         No function         Reverse RUN (REV)         Three-line control	output. Select the related setting for AO2 output. elect the related setting for HDO output. Description Disabled: No operation Enabled: No operation Enab

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Value	Function	Description
7	RUN pause	Disabled: The inverter continues to run. Enabled: The inverter runs with frequency
8	Fault reset (RESET)	Disabled: No operation Enabled: Reset faults occur in inverter
9	External fault input	Disabled: No operation Enabled: Fault occurs by external input
10	Frequency setting UP	Disabled: No operation Enabled: The set frequency increases wh the frequency source is digital setting + UP/DOWN
11	Frequency setting DOWN	Disabled: No operation Enabled: The set frequency decreases wh the frequency source is digital setting + UP/DOWN
12	Frequency UP/DOWN setting clear	Disabled: No operation Enabled: Clear the modification by using t UP/DOWN function or the turn button on operation panel.
13	Frequency UP/DOWN setting temporary clear	Disabled: The frequency restores to the value of P00. 12 and modification by usin the UP/DOWN function or the turn buttor on the operation panel Enabled: Clear the modification by using the UP/DOWN function or the turn buttor on the operation panel temporarily
14	Multi-reference terminal 1	The setting of 16 speeds or 16 other
15	Multi-reference terminal 2	references can be implemented through
16	Multi-reference terminal 3	combinations of 16 states of these four terminals.
17	Multi-reference terminal 4	
18	Terminal 1 for acceleration/ deceleration time selection	Totally four groups of acceleration/ deceleration time can be selected through
10	Terminal 2 for acceleration/	combinations of two states of these two
19	deceleration time selection	terminals.
20	PID pause	Disabled: The output frequency of inverte changes with PID adjustment and PID adjustment of frequency source is normal Enabled: PID is invalid temporarily. The Inverter maintains the current frequency output without supporting PID adjustment of frequency source
21	Reverse PID action direction	Disabled: The PID action direction is same to the direction set in P08. 03. Enabled: The PID action direction is revers to the direction set inP08. 03.
22	PID parameter switchover	Disabled: The PID parameters of the first group works. Enabled: The PID parameters of the seco group works.
23	Immediate DC braking	Disabled: The inverter returns to the norm operation state Enabled: The inverter directly switches ov to the DC braking state.
24	Deceleration DC braking	Disabled: The inverter decelerates to stop normally in decelerate to stop mode Enabled: The inverter decelerates to the initial frequency of stop DC braking and th switches over to DC braking state
25	External STOP	Disabled: No operation Enabled: In any control mode , it can be us to make the inverter stop
26	Emergency stop	Disabled: No operation Enabled: In any control mode , it can be us to make the inverter stop directly.
27	PLC status reset	Disabled: No operation Enabled: Restore to operation stage of Pl and clear PLC running time
28	PLC RUN pause	Disabled: Restore the original status of Pl control and continue to operate Enabled: The inverter maintains frequence output.
29	Counter input	This terminal is used to count pulses.
30	Counter reset	Disabled: No operation Enabled: This terminal is used to clear the counter status
31	Length count input	This terminal is used to count the length
32	Length reset	Disabled: No operation Enabled: This terminal is used to clear the leng
33	High-speed pulse input (only for HDI)	Receive the high-speed pulse input signal
33	Swing pause (Pause at the current frequency)	Disabled: Swing frequency operates. Enabled: The inverter operates at the cun output frequency
35	Swing reset (Return to center frequency)	Disabled: No operation Enabled: The inverter outputs central freque and the swing frequency function works.
36	Acceleration/Deceleration prohibited	Disabled: No effect on the acceleration/ deceleration. Enabled: The acceleration/deceleration proc stops in the acceleration/ deceleration mod

Value	Function	Description
		Disabled: The inverter starts and operates
37	Run prohibited	normally Enabled: The inverter cannot start operation or immediate stop
38	Speed control/Torque control switchover	Disabled: Speed control mode Enabled: Torque control mode
39	Torque control prohibited	Disabled: No effect on the current control mode Enabled: The current mode cannot be torque control mode
40	Command source switchover terminal	Disabled: No effect on the current frequency setting source Enabled: The current frequency setting source switches to other setting source
41	Switch running commands to operation panel	Disabled: No effect on the current command setting mode Enabled: The setting mode of current command switches to operation panel setting.
42	Switch running commands to terminal	Disabled: No effect on the current command setting mode Enabled: The setting mode of current command switches to terminal setting.
43	Switch running commands to communication	Disabled: No effect on the current command setting mode Enabled: The setting mode of current command switches to communication setting
44	Motor selection	Disabled: Motor 1 is enabled. Enabled: Motor 2 is enabled.
45	Clear the current running time	Disabled: No operation Enabled: Clear the running time of motor.
	ters for digital output	Description
Value 0	Function No output	Description The terminal has no function.
1	Ready for RUN	If the inverter main circuit and control circuit become stable, and the inverter detects no fault and is ready for RUN, the terminal becomes ON.
2	Inverter running	When the inverter is running and has output frequency (can be zero), the terminal becomes ON
3	Inverter forward rotation	When the inverter is in forward rotation and has output frequency, the terminal becomes ON.
4	Inverter reverse rotation	When the inverter is in reverse rotation and has output frequency, the terminal becomes ON
5	Zero-speed running 1 (no output at stop)	If the inverter runs with the output frequency of 0, the terminal becomes ON. If the inverter is in the stop state, the terminal becomes OFF.
6	Zero-speed running 2 (output at stop)	If the output frequency of the inverter is 0, the terminal becomes ON. In the state of stop, the signal is still ON
7	Fault output	When the inverter stops due to a fault, the terminal becomes ON
8	Overload pre-warning	When the inverter and motor exceeds the overload pre-warning threshold before performing the protection action, If the pre-warning threshold is exceeded, the terminal becomes ON. For motor overload parameters, see the descriptions of P13. 01 to P13. 03.
9	Lightload pre-warning	When the inverter and motor exceeds the lightload threshold or has no load, the terminal becomes ON. For motor lightload parameters, see the descriptions of P13.05 to P13.07.
10	Undervoltage state output	If the inverter is in undervoltage state, the terminal becomes ON.
11	Reserved	
12	Inverter overheat warning	If the inverter temperature reaches the overheat warning threshold the terminal becomes ON.
13	PLC stage complete	When simple PLC completes one stage, the terminal outputs a pulse signal with width of 250 ms
14	PLC cycle complete	When simple PLC completes one cycle, the terminal outputs a pulse signal with width of 250 ms
15	Frequency limited	If the set frequency exceeds the frequency upper limit or lower limit and the output frequency of the inverter reaches the upper limit or lower limit, the terminal becomes ON.
16	Torque limited (in speed control)	In speed control mode, if the output torque reaches the torque limit, the terminal becomes ON
17	Speed limited (in torque control)	In the toque control mode, if the motor speed reaches the speed limit, the terminal becomes ON
18	Frequency upper limit reached	If the running frequency reaches the upper limit, the terminal becomes ON.
19	Frequency lower limit reached	If the running frequency reaches the lower limit, the terminal becomes ON. In the stop state, the terminal becomes OFF.

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Value	Function	Description
20	Frequency reached	When the set frequency reaches the detection range, the terminal becomes ON. For details, refer to P09. 04.
21	Frequency-level detection FDT1 output	Refer to the descriptions of P09. 00 and F09. 01.
22	Frequency-level detection FDT2 output	Refer to the descriptions of P09. 02 and P09. 03.
23	Arbitrary frequency reached	Refer to the descriptions of P09. 21 and P09. 22.
24	PID feedback loss	Refer to the descriptions of P08. 16 and P08. 17.
25	Set count value reached	The terminal becomes ON when the count value reaches the value set in P09.13. For the counting function, refer to Group P09 parameters.
26	Designated count value reached	The terminal becomes ON when the count value reaches the value set in P09.14. For the counting function, refer to Group P09 parameters.
27	Length reached	The terminal becomes ON when the detected actual length exceeds the value set in P09. 10.
28	PID feedback overlimit	Refer to the description of P08. 18 and P08. 19.
29	Current running time reached	If the current running time of inverter exceeds the value of P09. 18, the terminal becomes ON
30	Current power-on time reached	If the current power-on time of inverter exceeds the value of P09. 19, the terminal becomes ON
31	Accumulative running time reached	If the accumulative running time of the inverter exceeds the time set in P09. 16, the terminal becomes ON.
32	Accumulative power-on time reached	If the inverter accumulative power-on time exceeds the value set in P09. 17, the terminal becomes ON
33	Communication	Refer to the communication protocol. Communication setting DO1,HDO1,T1 output
34	Fault output 2	The terminal becomes ON when error occurs to the inverter and not reset(including undervoltage error and the inverter in undervoltage state)
Parame	ters for analog output signa	al
Value	Function	Description
0	Running frequency	0 to maximum output frequency
1	Set frequency	0 to maximum output frequency
2	Output current	0 to 2 times of rated motor current
3	Output voltage	0 to 1.2 times of rated inverter voltage
4	Output torque	0 to 2 times of rated motor torque
5	Output power	
6		0 to 2 times of rated power 0.01kHz~100.00kHz
	Pulse input	
7	ABS (AI1)	0.00V~10.00V
8	ABS (AI2)	0. 00V~10. 00V (or 0. 00mA~20. 00mA)
9	ABS(AI3)	-10.00V ~ 10.00V
10	Length	0 to maximum set length
11	Count value	0 to maximum count value
12	Motor rotational speed	0 to rotational speed corresponding to maximum output frequency
13	Output current (absolute value)	0.0A~1000.0A
14		0.0V~1000.0V
14	Output voltage (absolute value)	0~100.0%. For details, refer to communication
15	Communication setting percentage	protocol.
Error co	des description]	
Value	Function	Description
		1: The motor insulation is abnormal.
Er001	Short-circuit to ground	2: The output circuit is grounded or short circuited 3: The inverter module is faulty. 4: The leakage current to the ground is too large.
Er002	Overcurrent during acceleration	The acceleration time is too short.     Hotor parameters are incorrect.     The voltage is too low.     The voltage is too low.     V. 4: The power of inverter is too low.     V.F curve is not appropriate.     The load is too heavy.     T. The startup operation is performed on the rotating motor.
Er003	Overcurrent at constant speed	1: A sudden load is added during operation. 2: The voltage is too low. 3: The inverter model is of too small power class.
Er004	Overcurrent during deceleration	1: The inertia of load is too large 2: The deceleration time is too short. 3: The voltage is too low.
Er005	Overvoltage during acceleration	1: The input voltage is abnormal. 2: The startup operation is performed on the rotating motor upon instantaneous power-failure
Er006	Overvoltage at constant speed	1: The input voltage is abnormal. 2: Input voltage changes abnormally 3: The inertia of load is too large
Er007	Overvoltage during deceleration	1: The deceleration time is too short. 2: The inertia of load is too large 3: The input voltage is abnormal.

Value	Function	Description
value	i uncuon	1: The acceleration/deceleration time is too
E r008	Inverter overload	<ol> <li>The acceleration/acceleration inners too short.</li> <li>The startup operation is performed on the rotating motor.</li> <li>The voltage is too low.</li> <li>The load is too large 5: Torque boost is too large at V/F control</li> <li>The motor parameters is not appropriate</li> </ol>
Er009	Motor overload	1: The voltage is too low. 2: The motor parameters is not appropriate 3: The load is too heavy or lockedrotor occurs on the motor.
Er010	Current detection fault	1: The control board connector is in bad contact. 2: Auxiliary power supply is faulty. 3: The HALL device is faulty. 4: Amplifying circuit is faulty.
Er011	Power output phase loss	1: U, V, W output phase loss 2: The inverter's three-phase outputs are unbalanced
Er012	Hardware overcurrent	1: Overcurrent 2: Input power is abnormal. 3: Motor output is abnormal. 4: The inverter module is faulty.
Er013	Parameter fault	1: The motor and inverter do not match 2: The motor parameters are set incorrectly 3: The deviation between auto-tuning parameters and standard parameters is too large 4: The auto-tuning times out.
Er014	Contactor fault	1: The voltage is too low 2: The buffer resistance is faulty upon power-on 3: The contactor is faulty 4: The control circuit is faulty
Er015	Power input phase loss	Input R, S, T phase loss
Er 021	Software version not compatible	1: The number of parameters stored in panel and displayed in inverter is different 2: Software version No. is different
Er022	Bus undervoltage	1: The voltage is too low. 2: Instantaneous power-failure
Er023	External equipment fault	External fault signal is input via DI.
Er024	Communication fault	<ol> <li>The baud rate between host computer and inverter is different.</li> <li>The communication parameters of inverter are set improperly.</li> <li>The communication cable is disconnected</li> <li>The host computer works or not</li> </ol>
Er025	Module overheat	The inverter overcurrent instantaneously.     The output circuit is grounded or short circuited.     The air filter is blocked or the fan is damaged.     The ambient temperature is too high.     Control board connection or components loosen     The auxiliary power is damaged and the voltage is too low     Power module bridge arm is shoot-through     Control board is faulty.
Er026	EEPROM read-write fault	1: Parameters read-write fault occur. 2: The EEPROM chip is damaged.
Er027	Accumulative running time reached	The accumulative running time reaches the setting value
Er028	Accumulative power-on time reached	The accumulative power-on time reaches the setting value.
Er029	PID feedback overlimit during running	The feedback reaches the upper limit.
