

HNC CANOPEN CONFIGURATION




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1.Download and install driver

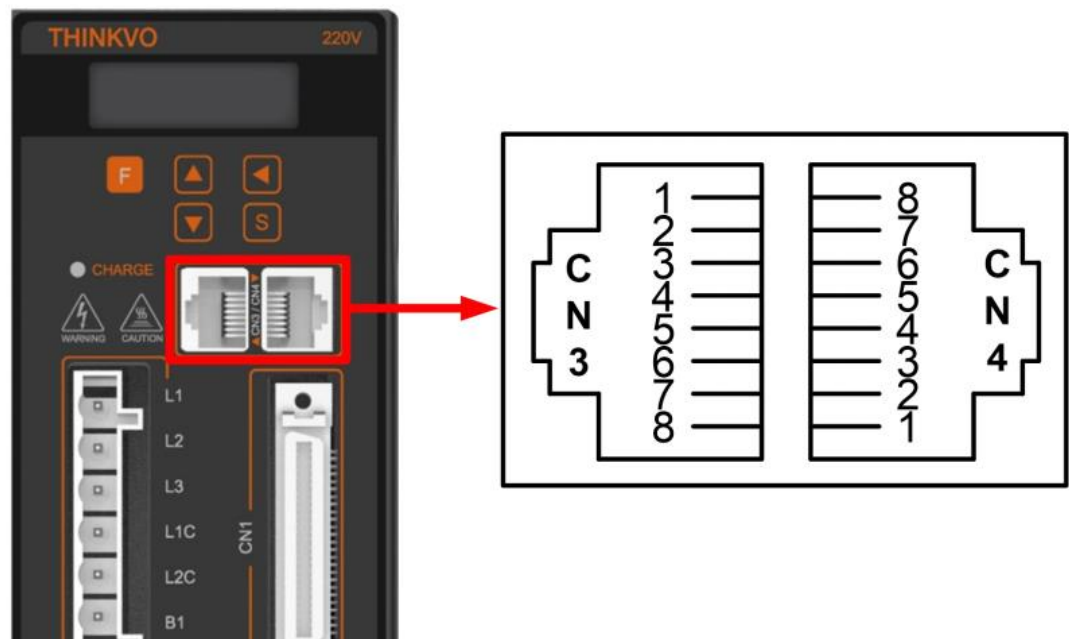
http://www.hncclectric.com/en_download.aspx?cid=&category_id=0&page=2

there is a document too

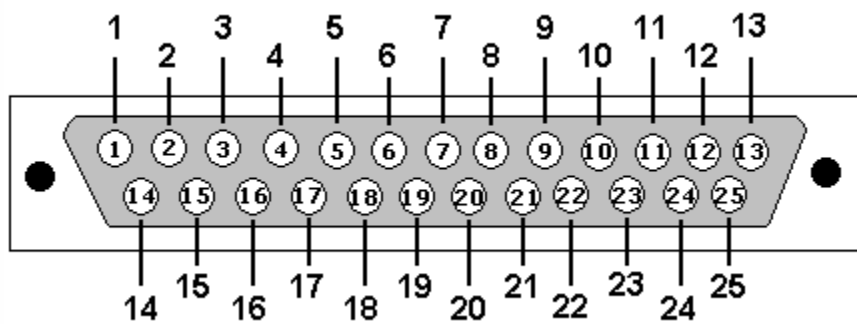
Servo Drive	HSD7-E Servo Drive User Manual V0.3_202104	
Servo Drive	HSD7 Commisioning Software-iWatch for 64bit OS	
Servo Drive	HSD7 Commisioning Software-iWatch for 32bit OS	

2. Wiring

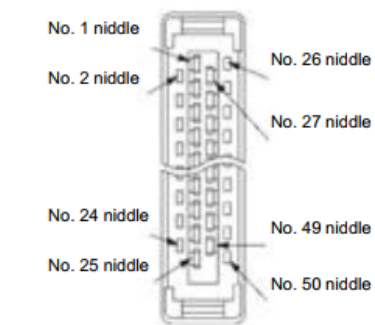
LAN Connector



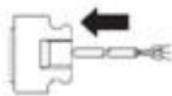
DB25 connector



CN1 Connector



The appearance when the connector housing is not installed as seen from the arrow direction is as follows.



2	PULS-	1	PULS+	27	-	26	-
4	SIGN-	3	SIGN+	29	-	28	-
6	VREF-	5	VREF+	31	TREF-	30	TREF+
8	ALM-	7	ALM+	33	OUT3-	32	OUT3+
10	OUT1-	9	OUT1+	35	OUT4-	34	OUT4+
12	OUT2-	11	OUT2+	37	OUT5-	36	OUT5+
14	IN0	13	DICOM	39	IN4	38	-
16	IN2	15	IN1	41	IN6	40	IN5
18	-	17	IN3	43	-	42	IN7
20	PAO-	19	PAO+	45	-	44	-
22	PBO-	21	PBO+	47	-	46	-
24	PCO-	23	PCO+	49	-	48	-
		25	GND			50	-

2.1. Connect CAN

Use LAN cable (20NM use CN3, 30 NM use CN4, can test which port can use)

