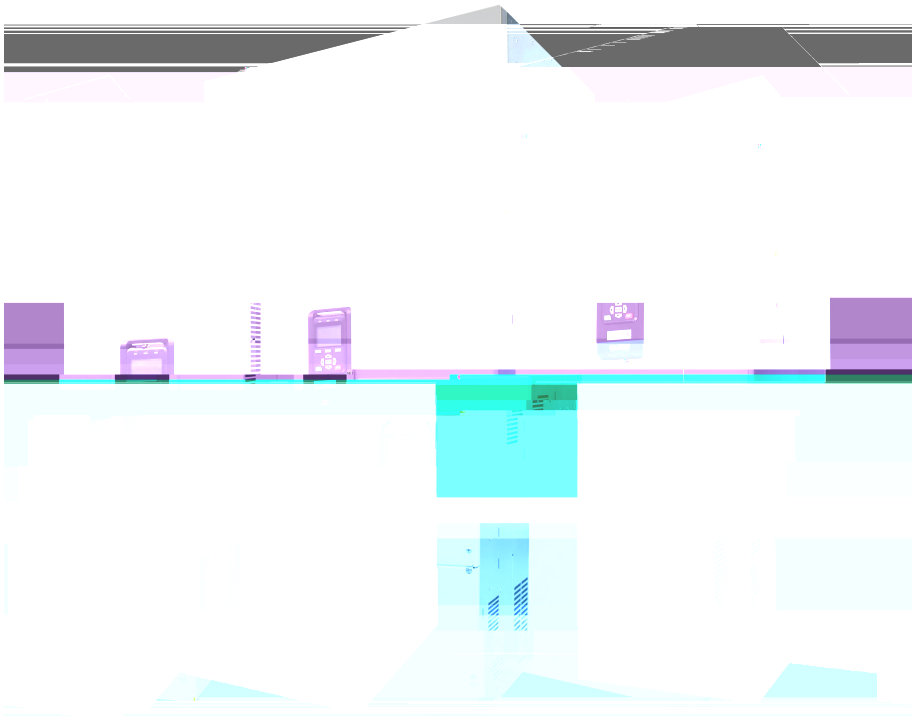
HF682N

V1.00

Wuhan Guide Technology Co.,Ltd.





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2.4 Ї ᷂ ᷂ ᷂

7.2 ǐ ⸗ ƀ 44
7.2.1 44
7.2.2 44
7.2.3 ǎ Δ 45
7.2.4 ǎ 45
7.2.5 ǎ ȣ 46
7.2.6 ȣ ╠ Ⱨ 47
7.2.7 Ǐ 48
7.2.8 Ǐ 48
7.2.9 ǎ Ḡ 49
8. ǐ ⸗ ǎ 50
8.1 ǐ P2 50
8.2 ~ P3 50
8.3 ǂ P4 52
8.4 ~ P5 54
8.5 ǂ P6 56
8.6 Ḡ ǎ P7 58
8.7 1 Ω Ả └ P8 61
8.8 2 Ω Ả └ P9 64
8.9 3 Ω Ả └ P10 67
8.10 4 Ω Ả └ P11 70
8.11 1 └ P12 73
8.12 2 └ P13 75
8.13 3 └ P14 77
8.14 4 └ P15 79
8.15 1 ǎ V/F P16 81
8.16 2 ǎ V/F P17 84
8.17 3 ǎ V/F P18 87
8.18 4 ǎ V/F P19 90
8.19 1 └ P20 93
8.20 2 └ P21 98
8.21 3 └ P22 103
8.22 4 └ P23 108
8.23 P33 113
9. ǐ 123
9.1 ɒ ɳ 123
9.2 ɳ 124
9.3 127
10. Ь Ḡ Ī 129
10.1 Ḡ Ī ɻ 129
10.2 130
10.3 130
10.4 ɒ 131
10.5 Ь Ḡ ǵ 131
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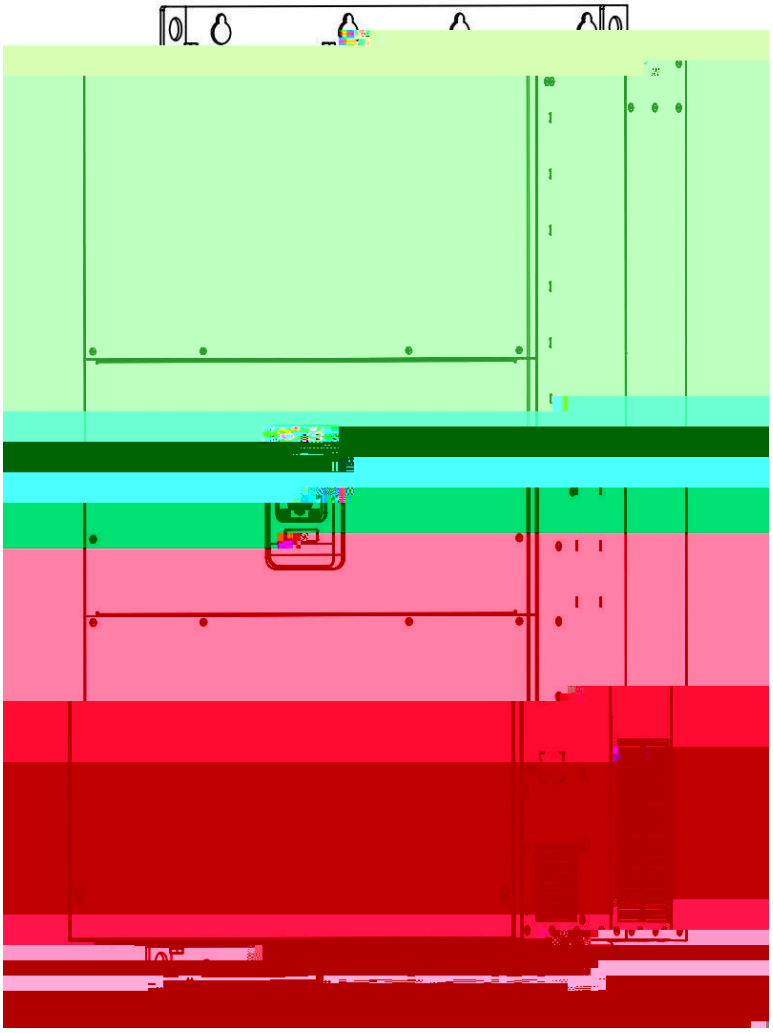
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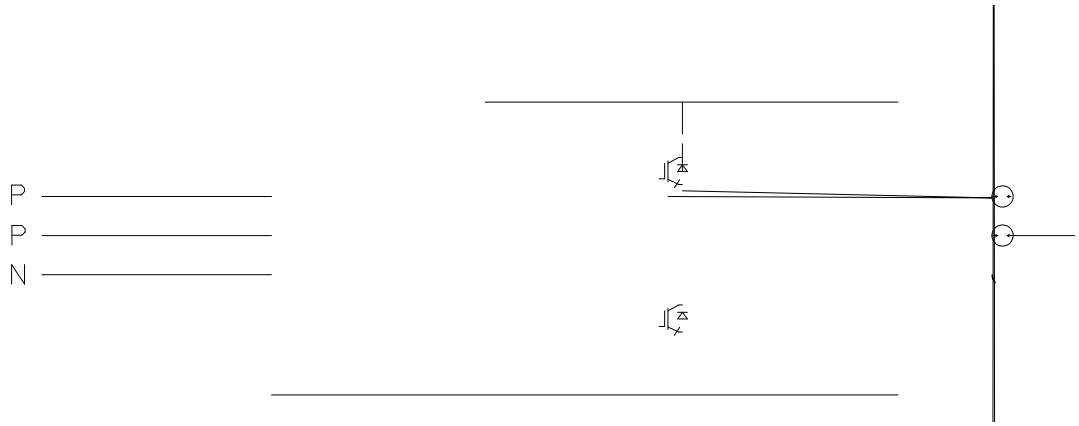
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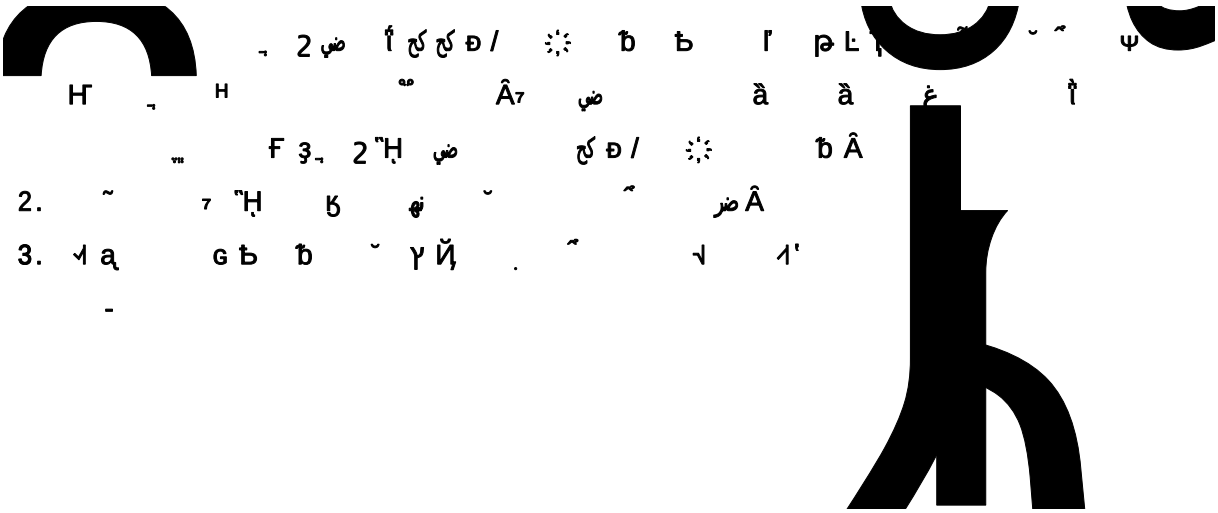
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PN ¼	GDHF-APNX1	GDHF-APNX1 ¼ ¸ ‰ Profinet ش ¸ ‰˘ ˆ Ь HF682N02M ↓ ¸ HF682N03M ↓ Ï ¸ ¸ ą
ђ	GDHF-AKZY1	GDHF-AKZY1 ђ ˘ Ь HF682N02M ↓ ¸ HF68 2N03M ↓ Ï ¸ ђ Â
2	GDHF-KL2	GDHF-KL2 2 ђ ч ђ Ь HF682N02M ↓ ¸ HF682N03M ↓ Ï ¸ ˘ ч 2 Â
4	GDHF-KL4	GDHF-KL4 4 ђ ч ђ Ь HF682N02M ↓ ¸ HF682N03M ↓ Ï ¸ ˘ ч 4 Â

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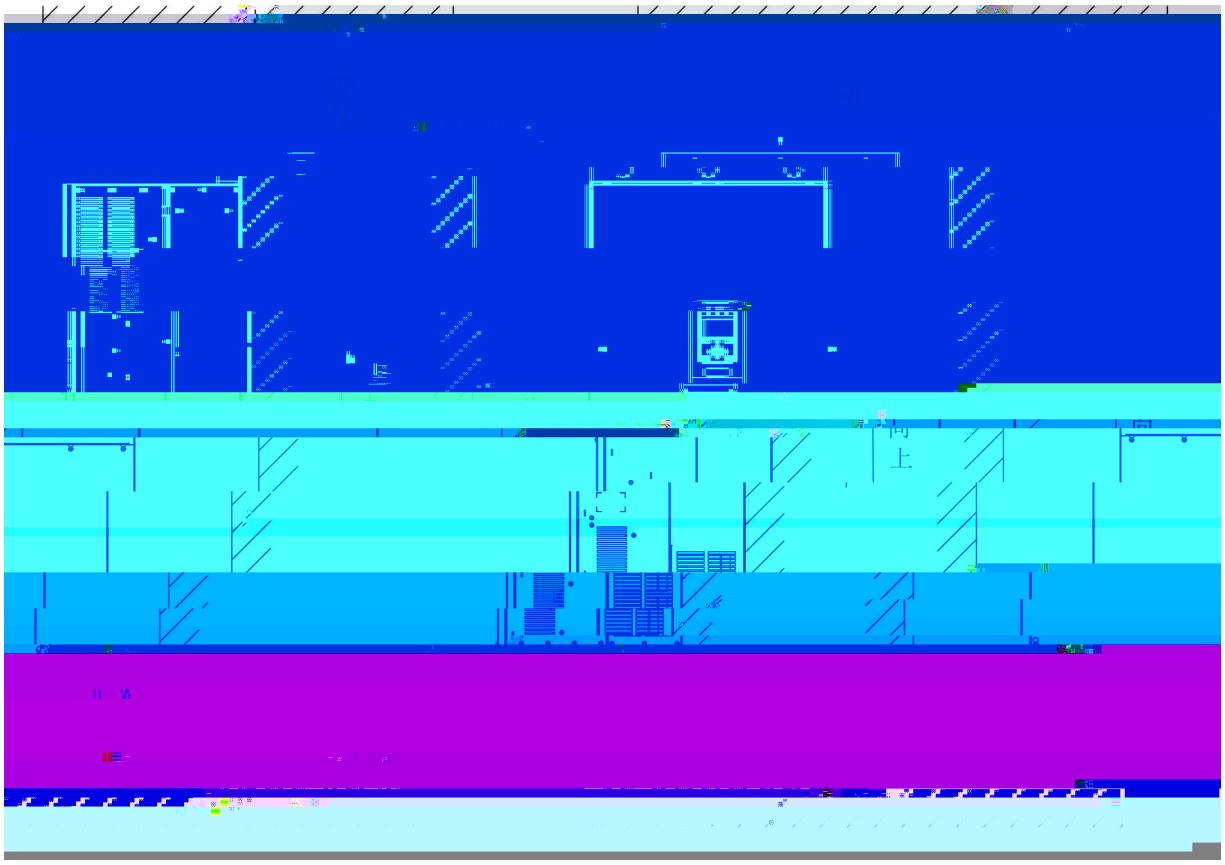
2.4.2

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2.4.4 ٧ غ

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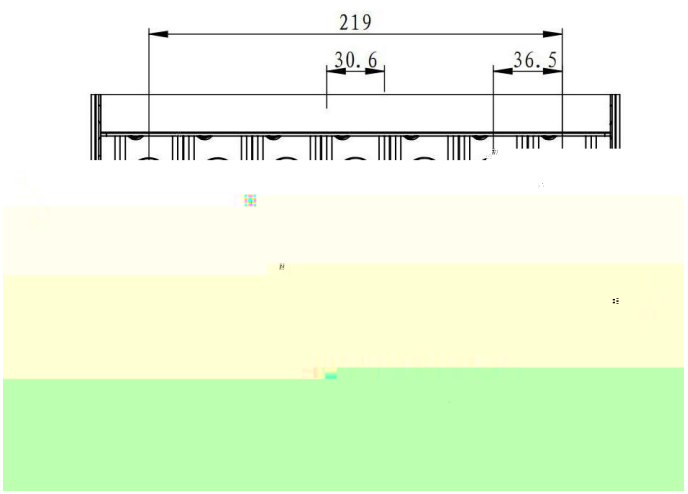
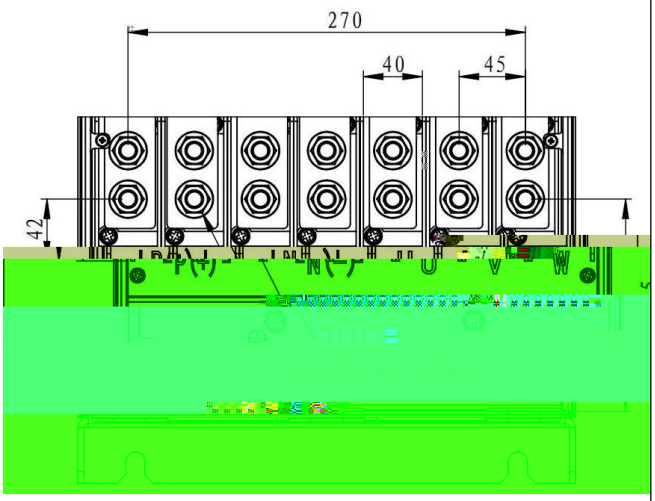
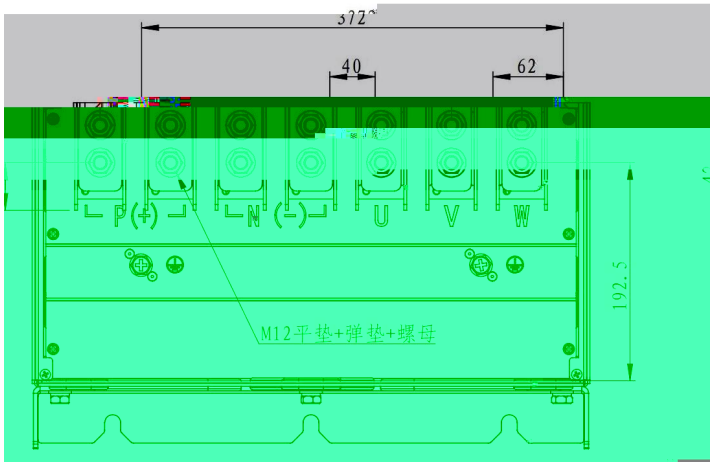
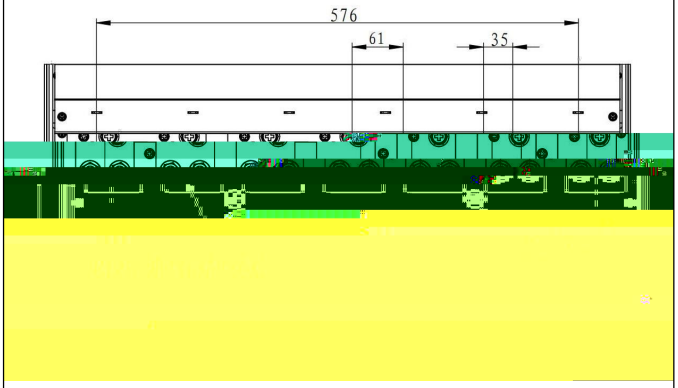
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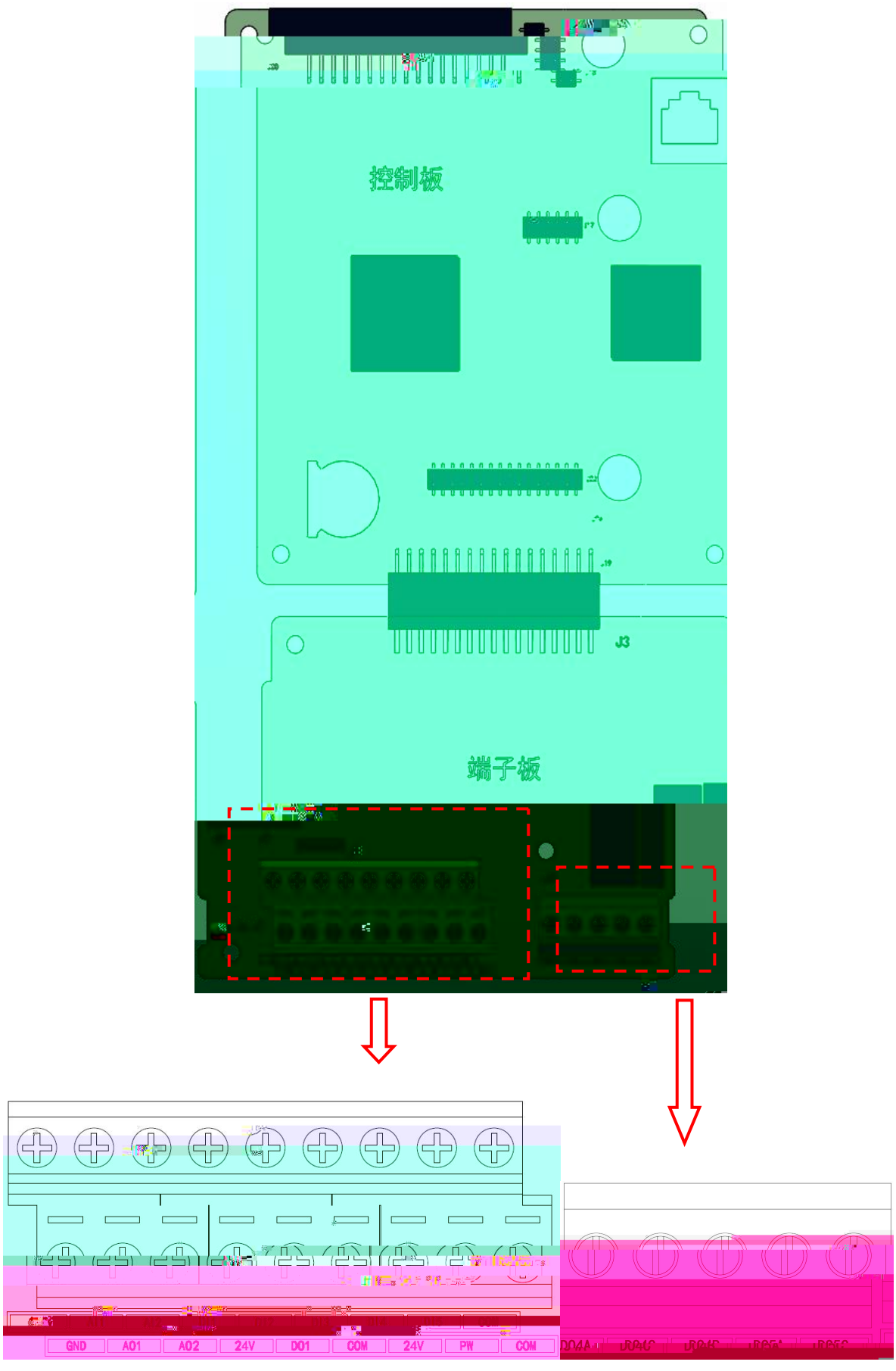
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90~110kW h غ№ ي	160kW h غ№ ي
	
