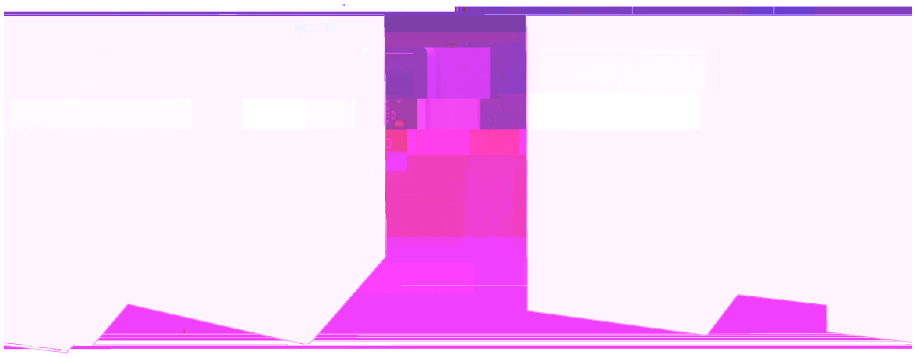
HF682N

V1.00

Wuhan Guide Technology Co.,Ltd.



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HF682N ↓ ǐ ᶜᵒ ч ˜ ƀ ˛

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U ǐ ᶜᵒ ج ǩ غ ą Â

G ǐ ᶜᵒ ج ą ضي ˘ ̀E˜

ضرپ WĦ ي˘ З˜ ƀ ̀E˜ ڤU ⊢ Ţ ˘ ч

ч ⊢ Â

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м ̀E˜

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1.2 ﻣﺧ 4
1.3 Ƕ .....
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ˈ ʌ ᴥ 132

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1˜ Ḡ

ضي Ţ ψ ᵃᵃ Ḡ ضر r ˘ ą Ḡ ˆ RCD˜

ح̃ RCM˜ ˘ ą ĭ ذ Ḡ ˆ RCD˜

ح ˆ RCM˜ Â

ضي ѿ ʊ B قمم Ḡ ح ˆ RCD˜ ˘ ضي Ḡ ح ˆ RCD˜

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Ғ RCD˜ ▼ φ RCD Â

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شخ ĭ ح Â ƀ ĭ ح ˘ 500V

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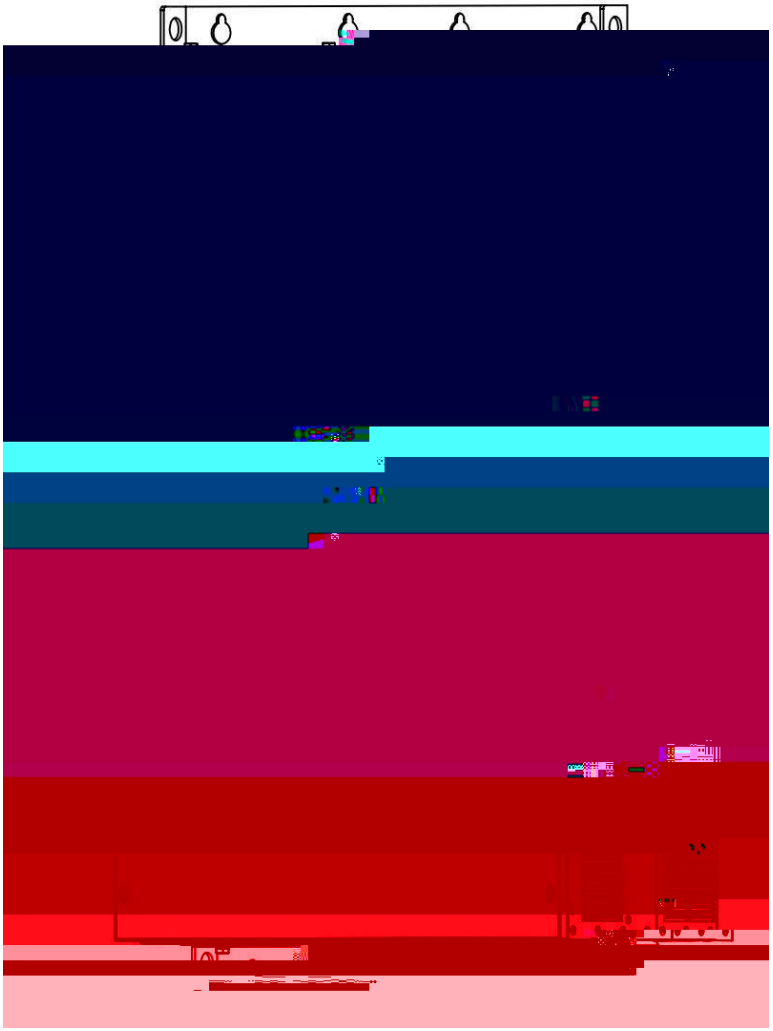
˘ ą ˆɿ ɿ ɿ ĭ ɿ U ˜ ⌠ ĭ ح Â

ᵃᵃ ج˘ ضي Ӣ β ˧ ˩ ɔ ɒ ˘ ɥ ɔ ŋ˘ ą Â

ĺ ᴄ HF682N03M-355-4 ᴇ ᴅ



1.2 مخ

(1) ᵐ ج ч ʒ ǐ ᵐᵐᵐ ج ˘ G عج ǐ̃ ̂ ´ ˛ ˛ Â

(2) G غج ǐ ᵐᵐᵐ ج ˜ ˛ H` ˆ ɒ L à

à ŋ ǐ ת ˜ ˘ ˘ ضي ’ Ǔ˛ h ٨ ٣ Â

(3) ǐ ᵐᵐᵐ ج ضي H˜ L Ǔ˛ L ˘ p G √ ˘ ̇ ̇

ŋ Y ǐ ᵐᵐᵐ ج Ƕ مخ Â

1.3 Ƕ

ǐ ᵐᵐᵐ ج ǐ ì Đ ˘ ˈ

ˈ ǐ ᵐᵐᵐ ج ρ́ ضي ˜ ǖ Â

ˈ ǐ ᵐᵐᵐ ج ̇ ̇ à L ضي ج ˜ ᵐ à r ˘

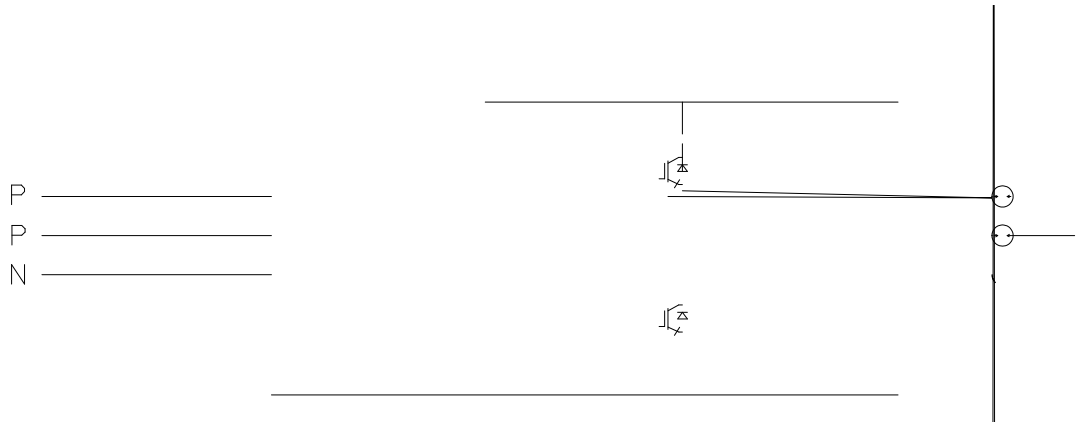
≢ Â

ˈ ǐ ᵐᵐᵐ ج ƀ ч ʒ ج Â

2.

2.1

HF682N ↓ Ï كح يح Й,يح Â



2.2 w

Ï كح ˜ L˘ ˪ V/F à غ L ˘

L à à غ ˧ Â

ˆ 2˜ Ð w '

كح Ï	˜ w شج	w شج ₱ w شج كح شج PID شج
	˩ L	٧ / ⁞ w كح L / Å w ï
	F w	w L β L w
	□ L	h / ɾ □ L / L
	ǟ	ǟ ˩ ˘ ˜ ٢ à ضر ٧ Ï كح L غ ɲ

2.3 Ð

D⁻ ᵒᵒ ج ˜ Ð'

O	˜قمم	
DP ٧	GDHF-ADPX1	GDHF-ADPX1 DP ٧ ¨ ‰ Profibus شي يج ‰˘ HF682N02M ↓ عج HF682N03M ↓ ٱ كح ¨ ą Â
PN ٧	GDHF-APNX1	GDHF-APNX1 ٧ ¨ ‰ Profinet شي يج ‰˘ ˜ Ь HF682N02M ↓ عج HF682N03M ↓ ٱ كح ¨ ą
Ъ	GDHF-AKZY1	GDHF-AKZY1 Ъ ˘ Ь HF682N02M ↓ عج HF682N03M ↓ ٱ كح ¨ Ъ □ Â
2	GDHF-KL2	GDHF-KL2 2 Ъ ч Ъ Ь HF682N02M ↓ عج HF682N03M ↓ ٱ كح ң ˘ ч 2 Â
4	GDHF-KL4	GDHF-KL4 4 Ъ ч Ъ Ь HF682N02M ↓ عج HF682N03M ↓ ٱ كح ң ˘ ч 4 Â

2.4 أ ج غ

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1. 2 ضي أ ð / ƀ ƀ ᒪ ᑭ ᒪ Ţ ψ
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   f 2 ᴴ ضي ð / ƀ Â
2. ₇ ᴴ ضر Â
3. ᴴ ƀ ƀ ᑫ ᑊ
   - 85 85

2.4.2

- ممم ضي ṗ˘ ƒ ṗ Â
- -15Ņ˙ +40Ņ Â ضي مخ+40Ņ˙ +50Ņ ң ˘ ˆl 1Ņ˘
  ₮ ⁞ 2% Â 50Ņ h ٨ ٣ Â
- ῷ ˘ ɢ 95%RH˘ ѣ ̈Ḥ o ˘ Â
- Ⓟ˜ ضي ṛ˛ ̇ Â
- ῷ Â
- ȁ r غ r Â
- ȁ ȁ ī Â
- ˘ Â
- 1000 γ Ӥ Â 1000 شي ˘ ϑ 100 ٧ 1%
  ٧ ₮ Â 3000 h ٨ ٣ Â
  ' شي ' ˘ ʒ ą ث Â