CN3 or CN4	Description	DB25
1	CAN H	18
2	CAN L	6
3	GND	14

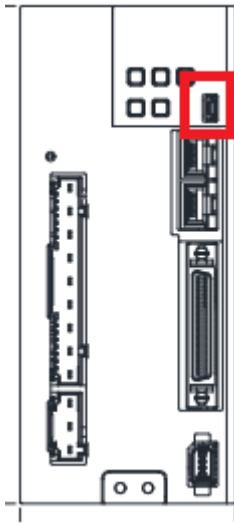
2.2. Connect CN1

Use at least 7 wires cable

CN1	Description	DB25
13	24V	1
14	Servo On	2
15	Force stop (E-Stop)	15
16	P-OT	8
17	N-OT	8
23	Z+	13
24	Z-	25

3. Configuration

- Use mini usb to USB connect servo driver to PC



- Open iwatch -> choose serial port (not port 1) -> search -> choose device -> connect

Connect

Modbus Setting

COM: COM19 Baud: 115200 Servo: i7DS-***30

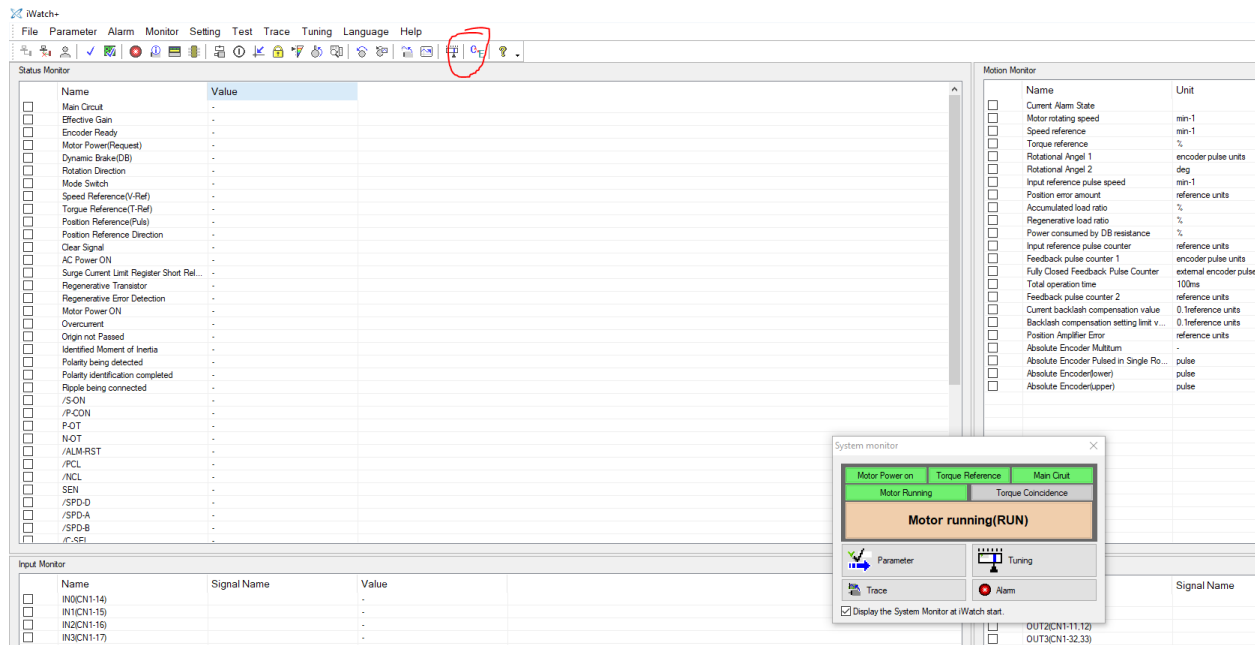
Slave: 1 ~ 2

Slave	ServoDrive	Servomotor	Axis name
1	HSD7-ES-10A01	2.250KW 15.0Nm 24B	

< >

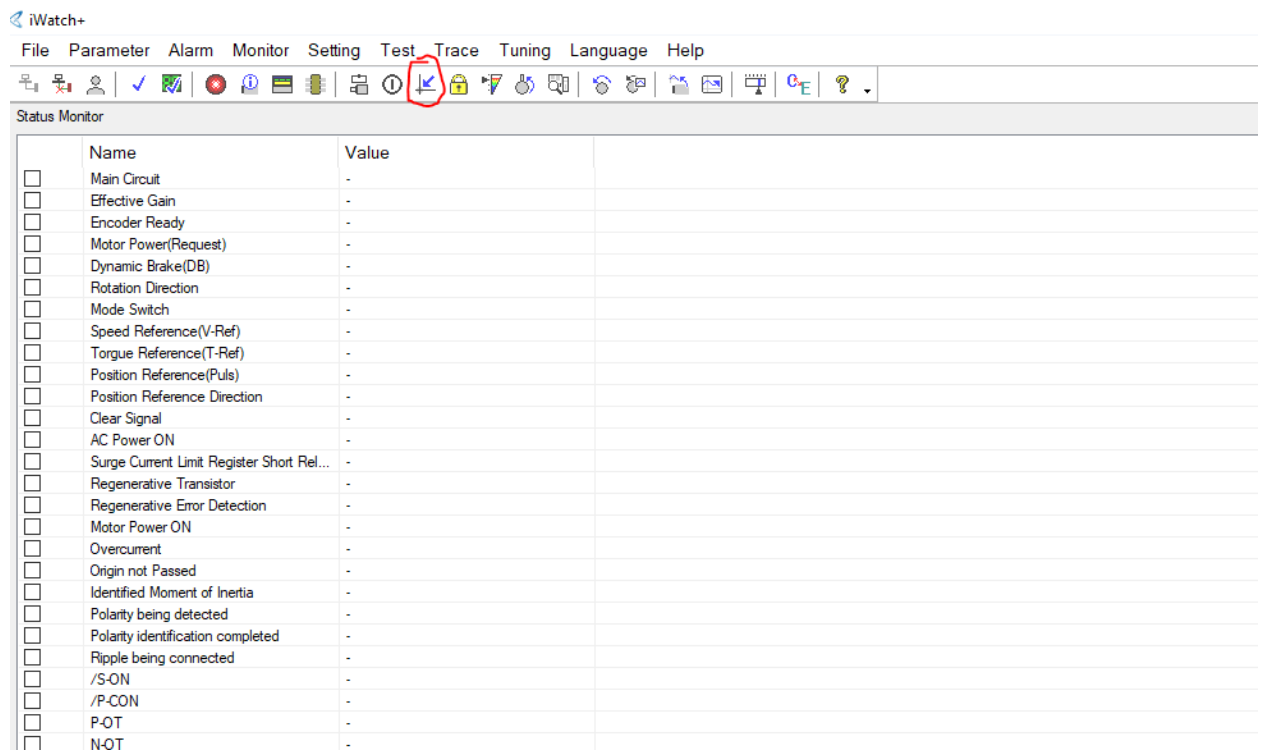
Search Connect Offline

- Click C/E to choose English



3.1. Reset encoder

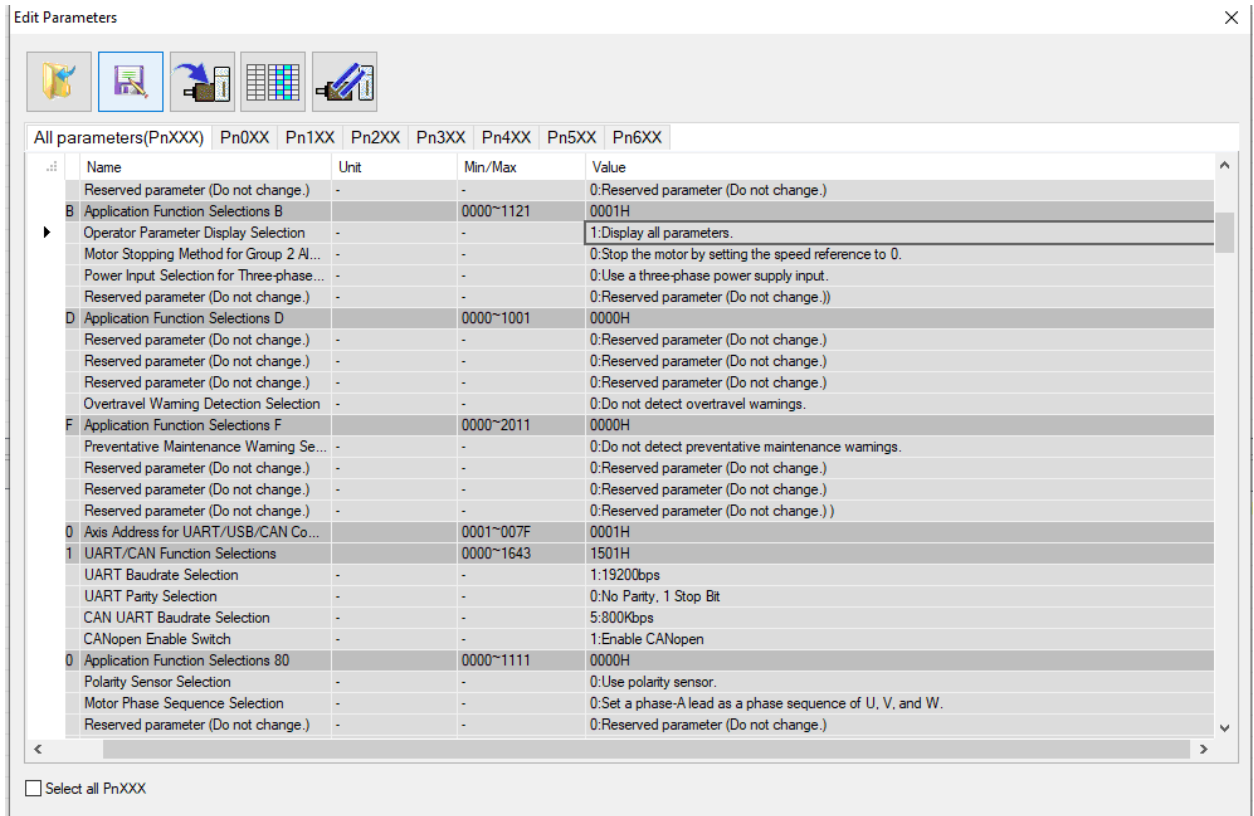
If driver has alarm A.810 reset encoder.