220~250kW h غ№ ي	**355kW h غ№ ي**
	

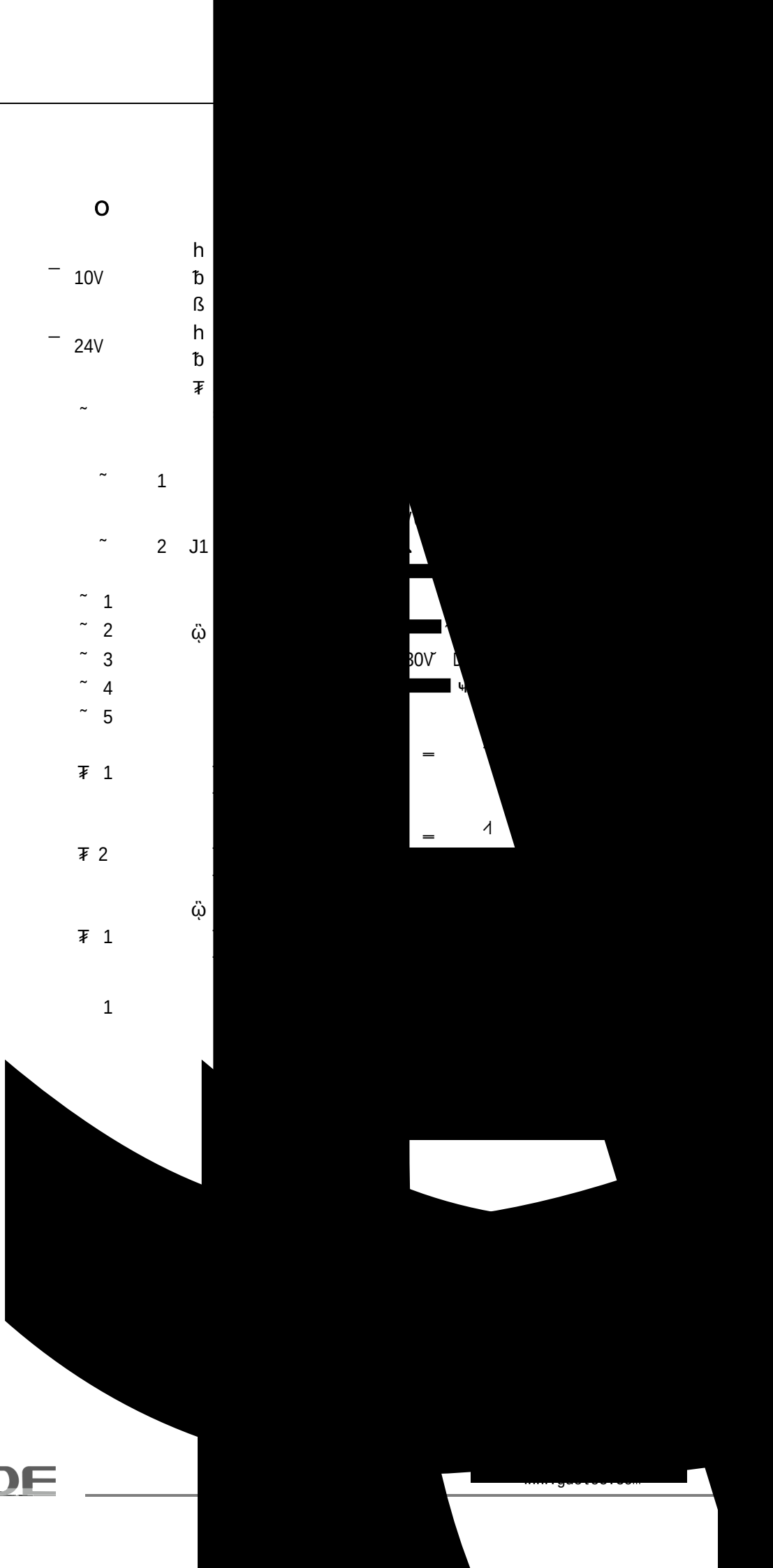

控制板
J3
端子板
GND
AO1
AO2
24V
DO1
COM
24V
PW
COM

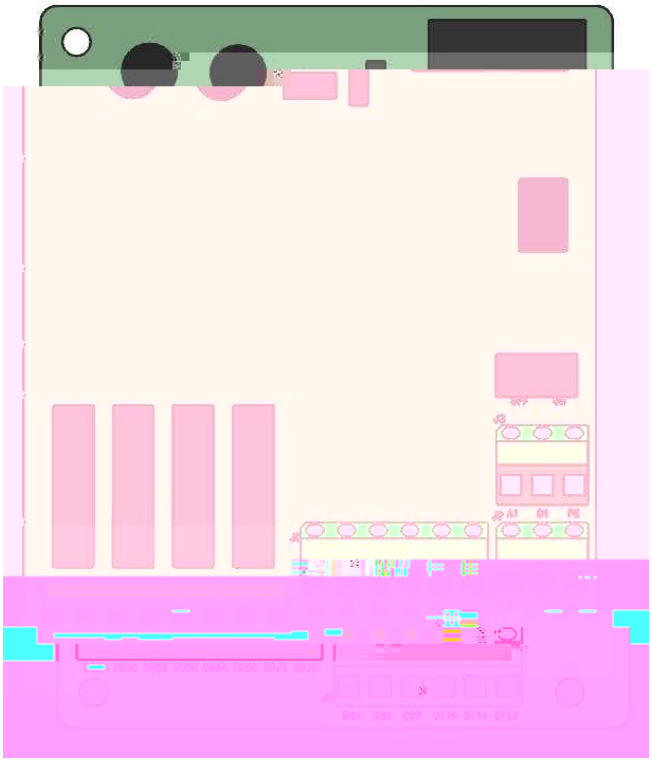
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+10V-GND	¯	10V		h ƀ ß
+24V-COM	¯	24V		h ƀ ₹
PW		~		
AI1-GND		~	1	
AI2-GND		~	2	J1
DI1- PW		~	1	
DI2- PW		~	2	ѽ
DI3- PW		~	3	
DI4- PW		~	4	
DI5- PW		~	5	
AO1-GND		₹	1	
AO2-GND		₹	2	
DO1-PW		₹	1	ѽ
DO4A-DO4C			1	

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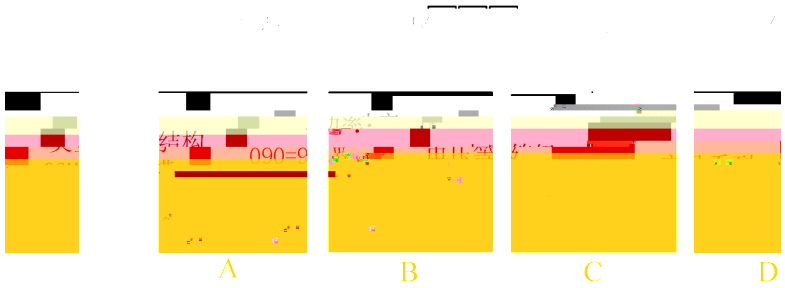


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	24V	24VDC	24VDC ˘ L 24V ˘ З˜ 24V Â
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	PW	˜ `E ˜	Ь 24V
˜	DI6-PW	˜ 6	1 à ѽ ˘ ١ ǐ ˜' 2 à ˜ ' 3.3K ß' ˜ ١ ز' 9~30V Â
	DI7-PW	˜ 7	
	DI8-PW	˜ 8	
	DI9-PW	˜ 9	
	DI10-PW	˜ 10	
	DI11-PW	˜ 11	
	DI12-PW	˜ 12	
ر ∓	DO2A-DO2C	ر ∓ 2	' ˗ Ƶ' AC 250V,3AC,COS =0.4 Â DC 30V,1A
	DO3A- DO3C	ر ∓ 3	
	DO6A- DO6C	ر ∓ 6	
	DO7A-DO7C	ر ∓ 7	

3.3 غمم Ḥ

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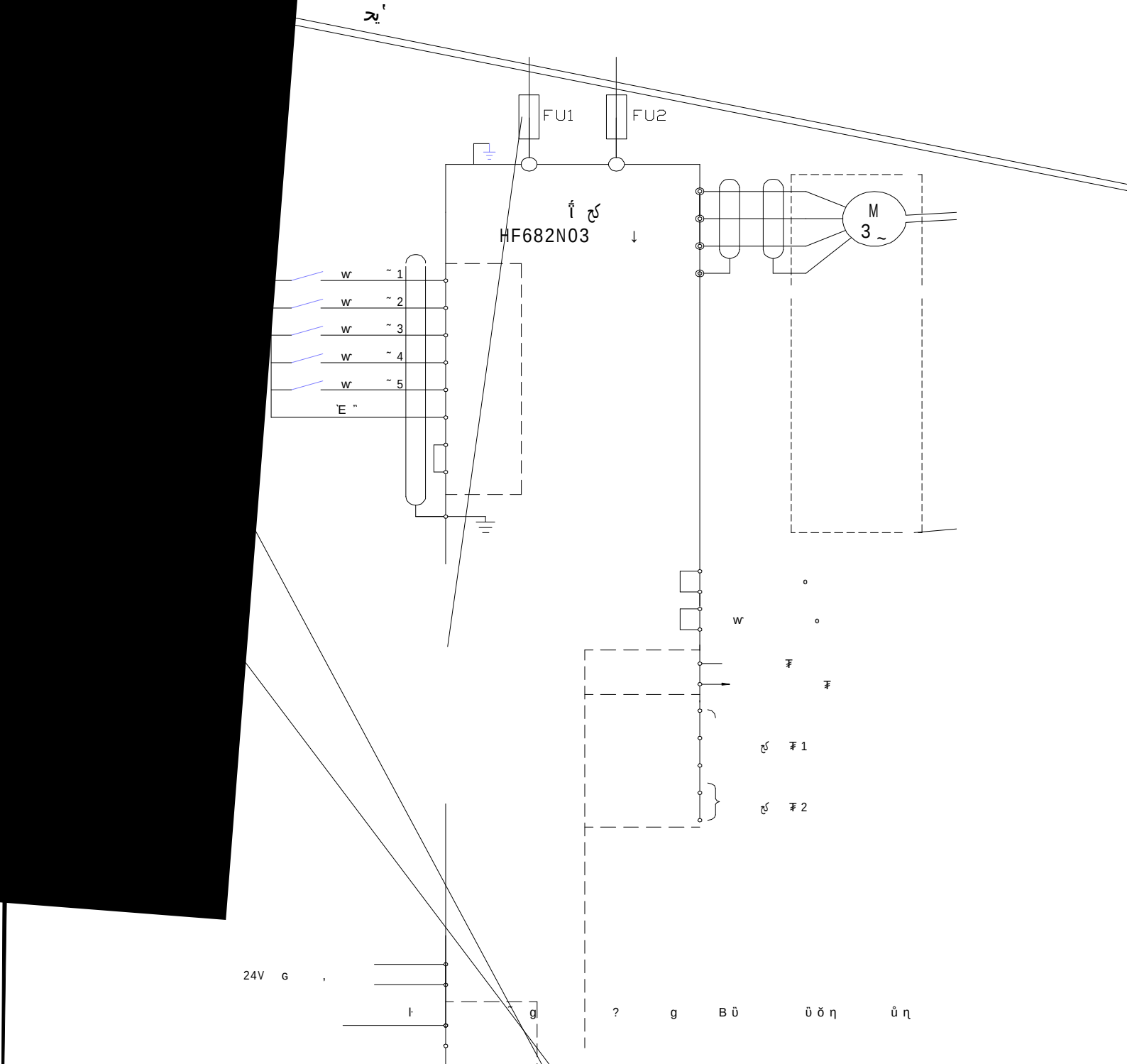
أ كر مم '

A	ج ↓
B	غمم 03M أ شجـ
C	w 090 90kW 355 355kW
D	١ 4 380V

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MB01	Modbus RTU ١	DP01	Profibus DP ١
PN01			

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FU2
HF682N03
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~ ~ 460V˙ 700V˝