Er030	PID feedback loss	1: PID feedback loss 2: PID feedback source disappear
Er031	Overload warning	<ol> <li>The load is too heavy.</li> <li>Overload warning threshold value and time is set improperly.</li> <li>The motor parameters are set improperly</li> </ol>
Er032	Lightload warning	<ol> <li>Load becoming 0</li> <li>Lightload warning threshold value and time is set improperly.</li> <li>The motor parameters are set improperly</li> </ol>
Er099	Software error	Software error
Er100	Hardware error	Hardware error

#### Parameter list

- The symbols in the function code list described as follows:
   → The setting value can be modified in the running state;
   → The setting value cannot be modified in the running state;
   → The parameters are the monitoring parameters and reserved parameters and cannot be modified.

P00 Star	ndard function parameters group		
Function code	Name		Communication address
P00.00	Motor operation mode	O	0x0000
P00.02	Command source selection	O	0x0002

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Function code	Name	Property	Communicatio address
P00.03	Frequency source A	0	0x0003
P00.04	Frequency source B	O	0x0004
P00.05	Frequency command operation relationship	0	0x0005
P00.06	Range base of frequency source B	0	0x0006
P00.07	Range of frequency source B	0	0x0007
P00.08	Max. output frequency	0	0x0008
P00.09	Frequency upper limit source	0	0x0009
P00.10	Frequency upper limit digital setting	0	0x0000A
P00.11	Frequency lower limit	0	0x000B
P00.11	Setting frequency	0	0x000D
		0	
P00.13	Acceleration time 0	-	0x000D
P00.14	Deceleration time 0	0	0x000E
P00.15	Acceleration time 1	0	0x000F
P00.16	Deceleration time 1	0	0x0010
P00.17	Acceleration time 2	0	0x0011
P00.18	Deceleration time 2	0	0x0012
P00.19	Acceleration time 3	0	0x0013
P00.20	Deceleration time 3	0	0x0014
P00.21	Acceleration/deceleration time unit	0	0x0015
P00.22	Acceleration/deceleration time Base frequency	O	0x0016
P00.23	Parameter initialization	O	0x0017
P00.24	Motor 1 Rotation direction selection	0	0x0018
P00.25	Carrier frequency setting	0	0x0019
P00.26	Carrier frequency adjustment	0	0x001A
P00.27	PWM method	0	0x001A
P00.27	Operation panel and terminal UP/DOWN Frequency control	0	0x001D
P00.28 P00.29		0	0x001C
	Length of operation panel and terminal UP/DOWN per step	-	
P00.30	Terminal UP/DOWN integral speed	0	0x001E
P00.31	Parameter lock	0	0x001F
P00.33	Motor parameter auto-tuning	0	0x0021
P00.34	Motor selection	0	0x0022
P00.35	Parameter copy	O	0x0023
P01 Star	t/stop control parameter group		
Function	Name	Property	Communicatio
code			address
P01.00	Start mode	0	0x0100
P01.01	Startup frequency	0	0x0101
P01.02	Startup frequency holding time	0	0x0102
P01.03	Startup DC braking current	0	0x0103
P01.04	Startup DC braking holding time	0	0x0104
P01.05	Stop mode	0	0x0105
P01.06	Initial frequency of stop DC braking	0	0x0106
P01.08	Stop DC braking current	0	0x0108
P01.09	Stop DC braking time	0	0x0109
P01.10	JOG running frequency	0	0x010A
P01.11	JOG running acceleration time	0	0x010B
P01.12	JOG running deceleration time	0	0x010B
		-	
P01.13	Emergency stop deceleration time	0	0x010D
P01.14	Acceleration/Deceleration mode	0	0x010E
P01.15	Time proportion of S-curve start segment	0	0x010F
P01.15 P01.16	Time proportion of S -curve end segment	0	0x0110
P01.15 P01.16 P01.17	Time proportion of S-curve end segment Jump frequency	0	
P01.15 P01.16	Time proportion of S -curve end segment	0	0x0110
P01.15 P01.16 P01.17	Time proportion of S-curve end segment Jump frequency	0	0x0110 0x0111
P01.15 P01.16 P01.17 P01.18 P01.19	Time proportion of S-curve end segment Jump frequency Frequency jump amplitude (+, -)	© 0 0	0x0110 0x0111 0x0112 0x0113
P01.15 P01.16 P01.17 P01.18	Time proportion of S-curve end segment Jump frequency Frequency jump amplitude (+, -) Forward/Reverse rotation dead-zone time	© 0	0x0110 0x0111 0x0112
P01.15 P01.16 P01.17 P01.18 P01.19	Time proportion of S-curve end segment Jump frequency Frequency jump amplitude (+, -) Forward/Reverse rotation dead-zone time Running mode when set frequency lower than frequency	© 0 0	0x0110 0x0111 0x0112 0x0113
P01.15 P01.16 P01.17 P01.18 P01.19 P01.20	Time proportion of S-curve end segment Jump frequency Frequency jump amplitude (+, -) Forward/Reverse rotation dead-zone time Running mode when set frequency lower than frequency lower limit (Valid when lower limit larger than 0)	© 0 0 0	0x0110 0x0111 0x0112 0x0113 0x0114
P01.15 P01.16 P01.17 P01.18 P01.19 P01.20 P01.21	Time proportion of S-curve end segment Jump frequency Frequency jump amplitude (+, -) Forward/Reverse rotation dead-zone time Running mode when set frequency lower than frequency lower limit (Valid when lower limit larger than 0) Run command selection at power-on	© 0 0 0	0x0110 0x0111 0x0112 0x0113 0x0114 0x0115
P01.15 P01.16 P01.17 P01.18 P01.19 P01.20 P01.21 P01.26 P01.27	Time proportion of S-curve end segment Jump frequency Frequency jump amplitude (+, -) Forward/Reverse rotation dead-zone time Running mode when set frequency lower than frequency lower limit (Valid when lower limit larger than 0) Run command selection at power-on Restart after power failure Waiting time for restart	© 0 0 0 0	0x0110 0x0111 0x0112 0x0113 0x0114 0x0115 0x011A
P01.15 P01.16 P01.17 P01.18 P01.19 P01.20 P01.21 P01.26 P01.27	Time proportion of S-curve end segment Jump frequency Frequency jump amplitude (+, -) Forward/Reverse rotation dead-zone time Running mode when set frequency lower than frequency lower limit (Valid when lower limit larger than 0) Run command selection at power-on Restart after power failure Waiting time for restart or 1 parameter group		0x0110 0x0111 0x0112 0x0113 0x0114 0x0115 0x0115 0x011A 0x011B
P01.15 P01.16 P01.17 P01.18 P01.19 P01.20 P01.21 P01.26 P01.27 P02 Mot	Time proportion of S-curve end segment Jump frequency Frequency jump amplitude (+, -) Forward/Reverse rotation dead-zone time Running mode when set frequency lower than frequency lower limit (Valid when lower limit larger than 0) Run command selection at power-on Restart after power failure Waiting time for restart	© 0 0 0 0	0x0110 0x0111 0x0112 0x0113 0x0114 0x0115 0x011A
P01.15 P01.16 P01.17 P01.18 P01.20 P01.20 P01.21 P01.26 P01.27 P02 Mot Function	Time proportion of S-curve end segment Jump frequency Frequency jump amplitude (+, -) Forward/Reverse rotation dead-zone time Running mode when set frequency lower than frequency lower limit (Valid when lower limit larger than 0) Run command selection at power-on Restart after power failure Waiting time for restart or 1 parameter group		0x0110 0x0111 0x0112 0x0113 0x0114 0x0115 0x0114 0x0115 0x011A 0x011B
P01.15 P01.16 P01.17 P01.18 P01.19 P01.20 P01.21 P01.26 P01.27 P02 Mot Function code	Time proportion of S-curve end segment Jump frequency Frequency jump amplitude (+, -) Forward/Reverse rotation dead-zone time Running mode when set frequency lower than frequency lower limit (Valid when lower limit larger than 0) Run command selection at power-on Restart after power failure Waiting time for restart or 1 parameter group Name	© 0 0 0 0 0 0 0 0 Property	0x0110 0x0111 0x0112 0x0113 0x0114 0x0115 0x0114 0x011B Communicatio address
P01.15 P01.16 P01.17 P01.18 P01.19 P01.20 P01.21 P01.26 P01.27 P02 Mot Function code P02.00	Time proportion of S-curve end segment Jump frequency Frequency jump amplitude (+, -) Forward/Reverse rotation dead-zone time Running mode when set frequency lower than frequency lower limit (Valid when lower limit larger than 0) Run command selection at power-on Restart after power failure Waiting time for restart or 1 parameter group Name Motor 1 type selection Rated power for motor 1	© 0 0 0 0 0 0 0 0 0 0 0 0 0	0x0110 0x0111 0x0112 0x0113 0x0114 0x0115 0x011A 0x011B Communicatio address 0x0200
P01.15 P01.16 P01.17 P01.18 P01.20 P01.20 P01.20 P01.20 P01.27 P02.00 P02.00 P02.00 P02.01 P02.02	Time proportion of S-curve end segment Jump frequency Frequency jump amplitude (+, -) Forward/Reverse rotation dead-zone time Running mode when set frequency lower than frequency lower limit (Valid when lower limit larger than 0) Run command selection at power-on Restart after power failure Waiting time for restart or 1 parameter group Name Motor 1 type selection Rated power for motor 1 Rated voltage for motor 1	© 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0x0110 0x0111 0x0112 0x0113 0x0114 0x0115 0x011A 0x011B Communicatio address 0x0200 0x0201 0x0202
P01.15 P01.16 P01.17 P01.18 P01.20 P01.20 P01.21 P01.26 P01.27 P02.00 P02.00 P02.01 P02.02 P02.03	Time proportion of S-curve end segment Jump frequency Frequency jump amplitude (+, -) Forward/Reverse rotation dead-zone time Running mode when set frequency lower than frequency lower limit (Valid when lower limit larger than 0) Run command selection at power-on Restart after power failure Waiting time for restart or 1 parameter group Name Motor 1 type selection Rated power for motor 1 Rated voltage for motor 1 Rated current for motor 1	Image: constraint of the second sec	0x0110 0x0111 0x0112 0x0113 0x0114 0x0115 0x0114 0x011B Communicatio address 0x0200 0x0201 0x0202 0x0203
P01.15 P01.16 P01.17 P01.18 P01.20 P01.20 P01.21 P01.26 P01.27 P02.00 P02.00 P02.01 P02.02 P02.03 P02.04	Time proportion of S-curve end segment Jump frequency Frequency jump amplitude (+, -) Forward/Reverse rotation dead-zone time Running mode when set frequency lower than frequency lower limit (Valid when lower limit larger than 0) Run command selection at power-on Restart after power failure Waiting time for restart or 1 parameter group Name Motor 1 type selection Rated power for motor 1 Rated current for motor 1 Rated frequency for motor 1	© 0 0 0 0 0 0 0 0 0 0 0 0 0	0x0110 0x0111 0x0112 0x0113 0x0114 0x0115 0x0114 0x0115 0x011A 0x011B Communicatio address 0x0200 0x0201 0x0202 0x0203 0x0204
P01.15 P01.16 P01.17 P01.18 P01.20 P01.21 P01.26 P01.27 P02.00 P02.00 P02.01 P02.02 P02.03 P02.04 P02.05	Time proportion of S-curve end segment Jump frequency Frequency jump amplitude (+, -) Forward/Reverse rotation dead-zone time Running mode when set frequency lower than frequency lower limit (Valid when lower limit larger than 0) Run command selection at power-on Restart after power failure Waiting time for restart or 1 parameter group Name Motor 1 type selection Rated power for motor 1 Rated current for motor 1 Rated frequency for motor 1 Rated speed for motor 1	Image: Constraint of the second sec	0x0110 0x0111 0x0112 0x0113 0x0114 0x0115 0x0114 0x0115 0x011A 0x011B Communicatio address 0x0200 0x0201 0x0202 0x0203 0x0204 0x0205
P01.15 P01.16 P01.17 P01.18 P01.20 P01.21 P01.24 P01.27 P02.00 P02.00 P02.00 P02.01 P02.02 P02.03 P02.04 P02.05 P02.06	Time proportion of S-curve end segment Jump frequency Frequency jump amplitude (+, -) Forward/Reverse rotation dead-zone time Running mode when set frequency lower than frequency lower limit (Valid when lower limit larger than 0) Run command selection at power-on Restart after power failure Waiting time for restart or 1 parameter group Name Motor 1 type selection Rated power for motor 1 Rated current for motor 1 Rated frequency for motor 1 Rated speed for motor 1 Stator resistance for motor 1	Image: Constraint of the second sec	0x0110 0x0111 0x0112 0x0113 0x0114 0x0115 0x0114 0x0115 0x011A 0x011B Communicatio address 0x0200 0x0201 0x0202 0x0203 0x0204 0x0205 0x0206
P01.15 P01.16 P01.17 P01.18 P01.20 P01.21 P01.24 P01.27 P02.00 P02.00 P02.01 P02.02 P02.03 P02.04 P02.05 P02.06 P02.07	Time proportion of S-curve end segment Jump frequency Frequency jump amplitude (+, -) Forward/Reverse rotation dead-zone time Running mode when set frequency lower than frequency lower limit (Valid when lower limit larger than 0) Run command selection at power-on Restart after power failure Waiting time for restart or 1 parameter group Name Motor 1 type selection Rated power for motor 1 Rated current for motor 1 Rated frequency for motor 1 Rated speed for motor 1 Stator resistance for motor 1 Rotor resis	Image: Constraint of the second sec	0x0110 0x0111 0x0112 0x0113 0x0114 0x0115 0x0114 0x0115 0x011A 0x011B Communicatio address 0x0200 0x0201 0x0202 0x0203 0x0204 0x0205 0x0206 0x0207