➔ Click “execucute” ➔ power off driver ➔ power on again.

3.2. Display all parameter

PN00B-> set “operator parameter display selection” too “display all parameters”



3.3. Set max speed during torque control

PN407 (here I set 150 rpm, you can choose from 120-200, depend on you :D)

Edit Parameters

Icons: [Folder], [File], [Printer], [Table], [Pencil]

Parameter Groups: All parameters(PnXXX) | Pn0XX | Pn1XX | Pn2XX | Pn3XX | Pn4XX | Pn5XX | Pn6XX

No.	Name	Unit	Min/Max	Value
<input type="checkbox"/> Pn403	Reverse Torque Limit	1%*2	0~800	800
<input type="checkbox"/> Pn404	Forward External Torque Limit	1%*2	0~800	100
<input type="checkbox"/> Pn405	Reverse External Torque Limit	1%*2	0~800	100
<input type="checkbox"/> Pn406	Emergency Stop Torque	1%*2	0~800	800
<input checked="" type="checkbox"/> Pn407	Speed Limit during Torque Control	1 min-1	0~10000	150
<input type="checkbox"/> Pn408	Torque-Related Function Selections		0000~1111	0000H
Hex0	Notch Filter Selection 1	-	-	0:Disable first stage notch filter.
Hex1	Speed Limit Selection	-	-	0:Use the smaller of the maximum motor speed and the setting of Pn407/Pn480 as the speed lim
Hex2	Notch Filter Selection 2	-	-	0:Disable second stage notch filter.
Hex3	Friction Compensation Function Selecti...	-	-	0:Disable friction compensation.
<input type="checkbox"/> Pn409	First Stage Notch Filter Frequency	1 Hz	50~5000	5000
<input type="checkbox"/> Pn40A	First Stage Notch Filter Q Value	0.01	50~1000	70
<input type="checkbox"/> Pn40B	First Stage Notch Filter Depth	0.001	0~1000	0
<input type="checkbox"/> Pn40C	Second Stage Notch Filter Frequency	1 Hz	50~5000	5000
<input type="checkbox"/> Pn40D	Second Stage Notch Filter Q Value	0.01	50~1000	70
<input type="checkbox"/> Pn40E	Second Stage Notch Filter Depth	0.001	0~1000	0
<input type="checkbox"/> Pn40F	Second Stage Second Torque Refere...	1 Hz	100~5000	5000
<input type="checkbox"/> Pn410	Second Stage Second Torque Refere...	0.01	50~100	50
<input type="checkbox"/> Pn412	First Stage Second Torque Reference ...	0.01 ms	0~65535	100
<input type="checkbox"/> Pn415	T-REF Filter Time Constant	0.01 ms	0~65535	0
<input type="checkbox"/> Pn416	Torque-Related Function Selections 2		0000~1111	0000H
Hex0	Notch Filter Selection 3	-	-	0:Disable third stage notch filter.
Hex1	Notch Filter Selection 4	-	-	0:Disable fourth stage notch filter.
Hex2	Notch Filter Selection 5	-	-	0:Disable fifth stage notch filter.
Hex3	Reserved parameter (Do not change.)	-	-	0:Reserved parameter (Do not change.)
<input type="checkbox"/> Pn417	Third Stage Notch Filter Frequency	1 Hz	50~5000	5000

☐ Select all Pn4XX

3.4. set encoder to maximum resolution PN20E and PN210

Edit Parameters

Icons: [Folder], [Pencil], [Hand], [Table], [Pencil]

Parameter Groups: All parameters(PnXXX) Pn0XX Pn1XX Pn2XX Pn3XX Pn4XX Pn5XX Pn6XX

No.	Name	Unit	Min/Max	Value
<input type="checkbox"/> Pn200	Position Control Reference Form Selec...		0000~2236	0000H
Hex0	Reference Pulse Form	-	-	0: Sign and pulse train, positive logic.
Hex1	Clear Signal Form	-	-	0: Clear position deviation when the signal is at high level.
Hex2	Clear Operation	-	-	0: Clear position deviation at a base block (at servo OFF or when alarm occurs).
Hex3	Filter Selection	-	-	0: Use the reference input filter for a line-driver signal. (1 Mpps max.)
<input type="checkbox"/> Pn207	Position Control Function Selections		0000~2210	0000H
Hex0	Reserved parameter (Do not change.)	-	-	0: Reserved parameter (Do not change.)
Hex1	Position Control Option	-	-	0: Do not use V-REF.
Hex2	Reserved parameter (Do not change.)	-	-	0: Reserved parameter (Do not change.)
Hex3	/COIN (Positioning Completion Output) ...	-	-	0: Output when the absolute value of the position deviation is the same or less than the setting of Pn207.
<input type="checkbox"/> Pn204	Number of External Encoder Scale Pits...	1 scale/pitch/rev...	4 ~ 1648676	32768
<input type="checkbox"/> Pn20E	Electronic Gear Ratio(Numerator)	1	0~1073741824	1
<input type="checkbox"/> Pn210	Electronic Gear Ratio(Denominator)	1	1~1073741824	1
<input type="checkbox"/> Pn212	Number of Encoder Output Pulses	1 P/Rev	16~1073741824	2500
<input type="checkbox"/> Pn216	Position Reference Acceleration/Decel...	0.1ms	0 ~ 65535	0
<input type="checkbox"/> Pn217	Average Position Reference Movemen...	0.1ms	0 ~ 10000	0
<input type="checkbox"/> Pn218	Reference Pulse Input Multiplier	1 ?	1 ~ 100	1
<input type="checkbox"/> Pn22A	Fully-closed Control Selections		0000~1003	0000H
Hex0	Reserved parameter (Do not change.)	-	-	0: Reserved parameter (Do not change.)
Hex1	Reserved parameter (Do not change.)	-	-	0: Reserved parameter (Do not change.)
Hex2	Reserved parameter (Do not change.)	-	-	0: Reserved parameter (Do not change.)
Hex3	Fully-closed Control Speed Feedback ...	-	-	0: Use motor encoder speed.
<input type="checkbox"/> Pn281	Encoder Output Resolution	1 edge/pitch	1~4096	20
<input type="checkbox"/> Pn282	Linear Encoder Scale Pitch	0.01 寸	0~6553600	0