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Ɒ ƀ à L à ɣo

Ŧ ∧ 380VAC˝ G 5%

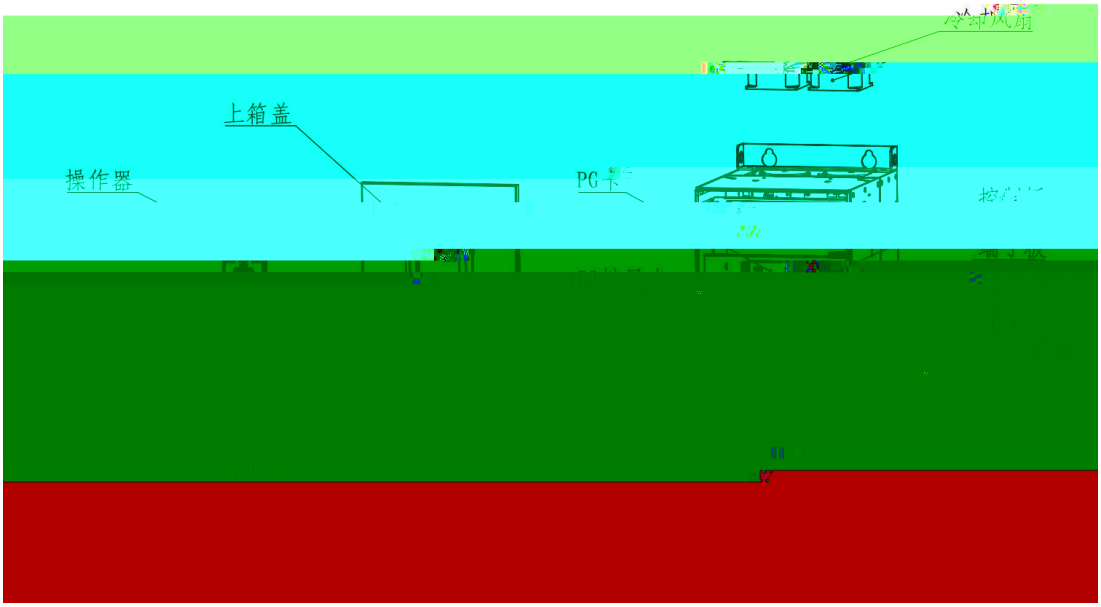
L

Ŧ 0˙ 300Hz

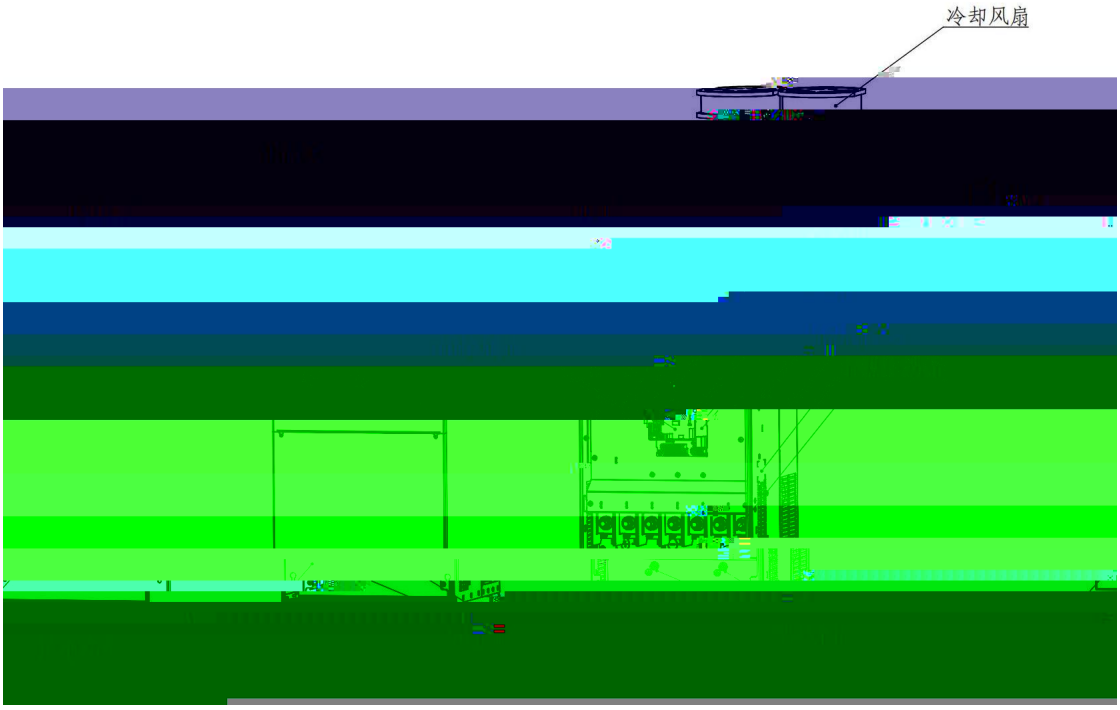
Ω¯ 0Hz/200%(VC ¿ SVC) à 0c (0

4.ڰ ڍ

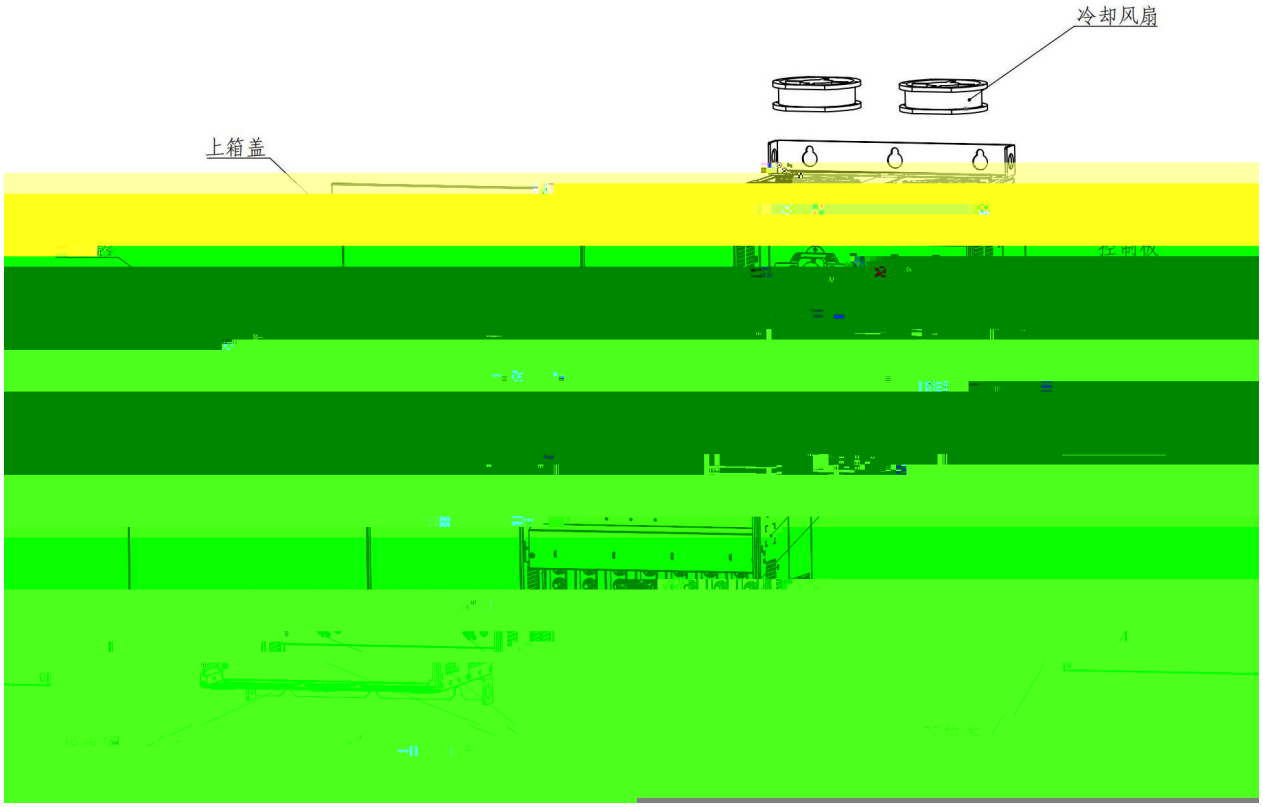
4.1 ڲ



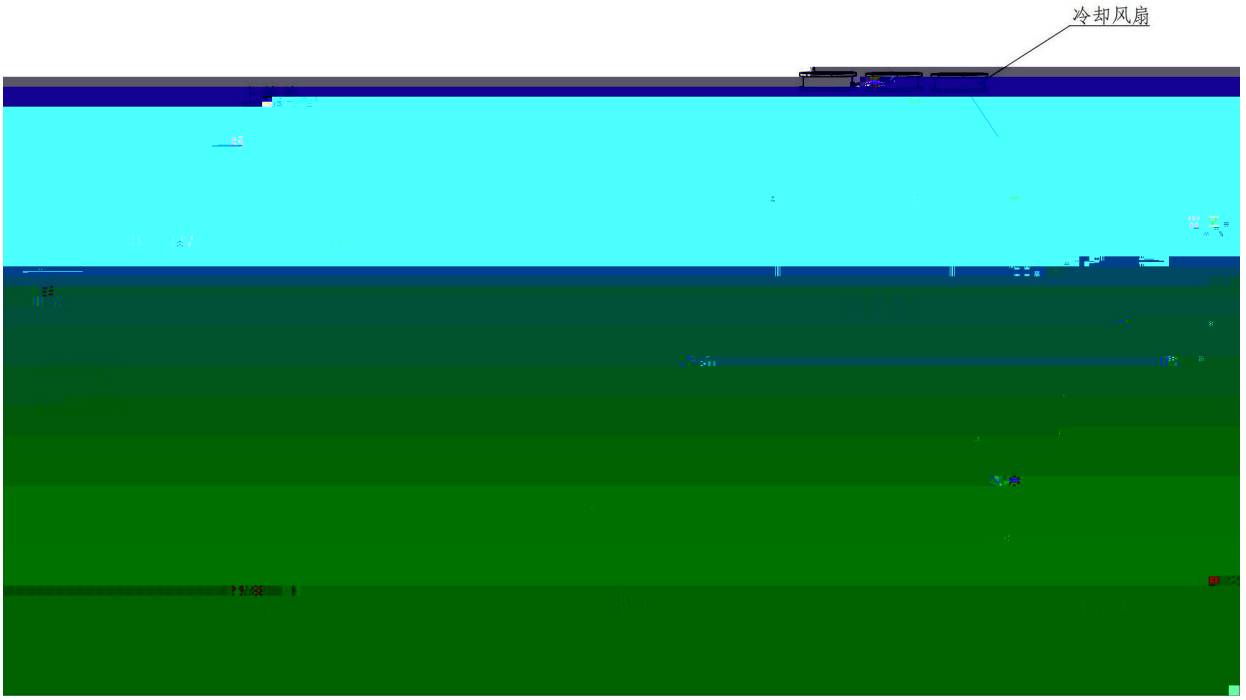
90~110kWڰ ڍ № ڑ



160kWڰ ڍ № ڑ

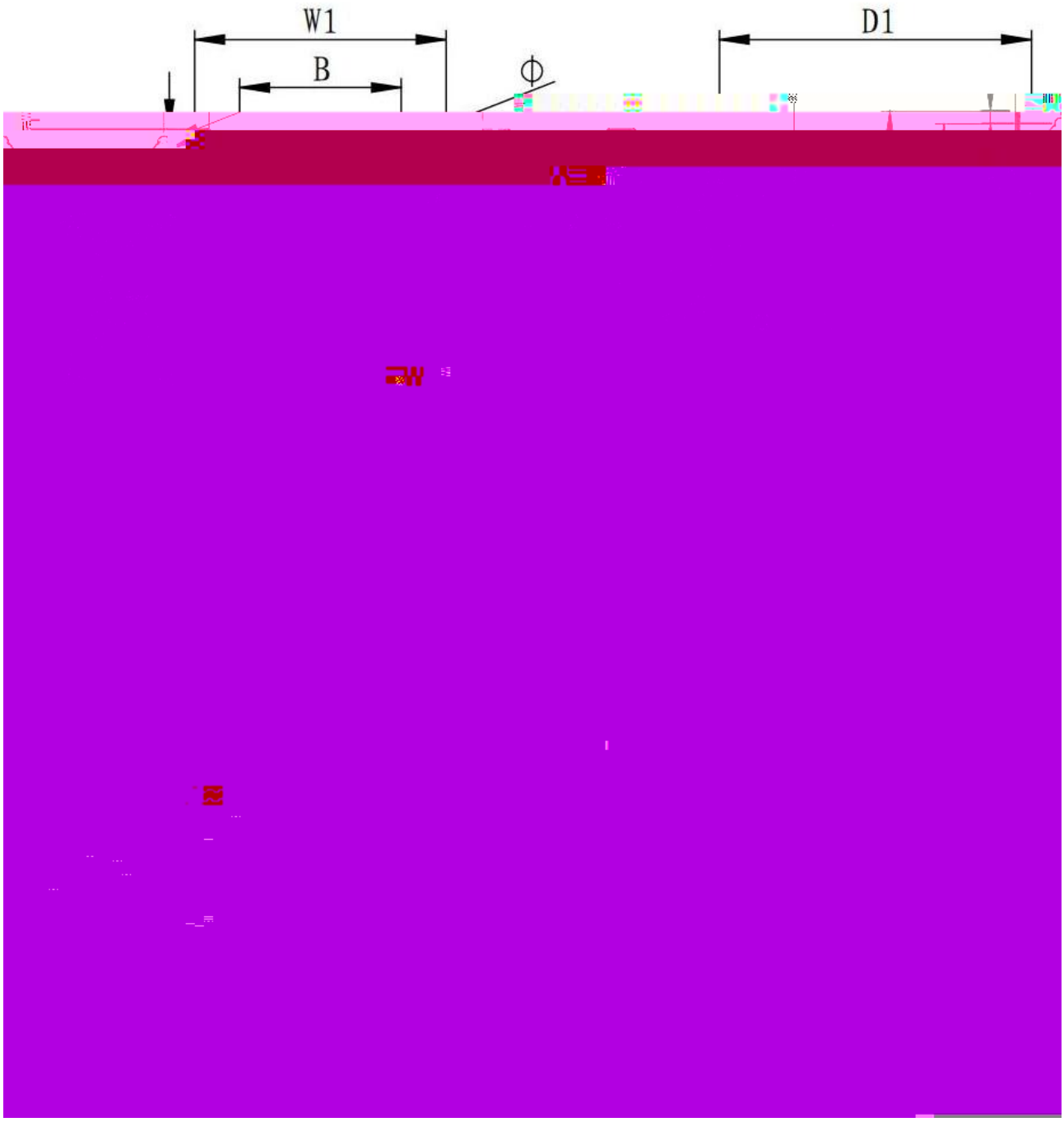


220~250kW ºº ج № ير

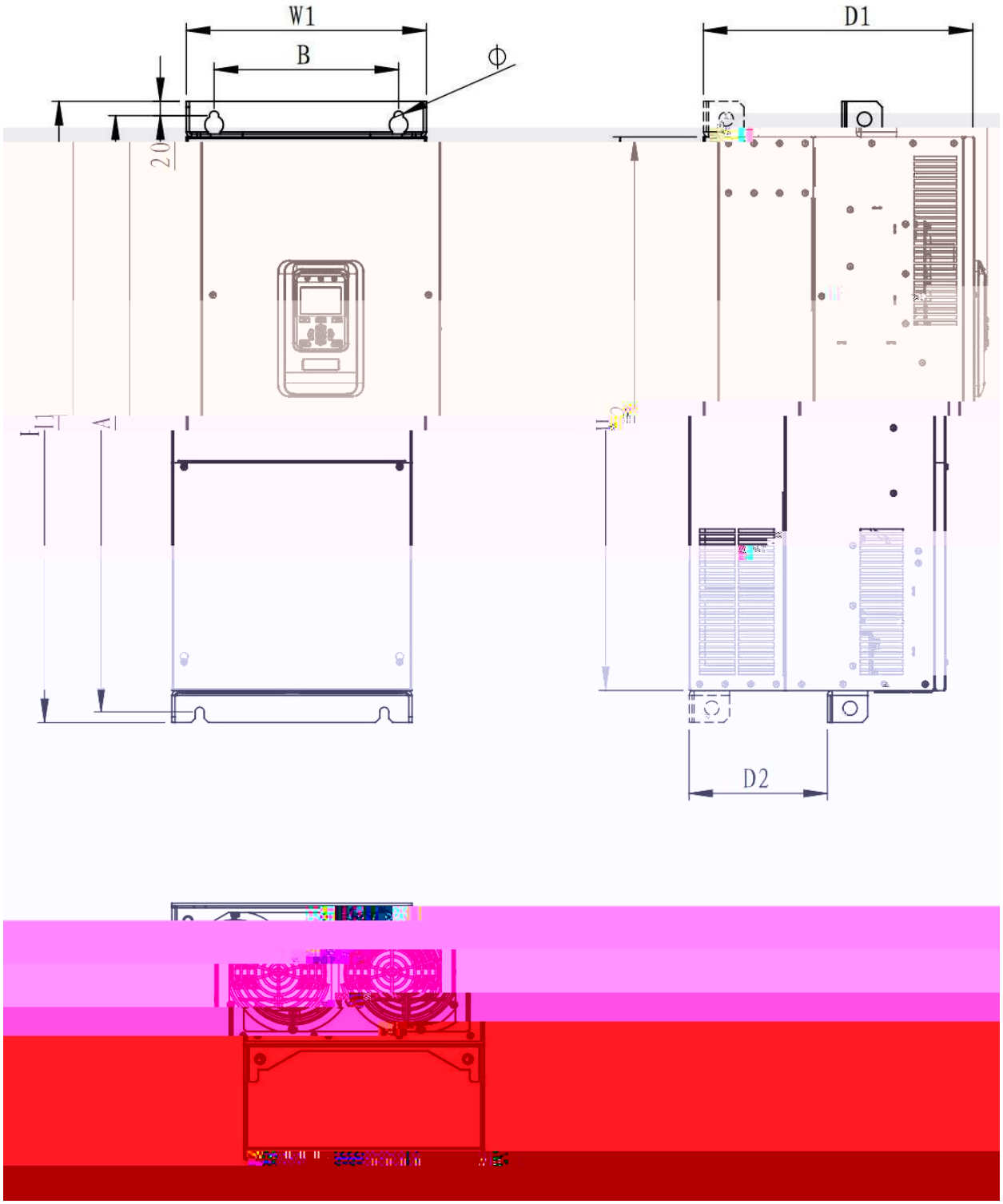


355kW ºº ج № ير

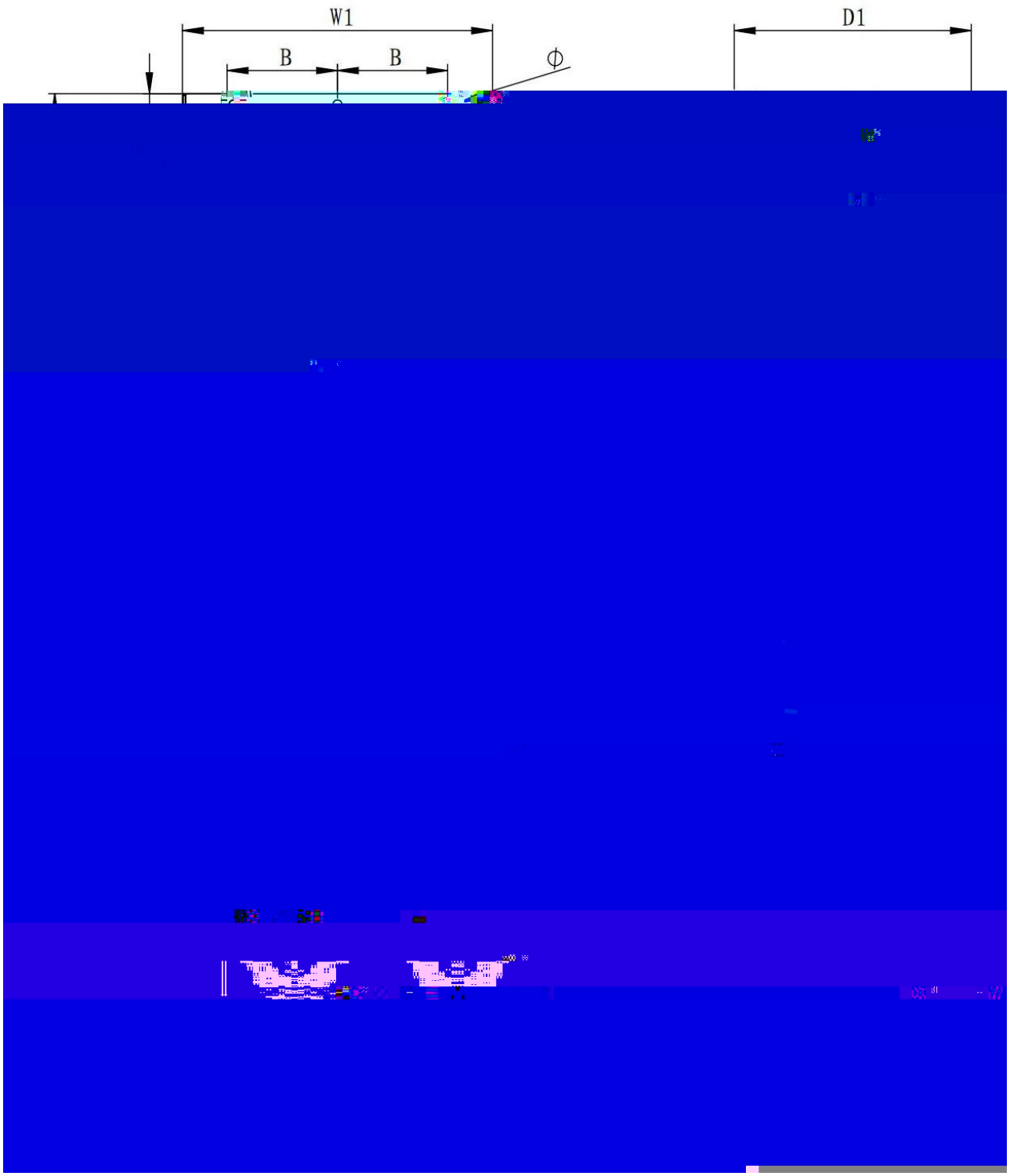
4.2 أ ي



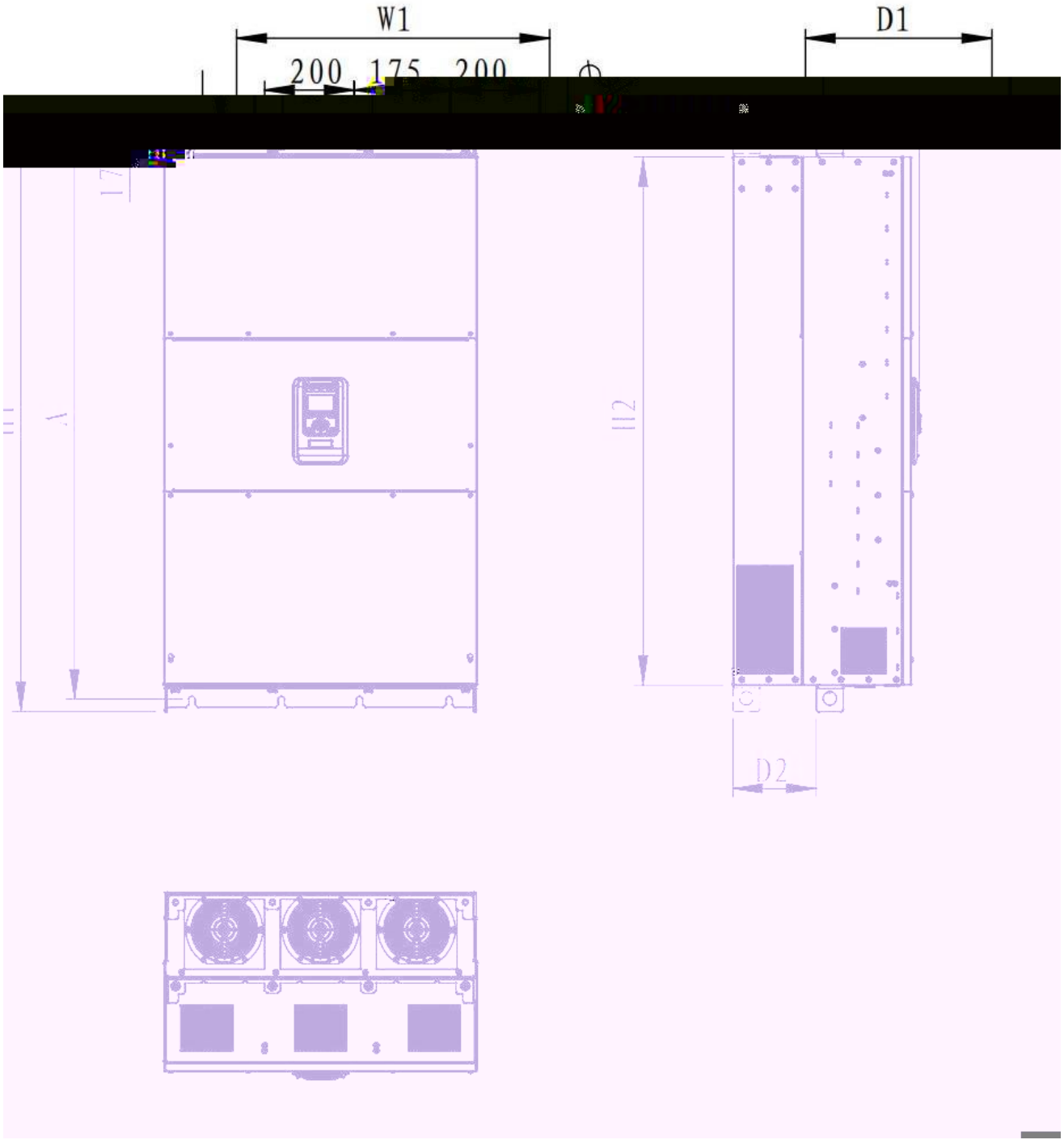
90~110kW ةمم أ ي



160kW ةمم أ يد



220~250kW قمم أ يد



355kW

w	ч β' mm								8.8	kg
	H1	H2	W1	D1	D2	A	B	ô	M	
90kW	580	508	280	347.5	140	553	180	2- ô 13	4-M12	35
110kW										
160kW	875	780	338	379.5	195	840	260	2- ô 13	4-M12	60
220 kW	1094	975	492	376	180	1054	175	3- ô 14	6-M12	100
250kW										
355kW	1305	1180	700	415	187	1260	/	4- ô 14	8-M12	175

5. ƀ

5.1 ƀ

HF682N ↓ ǐ ƍ ƀ ˆ Ƽ ɥ ƀ ƍ˜ Ǐɀ Â Ɔ F1 àLOCAL/REMOTE à F2 à RUN à STOP à Ǐɀ à /RESET à ɛ ENTER ˘ ˜ ≠ ˈ ǐ ƍ ǎ ˘ ˘ L ɛ Å Â



5.2 Þ

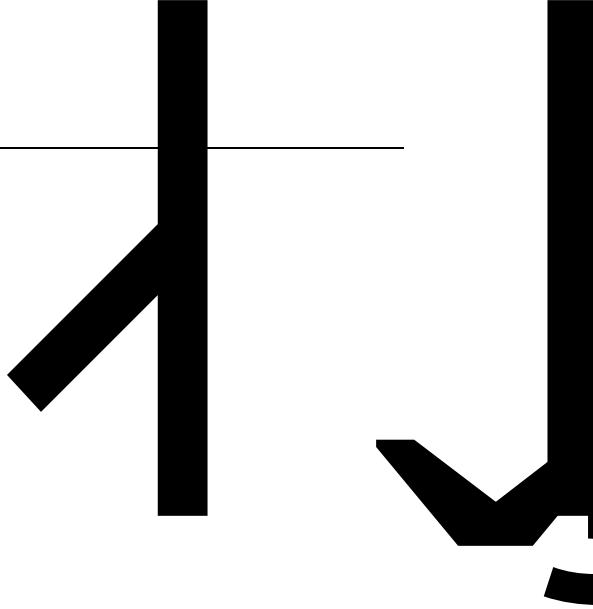
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Â ɾ Й β ϒ ϶ ⌈ β ϒ˘ ǵ Â3˝ Ɣ Й ѵ ⋮ ỵ˘
ỵ ҥ U˘ ˝ ENTER Â ă ą ˫ β Â
Þ ĭ ϛ ˘ ą RUN ė STOP Ω˫ ė Å ˆ ѽ ă
ғ Ⓟ ⌈ ض ~ ˘ LOCAL/REMOTE Ⓟ ض/ Â