2.4.3 h ƀ

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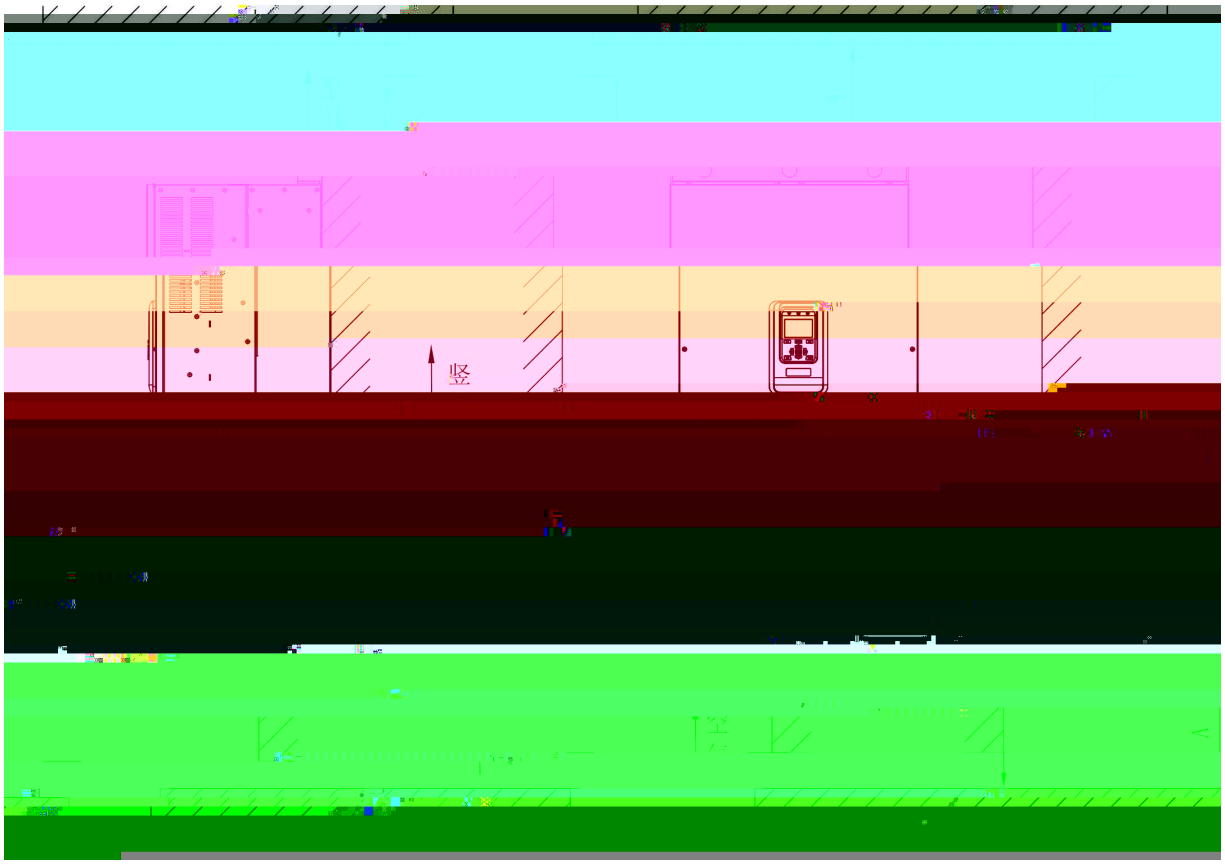
ᄋᄋ ج ˆ ṿ˜ Â



ᄋᄋ ج قمم		
	A ů 200mm	B ů 50mm

' ˘ شج ƀ G 50mm Â

2.4.4 غ ا

ا '

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3. كح أ

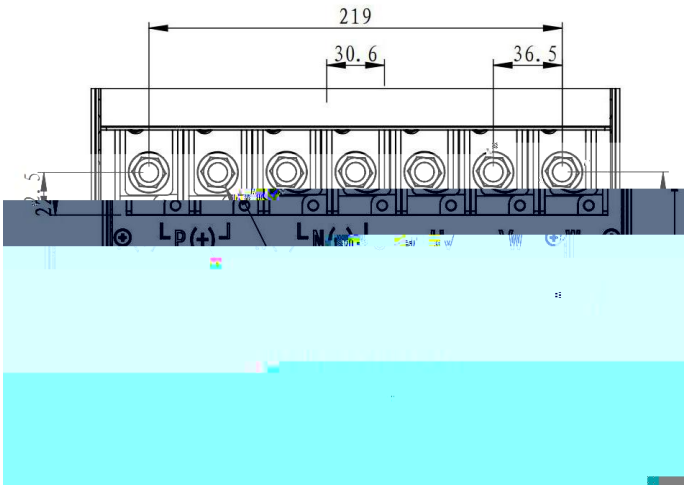
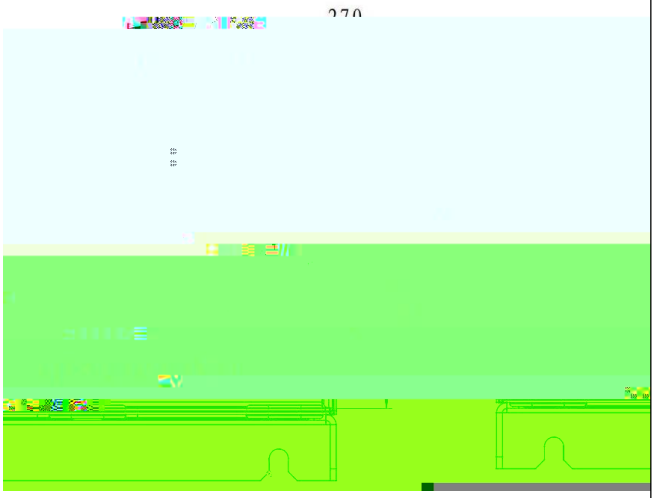
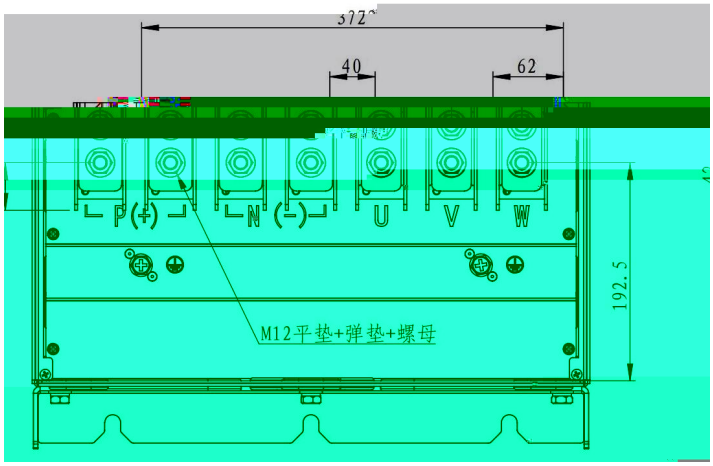
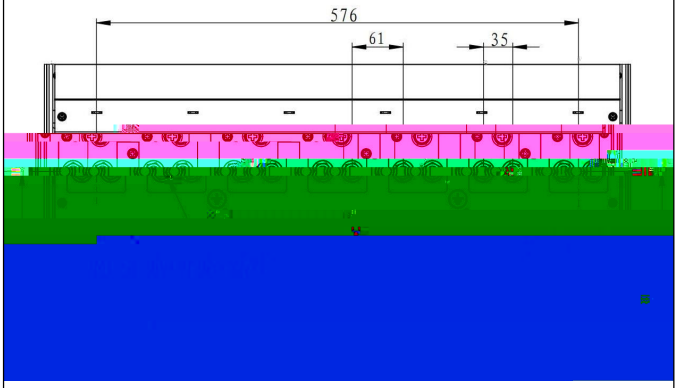
3.1

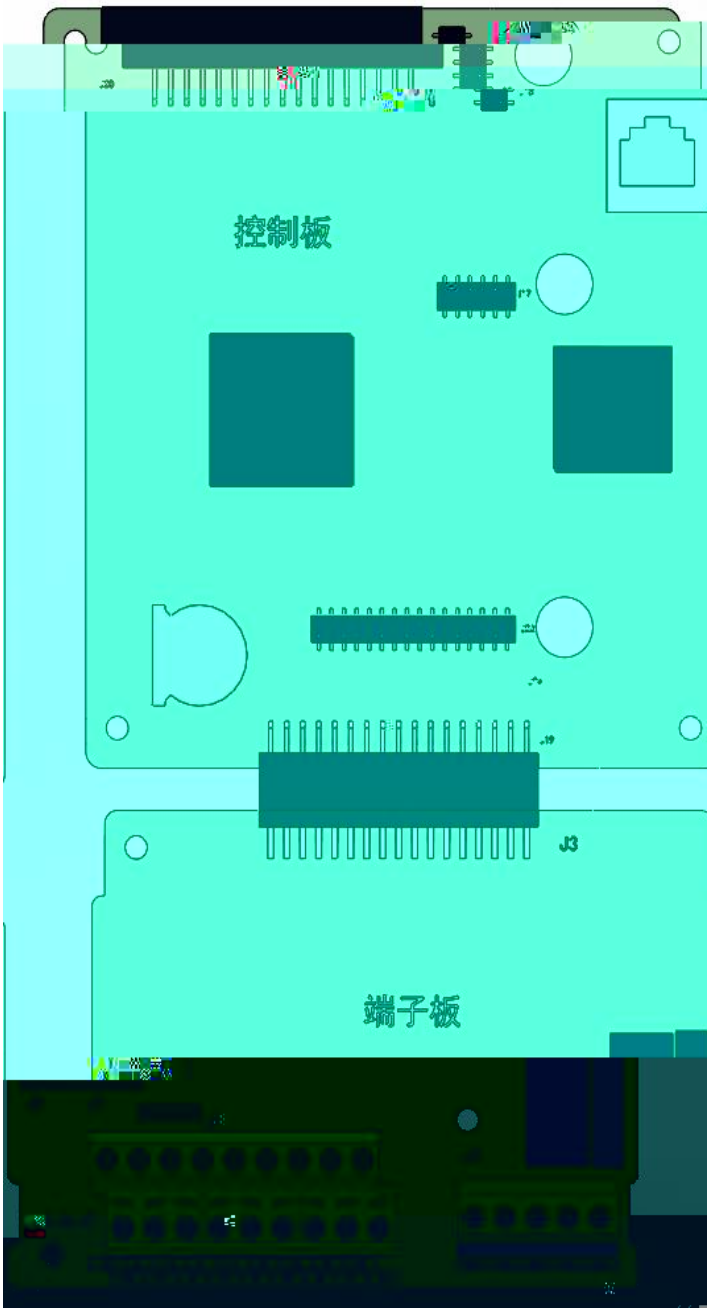
أ كح ƀ ˘ ˩ ˆˆˆ ´ ˩ Â

3.2

ˆ 1˜ h عجـ

ˆ	w
P(+)	ʊ ˧
P(+)	ʊ ˧
N(-)	ʊ ˧
N(-)	ʊ ˧
U à V à W	ˆˆˆ ´
PE	أ كح ضر ضر

90~110kW h ڪڄ № ڀڃ	160kW h ڪڄ № ڀڃ
	
220~250kW h ڪڄ № ڀڃ	355kW h ڪڄ № ڀڃ
	


控制板
J3
端子板

o Й,'

≢ ˝ O

h
+10V-GND ¯ 10V ƀ
ß
h
+24V-COM ¯ 24V ƀ
Ŧ
PW ~

AI1-GND ~ 1

~
AI2-GND ~ 2 J1

DI1- PW ~ 1
DI2- PW ~ 2 ᴗ̈
~ DI3- PW ~ 3 30V˘ D
DI4- PW ~ 4 ᴗ
DI5- PW ~ 5

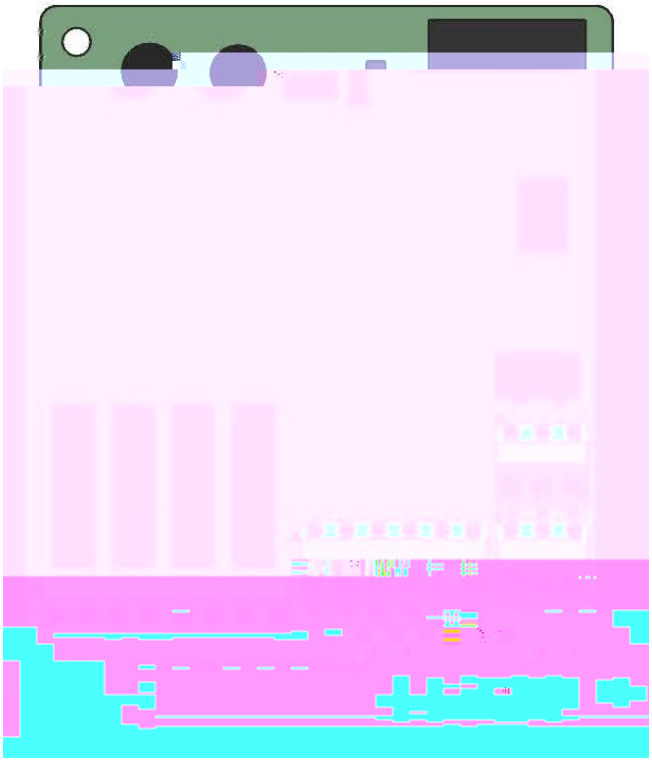
AO1-GND Ŧ 1 =

Ŧ
AO2-GND Ŧ 2 = ᴧ

ᴗ̈
DO1-PW Ŧ 1
Ŧ

DO4A-DO4C 1

ᴄ
Ŧ

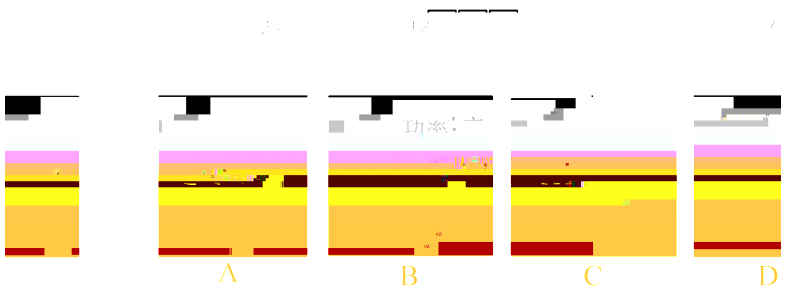


IO \ o Йţ'