P01.15 P01.16 P01.17 P01.18 P01.20 P01.21 P01.24 P01.27 P02.00 P02.00 P02.01 P02.02 P02.03 P02.04 P02.05 P02.06	Time proportion of S-curve end segment Jump frequency Frequency jump amplitude (+, -) Forward/Reverse rotation dead-zone time Running mode when set frequency lower than frequency lower limit (Valid when lower limit larger than 0) Run command selection at power-on Restart after power failure Waiting time for restart or 1 parameter group Name Motor 1 type selection Rated power for motor 1 Rated voltage for motor 1 Rated frequency for motor 1 Rated speed for motor 1 Stator resistance for motor 1 Rotor resistance for motor 1 Leakage inductive reactance for motor 1	Image: Constraint of the second sec	0x0110 0x0111 0x0112 0x0113 0x0114 0x0115 0x0114 0x0115 0x011A 0x011B Communicatio address 0x0200 0x0201 0x0202 0x0203 0x0204 0x0205 0x0206 0x0207 0x0208
P01.15 P01.16 P01.17 P01.18 P01.20 P01.21 P01.24 P01.27 P02.00 P02.00 P02.01 P02.02 P02.03 P02.04 P02.05 P02.06 P02.07	Time proportion of S-curve end segment Jump frequency Frequency jump amplitude (+, -) Forward/Reverse rotation dead-zone time Running mode when set frequency lower than frequency lower limit (Valid when lower limit larger than 0) Run command selection at power-on Restart after power failure Waiting time for restart or 1 parameter group Name Motor 1 type selection Rated power for motor 1 Rated current for motor 1 Rated frequency for motor 1 Rated speed for motor 1 Stator resistance for motor 1 Rotor resis	Image: Constraint of the second sec	0x0110 0x0111 0x0112 0x0113 0x0114 0x0115 0x0114 0x0115 0x011A 0x011B Communicatio address 0x0200 0x0201 0x0202 0x0203 0x0204 0x0205 0x0206 0x0207

P02.17 P02.18			
	Mini. excitation at field weakening	0	0x0211
D02 10	Inductance coefficient 1 at field weakening	0	0x0212
P02.19	Inductance coefficient 2 at field weakening	0	0x0213
P02.20	Overload time coefficient	0	0x0214
P02.21	Overcurrent threshold	0	0x0215
P02.22	Protection selection	O	0x0216
	or 1 vector control parameter group		
Function code	Name	Property	Communication address
P03.01	Speed loop proportional gain 1	0	0x0301
P03.02	Speed loop integral time 1	0	0x0302
P03.03	Switchover frequency 1	0	0x0303
P03.04	Speed loop proportional gain 2	0	0x0304
P03.05	Speed loop integral time 2	0	0x0305
P03.06	Switchover frequency 2	0	0x0306
P03.07	Time constant of speed loop filter	0	0x0307
P03.08	Field weakening torque compensation gain	0	0x0308
P03.09	Motor slip gain	0	0x0309
P03.10	Braking slip gain	0	0x030A
P03.11	Upper limit source in speed control mode	O	0x030B
P03.12	Upper limit value in speed control mode	0	0x030C
P03.13	Current loop proportional coefficient	0	0x030D
P03.14	Current loop integral coefficient	0	0x030E
	or 1 V/F control parameters group		
Function code	Name	Property	Communication address
P04.00	V/F curve setting	0	0x0400
P04.02	Multi-point V/F frequency 1	0	0x0402
P04.03	Multi-point V/F voltage 1	0	0x0403
P04.04	Multi-point V/F frequency 2	O	0x0404
P04.05	Multi-point V/F voltage 2	O	0x0405
P04.06	Multi-point V/F frequency 3	0	0x0406
P04.07	Multi-point V/F voltage 3	O	0x0407
P04.08	Multi-point V/F frequency 4	0	0x0408
P04.09	Multi-point V/F voltage 4	0	0x0409
P04.11	V/F manual torque boost	0	0x040B
P04.13	Field weakening torque compensation coefficient	0	0x040D
P04.15	Slip compensation gain	0	0x040F
P04.17	Oscillation suppression gain	0	0x0411
P04.19	Flux braking	0	0x0413
P04.20	Voltage source for V/F separation	0	0x0414
P04.21	Voltage digital setting for V/F separation	0	0x0415
P04.22	Voltage rise time of V/F separation	0	0x0416
P04.23	Voltage decline time of V/F separation		
		0	0x0417
P04.24	Voltage lower limit of V/F separation	0	0x0418
P04.24 P04.25	Voltage upper limit of V/F separation	0	0x0418 0x0419
P04.24 P04.25 P04.26	Voltage upper limit of V/F separation Current limit	0 0 0	0x0418 0x0419 0x041A
P04.24 P04.25 P04.26 P04.27	Voltage upper limit of V/F separation Current limit Current limit switch	0 0 0	0x0418 0x0419 0x041A 0x041B
P04.24 P04.25 P04.26 P04.27 P04.28	Voltage upper limit of V/F separation Current limit Current limit switch VF torque filter coefficient	0 0 0	0x0418 0x0419 0x041A
P04.24 P04.25 P04.26 P04.27 P04.28 P05 inpu	Voltage upper limit of V/F separation Current limit Current limit switch	0 0 0 0	0x0418 0x0419 0x041A 0x041B 0x041C
P04.24 P04.25 P04.26 P04.27 P04.28	Voltage upper limit of V/F separation Current limit Current limit switch VF torque filter coefficient	0 0 0	0x0418 0x0419 0x041A 0x041B
P04.24 P04.25 P04.26 P04.27 P04.28 P05 inpu Function	Voltage upper limit of V/F separation Current limit Current limit switch VF torque filter coefficient t terminal function parameters group	0 0 0 0	0x0418 0x0419 0x041A 0x041B 0x041C
P04.24 P04.25 P04.26 P04.27 P04.28 P05 inpu Function code	Voltage upper limit of V/F separation Current limit Current limit switch VF torque filter coefficient t terminal function parameters group Name	O           O           O           O           Property	0x0418 0x0419 0x041A 0x041B 0x041C Communication address
P04.24 P04.25 P04.26 P04.27 P04.28 P05 inpu Function code P05.00	Voltage upper limit of V/F separation Current limit Current limit switch VF torque filter coefficient t terminal function parameters group Name DI1(Digital input) function selection	O       O       O       O       Property       Image: State	0x0418 0x0419 0x041A 0x041B 0x041C Communication address 0x0500
P04.24 P04.25 P04.26 P04.27 P04.28 P05 inpu Function code P05.00 P05.01	Voltage upper limit of V/F separation Current limit Current limit switch VF torque filter coefficient t terminal function parameters group Name D11(Digital input) function selection D12(Digital input) function selection D13(Digital input) function selection D14(Digital input) function selection	○           ○           ○           ○           Property           ◎           ◎           ◎	0x0418 0x0419 0x041A 0x041B 0x041C Communication address 0x0500 0x0501
P04.24 P04.25 P04.26 P04.27 P04.28 P05 inpu Function code P05.00 P05.01 P05.02 P05.03 P05.04	Voltage upper limit of V/F separation Current limit Current limit switch VF torque filter coefficient t terminal function parameters group Name DI1(Digital input) function selection DI2(Digital input) function selection DI3(Digital input) function selection DI4(Digital input) function selection DI5(Digital input) function selection	○           ○           ○           ○           Property           ◎           ○	0x0418 0x0419 0x041A 0x041B 0x041C Communication address 0x0500 0x0501 0x0502 0x0503 0x0504
P04.24 P04.25 P04.26 P04.27 P04.28 P05 inpu Function code P05.00 P05.01 P05.02 P05.03	Voltage upper limit of V/F separation Current limit Current limit switch VF torque filter coefficient t terminal function parameters group Name D11(Digital input) function selection D12(Digital input) function selection D13(Digital input) function selection D14(Digital input) function selection	O           O           O           O           Property           O           O           O           O           O           O           O           O           O           O           O           O           O           O           O           O           O	0x0418 0x0419 0x041A 0x041B 0x041C Communication address 0x0500 0x0501 0x0502 0x0503
P04.24 P04.25 P04.26 P04.27 P04.28 P05 inpu Function code P05.00 P05.01 P05.02 P05.03 P05.04	Voltage upper limit of V/F separation Current limit Current limit switch VF torque filter coefficient t terminal function parameters group Name DI1(Digital input) function selection DI2(Digital input) function selection DI3(Digital input) function selection DI4(Digital input) function selection DI5(Digital input) function selection DI6(Digital input) function selection HD11 Digital input function selection	O           O           O           O           O           O           O           Property           O	0x0418 0x0419 0x041A 0x041B 0x041C Communication address 0x0500 0x0501 0x0502 0x0503 0x0504
P04.24 P04.25 P04.26 P04.27 P04.28 P05 inpu Function code P05.00 P05.01 P05.02 P05.03 P05.04 P05.05 P05.06	Voltage upper limit of V/F separation Current limit Current limit switch VF torque filter coefficient t terminal function parameters group Name DI1(Digital input) function selection DI2(Digital input) function selection DI3(Digital input) function selection DI4(Digital input) function selection DI5(Digital input) function selection DI6(Digital input) function selection HD11 Digital input function selection (optional high-speed pulse input)	O           O           O           O           O           O           Property           O<	0x0418 0x0419 0x041A 0x041A 0x041B 0x041C Communication address 0x0500 0x0501 0x0502 0x0503 0x0504 0x0505 0x0506
P04.24 P04.25 P04.26 P04.27 P04.28 P05 input Function code P05.00 P05.01 P05.02 P05.03 P05.04 P05.05 P05.06 P05.07	Voltage upper limit of V/F separation Current limit Current limit switch VF torque filter coefficient t terminal function parameters group Name DI1(Digital input) function selection DI2(Digital input) function selection DI3(Digital input) function selection DI4(Digital input) function selection DI5(Digital input) function selection DI5(Digital input) function selection DI6(Digital input) function selection HD11 Digital input function selection HD11 Digital input function selection HD11 Digital input function selection (optional high-speed pulse input) D11~DI4 Digital input Logic selection	O           O           O           O           O           Property           O	0x0418 0x0419 0x041A 0x041B 0x041C Communication address 0x0500 0x0501 0x0502 0x0503 0x0504 0x0505 0x0506 0x0507
P04.24 P04.25 P04.26 P04.27 P04.28 P05 input Function code P05.00 P05.01 P05.02 P05.03 P05.04 P05.05 P05.06 P05.07 P05.08	Voltage upper limit of V/F separation         Current limit         Current limit switch         VF torque filter coefficient         t terminal function parameters group         Name         D11(Digital input) function selection         D12(Digital input) function selection         D13(Digital input) function selection         D14(Digital input) function selection         D15(Digital input) function selection         D16(Digital input) function selection         HD11 Digital input function selection         HD12 Digital input function selection         D14(Digital input) function selection         D15(Digital input) function selection         D16(Digital input) function selection         HD11 Digital input function selection         D11~D14 Digital input Logic selection         D13~HD1 1 Digital input Logic selection	O           O           O           O           O           Property           O<	0x0418 0x0419 0x041A 0x041B 0x041C Communication address 0x0500 0x0501 0x0502 0x0503 0x0504 0x0505 0x0506 0x0507 0x0508
P04.24 P04.25 P04.26 P04.27 P04.28 P05 input Function code P05.00 P05.01 P05.02 P05.03 P05.04 P05.05 P05.06 P05.07 P05.08 P05.10	Voltage upper limit of V/F separation         Current limit         Current limit switch         VF torque filter coefficient         t terminal function parameters group         Name         D11(Digital input) function selection         D12(Digital input) function selection         D13(Digital input) function selection         D14(Digital input) function selection         D15(Digital input) function selection         D16(Digital input) function selection         HD11 Digital input function selection         Optional high-speed pulse input)         D11~D14 Digital input Logic selection         D1 5/-HD1 1 Digital input Logic selection	O           O           O           O           O           Property           O	0x0418 0x0419 0x041A 0x041B 0x041C Communication address 0x0500 0x0501 0x0502 0x0503 0x0504 0x0505 0x0506 0x0506 0x0507 0x0508 0x050A
P04.24 P04.25 P04.26 P04.27 P04.28 P05 input Function code P05.00 P05.01 P05.02 P05.03 P05.04 P05.05 P05.06 P05.07 P05.08 P05.10 P05.11	Voltage upper limit of V/F separation         Current limit         Current limit switch         VF torque filter coefficient         t terminal function parameters group         Name         D11(Digital input) function selection         D12(Digital input) function selection         D14(Digital input) function selection         D14(Digital input) function selection         D15(Digital input) function selection         D16(Digital input) function selection         HD11 Digital input function selection         O11~D14 Digital input Logic selection         D15/Digital input Logic selection         D11~D14 Digital input Logic selection         D15/Selection	O           O           O           O           O           Property           O	0x0418 0x0419 0x041A 0x041B 0x041C Communication address 0x0500 0x0501 0x0502 0x0503 0x0504 0x0505 0x0506 0x0506 0x0507 0x0508 0x050A 0x050B