5.3 Δ



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	╠ ₹ ˘ ϗ β ' A
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ο ' ₩ 4 ɷ ˘ ⁘ Й ¯ ˘ ɣ Ь □ ǎ '

ضٍ Δ Й˘ Й ENTER ˆ ɣ Â Й F1/F2 ₣ Δ ˘

˜ h ɬ Â

5.4ê h ɬ Ì

ê h ɬ Ì Ţ˘ ´ ƈ Ţ Ɣ ɬ˘ №≠ ˜ Ɣ w ƀ Â

h ɬ

ɬ ˆ

5	Fault Record	Ḡ ˇ Ʉ Ð ˇ ϒ Ī Ḥ
6	Security ɳ	~ ˇ ˇ ϒ Ć ĸ ī ɾ ă

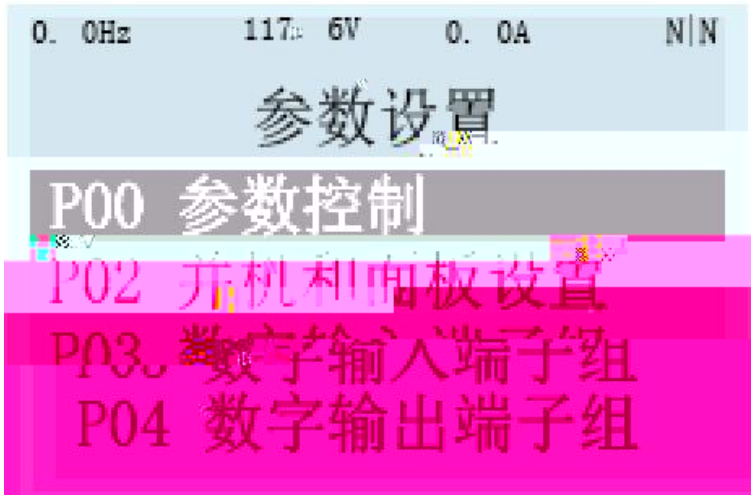
5.4.1ê Ì ɻ

ê Ì Ţ˘ ´ Ơ Ţ ʯ ɻ˘ №≠ ~ ʯ
w ƀ Â

˜ ɻ	ɻ	w
1	Choose Direction h	ض Ӣ˘ ī h
2	Reset Error β	β ╠ ˘
3	Menu Language ɻ	ɻ
4	Monitor Setting	
5	LCD Contr]ѫn	

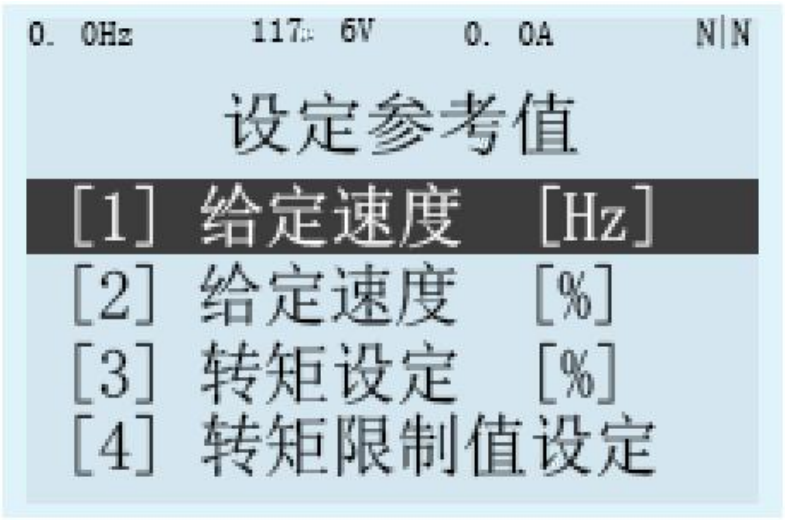
6	Time Setting	╟
7	Version ϕ Ð	L ϕ Ð ˜ ¿ Þ ϕ Ð ˜
8	OLD COM :: β	:: β

5.4.2ê ǎ Ì ↓

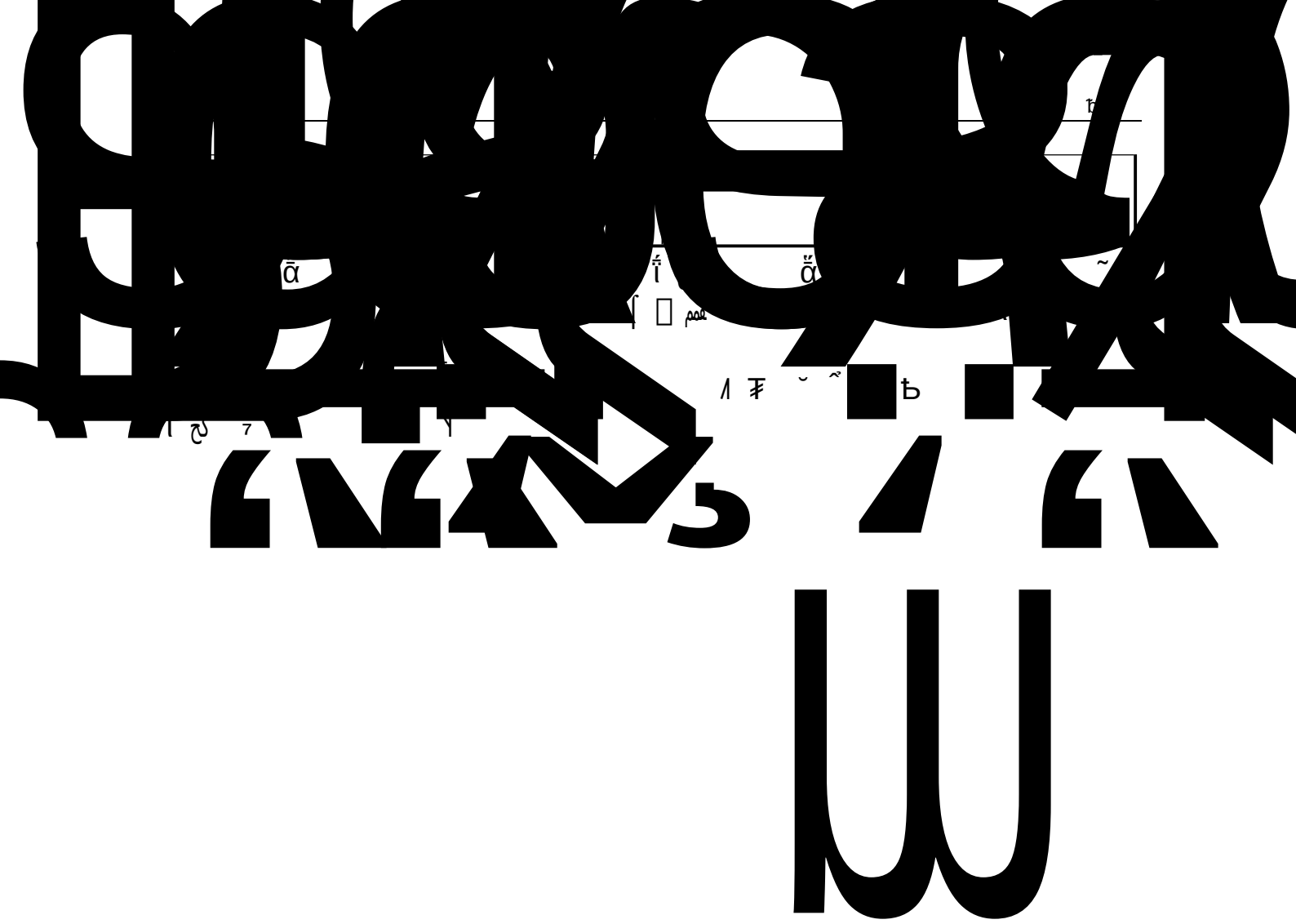


ǎ ^ Parameter Setting˜
˜ ↓˘ ĺ ĩ ↺ ↳ ǎ Â

5.4.3ê ǎ ụ Ì ↓

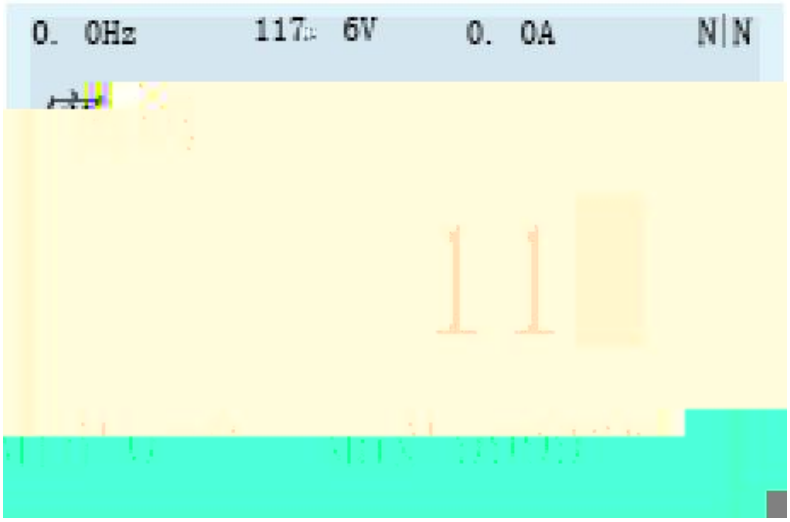


٧	٧	W
1	MotoTuning I ä	ä
2	MotoTuning II ä	ä
3	MotoTuning III ä	ä
4	DC-Link Tuning ä (AFE)	ضي AFE
5	Sh3tcut PaGas Setting ă	ă
6	PamaGeter Initializatin ă Δ .	ă Δ . ч Δ ų Â
7	Delete Fault Recomds	
8	System Restamt Ω	ĭ ڪ ˘ G
9	Backup PaGameter м ŋ ă	ضي ă м
10	Recover PamaGeter ٨ ŋ ă	٨ ң ╠ м ă
11	Cnpame PamaGeter ă	ă ė м ă ˘ U ↓ ∓ ќ ă ^ м ă ч Δ . U ∓ ٨ ų ˘ ∓ ă ч ∓ ٨ ų ĭ ă ~
12	Backup Pama DSP ă м ┬	



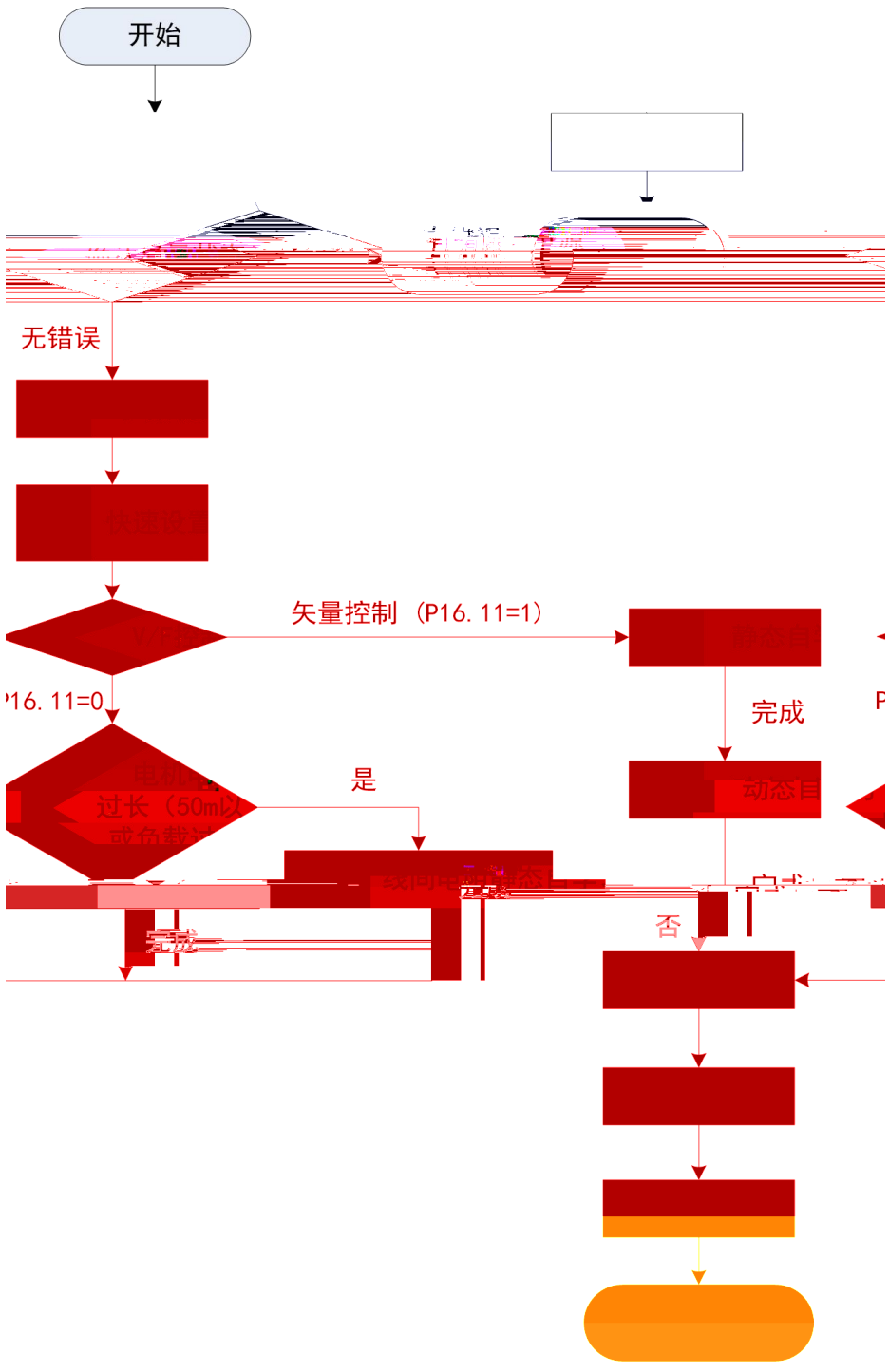
5.4.6ê ŋ Ì ٧

ŋ ˆ Access Permissions˜
٧ Ţ˚ ą à ǎ ≠



6. ï ر

6.1 ï ر



ضي aق ƀb Ạ ƶ ╠ Ⱶ ضر/

6.2.1 ă Δ .

ă Δ . ˇ ă ų ų Â ť ŗ 5.4 Ţ ľ w Ŀ Â

6.2.2 ă

Ǐ ă ˇ Â

w	O	ų
P16.2	w	ă w
P16.3	۱	ă ۱
P16.4		ă
P16.5		ă
P16.6		ă
P16.7		ˆ 120 ¦ P16.5 / P16.6˜ ŭ
P16.9	□	Ţ ˆ

P8.10		[0] I/O [1] ~ 1 [2] ~ 2 [3] ƀ [4]DP [5]MODBUS [6] w شج	3
P8.3	Å	[0] تمج Å [1] Å	1
P7.0	└ ṿ [1]	0~300[%]	180%
P7.4	Ḡ [1]	0~300[%]	235%
P7.19	[1]	100.0˙ 720.0[%]	120%

6.2.3 ắ ä

└ ˇ ä Â γ Ӣ ä˘

˫ ắ Â

^ 1˜ └

P16.11 ṿ˘ ч [1] [2] ↕ ч └˘ ä غ˫

ä Â ч [0] ↕ ч V/F └˘ ₇ ä Â

^ 2˜ ä

ضي V/F └ Ӣ ä Ӡ˜ ч ä˘ ₇ ṿ Â

ضي └ Ӣ ä Ψ à γ ї ắ Â

ضيw Ţ Ţ ä˘ U ˘ ä Â ä Ţ ľ

ä ضي ˛ Ŀ˘ ä U ľ ä ˛ Ŀ Â

^ 3˜ ˫ ä

ضي └ Ӣ ˫ ä˘ ˫ ä ח № ắ ṿ˘

₹ ε ắ ṿ Âضي˫ ä ң ╠˘ └ Ӣ ä ₩ ѽ

Â

ضيw Ţ Ţ˫ ä˘ U ˘ ä Â ä Ţ ľ˫

ä ضي ˛ Ŀ˘ ä U ľ˫ ä ˛ Ŀ Â

^ 4˜ ـ ӟ

ضي L Ӆ ـ ӟ U˘ ғ Ⱶ ضي

ˉ ƀ Â ٦ ˆ ٦ ĭ ˉ ~ ˘ ٧

ɇ ⁞ ٦ Â

ą ƀ ƀ Й '

ˆ 1˜ ˘ Δ ’

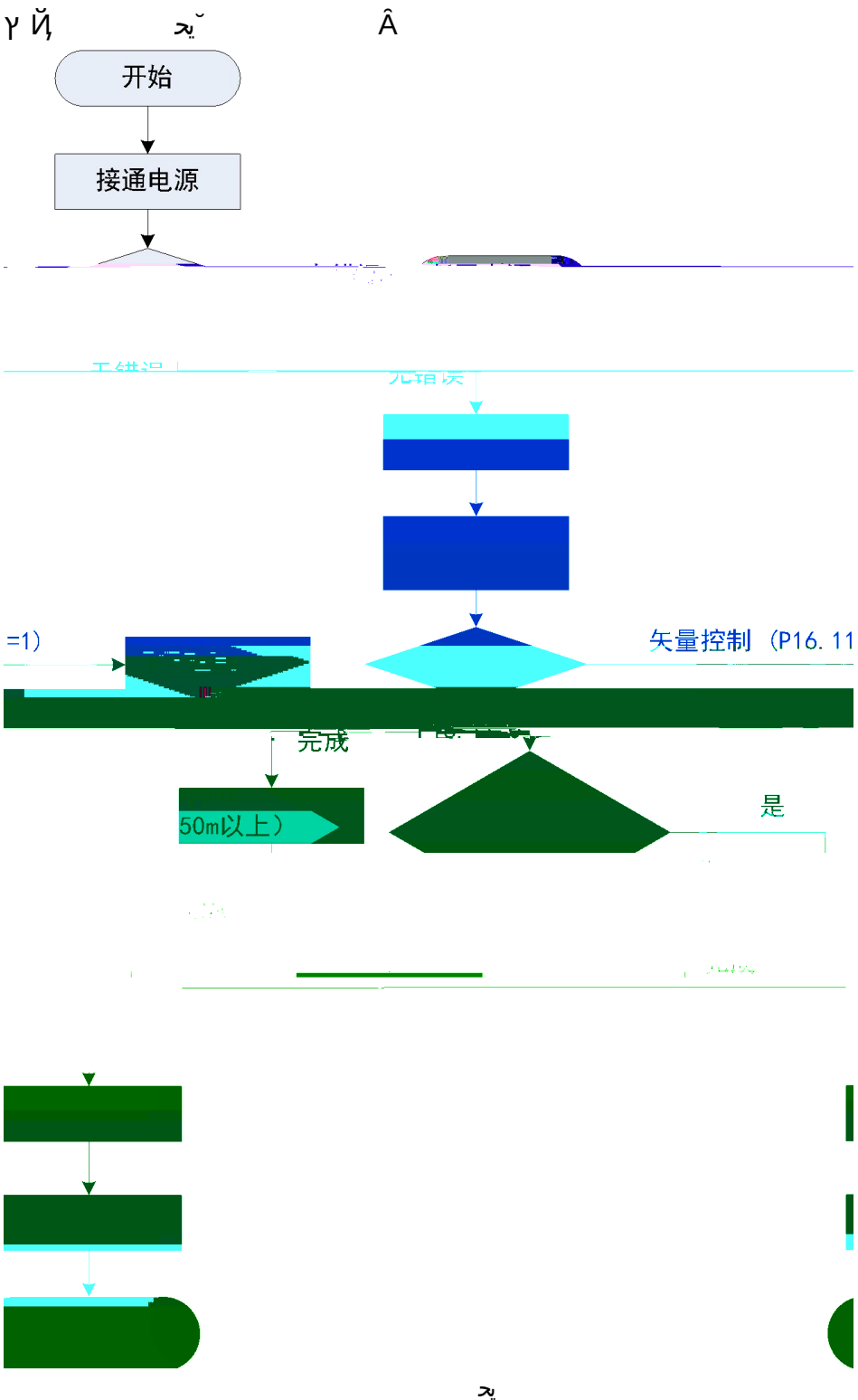
ˆ 2˜ ч ض L˘ LOC/REM LOCAL˘ LOCAL ˯ ’

ˆ 3˜ ƀ ENTER ˘ ắ ỵ [1] ˘ RUN ˘ ĩ ح˜

RUN ˯ ˘ ’ ˆ ч 5Hz˜

7. Þ

7.1 ſ ᵹ



ضي ą ƀ Ą ä ╠˜ Ⱶ ضر/ ч ضر

└ Δ ν V/F └^ P16.11=0˜ Â ч ⌠ └ ˘ V/F

└ Ӟ Ą ä Â

└№ ч └^ P16.11=2˜ ę └^ P16.11=1˜ Âضي

└ Ѝ ä ę˜ ä ą̋ ˘ Ӟ ɢ └

Âضي ð ¨Ḥ Ѝ˘ Ą ä ę˜ ä Â

7.2 ſ ҁ ƀ

7.2.1

Ⱶ ɣ Ѝ U˘ ˈP Â

ˆ 1˜ ⊀ Ɋ ч ⱬ ⊀ ¨Ḥ ν^ ¤ 5V ⱨ ṗ˜ ’

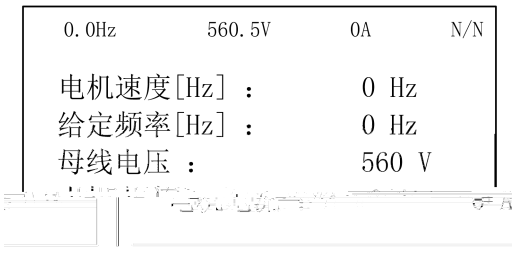
ˆ 2˜ ſ ҁ ₣ ˆ U,V,W˜ ę Ɋ ’

ˆ 3˜ ſ ҁ └ Ь ì ɾ └ Ɋ ’

ˆ 4˜ ą PG ҁ ⋎ ˘ PG ҁ ⋎ Ь ҁ Ɋ Â

7.2.2

˘ ’ Ѝ ƀ Ѝ ⱬ Â



ů ˘ Ь ; Ь ƀ ď

7.2.3 ắ Δ .