≢	˜	O	
	24V	24VDC	24VDC ˘ L ☼ 24V ˘ Ӟ˜ 24V Â
	COM	24VDC ǟ ضر	24VDC ǟ ضر
	PW	˜ `E ˝	ѣ 24V
˜	DI6-PW	˜ 6	1 à ѿ ˘ `I ǐ ˜' 2 à ˜ ' 3.3K ß' ˜ ⅄ مخ' 9~30V Â
	DI7-PW	˜ 7	
	DI8-PW	˜ 8	
	DI9-PW	˜ 9	
	DI10-PW	˜ 10	
	DI11-PW	˜ 11	
	DI12-PW	˜ 12	
كح ⅂	DO2A-DO2C	كح ⅂ 2	' ˜ ʒ' AC 250V,3AC,COS =0.4 Â DC 30V,1A
	DO3A- DO3C	كح ⅂ 3	
	DO6A- DO6C	كح ⅂ 6	
	DO7A-DO7C	كح ⅂ 7	

3.3 غ قمم Ḥ

أ كح ج قمم Ɉ'



أ كح قمم '

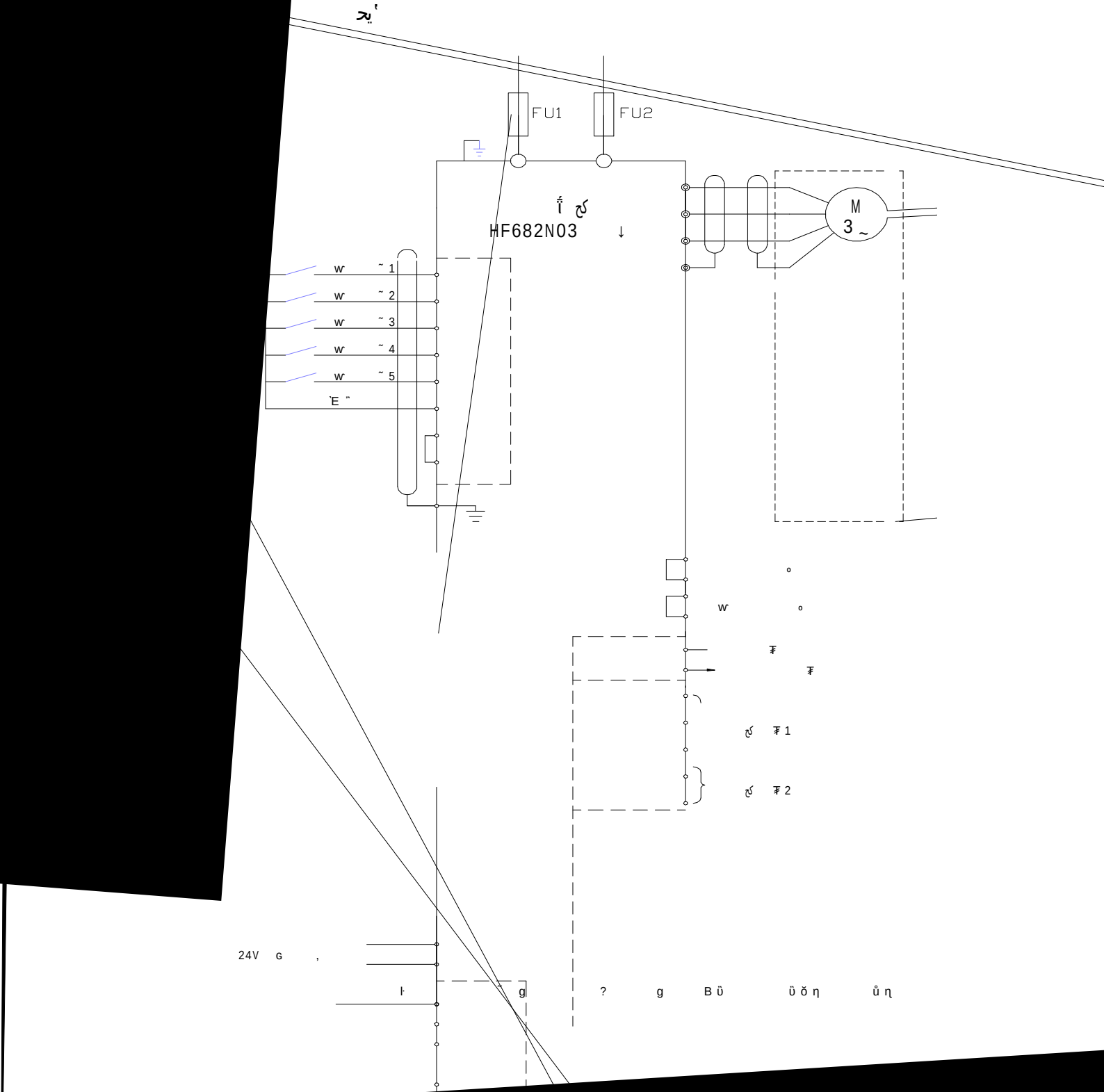
A	ج ↓
B	غ قمم 03M' أ شج
C	w 090' 90kW 355' 355kW
D	⅄ 4' 380V

Đ^ كح ~ '

ๆ ๆ

MB01 Modbus RTU \ DP01 Profibus DP \

PN01 \\


FU1
FU2
HF682N03
M
3 ~
1
2
3
4
5
24V

ΐ ϛ ϟ

^ ΐ ϒ Ӈ˜

3.6

ΐ ᴄ ᵒ ج '