P04.24 P04.25 P04.26 P04.27 P04.28 P05 input Function code P05.00 P05.01 P05.03 P05.04 P05.05 P05.06 P05.07 P05.08 P05.10 P05.11 P05.13	Voltage upper limit of V/F separation         Current limit         Current limit switch         VF torque filter coefficient         t terminal function parameters group         Name         D11(Digital input) function selection         D12(Digital input) function selection         D14(Digital input) function selection         D15(Digital input) function selection         D16(Digital input) function selection         D110(Digital input function selection         D14(Digital input function selection         D15(Digital input function selection         D16(Digital input function selection         D17-D14 Digital input Logic selection         D17-D14 Digital input Logic selection         D17-HD1 1 Digital input Logic selection         D1 filter time         Terminal command mode         Al1 voltage lower limit	O           O           O           O           O           Property           O	0x0418 0x0419 0x041A 0x041B 0x041C Communication address 0x0500 0x0501 0x0502 0x0503 0x0504 0x0505 0x0505 0x0506 0x0507 0x0508 0x050A 0x050B 0x050D
P04.24 P04.25 P04.26 P04.27 P04.28 P05 input Function code P05.00 P05.01 P05.03 P05.04 P05.05 P05.06 P05.07 P05.08 P05.07 P05.08 P05.11 P05.13 P05.14	Voltage upper limit of V/F separation         Current limit         Current limit switch         VF torque filter coefficient         t terminal function parameters group         Name         D11(Digital input) function selection         D12(Digital input) function selection         D13(Digital input) function selection         D14(Digital input) function selection         D15(Digital input) function selection         D16(Digital input) function selection         D11~Digital input function selection         D13         D14(Digital input) function selection         D15(Digital input function selection         D16(Digital input function selection         D11~Digital input function selection         D11~Digital input function selection         D11~Digital input Logic selection         D15         D11~D14 Digital input Logic selection         D1         D14         D15         H011 Digital input Logic selection         D15         D16         D17         D14         D15         H011         D15         D14         D15         H011         D15 <td>O           O           O           O           O           O           Property           O</td> <td>0x0418 0x0419 0x041A 0x041B 0x041C Communication address 0x0500 0x0501 0x0502 0x0503 0x0504 0x0505 0x0505 0x0506 0x0507 0x0508 0x050A 0x050B 0x050B 0x050D 0x050E</td>	O           O           O           O           O           O           Property           O	0x0418 0x0419 0x041A 0x041B 0x041C Communication address 0x0500 0x0501 0x0502 0x0503 0x0504 0x0505 0x0505 0x0506 0x0507 0x0508 0x050A 0x050B 0x050B 0x050D 0x050E
P04.24 P04.25 P04.26 P04.27 P04.28 P05 input Function code P05.00 P05.01 P05.03 P05.04 P05.05 P05.06 P05.07 P05.08 P05.10 P05.11 P05.13 P05.14 P05.15	Voltage upper limit of V/F separation         Current limit         Current limit switch         VF torque filter coefficient         t terminal function parameters group         Name         D11(Digital input) function selection         D12(Digital input) function selection         D13(Digital input) function selection         D14(Digital input) function selection         D15(Digital input) function selection         D16(Digital input) function selection         Optional high-speed pulse input)         D11~D14 Digital input Logic selection         D1 filter time         Terminal command mode         Al1 voltage lower limit         Al1 voltage upper limit	O           O           O           O           O           O           Property           O	0x0418 0x0419 0x041A 0x041B 0x041C Communication address 0x0500 0x0500 0x0502 0x0503 0x0505 0x0505 0x0505 0x0505 0x0506 0x0507 0x0508 0x0508 0x050B 0x050D 0x050E 0x050F
P04.24 P04.25 P04.26 P04.27 P04.28 P05 input Function code P05.00 P05.00 P05.03 P05.04 P05.05 P05.06 P05.06 P05.07 P05.08 P05.10 P05.11 P05.13 P05.14 P05.15 P05.16	Voltage upper limit of V/F separation         Current limit         Current limit switch         VF torque filter coefficient         t terminal function parameters group         Name         Dl1(Digital input) function selection         Dl2(Digital input) function selection         Dl3(Digital input) function selection         Dl4(Digital input) function selection         Dl5(Digital input) function selection         Dl6(Digital input) function selection         Olforial input function selection         Dl1/Digital input function selection         Dl3(Digital input function selection         Dl6(Digital input function selection         Objectional high-speed pulse input)         Dl1-Dl4 Digital input Logic selection         Dl 5-HD1 1 Digital input Logic selection         Dl filter time         Terminal command mode         Al1 voltage lower limit         Al1 lower limit setting         Al1 voltage upper limit         Al1 upper limit setting	O           O           O           O           O           O           Property           O	0x0418 0x0419 0x041A 0x041B 0x041C Communication address 0x0500 0x0501 0x0502 0x0503 0x0504 0x0505 0x0505 0x0506 0x0507 0x0508 0x0508 0x0508 0x050B 0x050D 0x050E 0x050F 0x0510
P04.24 P04.25 P04.26 P04.27 P04.28 P05 input Function code P05.00 P05.00 P05.03 P05.04 P05.05 P05.06 P05.06 P05.07 P05.08 P05.10 P05.11 P05.13 P05.14 P05.15 P05.16 P05.17	Voltage upper limit of V/F separation         Current limit         Current limit switch         VF torque filter coefficient         t terminal function parameters group         Name         Dl1(Digital input) function selection         Dl2(Digital input) function selection         Dl3(Digital input) function selection         Dl4(Digital input) function selection         Dl5(Digital input) function selection         Dl6(Digital input) function selection         Dl1/Digital input Logic selection         Dl1/Dl4 Digital input Logic selection         Dl1 filter time         Terminal command mode         Al1 voltage lower limit         Al1 lower limit setting         Al1 voltage upper limit         Al1 upper limit setting         Al11input filter time	O           O           O           O           O           O           Property           O	0x0418 0x0419 0x041A 0x041B 0x041C Communication address 0x0500 0x0501 0x0502 0x0503 0x0504 0x0505 0x0505 0x0506 0x0507 0x0508 0x0508 0x050A 0x050B 0x050B 0x050D 0x050E 0x050F 0x050F 0x0511
P04.24 P04.25 P04.26 P04.27 P04.28 P05 input Function code P05.00 P05.00 P05.03 P05.04 P05.05 P05.06 P05.06 P05.07 P05.08 P05.10 P05.11 P05.13 P05.14 P05.15 P05.16 P05.17 P05.18	Voltage upper limit of V/F separation         Current limit         Current limit switch         VF torque filter coefficient         t terminal function parameters group         Name         Dl1(Digital input) function selection         Dl2(Digital input) function selection         Dl3(Digital input) function selection         Dl4(Digital input) function selection         Dl5(Digital input) function selection         Dl6(Digital input) function selection         Dl1/Digital input function selection         Dl3/Digital input function selection         Dl4(Digital input function selection         Dl5(Digital input function selection         Ol1 > Digital input function selection         Dl1 > Digital input Logic selection         Dl1 > Digital input Logic selection         Dl filter time         Terminal command mode         Al1 voltage lower limit         Al1 lower limit setting         Al1 voltage upper limit         Al1 upper limit setting         Al11input filter time         Al2 input selection	O           O	0x0418 0x0419 0x041A 0x041B 0x041C Communication address 0x0500 0x0501 0x0502 0x0503 0x0504 0x0505 0x0505 0x0506 0x0507 0x0508 0x0507 0x0508 0x0500 0x0500 0x050D 0x050D 0x050E 0x050F 0x050F 0x0511 0x0512
P04.24 P04.25 P04.26 P04.27 P04.28 P05 input Function code P05.00 P05.00 P05.01 P05.03 P05.04 P05.05 P05.06 P05.06 P05.07 P05.08 P05.10 P05.11 P05.13 P05.14 P05.15 P05.16 P05.17 P05.18 P05.19	Voltage upper limit of V/F separation         Current limit         Current limit switch         VF torque filter coefficient         t terminal function parameters group         Name         Dl1(Digital input) function selection         Dl2(Digital input) function selection         Dl3(Digital input) function selection         Dl4(Digital input) function selection         Dl5(Digital input) function selection         Dl6(Digital input) function selection         Dl1/Digital input function selection         Dl3/Digital input function selection         Dl4(Digital input function selection         Dl5(Digital input function selection         Optional high-speed pulse input)         Dl1~Dl4 Digital input Logic selection         Dl 5~HD1 1 Digital input Logic selection         Dl filter time         Terminal command mode         Al1 voltage lower limit         Al1 lower limit setting         Al11 voltage upper limit         Al1 upper limit setting         Al11input filter time         Al2 input selection         Al2 voltage lower limit		0x0418 0x0419 0x041A 0x041B 0x041C Communication address 0x0500 0x0501 0x0502 0x0503 0x0504 0x0505 0x0506 0x0505 0x0506 0x0507 0x0508 0x0508 0x0500 0x0500 0x0500 0x0500 0x0505 0x0500 0x0505 0
P04.24 P04.25 P04.26 P04.27 P04.28 P05 input Function code P05.00 P05.01 P05.03 P05.04 P05.05 P05.06 P05.06 P05.07 P05.08 P05.10 P05.11 P05.13 P05.14 P05.15 P05.16 P05.17 P05.18 P05.19 P05.20	Voltage upper limit of V/F separation         Current limit         Current limit switch         VF torque filter coefficient         t terminal function parameters group         Name         Dl1(Digital input) function selection         Dl2(Digital input) function selection         Dl3(Digital input) function selection         Dl4(Digital input) function selection         Dl5(Digital input) function selection         Dl6(Digital input) function selection         Dl1/Digital input function selection         Dl3/Digital input function selection         Dl6(Digital input function selection         Dl1/Digital input function selection         Dl1/Digital input function selection         Dl1/Digital input function selection         Dl1/Digital input Logic selection         Dl1 5-HD1 1 Digital input Logic selection         Dl filter time         Terminal command mode         Al1 voltage lower limit         Al1 lower limit setting         Al1 voltage upper limit         Al1 upper limit setting         Al2 input selection         Al2 voltage lower limit         Al2 voltage lower limit		0x0418 0x0419 0x041A 0x041B 0x041C Communication address 0x0500 0x0501 0x0502 0x0503 0x0504 0x0505 0x0506 0x0505 0x0506 0x0507 0x0508 0x0507 0x0508 0x050A 0x050D 0x050B 0x050D 0x050D 0x050D 0x050E 0x050F 0x0511 0x0512 0x0514
P04.24 P04.25 P04.26 P04.27 P04.28 P05 input Function code P05.00 P05.01 P05.03 P05.03 P05.04 P05.05 P05.06 P05.07 P05.06 P05.07 P05.08 P05.10 P05.11 P05.13 P05.14 P05.15 P05.16 P05.17 P05.18 P05.20 P05.21	Voltage upper limit of V/F separation         Current limit         Current limit switch         VF torque filter coefficient         t terminal function parameters group         Name         Dl1(Digital input) function selection         Dl2(Digital input) function selection         Dl3(Digital input) function selection         Dl4(Digital input) function selection         Dl5(Digital input) function selection         Dl6(Digital input) function selection         Dl6(Digital input) function selection         Dl1^-Dl4 Digital input function selection         Dl1^-Dl4 Digital input Logic selection         Dl1 S-HD1 1 Digital input Logic selection         Dl filter time         Terminal command mode         Al1 voltage lower limit         Al1 voltage upper limit         Al1 voltage upper limit         Al1 upper limit setting         Al2 input selection         Al2 voltage lower limit         Al2 voltage lower limit		0x0418 0x0419 0x041A 0x041B 0x041C Communication address 0x0500 0x0501 0x0502 0x0503 0x0504 0x0505 0x0506 0x0505 0x0506 0x0507 0x0508 0x0507 0x0511 0x0512 0x0513 0x0514 0x0515