ắ Δ . ˘ ắ ỵ ỵ Â ĩ r 6 w Â

7.2.4 ắ

Ω Å └ ắ Â

w	O		ỵ
		[0] ˜	
		[1] ƀ	
P8.0	Ω¬	[2]DP	1
		[3]MODBUS	
		[4] w ﺷﺠ	
P8.3	Å	[0] ﺗﺠ Å	1
		[1] Å	
P8.6		0˙ 300s	0
P8.7	U Ḡ	Å Ḡ 0˙ 300s	0
P8.10		[0]I/O	
		[1] ˜ 1	
		[2] ˜ 2	
		[3] ƀ	
		[4]DP	

ǎ

w	ǎ O	ų
P16.0	~ ⁄	380V
P16.2	w	ǎ
P16.3	⁄	ǎ
P16.4		ǎ
P16.5		ǎ
P16.6		ǎ
P16.7		(120 ¦ P16.5 / P16.6) ǔ
P16.9	□	(120 ¦ P16.5 / P16.7)
P16.11	L	[0]V/F L [1] [2]

7.2.5 ǎ ä

L ˇ ä Â γ Ӣ ä˘

¯ ǎ Â

^ 5~ L

P16.11 ų˘ ч [1] [2] ↕ ч L˘ ä ɛ¯

ä Â ч [0] ↕ ч V/F L˘ ₇ ä Â

^ 6~ ä

ضي V/F L Ӣ ä Ӡ˜ ч ä˘₇ (P20.74)

ų Âضي L Ӣ ä Ψ à γ ǐ ǎ ^ P20.74 à P20.78 à P20.79 à P20.84~ Â

ضيw Ţ Ţ ä˘ U ˘ ä Â ä Ţ ľ

ä ضي ˛ Ŀ˘ ä U ľ ä ˛ Ŀ Â

^ 7~ ¯ ä

ضي L Ӣ ¯ ä˘ ¯ ä ņ P20.79 à P20.84 ǎ ų˘

₣ P20.85~P20.97 ǎ ų Âضي¯ ä н ╠˘ L Ӣ

7.2.7 Й

Й Й Â

╠ ė Ա ղ˘ Å ˙ ė ղ Ղ

¯ Ъ Â Ղ ^ Ղ ї¯ ~ ˘ ₰

ė ⁞ Ղ Â

ą Ъ Ъ Й '

^ 1˜ ˘ Δ ’

^ 2˜ ч ض L˘ LOCAL/REMOTE LOCAL˘ LOCAL ˙ ’

^ 3˜ Ъ RUN ˘ ї˝ ڪ˜ RUN ˙ ˘ ’ ^

ч 5Hz˜

^ 4˜ ץ h ˘ ғ ї˝ ڪ ’

^ 5˜ 4 Ţ ˘ ↕ ₰ ụ 50Hž Ъ

₣ ˘ Ḡ Ь ₣ ’

^ 6˜ U˘ STOP ˘ Å Â

7.2.8 Й

Й Й Â

ץ ЙҤ '

^ 1˜ ė Ա ղ’

^ 2˜ ղ Å ’

^ 3˜ ’

^ 4˜ ₭ ¯ ˘ ė ₰ ’

^ 5˜ Å ˙ ė ʊ ղ Ղ ¯ Ъ’

^ 6˜ ч ₣ ’˘ Ạ Й Ъ STOP ‰ Â

ϒ ЙҢНυ '

ˆ 1˜ ˫ ƀ h ϖ ˆ h ϖ ˜ '

ˆ 2˜ ѵ ė ⁞ ϖ Â

ﺽ ⁘ U˘ Ь ▯ ƀ Â

ˆ 1˜ ₣ ϖ '

ˆ 2˜ ĩ ṿ ė h˘ ϖ ė ˫ Â

7.2.9 ă̋ Ḡ

ﺽW ϒ Ţ м ă̋ ˘ ĩ ϛ ă̋ ṿ ⌡ ƀ Ũ ϒ ṗ Â

ĩ ϛ L ˘ ƀ ⌡ L ˘ ϒ˜ Â^

ʌ ă̋ L ṗ ɒ Ь ҥ ╠ ₩ ˘ ϖ ↕ ʌ ă̋ W˜

8. ĭ ᶊ ă̆

8.1 ĭ̆ P2

w	O		₀	ᵩ	
P2.0		[0] ɬ ' ƀ ч ɬ ą ' [1] h' ƀ ч Ţ h ą ' [2] ɾ' ƀ ч Ţ ɾ ą Â	0˙ 2	0	
P2.1	Ⓟ	Ⓟ [0] ~' L Ⓟ ' [1]DP ' L Ⓟ Â	0˙ 1	0	
P2.2		[0] Ţ ' [1] Â	0˙ 1	0	
P2.3	ɾ	' Ѝ˜ ɾ	0˙ 5	1	

8.2 ~ P3

w	O	₀	ᵩ
P3./			

2 ĺ

3 ¬ ą
^ ~ Ч ą

4 ¬ ą .NC
^ γ ~ Ч γ ą

5 β β w Â Ь

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8.4 ~ P5

w	O			ظ	ṿ
P5.0	AI1	فمم	[0] [1]0˙ +10V [2]-10˙ +10V [3]0˙ 20mA	0˙ 3	1
P5.1	AI1		AI1 Â ṿ ỉ ىظ ỉ ˉ ą Â ṿ ↕ Ψ ː Ӣ ˉ p ڑ Ψ ǐ Â	0.0˙ 1000.0 [ms]	25.0 [ms]
P5.2	AI1	۱ Ẓ	AI1 ۱ Ẓ	-10.00˙ 10.00 [V]	0.000 [V]
P5.3	AI1	Ẓ	AI1 Ẓ	-20.00˙ 20.00 [mA]	0.000 [mA]
P5.4	AI1	۱	AI1 ۱	-10.00˙ 10.00 [V]	0.000 [V]
P5.5	AI1		AI1	0.00˙ 20.00 [mA]	0.000 [mA]
P5.6	AI1	ṿ	AI1 ṿ	-300.0˙ 300.0 [%]	0.0 [%]
P5.7	AI1	۱	AI1 ۱	-10.00˙ 10.00 [V]	10.000 [V]
P5.8	AI1		AI1	0.00˙ 20.00 [mA]	20.000 [mA]
P5.9	AI1	ṿ	AI1 ṿ	-300.0˙ 300.0 [%]	100.0 [%]
P5.18	AI2	فمم	[0] [1]0˙ +10V [2]-10˙ +10V [3]0˙ 20mA	0˙ 3	3

AI2

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ν Ὶ ևخ ὶ ˫

P5.19 AI2

ą Â

ν ↕ Ψ

ν̣ ̇ Ϳ ˫ p ڒ Ψ

8.5 ₣ P6

w	O		مخ	ṿ	
P6.0	A01 ₣	7-1	0˙ 14	2	
P6.1	w شجـ ₣1	w شجـ ₣ ṿ	0˙ 1000	0	
P6.2	A01 ₣ ṿ	A01 ₣ ṿ	-300.0˙ 300.0 [%]	0.0 [%]	
P6.3	A01 ₣ ṿ	A01 ₣ ṿ	-300.0˙ 300.0 [%]	100.0 [%]	
P6.4	A01 ₣[mÃ˜ V]	A01 ₣	0.0˙ 100.0 [%]	0.0 [%]	
P6.5	A01 ₣[mÃ˜ V]	A01 ₣	0.0˙ 100.0 [%]	100.0 [%]	
P6.6	A01Ẓ ṿ	A01Ẓ ṿ	-100.00˙ 100.00 [%]	0.00 [%]	
P6.7	A01ﻫ ₣	A01ﻫ ₣(P6.0 ч [13] ṿ)	0.0˙ 100.0 [%]	0.0 [%]	
P6.8	A01	A01 Â ₣ ṿ ỉ Ⱡ مخ ỉ ˫ ą Â ṿ ↕ Ψ ₣ ṿ ̓ Й ˫ ᵖ ڒ Ψ Ǐ Â	0.0˙ 1000.0 [ms]	10.0 [ms]	
P6.14	A02 ₣	7-1	0˙ 14	4	
P6.15	w شجـ ₣2	w شجـ ₣ ṿ	0˙ 1000	0	
P6.16	A02 ₣ ṿ	A02 ₣ ṿ	-300.0˙ 300.0 [%]	0.0 [%]	
P6.17	A02 ₣ ṿ	A02 ₣ ṿ	-300.0˙ 300.0 [%]	100.0 [%]	
P6.18	A02 ₣[mÃ˜ V]	A02 ₣	0.0˙ 100.0 [%]	0.0 [%]	
P6.19	A02 ₣[mÃ˜ V]	A02 ₣	0.0˙ 100.0 [%]	100.0 [%]	
P6.20	A02Ẓ ṿ	A02Ẓ ṿ	-100.00˙ 100.00 [%]	0.00 [%]	

P6.21 AO2 ₹ AO2 ₹ (P6.14 0.0 ч [13] ٧)

8.6 Ḡ ă P7

w	O		مخ	ų	
P7.0	┗ ų [1]	1 ┗ ų	0.0˙ 300.0 [%]	180.0 [%]	
P7.1	┗ ų [2]	2 ┗ ų	0.0˙ 300.0 [%]	180.0 [%]	
P7.2	┗ ų [3]	3 ┗ ų	0.0˙ 300.0 [%]	180.0 [%]	
P7.3	┗ ų [4]	4 ┗ ų	0.0˙ 300.0 [%]	180.0 [%]	
P7.4	Ḡ [1]	1 Ḡ ų	0.0˙ 300.0 [%]	235.0 [%]	
P7.5	Ḡ [2]	2 Ḡ ų	0.0˙ 300.0 [%]	235.0 [%]	
P7.6	Ḡ [3]	3 Ḡ ų	0.0˙ 300.0 [%]	235.0 [%]	
P7.7	Ḡ [4]	4 Ḡ ų	0.0˙ 300.0 [%]	235.0 [%]	
P7.8	[1]	1	0.0˙ 100.0 [%]	20.0 [%]	
P7.9	[2]	2	0.0˙ 100.0 [%]	20.0 [%]	
P7.10	[3]	3	0.0˙ 100.0 [%]	20.0 [%]	
P7.11	[4]	4	0.0˙ 100.0 [%]	20.0 [%]	
P7.12	۱	۱ ų	600˙ 820 [V]	800 [V]	
P7.13	۱	۱ ų	300˙ 500 [V]	350 [V]	
P7.14		ų	60.0˙ 100.0 [Ņ]	87.5 [Ņ]	
P7.15		ų	50.0˙ 100.0 [Ņ]	80.0 [Ņ]	
P7.19	[1]	1 ų	100.0˙ 720.0 [%]	120.0 [%]	
P7.20	[2]	2 ų	100.0˙ 720.0 [%]	120.0 [%]	
P7.21	[3]	3 ų	100.0˙ 720.0 [%]	120.0 [%]	

P7.22	[4]	4 ų	100.0˙ 720.0 [%]	120.0 [%]	
P7.23	Ḡ 1 M1	1 Ḡ	0.00˙ 3.00 [s]	0.50 [s]	
P7.24	Ḡ 1 M2	2 Ḡ	0.00˙ 3.00 [s]	0.50 [s]	
P7.25	Ḡ 1 M3	3 Ḡ	0.00˙ 3.00 [s]	0.50 [s]	
P7.26	Ḡ 1 M4	4 Ḡ	0.00˙ 3.00 [s]	0.50 [s]	
P7.27	1	1 Ḡ	0.00˙ 3.00 [s]	2.00 [s]	
P7.28	2	2 Ḡ	0.00˙ 3.00 [s]	2.00 [s]	
P7.29	3	3 Ḡ	0.00˙ 3.00 [s]	2.00 [s]	
P7.30	4	4 Ḡ	0.00˙ 3.00 [s]	2.00 [s]	
P7.31	ɔ̀	Ḡ № ų	0.0˙ 100.0 [%]	25.0 [%]	
P7.32		Ḡ	0.00˙ 5.00 [s]	1 [s]	
P7.33	ɜ̈	ɜ̈	0.0˙ 1000.0 [s]	360.0 [s]	
P7.47		¨Ḥ ų	0.0˙ 300.0 [%]	100.0 [%]	
P7.48	1	1 ų	0.0˙ 300.0 [%]	150.0 [%]	
P7.49	1	¨Ḥ 1	0.00˙ 60.00 [s]	60.00 [s]	
P7.50	2	2 ų	0.0˙ 300.0 [%]	200.0 [%]	
P7.51	2	¨Ḥ 2	0.00˙ 5.00 [s]	5.00 [s]	
P7.55	~ Ḡ ą	[0] [1] ą	0˙ 1	0	
P7.56	~		0.0˙ 200.0 [%]	120.0 [%]	
P7.57	~ ʉ		0.0˙ 12.0 [s]	5 [s]	
P7.59	₹ Ḡ ą	[0] [1] ą	0˙ 1	1	

P7.60	₮ ᵾ		0.10˙ 3.00 [s]	0.30 [s]	
P7.64	ᒪ	[0] [1] ą	0˙ 1	0	
P7.65	ᒪ Ꭿ Ẓ ∤	ᒪ Ꭿ ∤ Ẓ ṿ	-25˙ 100 [V]	0 [V]	
P7.66	ᒪ ƀ Ẓ ∤	ᒪ Ḡ ∤ Ẓ ṿ	-25˙ 100 [V]	0 [V]	
P7.69	∤ ᒪ ą	[0] [1] ą	0˙ 1	0	
P7.70	∤ ᒪ Ẓ ṿ	∤ ᒪ ṿ Ẓ	-25˙ 100 [V]	0 [V]	
P7.73	∤ ᒪ ą	[0] [1] ą	0˙ 1	0	
P7.74	∤ ᒪ ṿ		300˙ 500 [V]	460 [V]	
P7.75	∤ ᒪ ლ		0.0˙ 1000.0 [%]	100.0 [%]	
P7.76	∤		0.00˙ 300.00 [s]	1.00 [s]	
P7.77	∤ ṿ		0.0˙ 200.0 [%]	15.0 [%]	
P7.94	ᒧ ƀ	[0] ᒪ [1] ∤ ᒪ	0˙ 1	1	
P7.95	ᵀḤ	AFE ᒪ Й ᵀḤ	0.0˙ 3000.0 [s]	15.0 [s]	
P7.96	ᵀ	ᵀ	0.00˙ 300.00 [s]	0.00 [s]	

8.7 1 Ω Å L P8

w	O		Ẏ
		[0]	~
		[1]	ƀ
P8.0	Ω	[2]DP	

ɾ P8.15 ỵ ⌈
P8.18 ᶹ 2

8.8 2 Ω Å L P9

w	O		خ	٧	
P9.0	Ω¬	[0] ~ [1] ƀ [2]DP [3]MODBUS [4] w جش	0˙ 4	0	
P9.1	جش Ω¬	Ω¬ w جش			
P9.2	جش h	h w جش			
P9.3	Å	[0] جتر Å [1] Å	0˙ 1	0	
P9.6			0.00˙ 300.00 [s]	0.00 [s]	
P9.7	U Ḡ	Å Ḡ	0.00˙ 300.00 [s]	0.00 [s]	
P9.10		[0]I/O [1] ~ 1 [2] ~ 2 [3] ƀ [4]DP [5]MODBUS [6] w جش	0˙ 6	0	
P9.11	جش	w جش			
P9.13	٧ L	[0] [1]PROFIBUS [2]MODBUS [3] ض	0˙ 3	0	
P9.14	٧ Ô		0.1˙ 10.0	1.0	
P9.15	٧ ٧1	₩ ٧	0.0˙ 300.0 [%]	100.0 [%]	
P9.16	٧ 1	ر Å ⌠P9.15 ٧ ٧	0.0˙ 300.0 [s]	3.00 [s]	
P9.17	٧ ٧2	₦ ٧	0.0˙ 300.0 [%]	200.0 [%]	

P9.18	٧ 2	ر P9.15 ٧ ⌡ P9.17 ٧ ٧	0.0 300.0 [s]	4.00 [s]	
P9.19	٧ ٧ 3	ق ٧	0.0 300.0 [%]	240.0 [%]	
P9.20	٧ 3	ر P9.17 ٧ ⌡ P9.19 ٧ ٧	0.0 300.0 [s]	7.00 [s]	
P9.21	٧ ٧ 4	ق ٧ ضم	0.0 300.0 [%]	300.0 [%]	
P9.22	٧ 4	ر P9.19 ٧ ⌡ P9.21 ٧ ٧	0.0 300.0 [s]	10.00 [s]	
P9.23	٧ ٧ 5	ق ٧ ɲ	0.0 300.0 [%]	300.0 [%]	
P9.24	٧ 5	ر P9.21 ٧ ⌡ P9.23 ٧ ٧	0.0 300.0 [s]	10.00 [s]	
P9.25	٧ ٧ 6	ق ٧ Ɛ́	0.0 300.0 [%]	300.0 [%]	
P9.26	٧ 6	ر P9.23 ٧ ⌡ P9.25 ٧ ٧	0.0 300.0 [s]	10.00 [s]	
P9.27	٧ ٧ 7	ق ٧ ≠	0.0 300.0 [%]	300.0 [%]	
P9.28	٧ 7	ر P9.25 ٧ ⌡ P9.27 ٧ ٧	0.0 300.0 [s]	10.00 [s]	
P9.29	٧ ٧ 8	ق ٧ ĩ	0.0 300.0 [%]	300.0 [%]	
P9.30	٧ 8	ر P9.27 ٧ ⌡ P9.29 ٧ ٧	0.0 300.0 [s]	10.00 [s]	
P9.32	⁞ L	[0] [1]PROFIBUS [2]MODBUS [3] ضر	0 3	0	
P9.33	⁞ Ồ		0.1 10.0	1.0	
P9.34	⁞ ٧ 1	ق ⁞ ₩	0.0 300.0 [%]	100.0 [%]	
P9.35	⁞ 1	ر P9.34 ⌡ Å ⁞	0.0 300.0 [s]	3.00 [s]	
P9.36	⁞ ٧ 2	ق ⁞ Ʉ	0.0 300.0 [%]	200.0 [%]	

P9.37	⁞	2	ر P9.34 ⁞	ע	] P9.36	ע	0.0 [s]	300.0 [s]	4.00 [s]
P9.38	⁞	٧3	⁞ ق				0.0 [%]	300.0 [%]	240.0 [%]
P9.39	⁞	3	ر P9.36 ⁞	ע	] P9.38	ע	0.0 [s]	300.0 [s]	7.00 [s]
P9.40	⁞	٧4	⁞ ق ض				0.0 [%]	300.0 [%]	300.0 [%]
P9.41	⁞	4	ر P9.38 ⁞	ע	] P9.40	ע	0.0 [s]	300.0 [s]	10.00 [s]
P9.42	⁞	٧5	⁞ ق ת				0.0 [%]	300.0 [%]	300.0 [%]
P9.43	⁞	5	ر P9.40 ⁞	ע	] P9.42	ע	0.0 [s]	300.0 [s]	10.00 [s]
P9.44	⁞	٧6	⁞ ق E				0.0 [%]	300.0 [%]	300.0 [%]
P9.45	⁞	6	ر P9.42 ⁞	ע	] P9.44	ע	0.0 [s]	300.0 [s]	10.00 [s]
P9.46	⁞	٧7	⁞ ق ≠				0.0 [%]	300.0 [%]	300.0 [%]
P9.47	⁞	7	ر P9.44 ⁞	ע	] P9.46	ע	0.0 [s]	300.0 [s]	10.00 [s]
P9.48	⁞	٧8	⁞ ق ñ				0.0 [%]	300.0 [%]	300.0 [%]
P9.49	⁞	8	ر P9.46 ⁞	ע	] P9.48	ע	0.0 [s]	300.0	