~ ~ 460V˙ 700V˘

L PG L à PG L à V/F L

ɒ ƀ à L à ɣ₀

₮ ˧ 380VAC˘ ɢ 5%

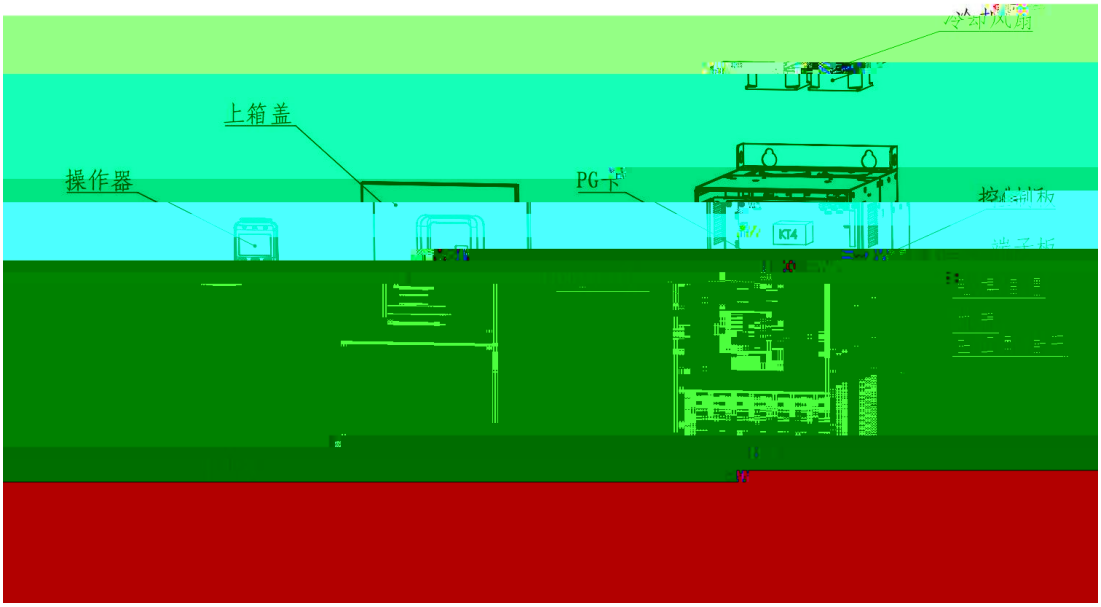
L

₮ 0˙ 300Hz

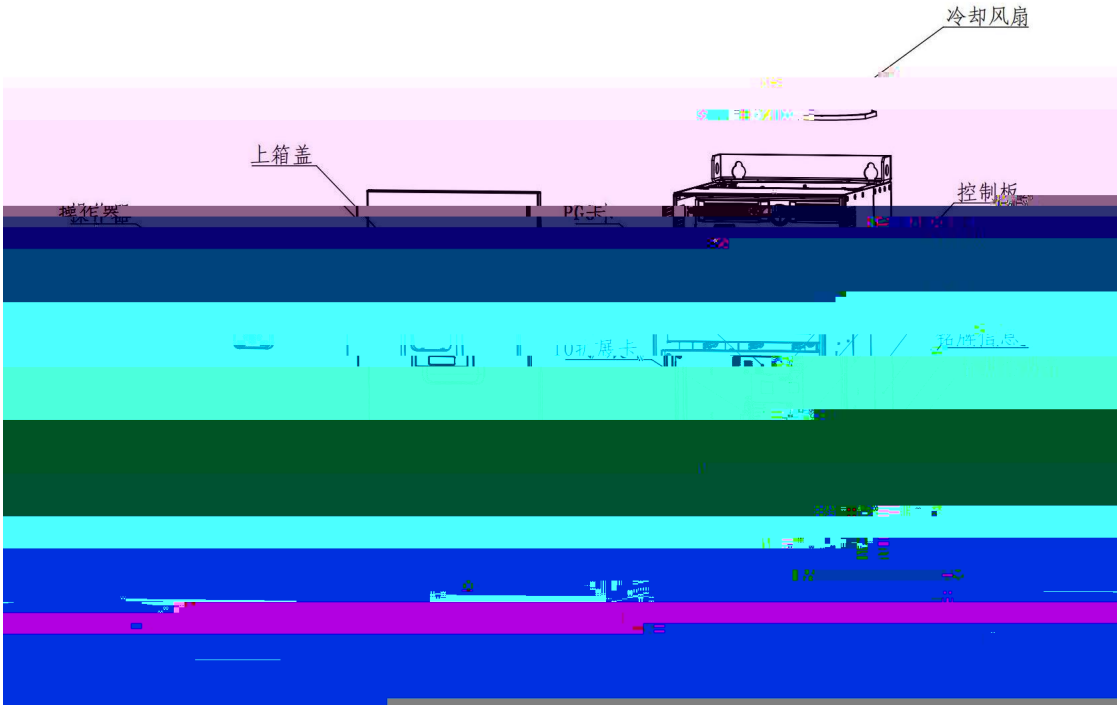
Ω˧ 0Hz/200%(VC غ SVC) à 0.0 z

4.ٌٌ ج

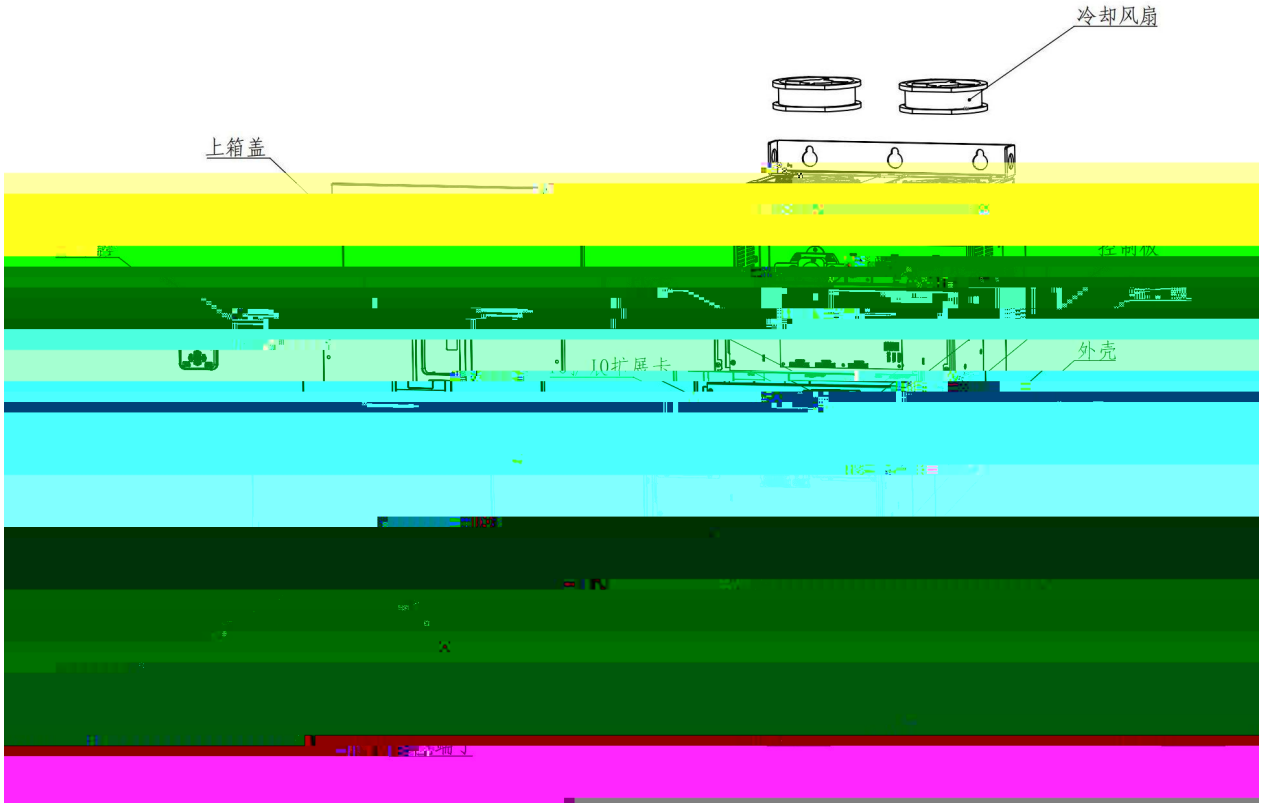
4.1 Ð



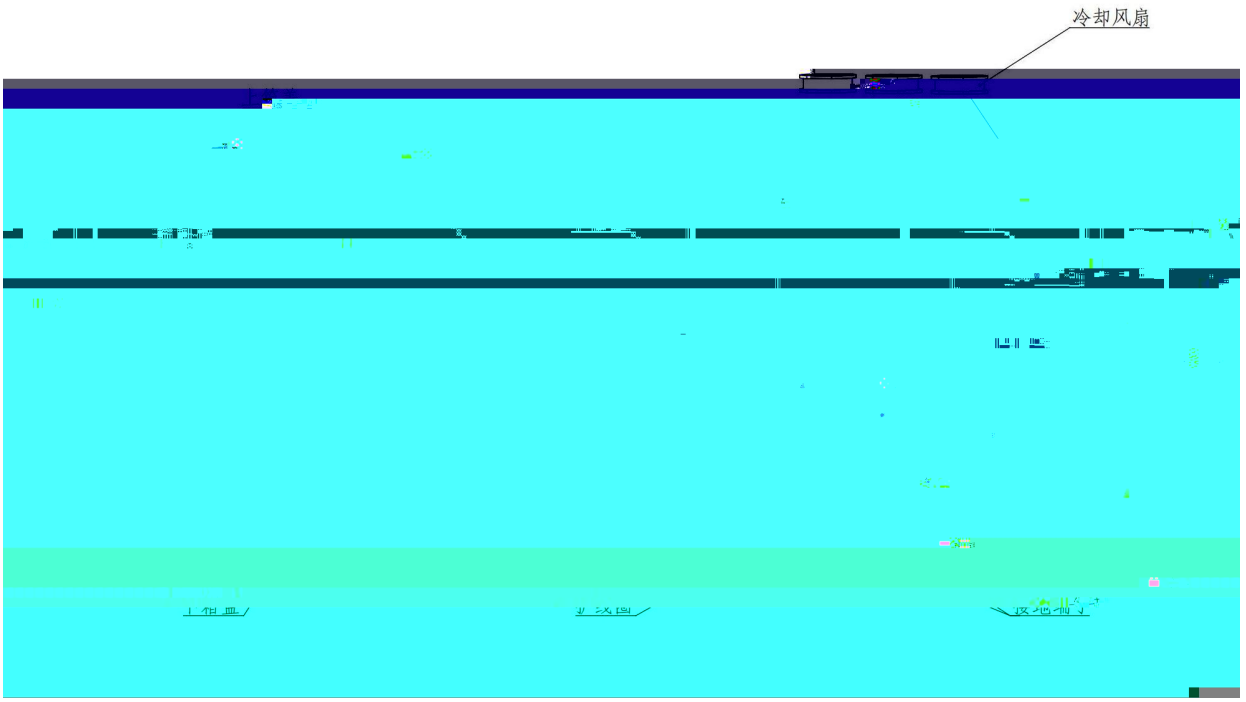
90~110kWٌٌ ج № ير



160kWٌٌ ج № ير

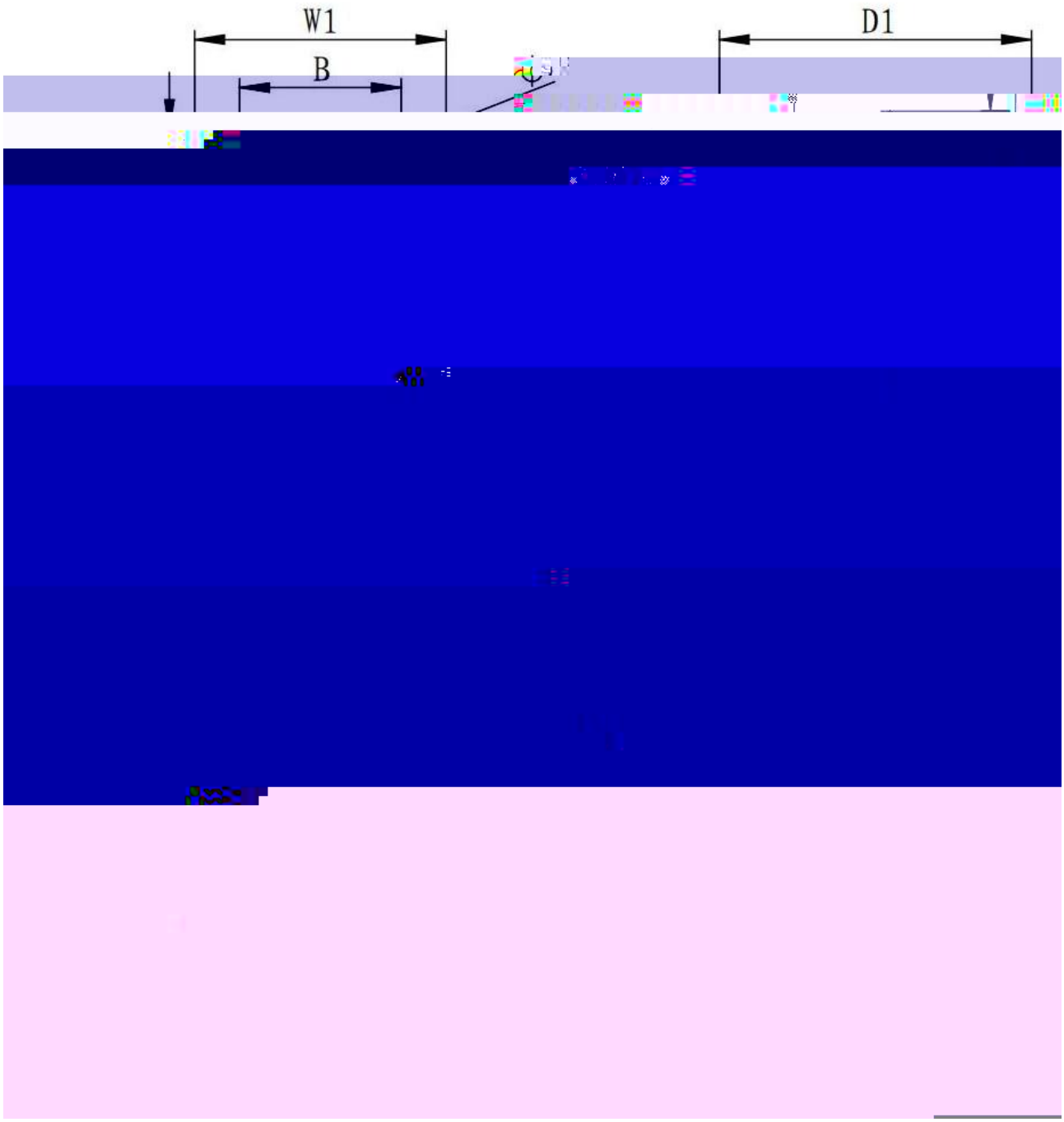


220~250kW ٌ ج № يد

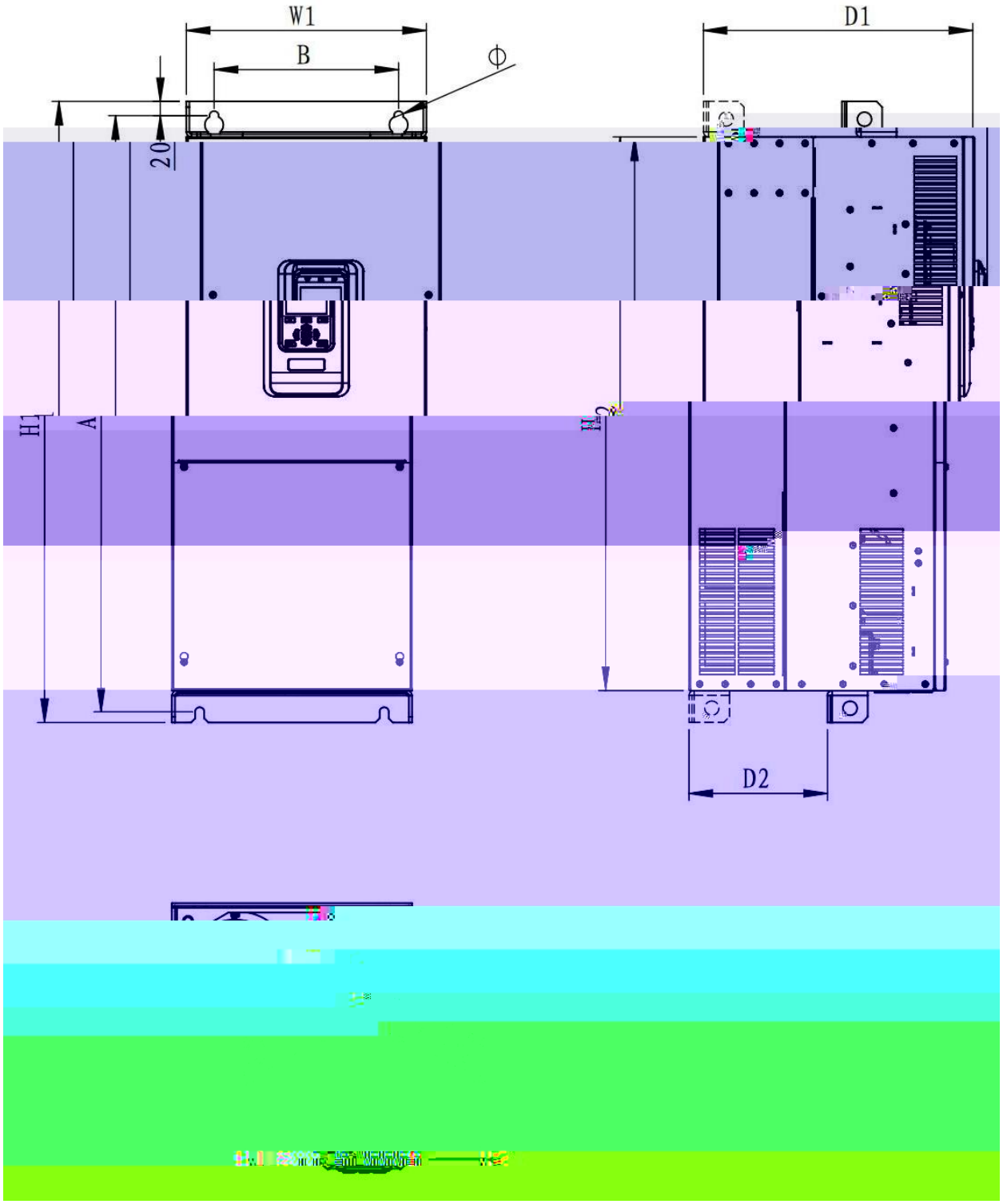


355kW ٌ ج № يد