P04.24 P04.25 P04.26 P04.27 P04.28 P05 input Function code P05.00 P05.00 P05.03 P05.04 P05.05 P05.06 P05.06 P05.07 P05.08 P05.10 P05.11 P05.13 P05.14 P05.15 P05.16 P05.17 P05.18 P05.19	Voltage upper limit of V/F separation         Current limit         Current limit switch         VF torque filter coefficient         t terminal function parameters group         Name         Dl1(Digital input) function selection         Dl2(Digital input) function selection         Dl3(Digital input) function selection         Dl4(Digital input) function selection         Dl5(Digital input) function selection         Dl6(Digital input) function selection         Dl1/Digital input function selection         Dl3/Digital input function selection         Dl4(Digital input function selection         Dl5(Digital input function selection         Optional high-speed pulse input)         Dl1~Dl4 Digital input Logic selection         Dl 5~HD1 1 Digital input Logic selection         Dl filter time         Terminal command mode         Al1 voltage lower limit         Al1 lower limit setting         Al11 voltage upper limit         Al1 upper limit setting         Al11input filter time         Al2 input selection         Al2 voltage lower limit		0x0418 0x0419 0x041A 0x041B 0x041C Communication address 0x0500 0x0501 0x0502 0x0503 0x0504 0x0505 0x0506 0x0505 0x0506 0x0507 0x0508 0x0508 0x0500 0x0500 0x0500 0x0500 0x0505 0x0500 0x0505 0
P04.24 P04.25 P04.26 P04.27 P04.28 P05 input Function code P05.00 P05.00 P05.01 P05.03 P05.04 P05.05 P05.06 P05.07 P05.08 P05.10 P05.11 P05.13 P05.14 P05.15 P05.16 P05.17 P05.18 P05.20	Voltage upper limit of V/F separation         Current limit         Current limit switch         VF torque filter coefficient         t terminal function parameters group         Name         D11(Digital input) function selection         D12(Digital input) function selection         D13(Digital input) function selection         D14(Digital input) function selection         D15(Digital input) function selection         D16(Digital input) function selection         D110/Digital input Logic selection         D1110/DI4 Digital input Logic selection         D11110/DI4 Digital input Logic selection         D11111         D11111         D111111         D11111         D11111         D11111         D111111         D11111         D11111		0x0418 0x0419 0x041A 0x041B 0x041C Communication address 0x0500 0x0501 0x0502 0x0503 0x0504 0x0505 0x0506 0x0507 0x0508 0x0507 0x0511 0x0512 0x0513 0x0514

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P05.25 P05.26		0	0x0518
P05.26	AI2 current lower limit setting	0	0x0519
	AI2 current upper limit	0	0x051A
P05.27	AI2 current upper limit setting	0	0x051B
P05.28	Al3 voltage lower limit	0	0x051C
P05.29	Al3 voltage lower limit setting	0	0x051D
P05.30	Al3 voltage upper limit	0	0x051E
P05.31	Al3 voltage upper limit setting	0	0x051E
P05.32	Al3 input filter time	0	0x0520
P05.32	High-speed pulse input mini. frequency	0	0x0520
		0	
P05.34	High-speed pulse input mini. frequency setting	-	0x0522
P05.35	High-speed pulse input max. frequency	0	0x0523
P05.36	High-speed pulse input max. frequency setting	0	0x0524
P05.37	High-speed pulse input filter time	0	0x0525
	out terminal parameter group		
Function code	Name	Property	Communicatio address
P06.00	HDO1 output mode selection	0	0x0600
P06.02	Digital output logic selection	0	0x0602
P06.03	Digital output(DO1)	0	0x0603
P06.04	Relay T1 digital output	0	0x0605
P06.05	Digital output (HDO1)	0	0x0604
P06.07	DO1 Digital output delay ON	0	0x0607
		0	0x0608
P06.08 P06.09	DO1 Digital output delay OFF	0	0x0608
	Relay T1 output delay ON Relay T1 output delay OFF	0	
P06.10	, , ,	0	0x060A
P06.11	HDO1 Digital output delay ON	-	0x060B
P06.12	HDO1 Digital output delay OFF	0	0x060C
P06.14	A01 function selection	0	0x060E
P06.15	AO2 function selection	0	0x060F
P06.16	HDO1 pulse output function selection	0	0x0610
P06.17	AO1 output voltage lower limit	0	0x0611
P06.18	AO1 output voltage lower limit setting	0	0x0612
P06.19	AO1 output voltage upper limit	0	0x0613
P06.20	AO1 output voltage upper limit setting	0	0x0614
P06.21	AO2 output voltage lower limit	0	0x0615
P06.22	AO2 output voltage lower limit setting	0	0x0616
P06.23	AO2 output voltage upper limit	0	0x0617
P06.24	AO2 output voltage upper limit setting	0	0x0618
P06.25	HDO1 mini. output set frequency	0	0x0619
	HDO1 mini. output set value		0.0/44
P06.26		0	0x061A
P06.26 P06.27	HDO1 max. output set frequency	0	0x061A 0x061B
		-	
P06.27 P06.28	HDO1 max. output set frequency	0	0x061B 0x061C
P06.27 P06.28 P08 Proc Function	HDO1 max. output set frequency HDO1 max. output set value cess Control PID Function	0	0x061B 0x061C Communicatio
P06.27 P06.28 P08 Proc Function code	HDO1 max. output set frequency HDO1 max. output set value cess Control PID Function Name	Property	0x061B 0x061C Communicatio address
P06.27 P06.28 P08 Proo Function code P08.00	HDO1 max. output set frequency HDO1 max. output set value cess Control PID Function Name PID setting source	Property O	0x061B 0x061C Communicatic address 0x0800
P06.27 P06.28 P08 Proc Function code	HDO1 max. output set frequency HDO1 max. output set value cess Control PID Function Name PID setting source PID digital setting	Property O O O	0x061B 0x061C Communicatio address
P06.27 P06.28 P08 Proo Function code P08.00	HDO1 max. output set frequency HDO1 max. output set value cess Control PID Function Name PID setting source	Property O	0x061B 0x061C Communicatic address 0x0800
P06.27 P06.28 P08 Prod Function code P08.00 P08.01	HDO1 max. output set frequency HDO1 max. output set value cess Control PID Function Name PID setting source PID digital setting	Property O O O	0x061B 0x061C Communicatic address 0x0800 0x0801
P06.27 P06.28 P08 Proo Function code P08.00 P08.01 P08.02	HDO1 max. output set frequency HDO1 max. output set value cess Control PID Function Name PID setting source PID digital setting PID feedback source	Property           0           0           0           0           0           0           0           0           0	0x061B 0x061C Communicatio address 0x0800 0x0801 0x0802
P06.27 P06.28 P08 Proo Function code P08.00 P08.01 P08.02 P08.03	HDO1 max. output set frequency HDO1 max. output set value cess Control PID Function Name PID setting source PID digital setting PID feedback source PID action direction	Property           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0	0x061B 0x061C Communicatic address 0x0800 0x0801 0x0802 0x0803
P06.27 P06.28 P08 Proo Function code P08.00 P08.01 P08.02 P08.03 P08.04	HDO1 max. output set frequency HDO1 max. output set value cess Control PID Function Name PID setting source PID digital setting PID feedback source PID action direction PID setting feedback range	Property           0	0x061B 0x061C Communicatic address 0x0800 0x0801 0x0802 0x0803 0x0804
P06.27 P06.28 P08 Proc Function code P08.00 P08.01 P08.02 P08.03 P08.04 P08.05	HDO1 max. output set frequency HDO1 max. output set value cess Control PID Function Name PID setting source PID digital setting PID feedback source PID action direction PID setting feedback range Proportional gain 1	O           O           Property           O	0x061B 0x061C Communicatic address 0x0800 0x0801 0x0802 0x0803 0x0804 0x0805
P06.27 P06.28 P08 Proc Function code P08.00 P08.01 P08.02 P08.03 P08.04 P08.05 P08.06	HDO1 max. output set frequency HDO1 max. output set value cess Control PID Function Name PID setting source PID digital setting PID feedback source PID action direction PID setting feedback range Proportional gain 1 Integral time1	O           O           Property           O	0x061B 0x061C Communicatic address 0x0800 0x0801 0x0802 0x0803 0x0804 0x0805 0x0806
P06.27 P06.28 P08 Proc Function code P08.00 P08.01 P08.02 P08.03 P08.04 P08.05 P08.06 P08.07	HDO1 max. output set frequency HDO1 max. output set value cess Control PID Function Name PID setting source PID digital setting PID feedback source PID action direction PID setting feedback range Proportional gain 1 Integral time1 Differential time 1	O           O           Property           O	0x061B 0x061C Communicatic address 0x0800 0x0801 0x0802 0x0803 0x0804 0x0805 0x0806 0x0806
P06.27 P06.28 P08 Proc Function code P08.00 P08.01 P08.02 P08.03 P08.04 P08.05 P08.06 P08.07 P08.08	HDO1 max. output set frequency HDO1 max. output set value cess Control PID Function Name PID setting source PID digital setting PID feedback source PID action direction PID setting feedback range Proportional gain 1 Integral time1 Differential time 1 Proportional gain 2	O           O           Property           O	0x061B 0x061C Communicatic address 0x0800 0x0801 0x0802 0x0803 0x0804 0x0805 0x0806 0x0806 0x0807 0x0808
P06.27 P06.28 P08 Proc Function code P08.00 P08.01 P08.02 P08.03 P08.04 P08.05 P08.06 P08.07 P08.08 P08.09	HDO1 max. output set frequency HDO1 max. output set value cess Control PID Function Name PID setting source PID digital setting PID feedback source PID action direction PID setting feedback range Proportional gain 1 Integral time1 Differential time 1 Proportional gain 2 Integral time2	O           O           Property           O	0x061B 0x061C Communicatic address 0x0800 0x0801 0x0802 0x0803 0x0804 0x0805 0x0806 0x0807 0x0808 0x0809
P06.27 P06.28 P08 Proc Function code P08.00 P08.01 P08.02 P08.03 P08.04 P08.05 P08.06 P08.07 P08.08 P08.09 P08.10	HDO1 max. output set frequency HDO1 max. output set value cess Control PID Function Name PID setting source PID digital setting PID feedback source PID action direction PID setting feedback range Proportional gain 1 Integral time1 Differential time 1 Proportional gain 2 Integral time2 Differential time 2	O           Property           O	0x061B 0x061C Communicatic address 0x0800 0x0801 0x0802 0x0803 0x0804 0x0805 0x0806 0x0807 0x0808 0x0809 0x080A
P06.27 P06.28 P08 Proc Function code P08.00 P08.01 P08.02 P08.03 P08.04 P08.05 P08.06 P08.07 P08.08 P08.09 P08.10 P08.11	HDO1 max. output set frequency HDO1 max. output set value cess Control PID Function Name PID setting source PID digital setting PID feedback source PID action direction PID setting feedback range Proportional gain 1 Integral time1 Differential time 1 Proportional gain 2 Integral time2 Differential time 2 PID parameter switchover condition	O           Property           O	0x061B 0x061C Communicatic address 0x0800 0x0801 0x0802 0x0803 0x0804 0x0805 0x0806 0x0806 0x0807 0x0808 0x0809 0x080A 0x080B
P06.27 P06.28 P08 Proc Function code P08.00 P08.01 P08.02 P08.03 P08.04 P08.05 P08.06 P08.07 P08.08 P08.07 P08.08 P08.09 P08.10 P08.11 P08.12 P08.13	HDO1 max. output set frequency HDO1 max. output set value cess Control PID Function Name PID setting source PID digital setting PID feedback source PID action direction PID setting feedback range Proportional gain 1 Integral time1 Differential time 1 Proportional gain 2 Integral time2 Differential time 2 PID parameter switchover condition PID parameter switchover deviation PID parameter switchover deviation PID deviation limit	0           Property           0	0x061B 0x061C Communicatic address 0x0800 0x0801 0x0802 0x0803 0x0804 0x0805 0x0806 0x0806 0x0807 0x0808 0x0808 0x0809 0x080A 0x080B 0x080C 0x080D
P06.27 P06.28 P08 Proc Function code P08.00 P08.01 P08.02 P08.03 P08.04 P08.05 P08.06 P08.07 P08.08 P08.07 P08.08 P08.09 P08.10 P08.11 P08.12 P08.13 P08.14	HDO1 max. output set frequency HDO1 max. output set value cess Control PID Function Name PID setting source PID digital setting PID feedback source PID action direction PID setting feedback range Proportional gain 1 Integral time1 Differential time 1 Proportional gain 2 Integral time2 Differential time 2 PID parameter switchover condition PID parameter switchover deviation PID preset output value	0           Property           0	0x061B 0x061C Communicatic address 0x0800 0x0801 0x0802 0x0803 0x0804 0x0805 0x0806 0x0807 0x0806 0x0807 0x0808 0x0809 0x080A 0x080B 0x080C 0x080D 0x080E