Select all Pn2XX

Config encoder as single turn

Edit Parameters

Icons: [Folder], [Pencil], [Hand], [Table], [Pencil]

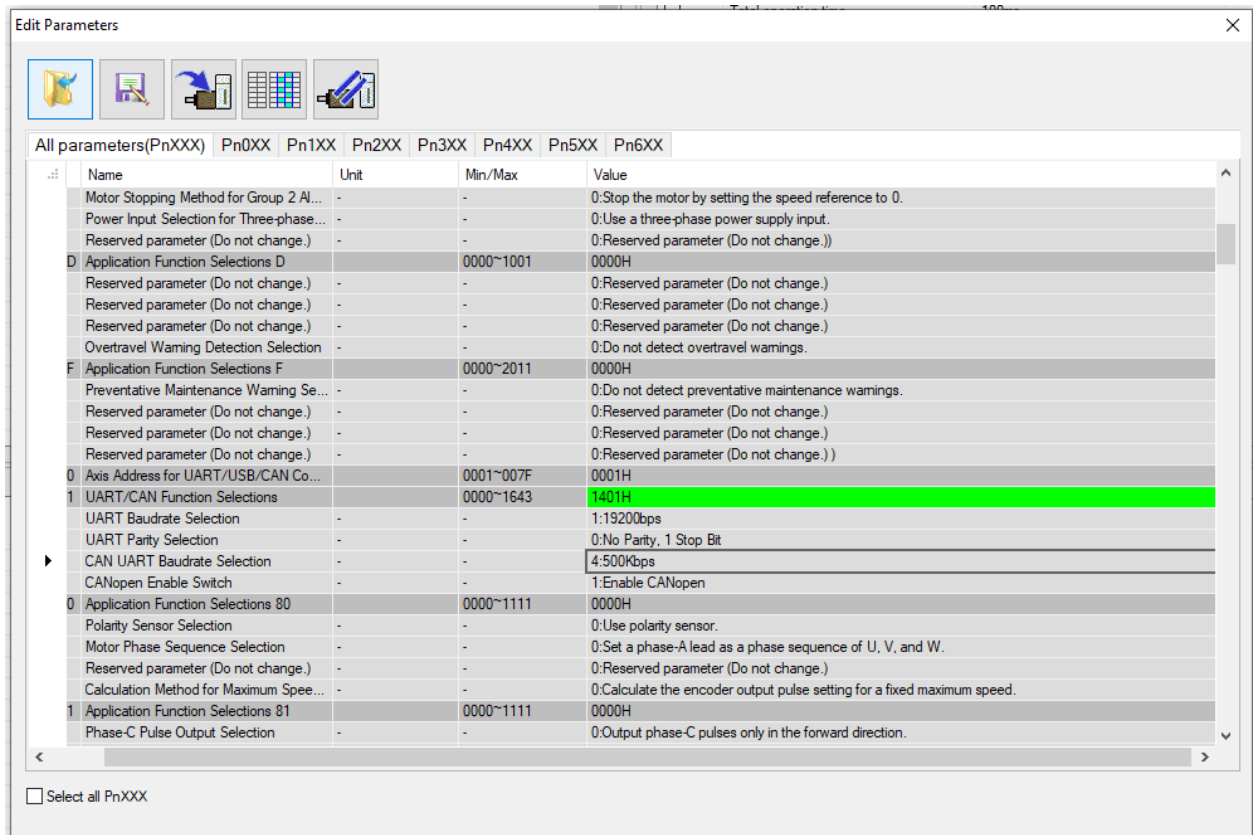
Parameter Groups: All parameters(PnXXX) Pn0XX Pn1XX Pn2XX Pn3XX Pn4XX Pn5XX Pn6XX