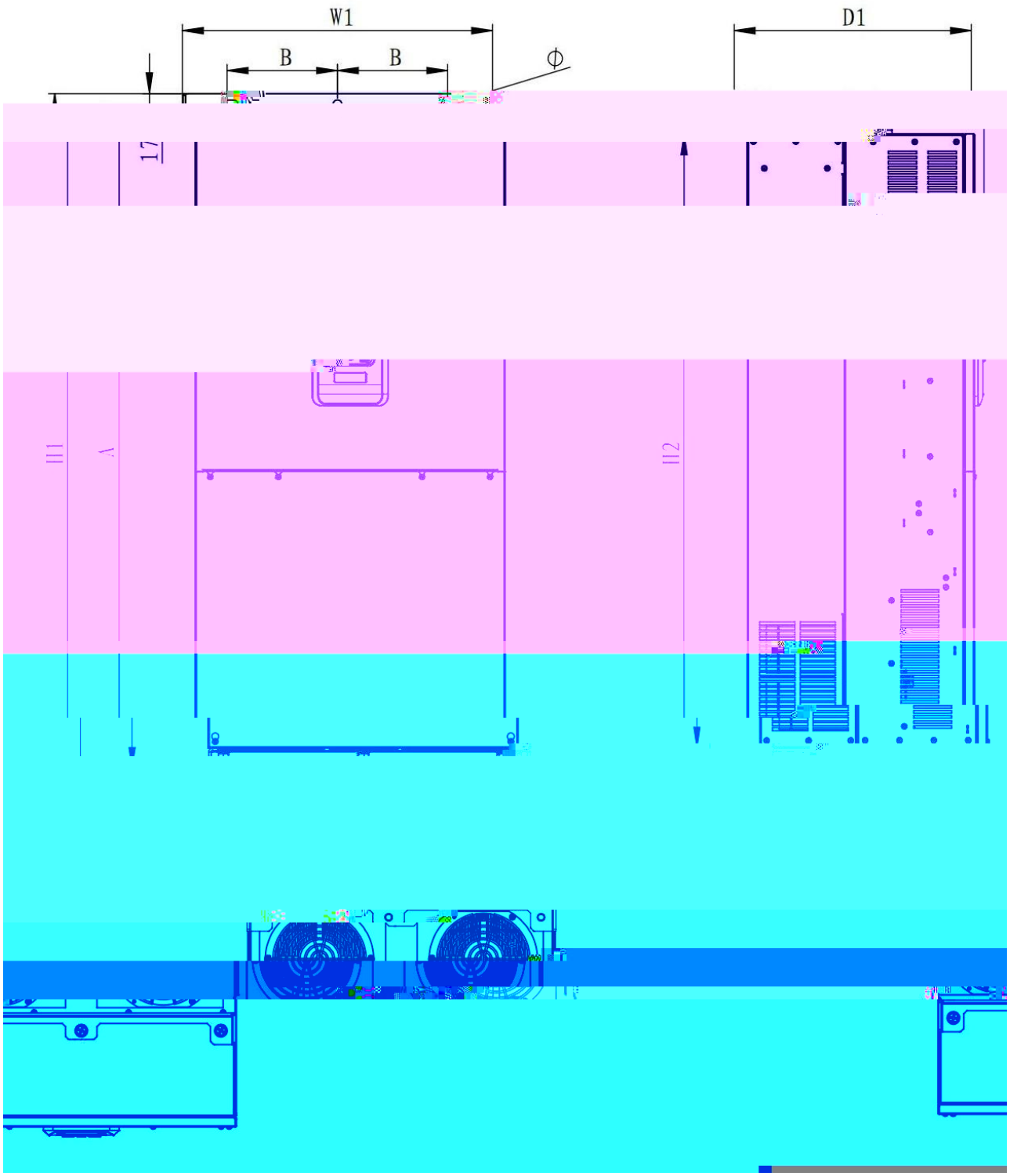
4.2 أ ي



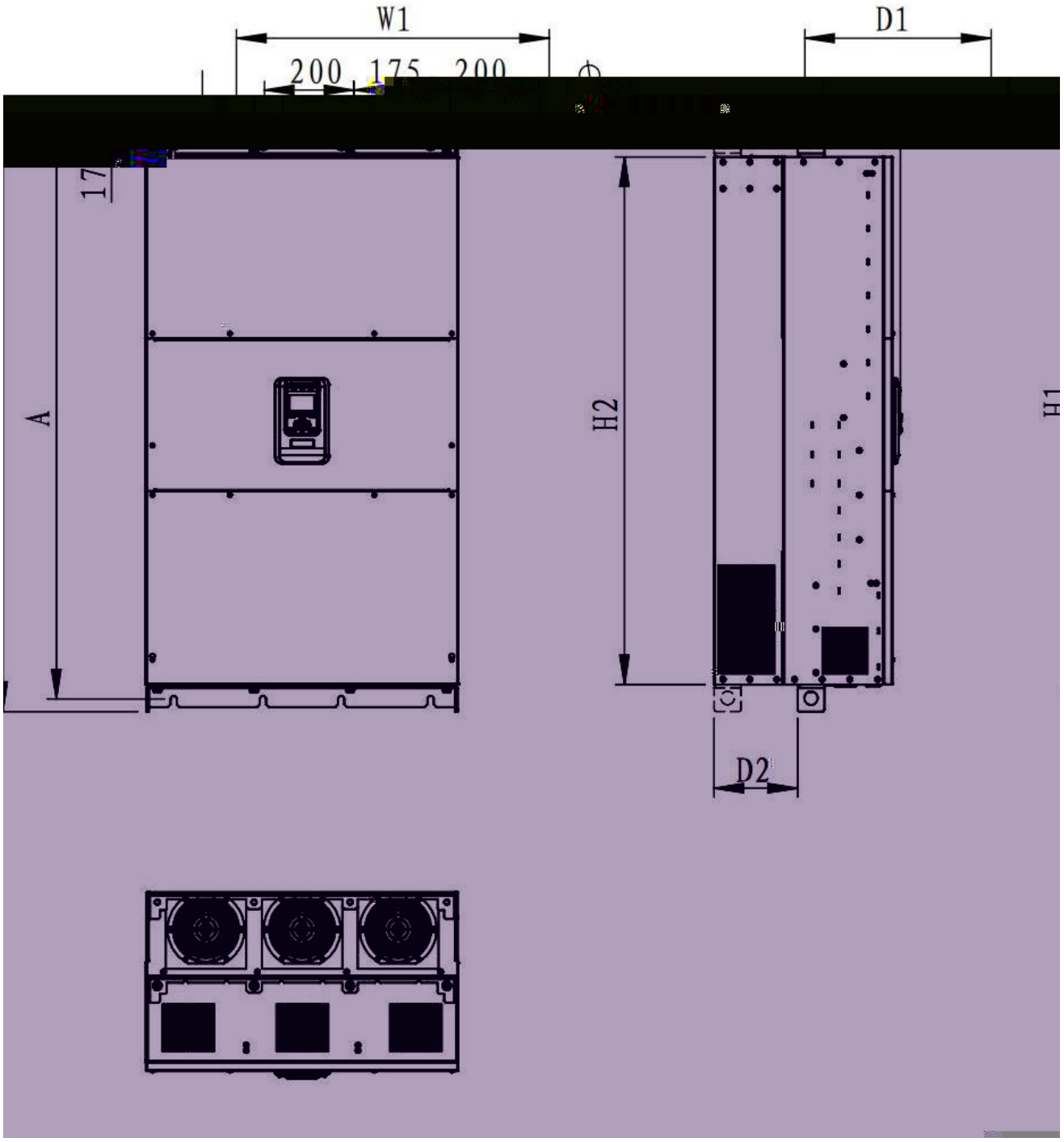
90~110kW قمم أ يد



160kW



220~250kW قمم آ يح



355kW قمم ٓ

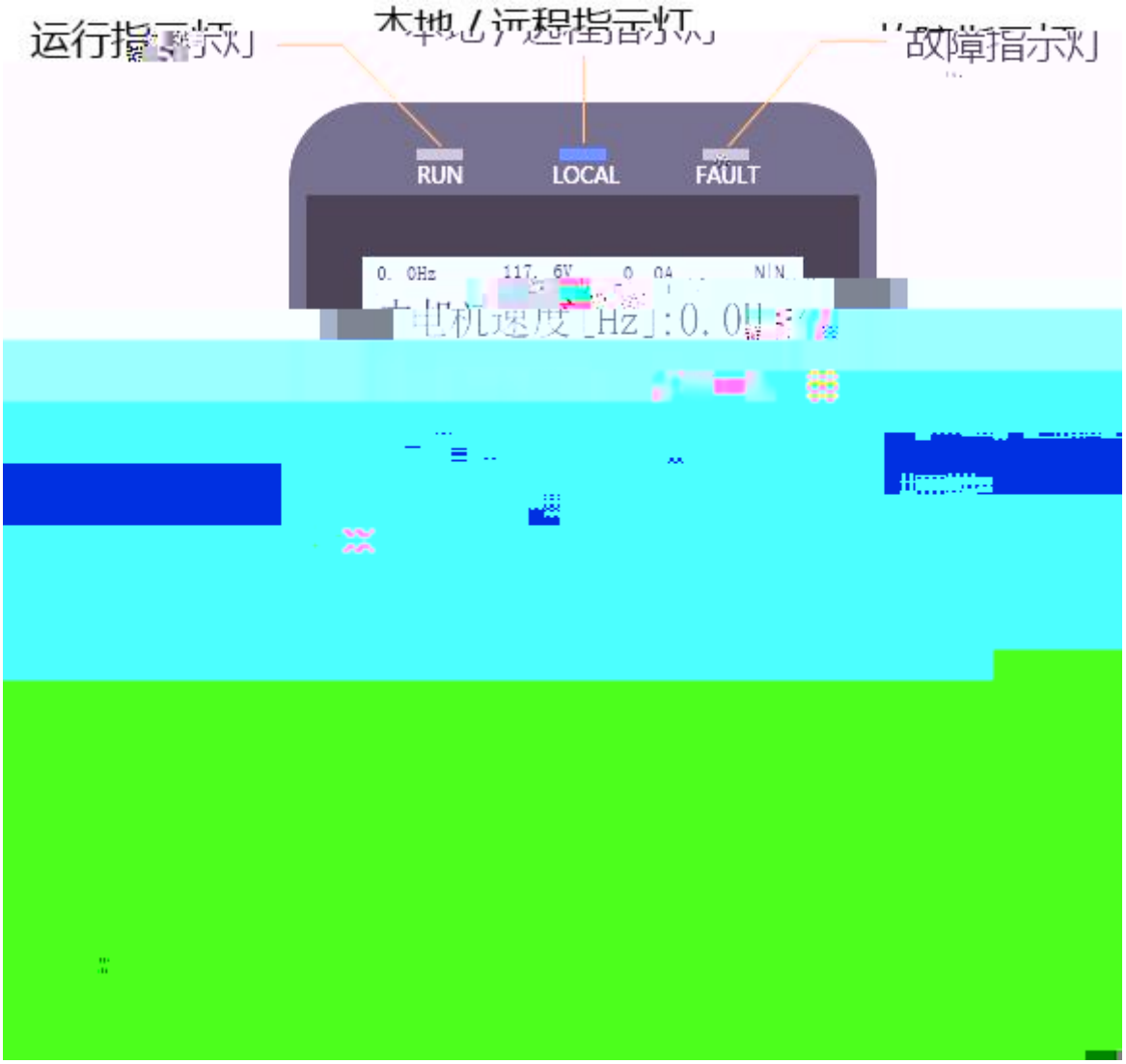
ج ᶜᶜ ᶠ

ᵂ	ᵞ β' mm								8.8	kg
	H1	H2	W1	D1	D2	A	B	ô	M	
90kW 110kW	580	508	280	347.5	140	553	180	2-ô13	4-M12	35
160kW	875	780	338	379.5	195	840	260	2-ô13	4-M12	60
220 kW 250kW	1094	975	492	376	180	1054	175	3-ô14	6-M12	100
355kW	1305	1180	700	415	187	1260	/	4-ô14	8-M12	175