P06.27 P06.28 P08 Proc Function code P08.00 P08.01 P08.02 P08.03 P08.04 P08.05 P08.06 P08.07 P08.08 P08.07 P08.08 P08.07 P08.10 P08.11 P08.12 P08.13 P08.14 P08.15	HDO1 max. output set frequency HDO1 max. output set value cess Control PID Function Name PID setting source PID digital setting PID feedback source PID action direction PID setting feedback range Proportional gain 1 Integral time1 Differential time 1 Proportional gain 2 Integral time2 Differential time 2 PID parameter switchover condition PID parameter switchover deviation PID preset output value PID preset output value holding time	Property           0	0x061B 0x061C Communicatic address 0x0800 0x0801 0x0802 0x0803 0x0804 0x0805 0x0806 0x0806 0x0807 0x0808 0x0807 0x0808 0x0808 0x0808 0x0808 0x080C 0x080D 0x080E 0x080F
P06.27 P06.28 P08 Proc Function code P08.00 P08.00 P08.02 P08.03 P08.04 P08.05 P08.06 P08.07 P08.08 P08.07 P08.08 P08.09 P08.10 P08.11 P08.12 P08.13 P08.14 P08.15 P08.16	HDO1 max. output set frequency HDO1 max. output set value cess Control PID Function Name PID setting source PID digital setting PID feedback source PID action direction PID setting feedback range Proportional gain 1 Integral time1 Differential time 1 Proportional gain 2 Integral time2 Differential time 2 PID parameter switchover condition PID parameter switchover deviation PID preset output value PID preset output value PID preset output value holding time Detection value of feedback loss	Property           0	0x061B 0x061C Communicatic address 0x0800 0x0801 0x0802 0x0803 0x0804 0x0805 0x0806 0x0805 0x0806 0x0807 0x0808 0x0807 0x0808 0x0808 0x0808 0x080B 0x080C 0x080B 0x080C 0x080F 0x080F 0x0810
P06.27 P06.28 P08 Proc Function code P08.00 P08.00 P08.02 P08.03 P08.04 P08.05 P08.06 P08.05 P08.06 P08.07 P08.08 P08.09 P08.10 P08.11 P08.12 P08.14 P08.15 P08.16 P08.17	HDO1 max. output set frequency HDO1 max. output set value cess Control PID Function Name PID setting source PID digital setting PID feedback source PID action direction PID setting feedback range Proportional gain 1 Integral time1 Proportional gain 2 Integral time2 Differential time 2 PID parameter switchover condition PID parameter switchover deviation PID parameter switchover deviation PID preset output value PID preset output value PID preset output value holding time Detection value of feedback loss	Property           0	0x061B 0x061C Communicatic address 0x0800 0x0801 0x0802 0x0803 0x0804 0x0805 0x0805 0x0806 0x0807 0x0808 0x0807 0x0808 0x0800 0x080C 0x080D 0x080E 0x080F 0x0810 0x0811
P06.27 P06.28 P08 Proc Function code P08.00 P08.00 P08.02 P08.03 P08.04 P08.05 P08.06 P08.07 P08.08 P08.07 P08.10 P08.11 P08.12 P08.13 P08.14 P08.15 P08.16 P08.17 P08.18	HDO1 max. output set frequency HDO1 max. output set value cess Control PID Function Name PID setting source PID digital setting PID feedback source PID action direction PID setting feedback range Proportional gain 1 Integral time 1 Proportional gain 2 Integral time 2 Differential time 2 PID parameter switchover condition PID parameter switchover deviation PID parameter switchover deviation PID preset output value PID preset output value PID preset output value PID preset output value holding time Detection value of feedback loss Detection value of feedback loss	Property           0	0x061B 0x061C Communicatic address 0x0800 0x0801 0x0802 0x0803 0x0804 0x0805 0x0806 0x0807 0x0808 0x0807 0x0808 0x0809 0x080A 0x080B 0x080C 0x080B 0x080C 0x080B 0x080C 0x080B 0x080C 0x080B
P06.27 P06.28 P08 Proc Function code P08.00 P08.00 P08.02 P08.03 P08.03 P08.04 P08.05 P08.06 P08.07 P08.06 P08.07 P08.10 P08.11 P08.12 P08.13 P08.14 P08.15 P08.16 P08.17 P08.18 P08.19	HDO1 max. output set frequency HDO1 max. output set value cess Control PID Function Name PID setting source PID digital setting PID feedback source PID action direction PID setting feedback range Proportional gain 1 Integral time1 Differential time 1 Proportional gain 2 Integral time2 Differential time 2 PID parameter switchover condition PID parameter switchover deviation PID parameter switchover deviation PID preset output value PID preset output value PID preset output value PID preset output value PID preset output value holding time Detection value of feedback loss Detection value of feedback over-limit Detection time of feedback over-limit	Property           0	0x061B 0x061C Communicatic address 0x0800 0x0801 0x0802 0x0803 0x0804 0x0805 0x0806 0x0807 0x0808 0x0807 0x0808 0x0807 0x0808 0x0800 0x0800 0x0800 0x0800 0x0800 0x0800 0x0800 0x0801 0x0811 0x0812 0x0813
P06.27 P06.28 P08 Proc Function code P08.00 P08.01 P08.02 P08.03 P08.03 P08.04 P08.05 P08.06 P08.07 P08.06 P08.07 P08.10 P08.10 P08.11 P08.12 P08.13 P08.14 P08.15 P08.16 P08.17 P08.18 P08.19 P08.20	HDO1 max. output set frequency HDO1 max. output set value ess Control PID Function Name PID setting source PID digital setting PID feedback source PID action direction PID setting feedback range Proportional gain 1 Integral time1 Differential time 1 Proportional gain 2 Integral time2 Differential time 2 PID parameter switchover condition PID parameter switchover deviation PID parameter switchover deviation PID preset output value PID preset output value PID preset output value PID preset output value PID preset output value holding time Detection value of feedback loss Detection time of feedback loss Detection time of feedback over-limit PID operation at stop	Property           0	0x061B 0x061C Communicatic address 0x0800 0x0801 0x0802 0x0803 0x0804 0x0805 0x0806 0x0807 0x0808 0x0807 0x0808 0x0807 0x0808 0
P06.27 P06.28 P08 Proc Function code P08.00 P08.01 P08.02 P08.03 P08.04 P08.05 P08.06 P08.07 P08.06 P08.07 P08.08 P08.07 P08.10 P08.11 P08.12 P08.13 P08.14 P08.15 P08.14 P08.15 P08.16 P08.17 P08.18 P08.19 P08.20 P08.21	HDO1 max. output set frequency HDO1 max. output set value ess Control PID Function Name PID setting source PID digital setting PID feedback source PID action direction PID setting feedback range Proportional gain 1 Integral time1 Differential time 1 Proportional gain 2 Integral time2 Differential time 2 PID parameter switchover condition PID parameter switchover deviation PID parameter switchover deviation PID preset output value PID preset output value PID preset output value PID preset output value PID preset output value holding time Detection value of feedback loss Detection value of feedback over-limit PID operation at stop Maximum value of PID outputs in reverse direction	Property           0	0x061B 0x061C Communicatic address 0x0800 0x0801 0x0802 0x0803 0x0804 0x0805 0x0806 0x0807 0x0808 0x0807 0x0808 0x0807 0x0808 0x0800 0x0800 0x0800 0x0800 0x0800 0x0800 0x0800 0x0801 0x0811 0x0812 0x0813
P06.27 P06.28 P08 Proc Function code P08.00 P08.01 P08.02 P08.03 P08.04 P08.05 P08.06 P08.07 P08.06 P08.07 P08.08 P08.07 P08.10 P08.11 P08.12 P08.13 P08.14 P08.15 P08.14 P08.15 P08.16 P08.17 P08.18 P08.19 P08.20 P08.21 P09 spec	HDO1 max. output set frequency HDO1 max. output set value ess Control PID Function Name PID setting source PID digital setting PID feedback source PID action direction PID setting feedback range Proportional gain 1 Integral time1 Differential time 1 Proportional gain 2 Integral time2 Differential time 2 PID parameter switchover condition PID parameter switchover deviation PID parameter switchover deviation PID preset output value PID preset output value PID preset output value PID preset output value PID preset output value holding time Detection value of feedback loss Detection time of feedback loss Detection time of feedback over-limit PID operation at stop	Property           0	0x061B 0x061C Communicatic address 0x0800 0x0801 0x0802 0x0803 0x0804 0x0805 0x0806 0x0806 0x0808 0x
P06.27 P06.28 P08 Proc Function code P08.00 P08.01 P08.02 P08.03 P08.04 P08.05 P08.06 P08.07 P08.06 P08.07 P08.08 P08.07 P08.08 P08.07 P08.10 P08.11 P08.12 P08.13 P08.14 P08.15 P08.16 P08.17 P08.18 P08.19 P08.19 P08.20 P08.20 P09 spec Function code	HDO1 max. output set frequency HDO1 max. output set value cess Control PID Function Name PID setting source PID digital setting PID feedback source PID action direction PID setting feedback range Proportional gain 1 Integral time1 Differential time 1 Proportional gain 2 Integral time2 Differential time 2 PID parameter switchover condition PID parameter switchover deviation PID preset output value PID preset output value holding time Detection value of feedback loss Detection value of feedback over-limit PID operation at stop Maximum value of PID outputs in reverse direction cial function parameter group	Property           0<	0x061B 0x061C Communicatic address 0x0800 0x0801 0x0802 0x0803 0x0804 0x0805 0x0806 0x0805 0x0806 0x0807 0x0808 0x0807 0x0808 0x0809 0x0808 0x0809 0x0808 0x0808 0x0809 0x0808 0x0808 0x0808 0x0808 0x0808 0x0808 0x0808 0x0808 0x0808 0x0810 0x0811 0x0812 0x0813 0x0814 0x0814 0x0814 0x0815
P06.27 P06.28 P08 Proc Function code P08.00 P08.01 P08.02 P08.03 P08.04 P08.05 P08.06 P08.07 P08.06 P08.07 P08.08 P08.07 P08.08 P08.07 P08.10 P08.11 P08.12 P08.13 P08.14 P08.15 P08.16 P08.17 P08.18 P08.17 P08.18 P08.19 P08.20 P08.20 P09.spec Function code P09.00	HDO1 max. output set frequency HDO1 max. output set value cess Control PID Function Name PID setting source PID digital setting PID feedback source PID action direction PID setting feedback range Proportional gain 1 Integral time1 Differential time 1 Proportional gain 2 Integral time2 Differential time 2 PID parameter switchover condition PID parameter switchover deviation PID preset output value PID preset output value feedback loss Detection value of feedback over-limit Detection time of feedback over-limit PID operation at stop Maximum value of PID outputs in reverse direction cial function parameter group Name Frequency detection value 1 (FDT1)	Property           0	0x061B 0x061C Communicatic address 0x0800 0x0801 0x0802 0x0803 0x0804 0x0805 0x0806 0x0807 0x0805 0x0806 0x0807 0x0808 0x0809 0x0808 0x0809 0x0808 0x0809 0x0808 0x0809 0x0808 0x0809 0x0808 0x0807 0x0808 0x0808 0x0807 0x0808 0x0808 0x0807 0x0808 0x0807 0x0808 0x0808 0x0807 0x0808 0x0808 0x0807 0x0811 0x0814 0x0814 0x0815 0x0817 0x0812 0x0813 0x0814 0x0815 0x0807 0x0810 0x0817 0x0812 0x0814 0x0815 0x0807 0x0810 0x0817 0x0812 0x0814 0x0815 0x0807 0x0810 0x0814 0x0815 0x0814 0x0815 0x0814 0x0815 0x0814 0x0815 0x0814 0x0815 0x0814 0x0815 0x0814 0x0815 0x0814 0x0815 0x0814 0x0815 0x0814 0x0815 0x0814 0x0815 0x0814 0x0815 0x0814 0x0815 0x0814 0x0815 0x0900 0x0900 0x0808 0x0900 0x0808 0
P06.27 P06.28 P08 Proc Function code P08.00 P08.01 P08.02 P08.03 P08.04 P08.05 P08.06 P08.07 P08.06 P08.07 P08.08 P08.07 P08.08 P08.07 P08.10 P08.11 P08.12 P08.13 P08.14 P08.15 P08.16 P08.17 P08.18 P08.19 P08.19 P08.20 P08.20 P09 spec Function code	HDO1 max. output set frequency HDO1 max. output set value cess Control PID Function Name PID setting source PID digital setting PID feedback source PID action direction PID setting feedback range Proportional gain 1 Integral time1 Differential time 1 Proportional gain 2 Integral time2 Differential time 2 PID parameter switchover condition PID parameter switchover deviation PID preset output value PID preset output value holding time Detection value of feedback loss Detection value of feedback over-limit PID operation at stop Maximum value of PID outputs in reverse direction cial function parameter group	Property           0<	0x061B 0x061C Communicatic address 0x0800 0x0801 0x0802 0x0803 0x0804 0x0805 0x0806 0x0806 0x0807 0x0808 0x0807 0x0808 0x0809 0x0808 0x0810 0x0813 0x0814 0x0814 0x0812 0x0814 0x0815 0x0816 0

	0	0x0518
	0	0x0519
	0	0x051A
	0	0x051B
	0	0x051C
	0	0x051D
	0	0x051E
	0	0x051F
	0	0x0520
	0	0x0521
	0	0x0522
	0	0x0523
	0	0x0524
	0	0x0525
	·	
	Property	Communication
		address
	0	0x0600
	0	0x0602
	0	0x0603
	0	0x0605
	0	0x0604
	0	0x0607
	0	0x0608
	0	0x0609
	0	0x060A
	0	0x060B
	0	0x060C
	0	0x060E
	0	0x060E
	0	0x060P
	0	0x0610 0x0611
	0	0x0611
	0	0x0612 0x0613
	0	
	0	0x0614
	-	0x0615
	0	0x0616
	0	0x0617
	0	0x0618
	0	0x0619
	0	0x061A
	0	0x061B
	-	
	0	0x061C
	0	1
	0	Communication
	O Property	Communication address
	Property O	Communication address 0x0800
	Property O O O	Communication address 0x0800 0x0801
	Property O O O O O O O O O O O O O O O O O O O	Communication address 0x0800 0x0801 0x0802
	Property O O O O O O O O O O O O O O O O O O O	Communication address 0x0800 0x0801 0x0802 0x0803
	Property           0           0           0           0           0           0           0           0           0           0	Communication address 0x0800 0x0801 0x0802 0x0803 0x0804