8.9 3 Ω Å L P10

w	O		مخ	٧	
P10.0	Ω¬	[0] ~ [1] ƀ [2]DP [3]MODBUS [4] w جشم	0˙ 4	0	
P10.1	جشم Ω¬	Ω¬ w جشم			
P10.2	جشم h	h w جشم			
P10.3	Å	[0] جتم Å [1] Å	0˙ 1	0	
P10.6			0.00˙ 300.00 [s]	0.00 [s]	
P10.7	U Ḡ	Å Ḡ	0.00˙ 300.00 [s]	0.00 [s]	
P10.10		[0]I/O [1] ~ 1 [2] ~ 2 [3] ƀ [4]DP [5]MODBUS [6] w جشم	0˙ 6	0	
P10.11	جشم	w جشم			
P10.13	٧ L	[0] [1]PROFIBUS [2]MODBUS [3] ضر	0˙ 3	0	
P10.14	٧ Ô		0.1˙ 10.0	1.0	
P10.15	٧ ٧1	₩ ٧	0.0˙ 300.0 [%]	100.0 [%]	
P10.16	٧ 1	ر Å ⌠P10.15 ٧ ٧	0.0˙ 300.0 [s]	3.00 [s]	
P10.17	٧ ٧2	Hu ٧	0.0˙ 300.0 [%]	200.0 [%]	

P10.18	٧	2	ر P10.15 ٧	٧	⌈ P10.17 ٧	٧	0.0 300.0 [s]	4.00 [s]
P10.19	٧	٧ 3	٧				0.0 300.0 [%]	240.0 [%]
P10.20	٧	3	ر P10.17 ٧	٧	⌈ P10.19 ٧	٧	0.0 300.0 [s]	7.00 [s]
P10.21	٧	٧ 4	٧				0.0 300.0 [%]	300.0 [%]
P10.22	٧	4	ر P10.19 ٧	٧	⌈ P10.21 ٧	٧	0.0 300.0 [s]	10.00 [s]
P10.23	٧	٧ 5	٧				0.0 300.0 [%]	300.0 [%]
P10.24	٧	5	ر P10.21 ٧	٧	⌈ P10.23 ٧	٧	0.0 300.0 [s]	10.00 [s]
P10.25	٧	٧ 6	٧				0.0 300.0 [%]	300.0 [%]
P10.26	٧	6	ر P10.23 ٧	٧	⌈ P10.25 ٧	٧	0.0 300.0 [s]	10.00 [s]
P10.27	٧	٧ 7	٧				0.0 300.0 [%]	300.0 [%]
P10.28	٧	7	ر P10.25 ٧	٧	⌈ P10.27 ٧	٧	0.0 300.0 [s]	10.00 [s]
P10.29	٧	٧ 8	٧				0.0 300.0 [%]	300.0 [%]
P 30	٧	8	ر P10.27 ٧	٧	⌈ P10.29 ٧	٧	0.0 300.0 [s]	10.00 [s]

P10.32 ⁞ L

P10.37 ⋮ 2	⋮	ɾ P10.34 ⋮	ẏ ⌈ P10.36	ẏ 0.0˙ 300.0 [s]	4.00 [s]
P10.38 ⋮ ϒ 3	⋮	⍝		0.0˙ 300.0 [%]	240.0 [%]
P10.39 ⋮ 3	⋮	ɾ P10.36 ⋮	ẏ ⌈ P10.38	ẏ 0.0˙ 300.0 [s]	7.00 [s]
P10.40 ⋮ ϒ 4	⋮	ضه ⍝		0.0˙ 300.0 [%]	300.0 [%]
P10.41 ⋮ 4	⋮	ɾ P10.38 ⋮	ẏ ⌈ P10.40	ẏ 0.0˙ 300.0 [s]	10.00 [s]
P10.42 ⋮ ϒ 5	⋮	ɲ ⍝		0.0˙ 300.0 [%]	300.0 [%]
P10.43 ⋮ 5	⋮	ɾ P10.40 ⋮	ẏ ⌈ P10.42	ẏ 0.0˙ 300.0 [s]	10.00 [s]
P10.44 ⋮ ϒ 6	⋮	΄E ⍝		0.0˙ 300.0 [%]	300.0 [%]
P10.45 ⋮ 6	⋮	ɾ P10.42 ⋮	ẏ ⌈ P10.44	ẏ 0.0˙ 300.0 [s]	10.00 [s]
P10.46 ⋮ ϒ 7	⋮	≠ ⍝		0.0˙ 300.0 [%]	300.0 [%]
P10.47 ⋮ 7	⋮	ɾ P10.44 ⋮	ẏ ⌈ P10.46	ẏ 0.0˙ 300.0 [s]	10.00 [s]
P10.48 ⋮ ϒ 8	⋮	ñ ⍝		0.0˙ 300.0 [%]	300.0 [%]
P10.49 ⋮ 8	⋮	ɾ P10.46 ⋮	ẏ ⌈ P10.48	ẏ 0.0˙ 300.0 [s]	10.00 [s]
P10.54				0.0˙ 300.0 [%]	0.0 [%]
P10.55 ǐ h ⋮ ą		[0] [1] ą		0˙ 1	0
P10.56 ǐ h ⋮				0.00˙ 300.00 [s]	3.00 [s]
P10.57 Ả		[0] ⍨ Ả [1] Ả		0˙ 1	1
P10.58 Ả ⋮				0.00˙ 300.00 [s]	1.50 [s]

8.10 4 Ω Å L P11

w	O		ض	ỵ	
P11.0	Ω¬	[0] ~ [1] ƀ [2]DP [3]MODBUS [4] w ﺝ	0˙ 4	0	
P11.1	ﺝ Ω¬	Ω¬ w ﺝ			
P11.2	ﺝ h	h w ﺝ			
P11.3	Å	[0] ﺗ Å [1] Å	0˙ 1	0	
P11.6			0.00˙ 300.00 [s]	0.00 [s]	
P11.7	U Ḡ	Å Ḡ	0.00˙ 300.00 [s]	0.00 [s]	
P11.10		[0]I/O [1] ~ 1 [2] ~ 2 [3] ƀ [4]DP [5]MODBUS [6] w ﺝ	0˙ 6	0	
P11.11	ﺝ	w ﺝ			
P11.13	٧ L	[0] [1]PROFIBUS [2]MODBUS [3] ﺽ	0˙ 3	0	
P11.14	٧ Ồ		0.1˙ 10.0	1.0	
P11.15	٧ ٧1	₩ ٩ ٧	0.0˙ 300.0 [%]	100.0 [%]	
P11.16	٧ 1	ر Å ⌠P11.15 ỵ ٧	0.0˙ 300.0 [s]	3.00 [s]	
P11.17	٧ ٧2	⊎ ٩ ٧	0.0˙ 300.0 [%]	200.0 [%]	

P11.37	⁞ 2	ɾ P11.34 ỵ ⌈ P11.36 ỵ ⁞	0.0˙ 300.0 [s]	4.00 [s]	
P11.38	⁞ ٧3	⁞	0.0˙ 300.0 [%]	240.0 [%]	
P11.39	⁞ 3	ɾ P11.36 ỵ ⌈ P11.38 ỵ ⁞	0.0˙ 300.0 [s]	7.00 [s]	
P11.40	⁞ ٧4	⁞	0.0˙ 300.0 [%]	300.0 [%]	
P11.41	⁞ 4	ɾ P11.38 ỵ ⌈ P11.40 ỵ ⁞	0.0˙ 300.0 [s]	10.00 [s]	
P11.42	⁞ ٧5	⁞	0.0˙ 300.0 [%]	300.0 [%]	
P11.43	⁞ 5	ɾ P11.40 ỵ ⌈ P11.42 ỵ ⁞	0.0˙ 300.0 [s]	10.00 [s]	
P11.44	⁞ ٧6	⁞	0.0˙ 300.0 [%]	300.0 [%]	
P11.45	⁞ 6	ɾ P11.42 ỵ ⌈ P11.44 ỵ ⁞	0.0˙ 300.0 [s]	10.00 [s]	
P11.46	⁞ ٧7	⁞	0.0˙ 300.0 [%]	300.0 [%]	
P11.47	⁞ 7	ɾ P11.44 ỵ ⌈ P11.46 ỵ ⁞	0.0˙ 300.0 [s]	10.00 [s]	
P11.48	⁞ ٧8	⁞	0.0˙ 300.0 [%]	300.0 [%]	
P11.49	⁞ 8	ɾ P11.46 ỵ ⌈ P11.48 ỵ ⁞	0.0˙ 300.0 [s]	10.00 [s]	
P11.54			0.0˙ 300.0 [%]	0.0 [%]	
P11.55	ǐ h ⁞ ą	[0] [1] ą	0˙ 1	0	
P11.56	ǐ h ⁞		0.00˙ 300.00 [s]	3.00 [s]	
P11.57	Ả	[0] ﺑﺰ Ả [1] Ả	0˙ 1	1	
P11.58	Ả ⁞		0.00˙ 300.00 [s]	1.50 [s]	

P12.27	ĭ h	ĭ h	0.00˙ 2.00 [s]	0.00 [s]	
P12.28	h L	h	0.00˙ 2.00 [s]	0.07 [s]	
P12.29	ĭ h L	ĭ h	0.00˙ 2.00 [s]	0.07 [s]	
P12.32	h	h	0.0˙ 20.0 [%]	0.0 [%]	
P12.33	ĭ h	ĭ h	0.0˙ 20.0 [%]	0.0 [%]	
P12.34	h	h	0.00˙ 2.00 [s]	0.00 [s]	
P12.35	ĭ h	ĭ h	0.00˙ 2.00 [s]	0.00 [s]	
P12.36	h	h	0.00˙ 2.00 [s]	0.50 [s]	
P12.37	ĭ h	ĭ h	0.00˙ 2.00 [s]	0.50 [s]	

8.12 2 L- P13

W	O			Ų
P13.0		[0] ~ [1]Hυ L	0˙ 1	1
P13.1	٧ β	[0][%] [1][Hz] [2][rpm]	0˙ 2	1
P13.2	1		0.0˙ 3000.0	10.0
P13.3	2		0.0˙ 3000.0	20.0
P13.4	3		0.0˙ 3000.0	35.0
P13.5	4		0.0˙ 3000.0	50.0
P13.6	5			

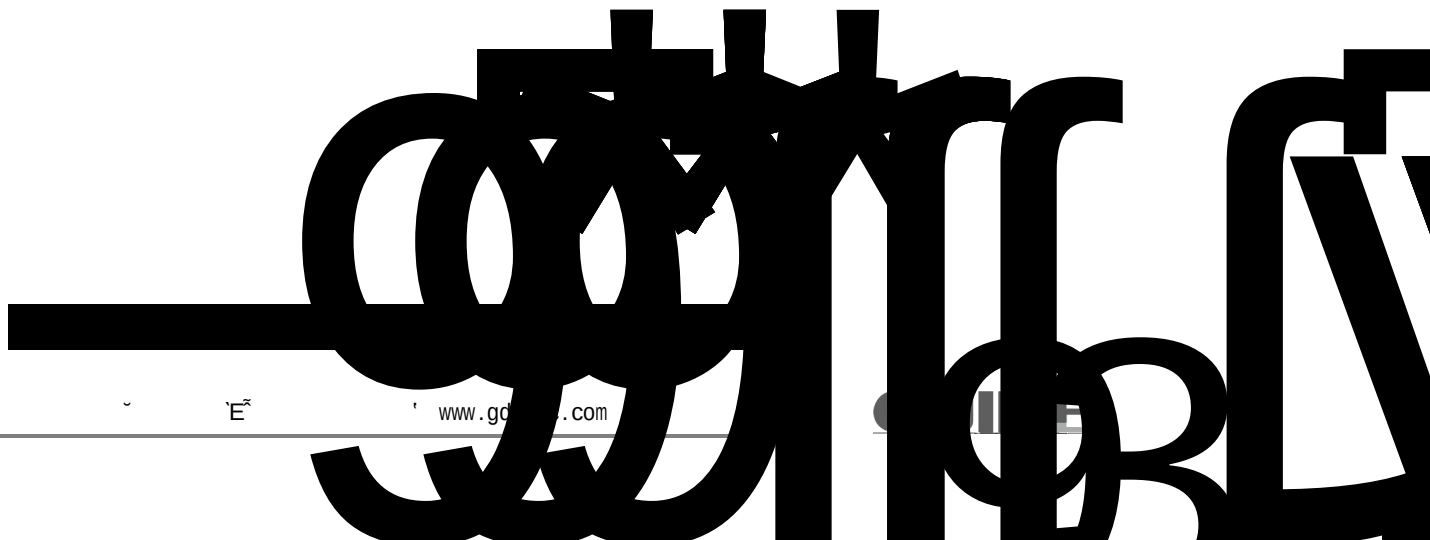
ƍ

8.13 3 L- P14

w	O		ض	ỵ
P14.0		[0] ~ [1]ʜ L	0˙ 1	1
P14.1	ʏ β	[0][%] [1][Hz] [2][rpm]	0˙ 2	1
P14.2	1		0.0˙ 3000.0	10.0
P14.3	2		0.0˙ 3000.0	20.0
P14.4	3		0.0˙ 3000.0	35.0
P14.5	4		0.0˙ 3000.0	50.0
P14.6	5		0.0˙ 3000.0	50.0
P14.7	6		0.0˙ 3000.0	50.0
P14.8	7		0.0˙ 3000.0	50.0
P14.9	8		0.0˙ 3000.0	50.0
P14.10	9		0.0˙ 3000.0	50.0
P14.11	10		0.0˙ 3000.0	50.0
P14.12	11		0.0˙ 3000.0	50.0
P14.13	12		0.0˙ 3000.0	50.0
P14.14	13		0.0˙ 3000.0	50.0
P14.15	14		0.0˙ 3000.0	50.0
P14.16	15		0.0˙ 3000.0	50.0
P14.17	16		0.0˙ 3000.0	50.0
P14.22	h ỵ	h ỵ	0.0˙ 20.0 [%]	2.0 [%]
P14.23	ǐ h ỵ	ǐ h ỵ	0.0˙ 20.0 [%]	0.0 [%]
P14.24	h	h	0.0˙ 200.0 [%]	30.0 [%]
P14.25	ǐ h	ǐ h	0.0˙ 200.0 [%]	20.0 [%]
P14.26	h	h	0.00˙ 2.00 [s]	0.00 [s]

P14.27	ĭ h	ĭ h	0.00˙ 2.00 [s]	0.00 [s]	
P14.28	h L	h	0.00˙ 2.00 [s]	0.07 [s]	
P14.29	ĭ h L	ĭ h	0.00˙ 2.00 [s]	0.07 [s]	
P14.32	h	h	0.0˙ 20.0 [%]	0.0 [%]	
P14.33	ĭ h	ĭ h	0.0˙ 20.0 [%]	0.0 [%]	
P14.34	h	h	0.00˙ 2.00 [s]	0.00 [s]	
P14.35	ĭ h	ĭ h	0.00˙ 2.00 [s]	0.00 [s]	
P14.36	h	h	0.00˙ 2.00 [s]	0.50 [s]	
P14.37	ĭ h	ĭ h	0.00˙ 2.00 [s]	0.50 [s]	

8.14 4 L- Ч



P15.27	ĭ h	ĭ h	0.00˙ 2.00 [s]	0.00 [s]	
P15.28	h L	h	0.00˙ 2.00 [s]	0.07 [s]	
P15.29	ĭ h L	ĭ h	0.00˙ 2.00 [s]	0.07 [s]	
P15.32	h	h	0.0˙ 20.0 [%]	0.0 [%]	
P15.33	ĭ h	ĭ h	0.0˙ 20.0 [%]	0.0 [%]	
P15.34	h	h	0.00˙ 2.00 [s]	0.00 [s]	
P15.35	ĭ h	ĭ h	0.00˙ 2.00 [s]	0.00 [s]	
P15.36	h	h	0.00˙ 2.00 [s]	0.50 [s]	
P15.37	ĭ h	ĭ h	0.00˙ 2.00 [s]	0.50 [s]	

8.15 1 ǎ V/F P16

w	O		ﻣﺨ	V	
P16.0	~ ۱	~ ۱	320˙ 460 [V]	380 [V]	
P16.2	w	ǎ	0.0˙ 4000.0 [kW]	ﻗﻤﻢ [kW]	
P16.3	۱	ǎ	320˙ 460 [V]	380 [V]	
P16.4		ǎ	0.0˙ 6500.0 [A]	ﻗﻤﻢ [A]	
P16.5		ǎ	0.0˙ 300.0 [Hz]	50.0 [Hz]	
P16.6		ǎ	0˙ 6000 [rpm]	1465 [rpm]	
P16.7		ǎ	2˙ 12 [pole]	4 [pole]	
P16.9	□	ǎ	0˙ 7200 [rpm]	1500 [rpm]	
P16.11	L	[0]V/F L [1] [2] [3] ﻋﺠ [4]	0˙ 4	0	
P16.12			1.00˙ 10.00 [kHz]	3.00 [kHz]	
P16.14	V/F	[0] V/F [1] V/F [2]ﻫﻮ	0˙ 3	0	
P16.15	ẽ	[0] [1] ą	0˙ 1	0	
P16.16	ẽ	ẽ	2˙ 500 [ms]	500 [ms]	
P16.17	V/F L	[0] L [1] L	0˙ 1	0	
P16.18	ẽ	ẽ	10˙ 1000 [ms]	200 [ms]	
P16.19	ﻉ	[0]ﺽ [1]	0˙ 1	0	

P16.22			0.00 ~ 100.00 [s]	0.00 [s]
P16.23	V/F		0.00 ~ 300.00 [Hz]	0.00 [Hz]
P16.24	V/F		0.00 ~ 300.00 [Hz]	50.00 [Hz]
P16.25			0.0 ~ 120.0 [%]	100.0 [%]
P16.26	V/F	V/F	0.00 ~ 10.00 [%]	0.75 [%]
P16.27			0.0 ~ 200.0 [%]	100.0 [%]
P16.30			0.0 ~ 100.0 [%]	0.0 [%]
P16.33	V/F	V/F	0 ~ 6	2
P16.34	V/F		0.00 ~ 300.00 [Hz]	5.0 [Hz]
P16.35	V/F		0.0 ~ 12/(	

[

P16.48

8.16 2 ă V/F P17

w	O		ض	٧
P17.0	~ ١	~ ١	320˙ 460 [V]	380 [V]
P17.2	w	ă	0.0˙ 4000.0 [kW]	ق [kW]
P17.3	١	ă	320˙ 460 [V]	380 [V]
P17.4		ă	0.0˙ 6500.0 [A]	ق [A]
P17.5		ă	0.0˙ 300.0 [Hz]	50.0 [Hz]
P17.6		ă	0˙ 6000 [rpm]	1465 [rpm]
P17.7		ă	2˙ 12 [pole]	4 [pole]
P17.9		ă	0˙ 7200 [rpm]	1500 [rpm]
P17.11		[0]V/F [1] [2] [3] [4]	0˙ 4	0
P17.12			1.00˙ 10.00 [kHz]	3.00

0

P17.22	Ω	Ω	0.00˙ 100.00 [s]	0.00 [s]
P17.23	V/F	^ ǎ ٧ ض Ŭ ~	0.00˙ 300.00 [Hz]	0.00 [Hz]
P17.24	V/F	^ ǎ ٧ ض Ŭ ~	0.00˙ 300.00 [Hz]	50.00 [Hz]
P17.25			0.0˙ 120.0 [%]	100.0 [%]
P17.26	V/FΩ ٨ Ẓ	V/FΩ ٨ Ẓ	0.00˙ 10.00 [%]	0.75 [%]
P17.27	₣ ٨	₣ ٨	0.0˙ 200.0 [%]	100.0 [%]
P17.30	ʜ Ω ٨ ẽ	ʜ Ω ٨ ẽ	0.0˙ 100.0 [%]	0.0 [%]
P17.33	V/F	V/F	0˙ 6	2
P17.34	V/F 1		0.0˙ 300.0 [Hz]	5.0 [Hz]
P17.35	V/F ٨ 1		0.0˙ 125.0 [%]	11.5 [%]
P17.36	V/F 2		0.0˙ 300.0 [Hz]	50.0 [Hz]
P17.37	V/F ٨ 2		0.0˙ 125.0 [%]	100.0 [%]
P17.38	V/F 3		0.0˙ 300.0 [Hz]	50.0 [Hz]
P17.39	V/F ٨ 3		0.0˙ 125.0 [%]	100.0 [%]
P17.40	V/F 4		0.0˙ 300.0 [Hz]	50.0 [Hz]
P17.41	V/F ٨ 4		0.0˙ 125.0 [%]	100.0 [%]
P17.42	V/F 5		0.0˙ 300.0 [Hz]	50.0 [Hz]
P17.43	V/F ٨ 5		0.0˙ 125.0 [%]	100.0 [%]
P17.44	V/F 6		0.0˙ 300.0 [Hz]	50.0 [Hz]
P17.45	V/F ٨ 6		0.0˙ 125.0 [%]	100.0 [%]
P17.46	V/F @ ﺵﺠ		0˙ 300	0
P17.47	٨ @ ﺵﺠ		0˙	