5. ƀ

5.1 ƀ

HF682N ↓ ĩ ƨ ƀ ˆ Ӟ ч ƀ ƨ˜ Ӣ ҳ Ã Ƨ F1 àLOCAL/REMOTE
à F2 à RUN à STOP à ; Ӣ à /RESET à ˘ ع ENTER ˘ ˆ ≠ ˚
ĩ ƨ ǟ ˘ ˘ L ع Å Â



5.2 ƀ

ṿ ʜ ˥ ɛ Ӣ ᵝ ˥ Â ɛ⁚ ᵝ ˥ ʃ Ӣ ᵝ ˥˘ ŋ Ӣ

Â ɾ Ӣ ᵝ ˥ ɹ ʃ⁚ ᵝ ˥˘ ǵ⁚ ÂƷ˜ ɣ ⁚ Ӣ ɤ ⁝ ṿ˘

ṿ ʜ Ʊ˘ ˜ ENTER Â ǟ ą ˩ ᵝ Â

ƀ ǐ ᴄ ˘ ą RUN ɛ STOP Ω˩ ɛ Ả ˆ ᷭ ǟ

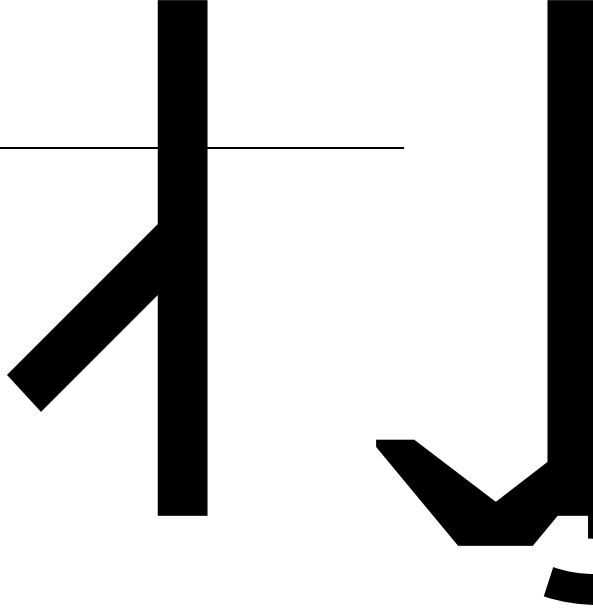
ꞓ ℗ ʃ ض ˜ ˘ LOCAL/REMOTE ℗ ض/ Â

5.3 Δ

Δ Ţ˘ ´ Ƨ ľ Ŀ ɛ ľ ο Ŀ˘ 2 ɷ ʷ ᴹ Â

' ɯ ê Ì à ê ˧ Ì à ê ᵻ Ì à ê ɒ| Ì

	ʷ
	˩ ˘ ╠ ľ - Ŀ˜ ɯ ǐ
˧	⁚ ˧˘ ˥ ᵝ :V
	╠ ᵻ ˘ ˥ ᵝ' A
ɒ|	ɒ ɒ ' N|N ɒ' W ' E ɒ ᵻ ˘ ψ



ο ' w̄ 4 ɑ ˘ ☼ Й̧ ˗ ˘ γ Ь ▯ ǟ ’

ضي Δ Й̧˘ Й̧ ENTER ˜ γ Â Й̧ F1/F2 ₮ Δ ˘

˜ h ɿ Â

5.4 ê h ɿ Ì

ê h ɿ Ì Ţ˘ ´ Ƨ Ţ ˛ ɿ˘ №≠ ˜ ˛ w ƀ Â

h ɿ

ɿ ˜

5	Fault Record	Ḡ ᴬ˘ Ƕ Ð ˘ ʏ ĭ Ḥ
6	Security ŋ	[redacted] ˜ ˘ [redacted] ˆ˜ ʏ ˇ K ĭ ʊ ᾰ

5.4.1ê ȉ ᴬ

ê ȉ Ţ˘ ´ Ƨ Ţ ᴬ˛ ᴬ˘ №≢ ˜ ᴬ˛ ʷ ƀ Â

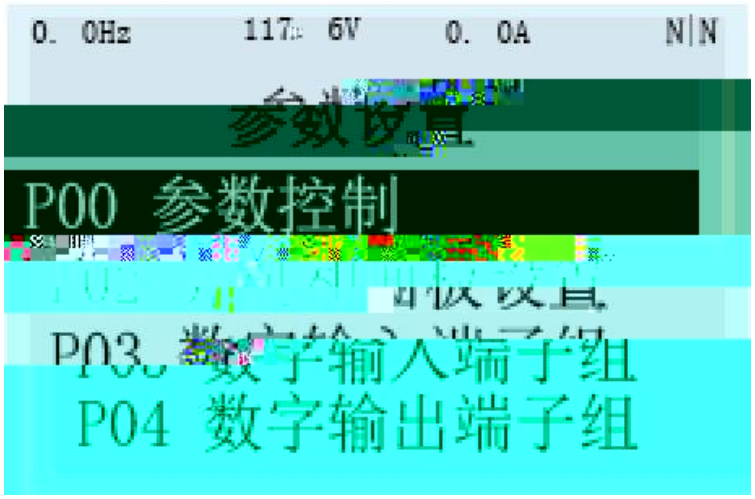
ᴬ ˆ˜ ᴬ ʷ

1	Choose Direction h	ض	Ŭ˛	ĭ	h
2	Reset Error β	β	╠	˘	
3	Menu Language ᴬ		ᴬ		
4	Monitor Setting				
5	LCD Contr]ℵn				

˘ ˋÊ˜ ' www.gdetec.com

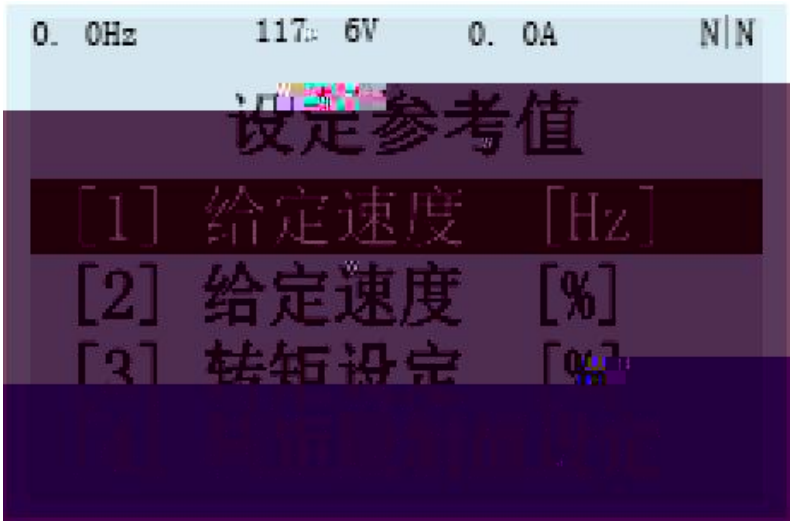
6	Time Setting	╠
7	Version ﾀ Ð	L ﾀ Ð ˜ ﾀ Ð ˜ ﾀ ﾀ ƀ
8	OLD COM ⁘ β	⁘ β