	Property           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0	Communication address 0x0800 0x0801 0x0802 0x0803 0x0803 0x0804 0x0805
	Property           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0	Communication address 0x0800 0x0801 0x0802 0x0803 0x0804 0x0805 0x0806
	Property           0	Communication address 0x0800 0x0801 0x0802 0x0803 0x0804 0x0805 0x0806 0x0807
	Property 0 0 0 0 0 0 0 0 0 0 0 0 0	Communication address 0x0800 0x0801 0x0802 0x0803 0x0804 0x0805 0x0805 0x0806 0x0807 0x0808
	Property           0	Communication address 0x0800 0x0801 0x0802 0x0803 0x0804 0x0805 0x0806 0x0807
	Property 0 0 0 0 0 0 0 0 0 0 0 0 0	Communication address 0x0800 0x0801 0x0802 0x0803 0x0804 0x0805 0x0805 0x0806 0x0807 0x0808
	Property 0 0 0 0 0 0 0 0 0 0 0 0 0	Communication address 0x0800 0x0801 0x0802 0x0803 0x0804 0x0805 0x0805 0x0806 0x0807 0x0808 0x0809
	Property 0 0 0 0 0 0 0 0 0 0 0 0 0	Communication address 0x0800 0x0801 0x0802 0x0803 0x0804 0x0805 0x0805 0x0806 0x0807 0x0808 0x0809 0x080A
	Property           0	Communication address 0x0800 0x0801 0x0802 0x0803 0x0804 0x0805 0x0806 0x0807 0x0808 0x0807 0x0808 0x0809 0x080A 0x080B
	Property           0	Communication address 0x0800 0x0801 0x0802 0x0803 0x0804 0x0805 0x0806 0x0807 0x0808 0x0807 0x0808 0x0809 0x080A 0x080B 0x080B 0x080C
	Property           0	Communication address 0x0800 0x0801 0x0802 0x0803 0x0804 0x0805 0x0804 0x0805 0x0806 0x0807 0x0808 0x0809 0x0808 0x0809 0x080A 0x080B 0x080D 0x080D 0x080E
	Property           0	Communication address 0x0800 0x0801 0x0802 0x0803 0x0804 0x0805 0x0804 0x0805 0x0806 0x0807 0x0808 0x0807 0x0808 0x0809 0x080A 0x080B 0x080B 0x080C 0x080D 0x080E 0x080F
	Property           0	Communication address 0x0800 0x0801 0x0802 0x0803 0x0804 0x0805 0x0806 0x0807 0x0808 0x0807 0x0808 0x0807 0x0808 0x0807 0x0808 0x0807 0x0808 0x0800 0x080D 0x080D 0x080E 0x080F 0x0810
	Property           0	Communication address 0x0800 0x0801 0x0802 0x0803 0x0804 0x0805 0x0806 0x0807 0x0808 0x0807 0x0808 0x0807 0x0808 0x0807 0x0808 0x0807 0x0808 0x0807 0x0808 0x0807 0x0808 0x0807 0x0808 0x0807 0x0808 0x0807 0x0808 0x0807 0x0808 0x0807 0x0808 0x0807 0x0808 0x0807 0x0808 0x0807 0x0808 0x0807 0x0808 0x0807 0x0808 0x0808 0x0807 0x0808 0x0808 0x0807 0x0808 0x0807 0x0808 0x0807 0x0808 0x0807 0x0808 0x0807 0x0808 0x0807 0x0808 0x0807 0x0808 0x0808 0x0807 0x0808 0x0808 0x0807 0x0808 0
	Property           0	Communication address 0x0800 0x0801 0x0802 0x0803 0x0804 0x0805 0x0806 0x0807 0x0808 0x0807 0x0808 0x0807 0x0808 0x0807 0x0808 0x0807 0x0808 0x0807 0x0808 0x0807 0x0808 0x0807 0x0808 0x0807 0x0808 0x0807 0x0808 0x0807 0x0808 0x0807 0x0808 0x0807 0x0808 0x0807 0x0808 0x0807 0x0808 0x0807 0x0807 0x0807 0x0808 0x0807 0x0807 0x0808 0x0808 0x0807 0x0808 0x0808 0x0807 0x0808 0
	Property           0	Communication address 0x0800 0x0801 0x0802 0x0803 0x0804 0x0805 0x0806 0x0807 0x0808 0x0807 0x0808 0x0807 0x0808 0x0807 0x0808 0x0807 0x0808 0x0807 0x0808 0x0807 0x0808 0x0807 0x0808 0x0807 0x0808 0x0807 0x0808 0x0807 0x0808 0x0807 0x0808 0x0807 0x0808 0x0807 0x0808 0x0807 0x0808 0x0807 0x0808 0x0808 0x0807 0x0808 0
	Property           0	Communication address 0x0800 0x0801 0x0802 0x0803 0x0804 0x0805 0x0806 0x0807 0x0808 0x0808 0x0807 0x0808 0x0808 0x0807 0x0808 0x0808 0x0807 0x0808 0x0808 0x0807 0x0808 0
n	Property           0	Communication address 0x0800 0x0801 0x0802 0x0803 0x0804 0x0805 0x0806 0x0807 0x0808 0x0807 0x0808 0x0807 0x0808 0x0807 0x0808 0x0807 0x0808 0x0807 0x0808 0x0807 0x0808 0x0807 0x0808 0x0807 0x0808 0x0807 0x0808 0x0807 0x0808 0x0807 0x0808 0x0807 0x0808 0x0807 0x0808 0x0807 0x0808 0x0807 0x0808 0x0808 0x0807 0x0808 0
	Property           0	Communication address 0x0800 0x0801 0x0802 0x0803 0x0804 0x0805 0x0805 0x0806 0x0807 0x0808 0x0807 0x0808 0x0807 0x0808 0
n	Property           0	Communication address 0x0800 0x0801 0x0802 0x0803 0x0804 0x0805 0x0806 0x0807 0x0808 0x0807 0x0808 0x0809 0x080A 0x0808 0x0800000000
	Property           0	Communication address 0x0800 0x0801 0x0802 0x0803 0x0804 0x0805 0x0805 0x0806 0x0807 0x0808 0x0807 0x0808 0x0809 0x080A 0x080B 0x080B 0x080D 0x080D 0x080D 0x080D 0x080D 0x080F 0x080F 0x080F 0x0811 0x0812 0x0813 0x0814 0x0815 Communication address
	Property           0	Communication address 0x0800 0x0801 0x0802 0x0803 0x0804 0x0805 0x0806 0x0807 0x0806 0x0807 0x0808 0x0807 0x0808 0x0809 0x0808 0x0809 0x0808 0x0800 0x0800 0x0800 0x0800 0x0800 0x0800 0x0801 0x0811 0x0811 0x0812 0x0813 0x0814 0x0814 0x0815
n	Property           0	Communication address 0x0800 0x0801 0x0802 0x0803 0x0803 0x0804 0x0805 0x0806 0x0805 0x0806 0x0807 0x0808 0x0807 0x0808 0x0809 0x0808 0x0809 0x0808 0x0800 0x0800 0x0800 0x0800 0x0800 0x0801 0x0811 0x0812 0x0813 0x0814 0x0815 Communication address 0x0900 0x0901
	Property           0	Communication address 0x0800 0x0801 0x0802 0x0803 0x0804 0x0805 0x0806 0x0807 0x0806 0x0807 0x0808 0x0807 0x0808 0x0809 0x0808 0x0809 0x0808 0x0800 0x0800 0x0800 0x0800 0x0800 0x0800 0x0801 0x0811 0x0811 0x0812 0x0813 0x0814 0x0814 0x0815

### 6 HCFA TECHNOLOGY

P12.25 P12.26 P12.27			
	Acceleration/deceleration time of simple PLC reference 10	0	0x0C19
P12.27	Running time of simple PLC reference 11	0	0x0C1A
	Acceleration/deceleration time of simple PLC reference 11	0	0x0C1B
P12.28	Running time of simple PLC reference 12	0	0x0C1C
P12.29	Acceleration/deceleration time of simple PLC reference 12	0	0x0C1D
P12.30	Running time of simple PLC reference 13	0	0x0C1E
		-	
P12.31	Acceleration/deceleration time of simple PLC reference 13	0	0x0C1F
P12.32	Running time of simple PLC reference 14	0	0x0C20
P12.33	Acceleration/deceleration time of simple PLC reference 14	0	0x0C21
P12.34	Running time of simple PLC reference 15	0	0x0C22
P12.35	Acceleration/deceleration time of simple PLC reference 15	0	0x0C23
	t and protection function parameter group		0,0023
Function			Commission
code	Name	Property	Communication address
P13.01	Overload warning selection	0	0x0D01
		-	
P13.02	Overload warning detection level	0	0x0D02
P13.03	Detection time of overload warning	0	0x0D03
P13.04	Phase loss protection	0	0x0D04
P13.05	Light load warning selection	0	0x0D05
P13.06	Light load warning detection level	0	0x0D06
	° °	0	
P13.07	Detection time of light load warning	-	0x0D07
P13.09	Short-circuit to ground upon power-on	0	0x0D09
P13.10~P	13.16		
P13.17	Cooling fan control	0	0x0D11
P13.18	Reserved		
P13.19	Under-voltage setting	0	0x0D13
		-	
P13.20	Fault auto reset times	0	0x0D14
P13.21	DO action during fault auto reset	0	0x0D15
P13.22	Time interval of fault auto reset	0	0x0D16
P13.23	voltage adjustment selection	0	0x0D17
P13.24	Overvoltage stall protective voltage	0	0x0D18
		-	
P13.25	Energy braking action selection	0	0x0D19
P13.26	Energy braking protective voltage	0	0x0D1A
P13.27	Overvoltage stall gain	O	0x0D1B
P13.30	Fault record selection	0	0x0D1E
P13.31	Fault code	•	0x0D1F
P13.32	Running frequency upon fault	•	0x0D20
P13.33	Output current upon fault	•	0x0D21
P13.34	Bus voltage upon fault	•	0x0D22
P13.35	Output voltage upon fault	•	0x0D23
P13.36	Input terminal status upon fault	•	0x0D24
P13.37	Output terminal status upon fault	•	0x0D25
		-	
P13.38	Module temperature	•	0x0D26
P13.39	Accumulative running time upon fault (hour)	•	0x0D27
P13.40	Accumulative running time upon fault (second)		
		•	0x0D28
P14 com	munication parameters group	•	0x0D28
P14 com Function			
	munication parameters group Name	Property	0x0D28 Communication address
Function			Communication
Function code	Name	Property	Communication address
Function code P14.01 P14.02	Name Baud rate Data format	Property O	Communication address 0x0E01 0x0E02
Function code P14.01 P14.02 P14.03	Name Baud rate Data format Local address	Property O O O	Communication address 0x0E01 0x0E02 0x0E03
Function code P14.01 P14.02 P14.03 P14.04	Name Baud rate Data format Local address Response delay	Property O O O O O O O O O O O O O O O O O O O	Communication address 0x0E01 0x0E02 0x0E03 0x0E04
Function code           P14.01           P14.02           P14.03           P14.04           P14.05	Name Baud rate Data format Local address Response delay Communication timeout	Property O O O O O O O O O O O O O O O O O O O	Communication address 0x0E01 0x0E02 0x0E03 0x0E04 0x0E05
Function code P14.01 P14.02 P14.03 P14.04 P14.05 P14.06	Name       Baud rate       Data format       Local address       Response delay       Communication timeout       Communication fault processing	Property O O O O O O O O O O O O O O O O O O O	Communication address 0x0E01 0x0E02 0x0E03 0x0E04
Function code P14.01 P14.02 P14.03 P14.04 P14.05 P14.06	Name Baud rate Data format Local address Response delay Communication timeout	Property O O O O O O O O O O O O O O O O O O O	Communication address 0x0E01 0x0E02 0x0E03 0x0E04 0x0E05
Function code P14.01 P14.02 P14.03 P14.04 P14.05 P14.06 P26 Stat Function	Name       Baud rate       Data format       Local address       Response delay       Communication timeout       Communication fault processing       us monitoring parameters group	Property	Communication address 0x0E01 0x0E02 0x0E03 0x0E04 0x0E05 0x0E06 Communication
Function code P14.01 P14.02 P14.03 P14.04 P14.05 P14.06 P26 Stat Function code	Name Baud rate Data format Local address Response delay Communication timeout Communication fault processing us monitoring parameters group Name	Property O O O O O O O O O O O O O O O O O O O	Communication address 0x0E01 0x0E02 0x0E03 0x0E04 0x0E05 0x0E06 0x0E06 0x0E06
Function code P14.01 P14.02 P14.03 P14.04 P14.05 P14.06 P26 Stat Function	Name       Baud rate       Data format       Local address       Response delay       Communication timeout       Communication fault processing       us monitoring parameters group	Property	Communication address 0x0E01 0x0E02 0x0E03 0x0E04 0x0E05 0x0E06 Communication
Function code P14.01 P14.02 P14.03 P14.04 P14.05 P14.06 P26 Stat Function code	Name Baud rate Data format Local address Response delay Communication timeout Communication fault processing us monitoring parameters group Name	Property O O O O O Property	Communication address 0x0E01 0x0E02 0x0E03 0x0E04 0x0E05 0x0E06 0x0E06 0x0E06
Function code P14.01 P14.02 P14.03 P14.04 P14.05 P14.06 P26 Stat Function code P26.00	Name         Baud rate         Data format         Local address         Response delay         Communication timeout         Communication fault processing         us monitoring parameters group         Name         Running frequency	Property O O O O Property Property	Communication address 0x0E01 0x0E02 0x0E03 0x0E04 0x0E05 0x0E06 0x0E06 Communication address 0x1A00
Function code P14.01 P14.02 P14.03 P14.04 P14.04 P14.05 P26 Stat Function code P26.00 P26.01 P26.02	Name         Baud rate         Data format         Local address         Response delay         Communication timeout         Communication fault processing         us monitoring parameters group         Name         Running frequency         Set frequency         Bus voltage	Property O O O O Property Property O O O O O O O O O O O O O O O O O O O	Communication address 0x0E01 0x0E02 0x0E03 0x0E04 0x0E05 0x0E06 0x0E06 Communication address 0x1A00 0x1A01 0x1A02
Function code P14.01 P14.02 P14.03 P14.04 P14.04 P14.05 P26 Stat Function code P26.00 P26.01 P26.02 P26.03	Name         Baud rate         Data format         Local address         Response delay         Communication timeout         Communication fault processing         us monitoring parameters group         Name         Running frequency         Set frequency         Bus voltage         Output voltage	Property O O O O Property Property O O O O O O O O O O O O O O O O O O O	Communication address 0x0E01 0x0E02 0x0E03 0x0E04 0x0E05 0x0E06 0x0E06 Communication address 0x1A00 0x1A01 0x1A02 0x1A03
Function code P14.01 P14.02 P14.03 P14.04 P14.04 P14.05 P26 Statt Function code P26.00 P26.01 P26.02 P26.03 P26.04	Name         Baud rate         Data format         Local address         Response delay         Communication timeout         Communication fault processing         us monitoring parameters group         Name         Running frequency         Set frequency         Bus voltage         Output voltage         Output current	Property O O O Property Property O O O O O O O O O O O O O	Communication address 0x0E01 0x0E02 0x0E03 0x0E04 0x0E05 0x0E06 Communication address 0x1A00 0x1A01 0x1A02 0x1A03 0x1A04