P17.48		[0] [1]PID شج1 [2]PID شج2 [3] w شج	0˙ 3	0	
P17.49	@ شج		0˙ 300	0	
P17.50	Ω L	Ω L	0.00˙ 300.00 [s]	0.00 [s]	
P17.51	Ω L	Ω L	0.0˙ 150.0 [%]	70.0 [%]	
P17.52	Ω L	Ω L	0.00˙ 5.00 [Hz]	0.00 [Hz]	
P17.54	Å L	Å L	0.00˙ 300.00 [s]	0.00 [s]	
P17.55	Å L	Å L	0.0˙ 150.0 [%]	75.0 [%]	
P17.56	Å L	Å L	0.00˙ 5.00 [Hz]	0.00 [Hz]	
P17.59	Ḡ ɒ	Ḡ ɒ	0.0˙ 1000.0 [%]	100.0 [%]	
P17.60	Ḡ №	Ḡ №	0.0˙ 1000.0 [%]	100.0 [%]	
P17.61	۱ L ɒ	۱ L ɒ	0.0˙ 1000.0 [%]	100.0 [%]	
P17.62	۱ L №	۱ L №	0.0˙ 1000.0 [%]	100.0 [%]	
P17.64	V/F ƀ	V/F ƀ	0.0˙ 1000.0 [%]	100.0 [%]	
P17.66	L ɒ	V/F Ѝ L ɒ	0.0˙ 1000.0 [%]	100.0 [%]	
P17.67	Ω L ɒ	Ω L ɒ	0.0˙ 1000.0 [%]	100.0 [%]	
P17.68	Ω L №	Ω L №	0.0˙ 1000.0 [%]	100.0 [%]	
P17.69	Å L ɒ	Å L ɒ	0.0˙ 1000.0 [%]	100.0 [%]	
P17.70	Å L №	Å L №	0.0˙ 1000.0 [%]	100.0 [%]	

8.17 3 ǎ V/F P18

w	O		ض	ỵ	
P18.0	~ ۱	~ ۱	320˙ 460 [V]	380 [V]	
P18.2	w	ǎ	0.0˙ 4000.0 [kW]	۾ [kW]	
P18.3	۱	ǎ	320˙ 460 [V]	380 [V]	
P18.4		ǎ	0.0˙ 6500.0 [A]	۾ [A]	
P18.5		ǎ	0.0˙ 300.0 [Hz]	50.0 [Hz]	
P18.6		ǎ	0˙ 6000 [rpm]	1465 [rpm]	
P18.7		ǎ	2˙ 12 [pole]	4 [pole]	
P18.9	□	ǎ	0˙ 7200 [rpm]	1500 [rpm]	
P18.11	L	[0]V/F L [1] [2] [3] ۼ [4]	0˙ 4	0	
P18.12			1.00˙ 10.00 [kHz]	3.00 [kHz]	
P18.14	V/F	[0] V/F [1] V/F [2]ԋ	0˙ 3	0	
P18.15	ẽ	[0] [1] ą	0˙ 1	0	
P18.16	ẽ	ẽ	2˙ 500 [ms]	500 [ms]	
P18.17	V/F L	[0] L [1] L	0˙ 1	0	
P18.18	ẽ	ẽ	10˙ 1000 [ms]	200 [ms]	
P18.19	ȝ	[0]ض [1]	0˙ 1	0	

P18.22	Ω¬	Ω¬	0.00˙ 100.00 [s]	0.00 [s]	
P18.23		^ ă ٧ ض V/F L Й ~	0.00˙ 300.00 [Hz]	0.00 [Hz]	
P18.24		^ ă ٧ ض V/F L Й ~	0.00˙ 300.00 [Hz]	50.00 [Hz]	
P18.25	L	L	0.0˙ 120.0 [%]	100.0 [%]	
P18.26	V/FΩ¬ ۱ Ẓ	V/FΩ¬ ۱ Ẓ	0.00˙ 10.00 [%]	0.75 [%]	
P18.27	₣ ۱	₣ ۱	0.0˙ 200.0 [%]	100.0 [%]	
P18.30	ʜ Ω¬ ۱ ẽ	ʜ Ω¬ ۱ ẽ	0.0˙ 100.0 [%]	0.0 [%]	
P18.33	V/F	V/F	0˙ 6	2	
P18.34	V/F 1		0.0˙ 300.0 [Hz]	5.0 [Hz]	
P18.35	V/F ۱ 1		0.0˙ 125.0 [%]	11.5 [%]	
P18.36	V/F 2		0.0˙ 300.0 [Hz]	50.0 [Hz]	
P18.37	V/F ۱ 2		0.0˙ 125.0 [%]	100.0 [%]	
P18.38	V/F 3		0.0˙ 300.0 [Hz]	50.0 [Hz]	
P18.39	V/F ۱ 3		0.0˙ 125.0 [%]	100.0 [%]	
P18.40	V/F 4		0.0˙ 300.0 [Hz]	50.0 [Hz]	
P18.41	V/F ۱ 4		0.0˙ 125.0 [%]	100.0 [%]	
P18.42	V/F 5		0.0˙ 300.0 [Hz]	50.0 [Hz]	
P18.43	V/F ۱ 5		0.0˙ 125.0 [%]	100.0 [%]	
P18.44	V/F 6		0.0˙ 300.0 [Hz]	50.0 [Hz]	
P18.45	V/F ۱ 6		0.0˙ 125.0 [%]	100.0 [%]	
P18.46	V/F @ ۺ		0˙ 300	0	
P18.47	۱ @ ۺ		0˙ 300	0	

P18.48		[0] [1]PID شج1 [2]PID شج2 [3] w شج	0˙ 3	0	
P18.49	@ شج		0˙ 300	0	
P18.50	Ω L	Ω L	0.00˙ 300.00 [s]	0.00 [s]	
P18.51	Ω L	Ω L	0.0˙ 150.0 [%]	70.0 [%]	
P18.52	Ω L	Ω L	0.00˙ 5.00 [Hz]	0.00 [Hz]	
P18.54	Å L	Å L	0.00˙ 300.00 [s]	0.00 [s]	
P18.55	Å L	Å L	0.0˙ 150.0 [%]	75.0 [%]	
P18.56	Å L	Å L	0.00˙ 5.00 [Hz]	0.00 [Hz]	
P18.59	Ḡ ɒ	Ḡ ɒ	0.0˙ 1000.0 [%]	100.0 [%]	
P18.60	Ḡ №	Ḡ №	0.0˙ 1000.0 [%]	100.0 [%]	
P18.61	۱ L ɒ	۱ L ɒ	0.0˙ 1000.0 [%]	100.0 [%]	
P18.62	۱ L №	۱ L №	0.0˙ 1000.0 [%]	100.0 [%]	
P18.64	V/F ƀ	V/F ƀ	0.0˙ 1000.0 [%]	100.0 [%]	
P18.66	L ɒ	V/F Ѝ L ɒ	0.0˙ 1000.0 [%]	100.0 [%]	
P18.67	Ω L ɒ	Ω L ɒ	0.0˙ 1000.0 [%]	100.0 [%]	
P18.68	Ω L №	Ω L №	0.0˙ 1000.0 [%]	100.0 [%]	
P18.69	Å L ɒ	Å L ɒ	0.0˙ 1000.0 [%]	100.0 [%]	
P18.70	Å L №	Å L №	0.0˙ 1000.0 [%]	100.0 [%]	

8.18 4 ă V/F P19

w	O			
P19.0	~ ۱		~ ۱	320˙ 460 [V]	380 [V]
P19.2	w		ă	0.0˙ 4000.0 [kW]	۴۴ [kW]
P19.3	۱		ă	320˙ 460 [V]	380 [V]
P19.4			ă	0.0˙ 6500.0 [A]	۴۴ [A]
P19.5			ă	0.0˙ 300.0 [Hz]	50.0 [Hz]
P19.6			ă	0˙ 6000 [rpm]	1465 [rpm]
P19.7			ă	2˙ 12 [pole]	4 [pole]
P19.9	□		ă	0˙ 7200 [rpm]	1500 [rpm]
P19.11	L	[0]V/F L [1] [2] [3] ۶ [4]		0˙ 4	0
P19.12				1.00˙ 10.00 [kHz]	3.00 [kHz]
P19.14 V/F		[0] V/F [1] V/F [2] ʜ		0˙ 3	0
P19.15	ẽ	[0] [1] ą		0˙ 1	0
P19.16	ẽ		ẽ	2˙ 500 [ms]	500 [ms]
P19.17 V/F	L	[0] L [1] L		0]	

P19.22	Ω¬	Ω¬	0.00˙ 100.00 [s]

P19.48		[0] [1]PID شجـ1 [2]PID شجـ2 [3] w شجـ	0˙ 3	0	
P19.49	@ شجـ		0˙ 300	0	
P19.50	Ω˗ L˗	Ω˗ L˗	0.00˙ 300.00 [s]	0.00 [s]	
P19.51	Ω˗ L˗	Ω˗ L˗	0.0˙ 150.0 [%]	70.0 [%]	
P19.52	Ω˗ L˗	Ω˗ L˗	0.00˙ 5.00 [Hz]	0.00 [Hz]	
P19.54	Å L˗	Å L˗	0.00˙ 300.00 [s]	0.00 [s]	
P19.55	Å L˗	Å L˗	0.0˙ 150.0 [%]	75.0 [%]	
P19.56	Å L˗	Å L˗	0.00˙ 5.00 [Hz]	0.00 [Hz]	
P19.59	Ḡ ɒ	Ḡ ɒ	0.0˙ 1000.0 [%]	100.0 [%]	
P19.60	Ḡ №	Ḡ №	0.0˙ 1000.0 [%]	100.0 [%]	
P19.61 ۱ L ɒ	۱ L ɒ		0.0˙ 1000.0 [%]	100.0 [%]	
P19.62 ۱ L №	۱ L №		0.0˙ 1000.0 [%]	100.0 [%]	
P19.64 V/F ƀ	V/F ƀ		0.0˙ 1000.0 [%]	100.0 [%]	
P19.66	L ɒ	V/F Ѝ L ɒ	0.0˙ 1000.0 [%]	100.0 [%]	
P19.67	Ω˗ L˗ ɒ	Ω˗ L˗ ɒ	0.0˙ 1000.0 [%]	100.0 [%]	
P19.68	Ω˗ L˗ №	Ω˗ L˗ №	0.0˙ 1000.0 [%]	100.0 [%]	
P19.69	Å L˗ ɒ	Å L˗ ɒ	0.0˙ 1000.0 [%]	100.0 [%]	
P19.70	Å L˗ №	Å L˗ №	0.0˙ 1000.0 [%]	100.0 [%]	

8.19 L P2

W			ض	ỵ
P20.0	L	[0] [1] ą	0˙ 1	0
P20.1		[0] ₣ [1] ~ 1 [2] ~ 2 [3] ƀ [4] ă ' P20.3 ỵ [5]DP [6]MODBUS [7] W شبج	0˙ 7	0
P20.2		□	0˙ 7	0
P20.3	ھ ỵ	ھ ỵ	-300.0˙ 300.0 [%]	0.0 [%]
P20.4	@ شبج		0˙ 300	0
P20.5	~ ỵ		0˙ 1000 [ms]	0 [ms]
P20.6			0.0˙ 200.0 [%]	100.0 [%]
P20.7	L ỵ	[0] ṗ L ỵ [1] ă ' P20.8 غ P20.9 [2] ~ 1 [3] ~ 2 [4] ƀ [5]DP [6]MODBUS [7] W شبج	0˙ 7	0
P20.8	h L ỵ	P20.7 [1] ỵ	0.0˙ 300.0 [%]	200.0 [%]
P20.9	ǐ h L ỵ			

. EÃ P €ÐfÀ %

P20.13	ᵀ	ᵀ	20.0˙ 500.0 [ms]	100.0 [ms]	
P20.14	ح ‖	1ثم ‖	0˙ 60000	1024	
P20.15	ح ĭ h	[0] [1] ą	0˙ 1	0	
P20.16	h	h ^ ₇ ضي ˪Ŭ˛ ~	0.0˙ 300.0 [%]	100.0 [%]	
P20.17	ĭ h	ĭ h ^ ₇ ضي ˪Ŭ˛ ~	0.0˙ 300.0 [%]	100.0 [%]	
P20.18	h	h ^ ₇ ضي ˪Ŭ˛ ~	0.0˙ 300.0 [%]	0.0 [%]	
P20.19	ĭ h	ĭ h ^ ₇ ضي ˪Ŭ˛ ~	0.0˙ 300.0 [%]	0.0 [%]	
P20.20	w ˪ą	[0] [1] ą	0˙ 1	0	
P20.21	w ˪	[0] قمم [1] قمم	0˙ 1	0	
P20.22	˪ẏ	ă ضي w Ŭ˛	0.0˙ 300.0 [%]	160.0 [%]	
P20.23	ẏ	ă ضي w Ŭ˛	0.0˙ 200.0 [%]	20.0 [%]	
P20.24	˪ẏ	ă ضي w Ŭ˛	0.0˙ 300.0 [%]	100.0 [%]	
P20.25	ẏ	ă ضي w Ŭ˛	0.0˙ 200.0 [%]	100.0 [%]	
P20.26	β	β	0.0˙ 1000.0 [%]	0.0 [%]	
P20.27	β ẽ	β ₹ ˪ẏ˜	0.00˙ 15.00 [%]	2.00 [%]	
P20.28	˪ ˪	[0] ẏ' ỉ ɢ P20.16 غ P20.17 [1] تمج ~ [2] تمج ₹ [3]DP	0˙ 3	0	
P20.30	Ẓ ^ Ŭ˛˜	[0] Ẓ ẏ' ɢ P20.31 غ P20.32 ẏ Ẓ [1] ˜ 1 [2] ˜ 2 [3]	0˙ 3	0	

P20.31		Ẓ			Ẓ	ṿ	0.0˙ 100.0 [%] 5.0 [%]
P20.32	ǐ	Ẓ		ǐ	Ẓ	ṿ	0.0˙ 100.0 [%] 5.0 [%]

P20.53	:	└ Kp	└ ر ɒ	0.0 1000.0 [%]	100.0 [%]
P20.54	:	└ Ki	└ ر №	0.0 1000.0 [%]	100.0 [%]
P20.55		ɒ	└ ر ɒ	0.0 1000.0 [%]	100.0 [%]
P20.56		№	└ ر №	0.0 1000.0 [%]	

P20.77		2		ض	2	90.0 · 110.0 [%] 100.0 [%]
P20.78						0.00 · 650.00 [mOhm] 0.00 [mOhm]
P20.79						0.00 · 65.50 [mH] 0.000 [mH]
P20.80	غ	1		غ	1	0.800 · 1.350 1.140
P20.81	غ	2		غ	2	0.800 · 1.350 0.940
P20.82	غ	3		غ	3	0.800 · 1.350 1.080
P20.83	غ	4		غ	4	0.800 · 1.350 0.950
P20.84						0.00 · 655.00 [mH] 0.00 [mH]
P20.85			ش85%	85%	ε	40.0 · 150.0 [%] 108.0 [%]
P20.86			ش87.5%	87.5%	ε	40.0 · 150.0 [%] 106.5 [%]
P20.87			ش90%	90%	ε	40.0 · 150.0 [%] 105.0 [%]
P20.88			ش92.5%	92.5%	ε	40.0 · 150.0 [%] 103.5 [%]
P20.89			ش95%	95%	ε	40.0 · 150.0 [%] 102.0 [%]
P20.90			ش102.5%	102.5%	ε	40.0 · 150.0 [%] 99.0 [%]
P20.91			ش105%	105%	ε	40.0 · 150.0 [%] 96.5 [%]
P20.92			ش110%	110%	ε	40.0 · 150.0 [%] 93.0 [%]
P20.93			ش115%	115%	ε	40.0 · 150.0 [%] 88.5 [%]
P20.94			ش120%	120%	ε	40.0 · 150.0 [%] 83.0 [%]
P20.95			ش125%	125%	ε	40.0 · 150.0 [%] 77.0 [%]
P20.96			ش130%	130%	ε	40.0 · 150.0 [%] 70.5 [%]
P20.97			ش135%	135%	ε	40.0 · 150.0 [%] 63.5 [%]
P20.98					(٢)	0.01 · 300.00 [s] 0.75 [s]

8.20 2 L P21

w	O		ض	ỵ	
P21.0	L	[0] [1] ą	0˙ 1	0	
P21.1		[0] ₮ [1] ˜ 1 [2] ˜ 2 [3] ƀ [4] ă ' P21.3 ỵ [5]DP [6]MODBUS [7] w شج	0˙ 7	0	
P21.2		□;:	0˙ 7	0	
P21.3	ھ ỵ	ھ ỵ	-300.0˙ 300.0 [%]	0.0 [%]	
P21.4	@ شج		0˙ 300	0	
P21.5	˜ ỵ		0˙ 1000 [ms]	0 [ms]	
P21.6			0.0˙ 200.0 [%]	100.0 [%]	
P21.7	L ỵ	[0] ṗ L ỵ [1] ă ' P21.8 غ P21.9 [2] ˜ 1 [3] ˜ 2 [4] ƀ [5]DP [6]MODBUS [7] w شج	0˙ 7	0	
P21.8	h L ỵ	P21.7 [1] ỵ	0.0˙ 300.0 [%]	200.0 [%]	
P21.9	ĭ h L ỵ	P21.7 [1] ỵ	0.0˙ 300.0 [%]	200.0 [%]	
P21.10	L ỵ شج		0˙ 300	0	
P21.11	L		0˙ 1000 [ms]	0 [ms]	
P21.13	T	T	20.0˙ 500.0 [ms]	100.0 [ms]	

P21.14	ر ǁ	1ثم ǁ	0˙ 60000	1024	
P21.15	ر ǐ h	[0] [1] ą	0˙ 1	0	
P21.16	h	h ^ ז ضي ┗Ǐ ~	0.0˙ 300.0 [%]	100.0 [%]	
P21.17	ǐ h	ǐ h ^ ז ضي ┗Ǐ ~	0.0˙ 300.0 [%]	100.0 [%]	
P21.18	h	h ^ ז ضي ┗Ǐ ~	0.0˙ 300.0 [%]	0.0 [%]	
P21.19	ǐ h	ǐ h ^ ז ضي ┗Ǐ ~	0.0˙ 300.0 [%]	0.0 [%]	
P21.20	w ┗ą	[0] [1] ą	0˙ 1	0	
P21.21	w ┗	[0] قمم [1] قمم	0˙ 1	0	
P21.22	┗ ụ	ă ضي w Ǐ	0.0˙ 300.0 [%]	160.0 [%]	
P21.23	ụ	ă ضي w Ǐ	0.0˙ 200.0 [%]	20.0 [%]	
P21.24	┗ ụ	ă ضي w Ǐ	0.0˙ 300.0 [%]	100.0 [%]	
P21.25	ụ	ă ضي w Ǐ	0.0˙ 200.0 [%]	100.0 [%]	
P21.26	β	β	0.0˙ 1000.0 [%]	0.0 [%]	
P21.27	β ẽ	β ₹ ┗ ụ˘	0.00˙ 15.00 [%]	2.00 [%]	
P21.28	┗ ┗	[0] ụ' Ỉ G P21.16 غ P21.17 [1] تمج ~ [2] تمج ₹ [3]DP	0˙ 3	0	
P21.30	Ẓ ^ Ǐ˜	[0] Ẓ ụ' G P21.31 غ P21.32 ụ Ẓ [1] ~ 1 [2] ~ 2 [3]	0˙ 3	0	
P21.31	Ẓ	Ẓ ụ	0.0˙ 100.0 [%]	5.0 [%]	

P21.54	:	└ Ki	└ ر №	0.0˙ 1000.0 [%] 100.0 [%]
P21.55		ɒ	└ ر ɒ	0.0˙ 1000.0 [%] 100.0 [%]
P21.56		№	└ ر №	0.0˙ 1000.0 [%] 100.0 [%]
P21.57		ą	[0] [1] ą	0˙ 1 0
P21.58			ش ṿ	0.0˙ 125.0 [%] 100.0 [%]
P21.59		Ả U :	ش Ả U : ṿ	1.0˙ 25.0 [%] 2.5 [%]
P21.60	DROOP	└	ч 0 ˘ DROOP └	0.0˙ 100.0 [%] 0.0 [%]
P21.61	DROOP	└	DROOP └ ذ Â ŭ ـ ġ ˘ ṿ	30˙ 2000 [ms] 50 [ms]
P21.62		ɒ	└ ر ɒ	0.0˙ 1000.0 [%] 100.0 [%]
P21.63		№	└ ر №	0.0˙ 1000.0 [%] 100.0 [%]
P21.66		1	└ 1	0.0˙ 1000.0 [%] 100.0 [%]
P21.67		└		