5.4.2ê ǟ ǟ ǟ

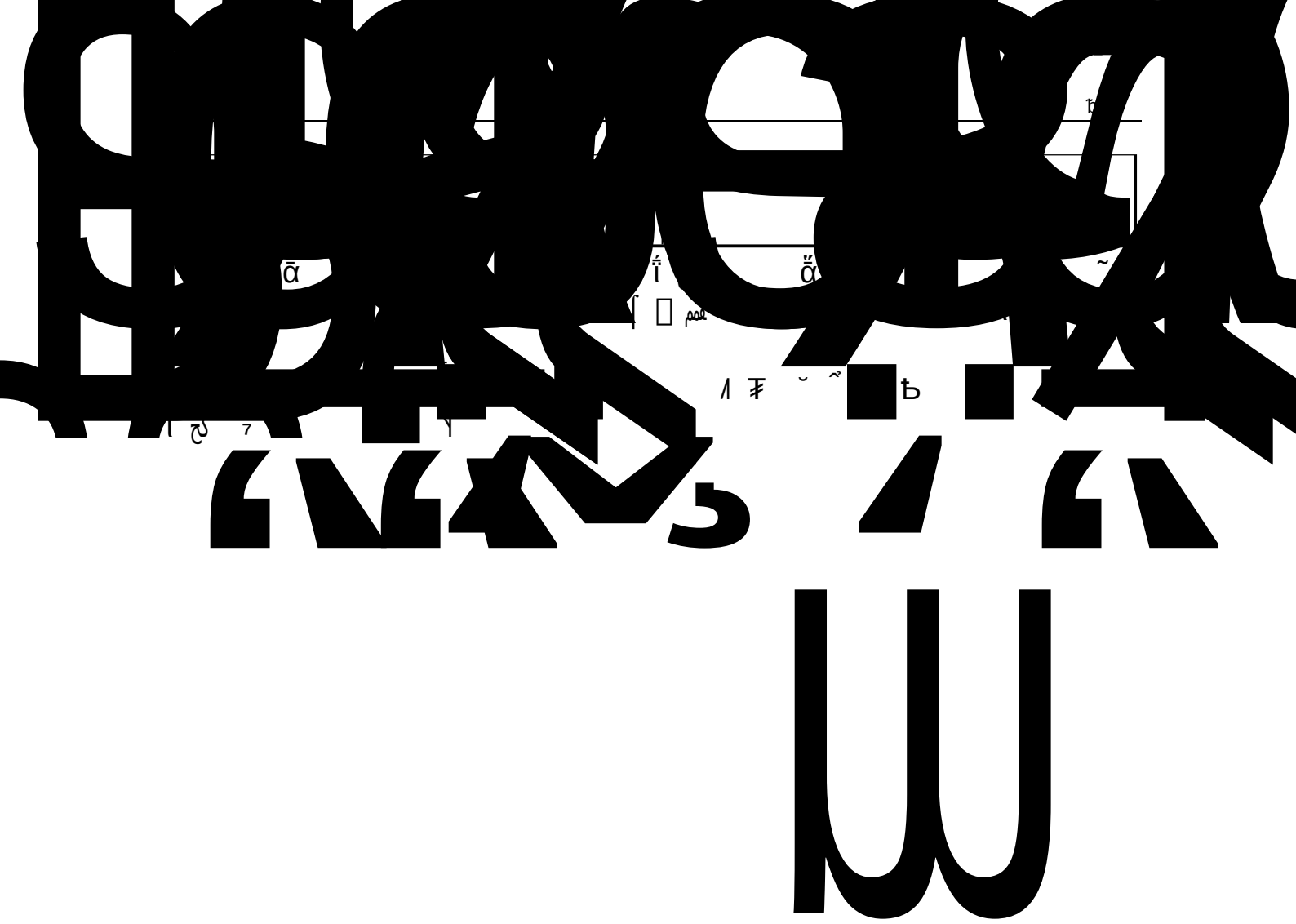


ǟ ˆ Parameter Setting˜
˜ ǟ˘ ǵ ǟ ǟ ǟ ǟ Â

5.4.3ê ǟ ṿ ǟ ǟ

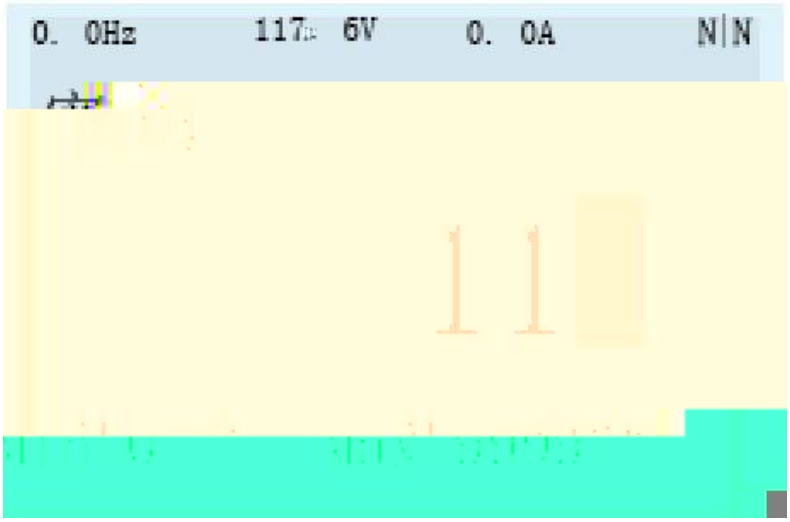


ᛘ	ᛘ	ᛘ
1	MotoTuning I ӟ	ӟ
2	MotoTuning II ᒧ ӟ	ᒧ ӟ
3	MotoTuning III ᒧ ӟ	ᒧ ӟ
4	DC-Link Tuning ӟ (AFE)	ضي AFE ᒪ Йᛚ
5	Sh3tcut PaČas Setting ᕫ	ᕫ
6	PamaČeter Initializatin ᕫ Δ .	ᕫ Δ . ᛋ Δ ᛘ Â
7	Delete Fault Recomds	
8	System Restamt Ω	ΐ ᛕ ˘ ▯ G ⁘
9	Backup PaČameter ᛗ ᛚ ᕫ	ضي ᕫ ᛗ
10	Recover PamaČeter ᛚ ᛚ ᕫ	ᛚ ᛋ ╟ ᛗ ᕫ
11	Cnpame PamaČeter ᕫ	ᕫ غ ᛗ ᕫ ˘ U ↓ ᛯ ḱ ᕫ ˆ ᛗ ᕫ ᛋ Δ . U ᛯ ᛚ ᛘ ˘ ᛯ ᕫ ᛋ ᛯ ᛚ ᛘ ΐ ᕫ ˜
12	Backup Pama DSP ᕫ ᛗ ⊤	



5.4.6 ê ŋ Ì ɥ

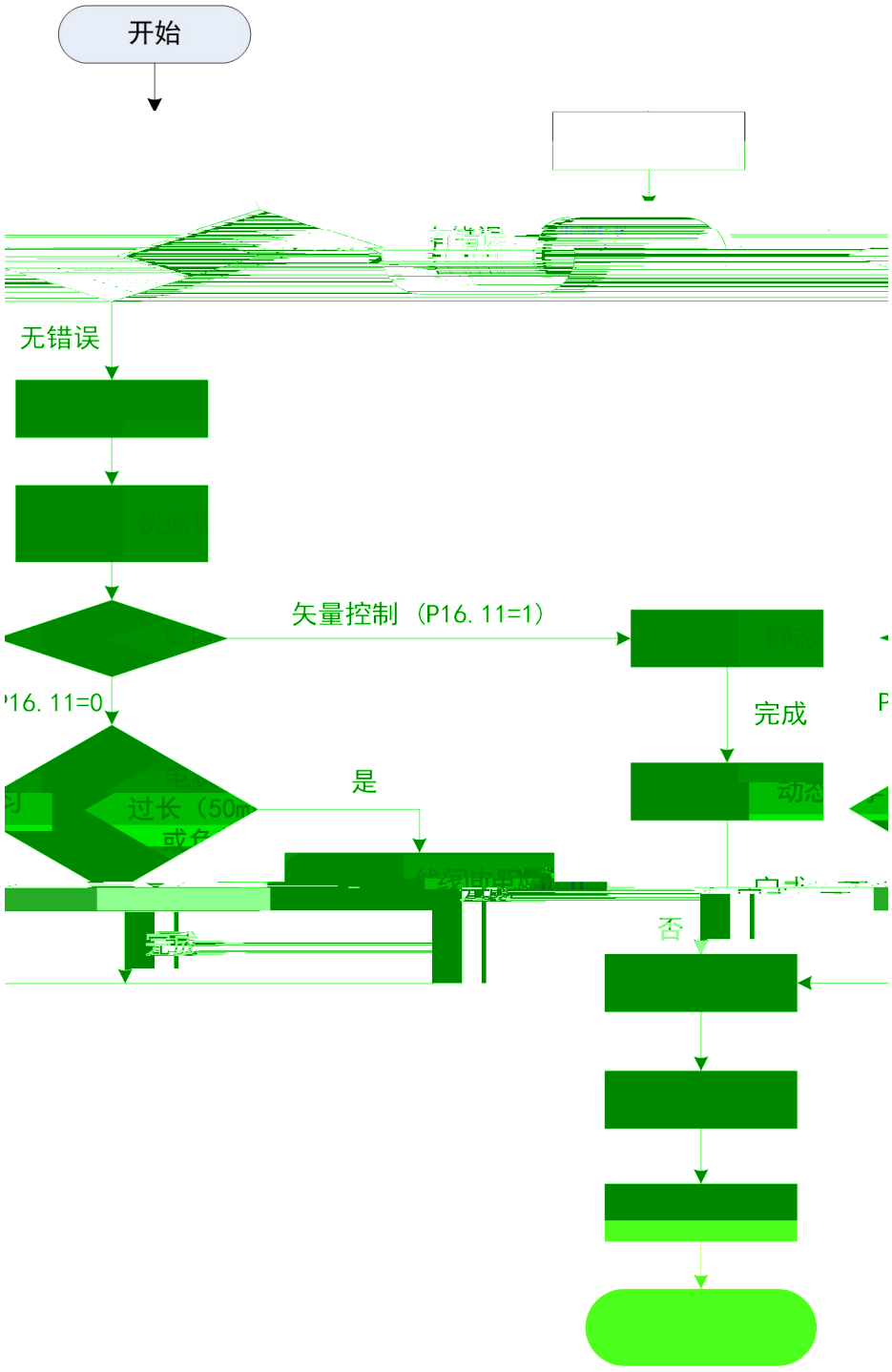
ŋ ˆ Access Permissions˜
ɥ Ţ˜ ą à ǻ ≢



6. ᄎᆞᆫ ᄀᆞᆯ

6.1 ᄎᆞᆫ ᄀᆞᆯ

ᄀᆞ ᄋᆞᆫ ᄀᆞᆺ Â



ᄀᆞᆺ

ضي ą ƀ Ạ ʒ ╟ ⊢ ضر /

6.2.1 ǟ Δ ˛

ǟ Δ ˛ ˘ ǟ ṿ ṿ Â ĭ ʳ 5.4 Ţ ľ ʷ Ł Â

6.2.2 ǟ

Ӈ ǟ ˘ Â

ʷ	O	ṿ
P16.2	ʷ ǟ ʷ	
P16.3	˧ ǟ ˧	
P16.4	ǟ	
P16.5	ǟ	
P16.6	ǟ	
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] ѡ شج	3
P8.3	Ả	[0] تمج Ả [1] Ả	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 ǟ ӟ