Function code P14.01 P14.02 P14.03 P14.04 P14.04 P14.05 P26.00 P26.00 P26.01 P26.02 P26.03 P26.04 P26.05	Name         Baud rate         Data format         Local address         Response delay         Communication timeout         Communication fault processing         us monitoring parameters group         Name         Running frequency         Set frequency         Bus voltage         Output voltage         Output power	Property O O O Property Property O O O O O O O O O O O O O	Communication address 0x0E01 0x0E02 0x0E03 0x0E04 0x0E05 0x0E06 Communication address 0x1A00 0x1A01 0x1A02 0x1A03 0x1A04 0x1A05
Function code P14.01 P14.02 P14.03 P14.04 P14.04 P14.05 P26 Statt Function code P26.00 P26.01 P26.02 P26.03 P26.04	Name         Baud rate         Data format         Local address         Response delay         Communication timeout         Communication fault processing         us monitoring parameters group         Name         Running frequency         Set frequency         Bus voltage         Output voltage         Output current	Property O O O Property Property O O O O O O O O O O O O O	Communication address 0x0E01 0x0E02 0x0E03 0x0E04 0x0E05 0x0E06 Communication address 0x1A00 0x1A01 0x1A02 0x1A03 0x1A04
Function code P14.01 P14.02 P14.03 P14.04 P14.04 P14.05 P26.00 P26.00 P26.01 P26.02 P26.03 P26.04 P26.05	Name         Baud rate         Data format         Local address         Response delay         Communication timeout         Communication fault processing         us monitoring parameters group         Name         Running frequency         Set frequency         Bus voltage         Output voltage         Output power	Property O O O Property Property O O O O O O O O O O O O O	Communication address 0x0E01 0x0E02 0x0E03 0x0E04 0x0E05 0x0E06 Communication address 0x1A00 0x1A01 0x1A02 0x1A03 0x1A04 0x1A05
Function code P14.01 P14.02 P14.03 P14.04 P14.05 P14.06 P26 Stat Function code P26.00 P26.01 P26.02 P26.03 P26.04 P26.05 P26.06	Name         Baud rate         Data format         Local address         Response delay         Communication timeout         Communication fault processing         us monitoring parameters group         Name         Running frequency         Set frequency         Bus voltage         Output voltage         Output power         Set torque (%)	Property O O O Property Property O O O O O O O O O O O O O	Communication address 0x0E01 0x0E02 0x0E03 0x0E04 0x0E05 0x0E06 Communication address 0x1A00 0x1A01 0x1A02 0x1A03 0x1A04 0x1A05 0x1A06
Function code P14.01 P14.02 P14.03 P14.04 P14.05 P14.06 P26 Stat Function code P26.00 P26.01 P26.02 P26.03 P26.04 P26.05 P26.06 P26.07 P26.08	Name         Baud rate         Data format         Local address         Response delay         Communication timeout         Communication fault processing         us monitoring parameters group         Name         Running frequency         Set frequency         Bus voltage         Output voltage         Output current         Output power         Set torque (%)         PID setting	Property O O O O O Property Property O O O O O O O O O O O O O	Communication address 0x0E01 0x0E02 0x0E03 0x0E04 0x0E05 0x0E06 Communication address 0x1A00 0x1A01 0x1A02 0x1A03 0x1A04 0x1A05 0x1A06 0x1A07 0x1A08
Function code P14.01 P14.02 P14.03 P14.04 P14.05 P14.06 P26 Stat Function code P26.00 P26.01 P26.02 P26.03 P26.04 P26.05 P26.06 P26.07 P26.08 P26.09	Name         Baud rate         Data format         Local address         Response delay         Communication timeout         Communication fault processing         us monitoring parameters group         Name         Running frequency         Set frequency         Bus voltage         Output voltage         Output current         Output torque (%)         PID setting         PID feedback	Property	Communication address 0x0E01 0x0E02 0x0E03 0x0E04 0x0E05 0x0E06 Communication address 0x1A00 0x1A01 0x1A01 0x1A02 0x1A03 0x1A04 0x1A05 0x1A06 0x1A07 0x1A08 0x1A09
Function code P14.01 P14.02 P14.03 P14.04 P14.05 P14.06 P26 Stat Function code P26.00 P26.01 P26.02 P26.03 P26.04 P26.05 P26.06 P26.07 P26.08 P26.09 P26.10	Name         Baud rate         Data format         Local address         Response delay         Communication timeout         Communication fault processing         us monitoring parameters group         Name         Running frequency         Set frequency         Bus voltage         Output voltage         Output current         Output torque (%)         PID setting         PID feedback         Output speed	Property	Communication address 0x0E01 0x0E02 0x0E03 0x0E04 0x0E05 0x0E06 Communication address 0x1A00 0x1A01 0x1A01 0x1A02 0x1A03 0x1A04 0x1A05 0x1A06 0x1A07 0x1A08 0x1A09 0x1A0A
Function code P14.01 P14.02 P14.03 P14.04 P14.05 P14.06 P26 Stat Function code P26.00 P26.01 P26.02 P26.03 P26.04 P26.05 P26.06 P26.07 P26.08 P26.09	Name         Baud rate         Data format         Local address         Response delay         Communication timeout         Communication fault processing         us monitoring parameters group         Name         Running frequency         Set frequency         Bus voltage         Output voltage         Output current         Output torque (%)         PID setting         PID feedback	Property	Communication address 0x0E01 0x0E02 0x0E03 0x0E04 0x0E05 0x0E06 Communication address 0x1A00 0x1A01 0x1A01 0x1A02 0x1A03 0x1A04 0x1A05 0x1A06 0x1A07 0x1A08 0x1A09
Function code P14.01 P14.02 P14.03 P14.04 P14.05 P14.06 P26 Stat Function code P26.00 P26.01 P26.02 P26.03 P26.04 P26.05 P26.06 P26.07 P26.08 P26.09 P26.10	Name         Baud rate         Data format         Local address         Response delay         Communication timeout         Communication fault processing         us monitoring parameters group         Name         Running frequency         Set frequency         Bus voltage         Output voltage         Output current         Output torque (%)         PID setting         PID feedback         Output speed	Property	Communication address 0x0E01 0x0E02 0x0E03 0x0E04 0x0E05 0x0E06 Communication address 0x1A00 0x1A01 0x1A01 0x1A02 0x1A03 0x1A04 0x1A05 0x1A06 0x1A07 0x1A08 0x1A09 0x1A0A
Function code P14.01 P14.02 P14.03 P14.04 P14.05 P14.06 P26 Stat Function code P26.00 P26.01 P26.02 P26.03 P26.04 P26.05 P26.04 P26.05 P26.06 P26.07 P26.08 P26.09 P26.10 P26.11	Name         Baud rate         Data format         Local address         Response delay         Communication timeout         Communication fault processing         us monitoring parameters group         Name         Running frequency         Set frequency         Bus voltage         Output voltage         Output current         Output torque (%)         PID setting         PID feedback         Output speed         DI state	Property	Communication address 0x0E01 0x0E02 0x0E03 0x0E04 0x0E05 0x0E06 Communication address 0x1A00 0x1A01 0x1A01 0x1A02 0x1A03 0x1A04 0x1A05 0x1A06 0x1A07 0x1A08 0x1A09 0x1A0A
Function code P14.01 P14.02 P14.03 P14.04 P14.05 P14.06 P26 Stat Function code P26.00 P26.01 P26.02 P26.03 P26.04 P26.05 P26.04 P26.05 P26.06 P26.07 P26.08 P26.09 P26.10 P26.11 P26.12 P26.13	Name         Baud rate         Data format         Local address         Response delay         Communication timeout         Communication fault processing         us monitoring parameters group         Name         Running frequency         Set frequency         Bus voltage         Output voltage         Output power         Set torque (%)         PID setting         PID feedback         Output speed         DI state         DO state         Al1 input	Property	Communication address 0x0E01 0x0E02 0x0E03 0x0E04 0x0E05 0x0E06 Communication address 0x1A00 0x1A01 0x1A01 0x1A02 0x1A03 0x1A04 0x1A05 0x1A06 0x1A07 0x1A08 0x1A09 0x1A00 0x1A00 0x1A00 0x1A00
Function code P14.01 P14.02 P14.03 P14.04 P14.05 P14.06 P26 Stat Function code P26.00 P26.01 P26.02 P26.03 P26.04 P26.05 P26.04 P26.05 P26.06 P26.07 P26.08 P26.07 P26.08 P26.09 P26.10 P26.11 P26.12 P26.13 P26.14	Name         Baud rate         Data format         Local address         Response delay         Communication timeout         Communication fault processing         us monitoring parameters group         Name         Running frequency         Set frequency         Bus voltage         Output voltage         Output current         Output power         Set torque (%)         PID setting         PID feedback         Output speed         DI state         DO state         Al1 input         Al2 input	Property	Communication address 0x0E01 0x0E02 0x0E03 0x0E04 0x0E05 0x0E06 Communication address 0x1A00 0x1A01 0x1A02 0x1A03 0x1A04 0x1A05 0x1A04 0x1A05 0x1A06 0x1A07 0x1A08 0x1A09 0x1A00 0x1A00 0x1A00 0x1A00 0x1A00 0x1A00
Function code P14.01 P14.02 P14.03 P14.04 P14.05 P14.06 P26 Stat Function code P26.00 P26.01 P26.02 P26.03 P26.04 P26.05 P26.04 P26.05 P26.06 P26.07 P26.08 P26.07 P26.08 P26.09 P26.10 P26.11 P26.12 P26.13 P26.14 P26.15	Name         Baud rate         Data format         Local address         Response delay         Communication timeout         Communication fault processing         us monitoring parameters group         Name         Running frequency         Set frequency         Bus voltage         Output voltage         Output current         Output power         Set torque (%)         PID feedback         Output speed         DI state         DO state         Al1 input         Al2 input	Property	Communication address 0x0E01 0x0E02 0x0E03 0x0E04 0x0E05 0x0E06 Communication address 0x1A00 0x1A01 0x1A02 0x1A03 0x1A04 0x1A05 0x1A04 0x1A05 0x1A06 0x1A07 0x1A08 0x1A09 0x1A00
Function code P14.01 P14.02 P14.03 P14.04 P14.05 P14.05 P14.06 P26 Stat Function code P26.00 P26.01 P26.02 P26.03 P26.04 P26.05 P26.05 P26.06 P26.07 P26.08 P26.07 P26.08 P26.09 P26.10 P26.11 P26.12 P26.14 P26.15 P26.16	Name         Baud rate         Data format         Local address         Response delay         Communication fault processing         us monitoring parameters group         Name         Running frequency         Set frequency         Bus voltage         Output voltage         Output voltage         Output current         Output torque (%)         PID setting         PID feedback         Output speed         DI state         Al1 input         Al2 input         Al3 input	Property	Communication address 0x0E01 0x0E02 0x0E03 0x0E04 0x0E05 0x0E06 Communication address 0x1A00 0x1A01 0x1A02 0x1A03 0x1A04 0x1A05 0x1A04 0x1A05 0x1A06 0x1A07 0x1A08 0x1A09 0x1A08 0x1A09 0x1A00 0x1A0 0x1A00 0
Function code P14.01 P14.02 P14.03 P14.04 P14.05 P14.06 P26 Stat Function code P26.00 P26.01 P26.02 P26.03 P26.04 P26.05 P26.04 P26.05 P26.06 P26.07 P26.08 P26.07 P26.08 P26.09 P26.10 P26.11 P26.12 P26.13 P26.14 P26.15	Name         Baud rate         Data format         Local address         Response delay         Communication timeout         Communication fault processing         us monitoring parameters group         Name         Running frequency         Set frequency         Bus voltage         Output voltage         Output current         Output power         Set torque (%)         PID feedback         Output speed         DI state         DO state         Al1 input         Al2 input	Property	Communication address 0x0E01 0x0E02 0x0E03 0x0E04 0x0E05 0x0E06 Communication address 0x1A00 0x1A01 0x1A02 0x1A03 0x1A04 0x1A05 0x1A04 0x1A05 0x1A06 0x1A07 0x1A08 0x1A09 0x1A00

Function code	Name	Property	Communication address
P26.18	Reserved	•	0x1A12
P26.19	PULSE-IN frequency (0.01KHz)	•	0x1A13
P26.20	PULSE-OUT frequency (0.01KHz)	•	0x1A14
P26.21	Count value	•	0x1A15
P26.23	Length value	•	0x1A17
P26.24	Load speed lower byte	•	0x1A18
P26.25	Load speed high byte	•	0x1A19
P26.26	PLC stage	•	0x1A1A
P26.27	PLC stage	•	0x1A1B
P26.28	Frequency source B	•	0x1A1C
P26.29	Output synchronous frequency	•	0x1A1D
P26.30	Current running time	•	0x1A1E
P26.31	Current power-on time	•	0x1A1F
P26.32	Accumulative running time	•	0x1A20
P26.33	Accumulative power-on time	•	0x1A21
P26.34	Product code	•	0x1A22
P26.35	Software version No. of drive	•	0x1A23
P26.36	Rated power of inverter	•	0x1A24
P26.37	Rated voltage of inverter	•	0x1A25
P26.38	Rated current of inverter	•	0x1A26
P26.39	Module temperature 1	•	0x1A27
P26.40	Module temperature 2	•	0x1A28
P26.41	Software version No. of operation panel	•	0x1A29
P26.42	Software code	•	0x1A2A