No.	Name	Unit	Min/Max	Value
Hex0	Motor Stopping Method for Servo OFF ...	-	-	0: Stop the motor by applying the dynamic brake.
Hex1	Overtravel Stopping Method	-	-	0: Apply the dynamic brake or coast the motor to a stop (use the stopping method set in Pn001.1).
Hex2	Main Circuit Power Supply AC/DC Inpu...	-	-	0: Input AC power as the main circuit power supply using the L1, L2 and L3 terminals (do not use).
Hex3	Reserved parameter (Do not change.)	-	-	0: Reserved parameter (Do not change.)
<input checked="" type="checkbox"/> Pn002	Application Function Selections 2		0000~4213	0200H
Hex0	Speed/Position Control Option (T-REF ...	-	-	0: Do not use T-REF.
Hex1	Torque Control Option (V-REF Input All...	-	-	0: Do not use V-REF.
Hex2	Encoder Usage	-	-	2: Use the encoder as a single-turn absolute encoder.
Hex3	External Encoder Usage	-	-	0: Do not use an external encoder.
<input type="checkbox"/> Pn008	Application Function Selections 8		0000~7121	0000H
Hex0	Low Battery Voltage Alarm/Warning S...	-	-	0: Output alarm (A.830) for low battery voltage.
Hex1	Function Selection for Undervoltage	-	-	0: Do not detect undervoltage.
Hex2	Warning Detection Selection	-	-	0: Detect warnings.
Hex3	Reserved parameter (Do not change.)	-	-	0: Reserved parameter (Do not change.)
<input type="checkbox"/> Pn00A	Application Function Selections A		0000~0044	0001H
Hex0	Motor Stopping Method for Group 2 Al...	-	-	1: Decelerate the motor to a stop using the torque set in Pn406 as the maximum torque. Use the ...
Hex1	Stopping Method for Forced Stops	-	-	0: Apply the dynamic brake or coast the motor to a stop (use the stopping method set in Pn001.0).
Hex2	Reserved parameter (Do not change.)	-	-	0: Reserved parameter (Do not change.)
Hex3	Reserved parameter (Do not change.)	-	-	0: Reserved parameter (Do not change.)
<input type="checkbox"/> Pn00B	Application Function Selections B		0000~1121	0001H
Hex0	Operator Parameter Display Selection	-	-	1: Display all parameters.
Hex1	Motor Stopping Method for Group 2 Al...	-	-	0: Stop the motor by setting the speed reference to 0.
Hex2	Power Input Selection for Three-phase...	-	-	0: Use a three-phase power supply input.
Hex3	Reserved parameter (Do not change.)	-	-	0: Reserved parameter (Do not change.)
<input type="checkbox"/> Pn00D	Application Function Selections D		0000~1001	0000H
Hex0	Reserved parameter (Do not change.)	-	-	0: Reserved parameter (Do not change.)

Select all PnXXX

3.5. Enable CanOpen

PN011: Hex 2 choose 800kbps, hex3 enable can open



3.6. Config filter

Enable filter and cutoff freq to 200hz

Edit Parameters

☐ ☐ ☐ ☐ ☐

All parameters(PnXXX) Pn0XX Pn1XX Pn2XX Pn3XX Pn4XX Pn5XX Pn6XX

No.	Name	Unit	Min/Max	Value
<input type="checkbox"/> Pn400	Torque Reference Input Gain	0.1 V/rated torque	10 ~ 100	30
<input type="checkbox"/> Pn401	First Stage First Torque Reference Filt...	0.01 ms	0~65535	100
<input type="checkbox"/> Pn402	Forward Torque Limit	1%*2	0~800	800
<input type="checkbox"/> Pn403	Reverse Torque Limit	1%*2	0~800	800
<input type="checkbox"/> Pn404	Forward External Torque Limit	1%*2	0~800	100
<input type="checkbox"/> Pn405	Reverse External Torque Limit	1%*2	0~800	100
<input type="checkbox"/> Pn406	Emergency Stop Torque	1%*2	0~800	800
<input type="checkbox"/> Pn407	Speed Limit during Torque Control	1 min-1	0~10000	150
<input checked="" type="checkbox"/> Pn408	Torque-Related Function Selections		0000~1111	0101H
Hex0	Notch Filter Selection 1	-	-	1:Enable first stage notch filter.
Hex1	Speed Limit Selection	-	-	0:Use the smaller of the maximum motor speed and the setting of Pn407/Pn480 as the speed lim
Hex2	Notch Filter Selection 2	-	-	1:Enable second stage notch filter.
Hex3	Friction Compensation Function Selecti...	-	-	0:Disable friction compensation.
<input checked="" type="checkbox"/> Pn409	First Stage Notch Filter Frequency	1 Hz	50~5000	200
<input type="checkbox"/> Pn40A	First Stage Notch Filter Q value	0.01	50~1000	70
<input type="checkbox"/> Pn40B	First Stage Notch Filter Depth	0.001	0~1000	0
<input checked="" type="checkbox"/> Pn40C	Second Stage Notch Filter Frequency	1 Hz	50~5000	200
<input type="checkbox"/> Pn40D	Second Stage Notch Filter Q value	0.01	50~1000	70
<input type="checkbox"/> Pn40E	Second Stage Notch Filter Depth	0.001	0~1000	0
<input type="checkbox"/> Pn40F	Second Stage Second Torque Refere...	1 Hz	100~5000	5000
<input type="checkbox"/> Pn410	Second Stage Second Torque Refere...	0.01	50~100	50
<input type="checkbox"/> Pn412	First Stage Second Torque Reference ...	0.01 ms	0~65535	100
<input type="checkbox"/> Pn415	T-REF Filter Time Constant	0.01 ms	0~65535	0
<input type="checkbox"/> Pn416	Torque-Related Function Selections 2		0000~1111	0000H
Hex0	Notch Filter Selection 3	-	-	0:Disable third stage notch filter.
Hex1	Notch Filter Selection 4	-	-	0:Disable fourth stage notch filter.