P21.78			0.00 650.00 [mOhm]	0.00 [mOhm]
P21.79			0.00 65.50 [mH]	0.000 [mH]
P21.80	غ 1	غ 1	0.800 1.350	1.140
P21.81	غ 2	غ 2	0.800	

8.21 3 L P22

w	O			ض	ṿ
P22.0	L	[0] [1] ą		0˙ 1	0
P22.1		[0] ₮ [1] ˜ 1 [2] ˜ 2 [3] ƀ [4] ǎ ' P22.3 ṿ [5]DP [6]MODBUS [7] w شبر		0˙ 7	0
P22.2		□		0˙ 7	0
P22.3 ₩	ṿ	₩	ṿ		

P22.31	Ẓ	Ẓ ṿ	0.0˙ 100.0 [%]	5.0 [%]	
P22.32	ǐ Ẓ	ǐ Ẓ ṿ	0.0˙ 100.0 [%]	5.0 [%]	
P22.34	ẽ ą	[0] [1] ą	0˙ 1	0	
P22.35	ش Ḡ	Ả U ش Ḡ	0.0˙ 100.0 [s]	0.0 [s]	
P22.36	Ꙋ ش	Ꙋ ش ṿ	50.0˙ 150.0 [%]	110.0 [%]	
P22.37	Ꙋ	Ꙋ	0.0˙ 150.0 [%]	100.0 [%]	
P22.38	Ꙋ	Ꙋ	0.0˙ 100.0 [%]	25.0 [%]	
P22.39			0.0˙ 120.0 [%]	100.0 [%]	
P22.40			0.0˙ 150.0 [%]	100.0 [%]	
P22.41			0.0˙ 150.0 [%]	135.0 [%]	
P22.42	w	[0] [1] ą	0˙ 1	1	
P22.43			25˙ 1000 [ms]	75 [ms]	
P22.44		ˆ w Й ƀ ~	25˙ 1000 [ms]	250 [ms]	
P22.45	h ṿ	ă ض w Й ˆ ~	0.0˙ 100.0 [%]	22.0 [%]	
P22.46	ǐ h ṿ	ă ض w Й	0.0˙ 100.0 [%]	18.0 [%]	
P22.47	h ṿ	ă ض w Й	0.0˙ 200.0 [%]	92.0 [%]	
P22.48	ǐ h ṿ	ă ض w Й	0.0˙ 200.0 [%]	87.0 [%]	
P22.49	ṿ	ă ض w Й	0.0˙ 150.0 [%]	100.0 [%]	
P22.51	۱ L ɒ	۱ L ɒ	0.0˙ 1000.0 [%]	100.0 [%]	
P22.52	۱ L №	۱ L №	0.0˙ 1000.0 [%]	100.0 [%]	

P22.53	:	└ Kp	└ ر ɒ	0.0˙ 1000.0 [%] گ

P22.77		2		ضي	2	90.0 110.0 [%] 100.0 [%]
P22.78						0.00 650.00 [mOhm] 0.00 [mOhm]
P22.79						0.00 65.50 [mH] 0.000 [mH]
P22.80	غج	1		غج	1	0.800 1.350 1.140
P22.81	غج	2		غج	2	0.800 1.350 0.940
P22.82	غج	3		غج	3	0.800 1.350 1.080
P22.83	غج	4		غج	4	0.800

8.22 4 L P23

w	O			ۂ	ṿ
P23.0	L	[0] [1] ą		0˙ 1	0
P23.1		[0] ₮ [1] ˜ 1 [2] ˜ 2 [3] ƀ [4] ă ' [5]DP [6]MODBUS [7] w ۺ	P23.3 ṿ	0˙ 7	0
P23.2		□,:		0˙ 7	0
P23.3	ۿ ṿ	ۿ ṿ		-300.0˙ 300.0 [%]	0.0 [%]
P23.4	@ ۺ			0˙ 300	0
P23.5	˜ ṿ				

P23.14	ر	ll		1شم	ll	0˙ 60000	1024
P23.15	ر	ا h	[0] [1] ą			0˙ 1	0
P23.16	h		h ضِ ˆ ˏ	┖Й	~	0.0˙ 300.0 [%]	100.0 [%]
P23.17	ا h		ا h ضِ ˆ ˏ	┖Й	~	0.0˙ 300.0 [%]	100.0 [%]
P23.18	h		h ضِ ˆ ˏ	┖Й	~	0.0˙ 300.0 [%]	0.0 [%]
P23.19	ا h		ا h ضِ ˆ ˏ	┖Й	~	0.0˙ 300.0 [%]	0.0 [%]
P23.20		w	┖ą				

Ь5З.ЗЗ		┌ ٧	ą ٿ	w	Ν	[ظ] 0˙0. 300˙0	
Ь5З.5З	w	┌	[Ι] [0]	ظ ظ		0. Ι	0

Ь5Ι

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P23.54	:	└ Ki	└ ر №	0.0˙ 1000.0 [%] 100.0 [%]
P23.55		ם	└ ر ם	0.0˙ 1000.0 [%] 100.0 [%]
P23.56		№	└ ر №	0.0˙ 1000.0 [%] 100.0 [%]
P23.57	ą		[0] [1] ą	0˙ 1 0
P23.58			ش ṿ	0.0˙ 125.0 [%] 100.0 [%]
P23.59	ẢU:		ش ẢU: ṿ	1.0˙ 25.0 [%] 2.5 [%]
P23.60	DROOP └		ч 0 ˘ DROOP └	0.0˙ 100.0 [%] 0.0 [%]
P23.61	DROOP └		DROOP └ ذ Â ΰ ـ غ ˘ ṿ	30˙ 2000 [ms] 50 [ms]
P23.62		ם	└ ر ם	0.0˙ 1000.0 [%] 100.0 [%]

P23.78

P33.18	[W2]	~	[0] ¦ 1 [1] ¦ 10 [2] ¦ 100 [3] ¦ 1000 [4] ¦ 10000	0.4	0
P33.19		~ [W3]	7-2	0.37	0
P33.20	[W3]	~	[0] ¦ 1 [1] ¦ 10 [2] ¦ 100 [3] ¦ 1000 [4] ¦ 10000	0.4	0
P33.21		~ [W4]	7-2	0.37	1
P33.22	[W4]	~	[0] ¦ 1 [1] ¦ 10 [2] ¦ 100 [3] ¦ 1000 [4] ¦ 10000	0.4	0
P33.23		~ [W5]	7-2	0.37	18
P33.24	[W5]	~	[0] ¦ 1 [1] ¦ 10 [2] ¦ 100 [3] ¦ 1000 [4] ¦ 10000	0.4	2
P33.25		~ [W6]	7-2	0.37	21
P33.26	[W6]	~	[0] ¦ 1 [1] ¦ 10 [2] ¦ 100 [3] ¦ 1000 [4] ¦ 10000	0.4	1
P33.27		~ [W7]	7-2	0.37	22
P33.28	[W7]	~	[0] ¦ 1 [1] ¦ 10 [2] ¦ 100 [3] ¦ 1000 [4] ¦ 10000	0.4	1
P33.29		~ [W8]	7-2	0.37	23

P33.31	~ [W9]	7-2	0˙ 37	0	
P33.32	~ [W9]	[0] ¦ 1 [1] ¦ 10 [2] ¦ 100 [3] ¦ 1000 [4] ¦ 10000	0˙ 4	0	
P33.33	~ [W10]	7-2	0˙ 37	0	
P33.34	~ [W10]	[0] ¦ 1 [1] ¦ 10 [2] ¦ 100 [3] ¦ 1000 [4] ¦ 10000	0˙ 4	0	
P33.35	~ [W11]	7-2	0˙ 37	0	
P33.36	~ [W11]	[0] ¦ 1 [1] ¦ 10 [2] ¦ 100 [3] ¦ 1000 [4] ¦ 10000	0˙ 4	0	
P33.37	~ [W12]	7-2	0˙ 37	0	
P33.38	~ [W12]	[0] ¦ 1 [1] ¦ 10 [2] ¦ 100 [3] ¦ 1000 [4] ¦ 10000	0˙ 4	0	
P33.39	~ [W13]	7-2	0˙ 37	0	
P33.40	~ [W13]	[0] ¦ 1 [1] ¦ 10 [2] ¦ 100 [3] ¦ 1000 [4] ¦ 10000	0˙ 4	0	
P33.41	~ [W14]	7-2	0˙ 37	0	
P33.42	~ [W14]	[0] ¦ 1 [1] ¦ 10 [2] ¦ 100 [3] ¦ 1000 [4] ¦ 10000	0˙ 4	0	
P33.43	~ [W15]	7-2	0˙ 37	0	

P33.54	[W4]	₹	[0] ¦ 1 [1] ¦ 10 [2] ¦ 100 [3] ¦ 1000 [4] ¦ 10000 [5][%] ¦ 1 [6][%] ¦ 10 [7][%] ¦ 100	0˙ 7	0
P33.55		₹ [W5]	7-3	0˙ 48	19
P33.56	[W5]	₹	[0] ¦ 1 [1] ¦ 10 [2] ¦ 100 [3] ¦ 1000 [4] ¦ 10000 [5][%] ¦ 1 [6][%] ¦ 10 [7][%] ¦ 100	0˙ 7	2
P33.57		₹ [W6]	7-3	0˙ 48	26
P33.58	[W6]	₹	[0] ¦ 1 [1] ¦ 10 [2] ¦ 100 [3] ¦ 1000 [4] ¦ 10000 [5][%] ¦ 1 [6][%] ¦ 10 [7][%] ¦ 100	0˙ 7	6
P33.59		₹ [W7]	7-3	0˙ 48	30
P33.60	[W7]	₹	[0] ¦ 1 [1] ¦ 10 [2] ¦ 100 [3] ¦ 1000 [4] ¦ 10000 [5][%] ¦ 1 [6][%] ¦ 10 [7][%] ¦ 100	0˙ 7	1
P33.61		₹ [W8]	7-3	0˙ 48	14

P33.70	[W12]	₹	[0] ¦ 1 [1] ¦ 10 [2] ¦ 100 [3] ¦ 1000 [4] ¦ 10000 [5][%] ¦ 1 [6][%] ¦ 10 [7][%] ¦ 100	0.7	0
P33.71		₹ [W13]	7-3	0.48	0
P33.72	[W13]	₹	[0] ¦ 1 [1] ¦ 10 [2] ¦ 100 [3] ¦ 1000 [4] ¦ 10000 [5][%] ¦ 1 [6][%] ¦ 10 [7][%] ¦ 100	0.7	0
P33.73		₹ [W14]	7-3	0.48	0
P33.74	[W14]	₹	[0] ¦ 1 [1] ¦ 10 [2] ¦ 100 [3] ¦ 1000 [4] ¦ 10000 [5][%] ¦ 1 [6][%] ¦ 10 [7][%] ¦ 100	0.7	0
P33.75		₹ [W15]	7-3	0.48	0
P33.76	[W15]	₹	[0] ¦ 1 [1] ¦ 10 [2] ¦ 100 [3] ¦ 1000 [4] ¦ 10000 [5][%] ¦ 1 [6][%] ¦ 10 [7][%] ¦ 100	0.7	0

7-2 ˜

ỵ	
0	Ь ą
1	└ 0
2	└ 1
3	└ 2
4	└ 3
5	└ 4
6	ᔕ β [32]
7	ᔕ ᵞ β [32]
8	32_MSW
9	32_LSW
10	∓
11	ă̈ └
12	ă̈ 0 @32bit
13	ă̈ 1 @32bit
14	ă̈ 2 @32bit
15	ă̈ 3 @32bit
16	ă̈ 4 @32bit
17	ă̈ 5 @32bit
18	[Hz]
19	[rpm]
20	[%]
21	[%]
22	└ ỵ [%]
23	└ ỵ [Hz]
24	ᴡ
25	ᴡ
26	∓ 1[%]
27	∓ 2[%]
28	ᵛ └
29	⋮ └
30˙ 37	SET_W12˙ 19

7-3 ₹

Ṿ

0	Ь ą
1	0
2	1
3	2
4	3
5	4
6	5
7	ă 0 @32bit
8	ă 1 @32bit
9	ă 2 @32bit
10	ă 3 @32bit
11	ă 4 @32bit
12	ă 5 @32bit
13	⍲ β [32]
14	⍲ ٧ β [32]
15	32bit_MSW
16	32bit_LSW
17	~
18	₹
19	₹
20	ᵀ [rpm]
21	[rpm]
22	ɬ

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9.1 þ ٦

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WO1 ‰
SYS_NOT_RDY

9.2 ๅ

	ๅ	Ḥ
[E050]	U ⁘ ^ Ь˜ β˜ ERR_UT not reset	IGBT ๆ IGBT ⁻ ï ⁻ ๆ U ⁘
[E051]	U Ӣ ^ Ь˜ β˜ ERR_UT not reset	IGBT ๆ IGBT ⁻ ï ⁻ ๆ U ⁘
[E052]	V ⁘ ^ Ь˜ β˜ ERR_UT not reset	IGBT ๆ IGBT ⁻ ï ⁻ ๆ U ⁘
[E053]	V Ӣ ^ Ь˜ β˜ ERR_UT not reset	IGBT ๆ IGBT ⁻ ï ⁻ ๆ U ⁘
[E054]	W ⁘ ^ Ь˜ β˜ ERR_UT not reset	IGBT ๆ IGBT ⁻ ï ⁻ ๆ U ⁘
[E055]	W Ӣ ^ Ь˜ β˜ ERR_UT not reset	IGBT ๆ IGBT ⁻ ï ⁻ ๆ U ⁘
[E056]	ɾ ^ Ь˜ β˜ ERR_SLAVE_FAULT not reset	ɾ ๆ ɾ U ⁘
[E100]	ๅ OV	ă P8.35(⁞ 1) ì ă P7.12(ๅ)
[E105]	ๅ UV	⁒ ~ ๅ Ӣ ๅ ⌈ ì ⌊ ẏ ~ ~ ๅ ă P7.13(ๅ)
[E110]	OC	ĩ ᦵ Ţ˘ ’ ๆ ’ ᵛ ⁞ ’ ï̆ ì ๆ ’ ᦵ ĩ ๆ ’ ă P7.4(Ḡ [1]) ⁒ ๅ ˝Ḥ Ţ˘ ă P7.4(Ḡ)˘ ĩ ᦵ

[E113]	~ MIP	~ ٦
[E114]	₣ MOP	ï ر ₣ ⌡ ٦
[E115]	OS	ắ P7.19 ắ P7.19 ر ₰ ï ٦
[E116]	L SLVC Fail	¥ ⋮ ٦ ắ P7.23
[E117]	MOTOR STALL	L ر ر˜ ر ẹ ắ P20.14 à P20.15 ٦
[E118]	ر PG ERROR	ر ẹ ắ P20.14 à P20.15 ٦
[E119]	SPEED ABNORMAL	ر ẹ ắ P20.14 à P20.15 ٦ ắ P7.31˜ P7.32
[E121]	ï ر IGBT1 m "	



[E138]	TEMP_SENSING FAIL	
[E139]	Pre_Charging Fail	P7.95
[E140]	Line UV	
[E141]	Line OPEN	
[E142]	Line Detection Error	
[E143]	Line SW Fail	DI
[E144]	Line SW SHORT	
[E145]	Line OV	P16.0
[E146]	Line Over_Freq	
[E151]	U PDP [UT]	IGBT
[E152]	U PDP [UB]	IGBT
[E153]	V PDP [VT]	IGBT
[E154]	V PDP [VB]	IGBT
[E155]	W PDP [WT]	IGBT
[E156]	W PDP [WB]	IGBT

[E1]	ɾ SLVE FAULT	ɾ ٦
[E1]	ɾ ‰ SLV_NOT_RDY	ɾ ٦ Ð
[E162]	ɾ 1 SLV1_CAN_ERR	ɾ 1
[E163]	ɾ 2 SLV2_CAN_ERR	˘ ɾ 2 ٦
[E164]	ɾ 3 SLV3_CAN_ERR	˘ ɾ 3 ٦
[E165]	ɾ 4 SLV4_CAN_ERR	˘ ɾ 4 ٦
[E166]	ɾ 5 SLV5_CAN_ERR	˘ ɾ 5 ٦
[E170]	ӟ MOTOR TUNING FAIL	ắ ắ P7.33
[E180]	DP P/B ERROR	٧ ٦ ٦
[E181]	DP ɒ P/B_EM	˪ CW0.4
[E200]	ض LOCAL_EM	˜ ч [ض Ả Ḥ] ˘ Ḥ ắ P3 ˜ ắ ˘ ڪ ĩ
[E201]	REMOTE_EM	˜ ч [Ả Ḥ] ˘ Ḥ ắ P3 ˜ ắ ˘ ڪ ĩ
[E202]	Modbus MODBUS EMERGENCY	Modbus ˪ Ḥ ˘ ì
[E203]	˗ ˪ Ḥ DRIVE DISABLED	DP Ţ ˪ Ḥ ˪ Ţ Ḥ

10. Ь Ḡ Ī



1. ˜ D⌐ °° ƈ ˇ ⁘ ⁄ Â
   ⌝ Â
2. ╟ˇ Ⱶ ˇ ⁄ ˇ ₩ Â
   ⌝ Â
3. Ⓟ ɦ ɉ ˇ ŭ ѽ ʜ Uˇ ˆ Ḡ Ī à Â
   ⁘ φ ⁄ ⌝ Â
4. Ғ ʒ ¬ 2ˇ ˜ Ḡ Ī à ƀ Â
   ⌝ Â



1. ƀ à L à ⌐ ⁘ ↻ CMOS ˇ ą
   ≠ Â
   ˇ ˆ Ψ ɕ ⁘ Â
2. Ţˇ ˜ ť ǐ ⁄ Â
   ⌝ Â
3. Ţˇ ˜ Ḥˆ Â
   Ψ ɕ Â

10.1 Ḡ Ī ɻ

G D⌐ °° ƈ Ƶ Ь ⁚ Ĩ ƿ ƈˇ Ί ʒ Ь
ǐ Â D⌐ °° ƈ ą Ί̣ ˇ à à ǯˇ
ɣ ǐ D⌐ °° ƈ ṗ ˝Ḥ ƙ Ð . ɉ ˇˆ Ψ D⌐ °° ƈ ŭ Ỿ Âɉ ˇ
ч ą °° ƈ ˇ ض à ą Ţ D⌐ °° ƈ ɻ ˆ
Ɛ ɷ ₩ ˜ Ḡ Ī ⁄ № Â

10.2

Ч Ъ D⌐ ᵒᵒ ҷ Ṵ ˘ Ḡ ˘ D⌐ ᵒᵒ ҷ ą ˘

D⌐ ᵒᵒ ҷ ˘ ṗ Ӣ ˈ

	ṗ	∞≠ ‰
	1. à 2. à r	1. > 40Ṇ Å ɣ < 95%̃ o 2. ɜ˘ à r
ˈ Ч	1. 2. D⌐ ᵒᵒ ҷ r	1. ˘ 2. r ˘ كل
D⌐ ᵒᵒ ҷ r	1. ⁻ à ٦ 2.كل 3. à	1. ⁻ à ₹ o 2. كل à ɜ 3. ھ ⁻
	1. ⁻ à ٦ 2.كل	1. à 2. à Ь ڜ̃ كل
˜ à ₹ ő	1. ˜ ١ 2. ₹	1. ˜ ١ ض مخ ṗ 2. ₹ ض ɣ Ɣ Ӣ

10.3

Ч Ъ D⌐ ᵒᵒ ҷ Ṵ ˘ Ḡ ï ˘ ˆ ٧

Ɣ ṗ˜ D⌐ ᵒᵒ ҷ ˘ ṗ Ӣ ˈ

	ṗ	
Ƙ	Ƙ ٦ ⁻	
w ¨Ḥ ƈ ð	à	١ ŋ
ƈ	à	١ ŋ
	٦ ĭ à ɜ	
	كل ġ ⁻ ٦ 2ˈ	1¨ 2ˈ
PCB	à	١ ŋ

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ı ç شد Ð ˇ ث ћ ą ī G ı ®

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' ث ч ضي Й ↓ Ð Й ą Â

^ 1˜ ' 40 Ņ'

^ 2˜ ' ⁄'

^ 3˜ ' Â

10.5 ћ Ḡ

D˗ ᵒᵒ U ћ ˘ ү Й Ң '

^ 1˜ ѽ D˗ ᵒᵒ ç g à ˗ à ض ˘ Ḡ Â

^ 2˜ D˗ ᵒᵒ ç ћ ˘ ٧ ₩ ү ك ˘ □

D˗ ᵒᵒ ç w Â ₩ ѻ ĭ ١ ك ١˘ ғ ћ g

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