☐ Select all Pn4XX

3.7. enable Force stop

Hex2	/PSELA (Reference Pulse Input Multiplication Switching Output) Signal...	-	-	6:Disabled (the above signal output is not used).
Hex3	ALM (Alarm Output) Signal Allocation	-	-	0:Output the signal from the CN1-OUT0(778) output terminal.
<input type="checkbox"/> Pn512	Output Signal Inverse Settings 1		0000~1111	0000H
Hex0	Output Signal Inversion for CN1-OUT9(879) Terminal	-	-	0:The signal is not inverted.
Hex1	Output Signal Inversion for CN1-OUT9(9710) Terminal	-	-	0:The signal is not inverted.
Hex2	Output Signal Inversion for CN1-OUT2(11712) Terminal	-	-	0:The signal is not inverted.
Hex3	Output Signal Inversion for CN1-OUT3(32733) Terminal	-	-	0:The signal is not inverted.
<input type="checkbox"/> Pn513	Output Signal Inverse Settings 2		0000~0011	0000H
Hex0	Output Signal Inversion for CN1-OUT4(34735) Terminal	-	-	0:The signal is not inverted.
Hex1	Output Signal Inversion for CN1-OUT5(36737) Terminal	-	-	0:The signal is not inverted.
Hex2	Reserved parameter (Do not change.)	-	-	0:Reserved parameter (Do not change.)
Hex3	Reserved parameter (Do not change.)	-	-	0:Reserved parameter (Do not change.)
<input type="checkbox"/> Pn515	Input Signal Selections 6		0000~9999	0889H
Hex0	SEN (Absolute Data Request Input) Signal Allocation	-	-	9:The signal is always active.
Hex1	/PSEL (Reference Pulse Input Multiplication Switching Input) Signal All...	-	-	8:The signal is always inactive.
Hex2	Reserved parameter (Do not change.)	-	-	8:Reserved parameter (Do not change.)
Hex3	Reserved parameter (Do not change.)	-	-	8:Reserved parameter (Do not change.)
<input checked="" type="checkbox"/> Pn516	Input Signal Selections 7		0000~9999	1081H
Hex0	FSTP (Forced Stop Input) Signal Allocation	-	-	1:Active when CN1-IN1 input signal is ON (closed).
Hex1	Reserved parameter (Do not change.)	-	-	8:Reserved parameter (Do not change.)
Hex2	Reserved parameter (Do not change.)	-	-	8:Reserved parameter (Do not change.)
Hex3	Reserved parameter (Do not change.)	-	-	8:Reserved parameter (Do not change.)
<input type="checkbox"/> Pn517	Input Signal Inverse Settings 1		0000~1111	0000H
Hex0	Output Signal Inversion for CN1-IN0 Terminal	-	-	0:The signal is not inverted.
Hex1	Output Signal Inversion for CN1-IN1 Terminal	-	-	0:The signal is not inverted.
Hex2	Output Signal Inversion for CN1-IN2 Terminal	-	-	0:The signal is not inverted.

3.8. disable prohibit for testing

No.	Name	Unit	Min/Max	Value
<input type="checkbox"/> Pn501	Zero Clamping Level	1 min-1	0~10000	10
<input type="checkbox"/> Pn502	Rotation Detection Level	1 min-1	1~10000	20
<input type="checkbox"/> Pn503	Speed Coincidence Detection Signal Output Width	1 min-1	0~100	10
<input type="checkbox"/> Pn506	Brake Reference-Servo OFF Delay Time	10 ms	0~50	0
<input type="checkbox"/> Pn507	Brake Reference Output Speed Level	1 min-1	0~10000	100
<input type="checkbox"/> Pn508	Servo OFF-Brake Command Waiting Time	10 ms	10~100	50
<input type="checkbox"/> Pn509	Momentary Power Interruption Hold Time	1 ms	20~50000	20
<input type="checkbox"/> Pn50A	Input Signal Selections 1		0000~9991	8801H
Hex0	Input Signal Allocation Mode	-	-	1:Change the sequence input signal allocations.
Hex1	/S-ON (Servo ON) Signal Allocation	-	-	0:Active when CN1-IN0 input signal is ON (closed).
Hex2	/P-CON (Proportional Control) Signal Allocation	-	-	8:The signal is always inactive.
Hex3	P-OT (Forward Drive Prohibit) Signal Allocation	-	-	8:Set the signal to always enable forward drive.
<input type="checkbox"/> Pn50B	Input Signal Selections 2		0000~9999	8888H
Hex0	N-OT (Reverse Drive Prohibit) Signal Allocation	-	-	8:Set the signal to always enable reverse drive.
Hex1	/ALM-RST (Alarm Reset) Signal Allocation	-	-	8:The signal is always inactive.
Hex2	/P-CL (Forward External Torque Limit Input) Signal Allocation	-	-	8:The signal is always inactive.
Hex3	/N-CL (Reverse External Torque Limit Input) Signal Allocation	-	-	8:The signal is always inactive.
<input type="checkbox"/> Pn50C	Input Signal Selections 3		0000~9999	8888H
Hex0	/SPD-D (Motor Direction) Signal Allocation	-	-	8:The signal is always inactive.
Hex1	/SPD-A (Internal Set Speed Selection Input) Signal Allocation	-	-	8:The signal is always inactive.
Hex2	/SPD-B (Internal Set Speed Selection Input) Signal Allocation	-	-	8:The signal is always inactive.
Hex3	/C-SEL (Control Selection Input) Signal Allocation	-	-	8:The signal is always inactive.
<input type="checkbox"/> Pn50D	Input Signal Selections 4		0000~9999	8888H
Hex0	/ZCLAMP (Zero Clamping Input) Signal Allocation	-	-	8:The signal is always inactive.
Hex1	/INHIBIT (Reference Pulse Inhibit Input) Signal Allocation	-	-	8:The signal is always inactive.
Hex2	/G-SEL (Gain Selection Input) Signal Allocation	-	-	8:The signal is always inactive.

After testing work change like this

No.	Name	Unit	Min/Max	Value
<input type="checkbox"/> Pn501	Zero Clamping Level	1 min-1	0~10000	10
<input type="checkbox"/> Pn502	Rotation Detection Level	1 min-1	1~10000	20
<input type="checkbox"/> Pn503	Speed Coincidence Detection Signal Output Width	1 min-1	0~100	10
<input type="checkbox"/> Pn506	Brake Reference-Servo OFF Delay Time	10 ms	0~50	0
<input type="checkbox"/> Pn507	Brake Reference Output Speed Level	1 min-1	0~10000	100
<input type="checkbox"/> Pn508	Servo OFF-Brake Command Waiting Time	10 ms	10~100	50
<input type="checkbox"/> Pn509	Momentary Power Interruption Hold Time	1 ms	20~50000	20
<input checked="" type="checkbox"/> Pn50A	Input Signal Selections 1		0000~9991	2801H
Hex0	Input Signal Allocation Mode	-	-	1:Change the sequence input signal allocations.
Hex1	/S-ON (Servo ON) Signal Allocation	-	-	0:Active when CN1-IN0 input signal is ON (closed).
Hex2	/P-CON (Proportional Control) Signal Allocation	-	-	8:The signal is always inactive.
Hex3	P-OT (Forward Drive Prohibit) Signal Allocation	-	-	2:Enable forward drive when CN1-IN2 input signal is ON (closed)
<input checked="" type="checkbox"/> Pn50B	Input Signal Selections 2		0000~9999	8883H
Hex0	N-OT (Reverse Drive Prohibit) Signal Allocation	-	-	3:Enable reverse drive when CN1-IN3 input signal is ON (closed)
Hex1	/ALM-RST (Alarm Reset) Signal Allocation	-	-	8:The signal is always inactive.
Hex2	/P-CL (Forward External Torque Limit Input) Signal Allocation	-	-	8:The signal is always inactive.
Hex3	/N-CL (Reverse External Torque Limit Input) Signal Allocation	-	-	8:The signal is always inactive.
<input type="checkbox"/> Pn50C	Input Signal Selections 3		0000~9999	8888H
Hex0	/SPD-D (Motor Direction) Signal Allocation	-	-	8:The signal is always inactive.
Hex1	/SPD-A (Internal Set Speed Selection Input) Signal Allocation	-	-	8:The signal is always inactive.
Hex2	/SPD-B (Internal Set Speed Selection Input) Signal Allocation	-	-	8:The signal is always inactive.
Hex3	/C-SEL (Control Selection Input) Signal Allocation	-	-	8:The signal is always inactive.
<input type="checkbox"/> Pn50D	Input Signal Selections 4		0000~9999	8888H
Hex0	/ZCLAMP (Zero Clamping Input) Signal Allocation	-	-	8:The signal is always inactive.
Hex1	/INHIBIT (Reference Pulse Inhibit Input) Signal Allocation	-	-	8:The signal is always inactive.
Hex2	/G-SEL (Gain Selection Input) Signal Allocation	-	-	8:The signal is always inactive.

3.9. Save paramters to Servo Driver

Edit Parameters

All parameters(PnXXX)

Pn0XX

Pn1XX

Pn2XX

Pn3XX

Pn4XX

Pn5XX

Pn6XX

...	No.	Name	Unit	Min/Max	Value
<input type="checkbox"/>	Pn00D	Application Function Selections D		0000~1001	0000H
	Hex0	Reserved parameter (Do not change.)	-	-	0:Reserved parameter (Do not change.)
	Hex1	Reserved parameter (Do not change.)	-	-	0:Reserved parameter (Do not change.)
	Hex2	Reserved parameter (Do not change.)	-	-	0:Reserved parameter (Do not change.)
	Hex3	Overtravel Warning Detection Selection	-	-	0:Do not detect overtravel warnings.
<input type="checkbox"/>	Pn00F	Application Function Selections F		0000~2011	0000H

3.10. Restart servo