└ ˘ ӟ Â ɣ Ӣ ӟ˘

˩ ǟ Â

^ 1˜ └

P16.11 ṿ˘ ч [1] [2] ↕ ч └˘ ӟ غ˩

ӟ Â ч [0] ↕ ч V/F └˘ ⁊ ӟ Â

^ 2˜ ӟ

ضي V/F └ Ӣ ӟ Ӟ ˜ ч ӟ˘ ⁊ ṿ Â

ضي └ Ӣ ӟ ψ ȁ ɣ ǐ ǟ Â

ضي ѡ Ţ Ţ ӟ˘ U ˘ ӟ Â ӟ Ţ ľ

ӟ ضي ˛ Ł˘ ӟ U ľ ӟ ˛ Ł Â

^ 3˜ ˩ ӟ

ضي └ Ӣ ˩ ӟ˘ ˩ ӟ ṇ № ǟ ṿ˘

Ŧ ε ǟ ṿ Âضي˩ ӟ ӊ ╟˘ └ Ӣ ӟ ѿ ѿ

Â

ضي ѡ Ţ Ţ˩ ӟ˘ U ˘ ӟ Â ӟ Ţ ľ˩

ӟ ضي ˛ Ł˘ ӟ U ľ˩ ӟ ˛ Ł Â

ˆ 4˜ ˩ ӟ

ضي L Й ˩ ӟ U˘ ƒ ⊢ ضي

˘ ƀ Â ʅ ˆ ʅ ΐ ˘ ˜ ˘ ᴠ

غ ⁞ ʅ Â

ą ƀ ƀ Ӥ ʽ

ˆ 1˜ ˘ Δ ʼ

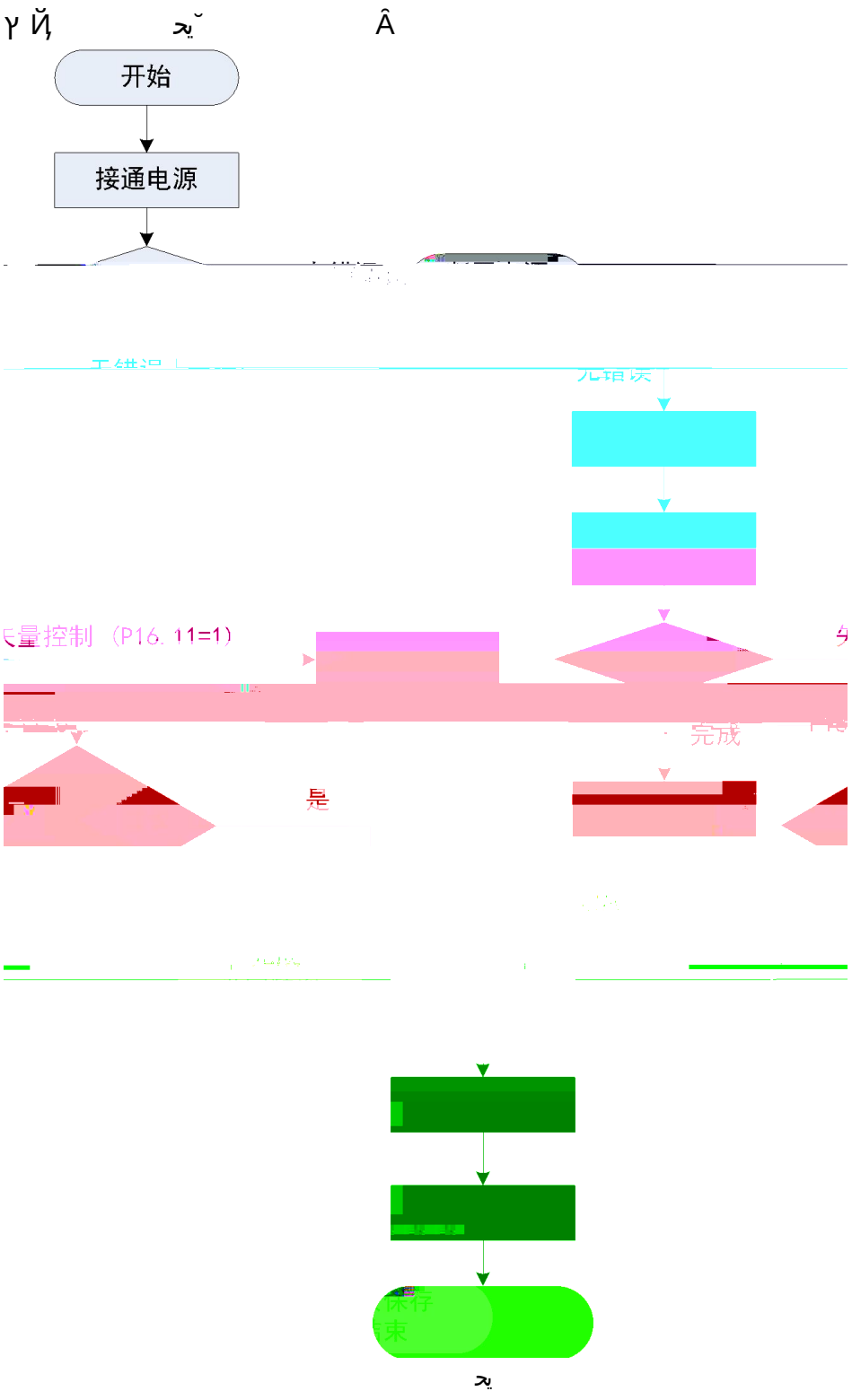
ˆ 2˜ ᴜ ض L˘ LOC/REM LOCAL˘ LOCAL ˛ ʼ

ˆ 3˜ ƀ ENTER ˘ ǟ ṿ [1] ˘ RUN ˘ ΐ ᴄ˘

RUN ˛ ˘ ʼ ˆ ᴜ 5Hz˜

7. ƀ

7.1 ƒ ʊ



ˈ

ضي ą ƀ Ạ ʒ ╟˘ ⊢ ضر / ч ضر Â

└ Δ ṿ V/F └^ P16.11=0˜ Â ч ƨ ⌠ └ ˘ V/F

└ Ʒ Ạ ʒ Â

└№ ч └^ P16.11=2˜ غ └^ P16.11=1˜ Â ضي

└ Й̧ ʒ غ ˉ ʒ ǟ ˘ Ʒ G └

Â ضي Ð ̈Ḥ Й̧˘ Ạ ʒ غ ˉ ʒ Â

7.2 ǐ ƨ ƀ

7.2.1

⊢ γ Й̧ U˘ ˈP Â

^ 1˜ ⅃ Ɋ ч ɤ ⅄ ̈Ḥ ṿ^ ¤ 5V ɤ ṗ ˜ ’

^ 2˜ ǐ ƨ ₮ ^ U,V,W˜ غ Ɋ ’

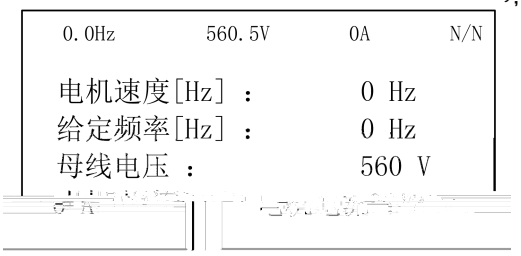
^ 3˜ ǐ ƨ └ ь ǐ ɾ └ Ɋ ’

^ 4˜ ą PG ƨ ⅄ ˘ PG ƨ ⅄ ь ƨ Ɋ Â

7.2.2

˘ ’ Й̧ ƀ Й̧ ɤ Â Ɋ̧ ̇

0.0Hz	560.5V	0A	N/N
电机速度[Hz] ：		0 Hz	
给定频率[Hz] ：		0 Hz	
母线电压 ：		560 V	



ǖ ˘ ь̇ ̇ ь □ ̉ ǖ ˘ ь Й̧

7.2.3 ǟ Δ .

ǟ Δ . ˘ ǟ ṿ ṿ Â ǐ r 6 w Â

7.2.4 ǟ

Ω Ả ˪ ǟ Â

w	O		ṿ
		[0] ˜	
		[1] ƀ	
P8.0	Ω˩	[2]DP	1
		[3]MODBUS	
		[4] w شج	
P8.3	Ả	[0] تمج Ả	1
		[1] Ả	
P8.6		0˙ 300s	0
P8.7	U Ḡ	Ả Ḡ 0˙ 300s	0
		[0]I/O	
		[1] ˜ 1	
		[2] ˜ 2	
P8.10		[3] ƀ	
		[4]DP	

ǟ

ɯ	ǟ O	ɣ
P16.0	˜ ˧	380V
P16.2	ɯ	ǟ
P16.3	˧	ǟ
P16.4		ǟ
P16.5		ǟ
P16.6		ǟ
P16.7		(120 ¦ P16.5 / P16.6) ǔ
P16.9	▯	(120 ¦ P16.5 / P16.7)
P16.11	∟	[0]V/F ∟ [1] [2]

7.2.5 ǟ ɜ̈

∟ ˘ ɜ̈ Â ɣ Ӈ ɜ̈˘

ˉ ǟ Â

ˆ 5˜ ∟

P16.11 ɣ˘ ч [1] [2] ↕ ч ∟˘ ɜ̈ ɛ̈ˉ

ɜ̈ Â ч [0] ↕ ч V/F ∟˘ ⁷ ɜ̈ Â

ˆ 6˜ ɜ̈

ضي V/F ∟ Ӈ ɜ̈ Ɜ̈ˆ ч ɜ̈˘⁷ (P20.74)

ɣ Â ضي ∟ Ӈ ɜ̈ ψ à ɣ ǐ ǟ ˆ P20.74 à P20.78 à P20.79 à P20.84˜ Â

ضي ɯ Ţ Ţ ɜ̈˘ U ˘ ɜ̈ Â ɜ̈ Ţ ľ

ɜ̈ ضي ˛ Ĺ˘ ɜ̈ U ľ ɜ̈ ˛ Ĺ Â

ˆ 7˜ ˉ ɜ̈

ضي ∟ Ӈ ˉ ɜ̈˘ ˉ ɜ̈ ɲ P20.79 à P20.84 ǟ ɣ˘

ǂ P20.85~P20.97 ǟ ɣ Â ضيˉ ɜ̈ ɥ ╟˘ ∟ Ӈ

7.2.7 Йţ

Йţ Йţ Â

╠ ė Ա ǫ ˘ Å ǯ ė ŋ Ɂ

˘ ƀ Â Ɂ ˆ Ɂ ĭ ˘ ˜ ˘ ɤ

ė ⁞ Ɂ Â

ą ƀ ƀ Йţ '

ˆ 1˜ ˘ Δ '

ˆ 2˜ ч ض L˘ LOCAL/REMOTE LOCAL˘ LOCAL ˝ '

ˆ 3˜ ƀ RUN ˘ ĭ ƨ˘ RUN ˝ ˘ ' ˆ

ч 5Hz˜

ˆ 4˜ ɣ h ˘ ɾ ĭ ƨ '

ˆ 5˜ 4 Ţ ˘ ↕ ɤ ṿ 50Hz˘ ƀ

Ŧ ˘ Ḡ ь Ŧ '

ˆ 6˜ U˘ STOP ˘ Å Â

7.2.8 Йţ

Йţ Йţ Â

ɣ Йţ Ԩ '

ˆ 1˜ ė Ա ǫ ŋ'

ˆ 2˜ ŋ Å '

ˆ 3˜ '

ˆ 4˜ K ˘ ˘ ė ɸ '

ˆ 5˜ Å ǯ ė ʊ ŋ Ɂ ˘ ƀ'

ˆ 6˜ ч Ŧ ' ˘ Ạ Йţ ƀ STOP ‰ Â

ɣ Й,Ҥ ˈ

ˆ 1˜ ˗ ƀ h Ɂ ˆ h Ɂ ˜ ’

ˆ 2˜ ɤ ɛ ⁞ Ɂ Â

ضي ☼ Ʊ˘ ƀ ▯ ƀ Â

ˆ 1˜ ₮ Ɂ ’

ˆ 2˜ ī́ ṿ ɛ h˘ Ɂ ɛ ˗ Â

7.2.9 ǟ Ḡ

ضي ʍ ˧ Ţ м ǟ ˘ ī́ ƨ ǟ ṿ ʃ ƀ Ữ ˧ ṗ Â

ī́ ƨ ˪ ˘ ƀ ʃ ˪ ˘ ˧ˆ Âˆ

ʌ ǟ ˪ ṗ ɐ ƀ ɥ ╟ ɯ̄ ˘ Ɂ ↕ ʌ ǟ ʍ˜

8. ΐ ϛ ᾰ

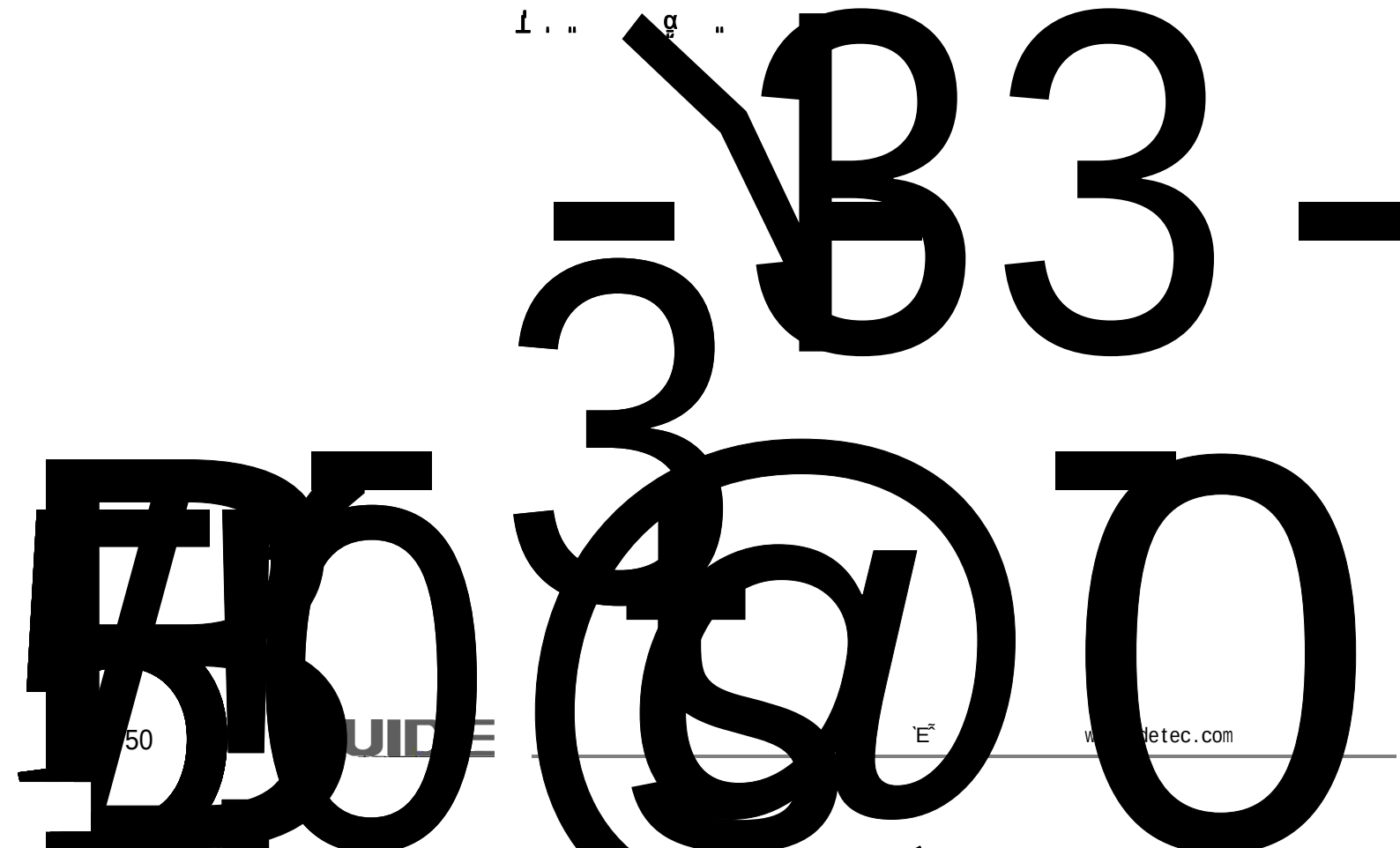
8.1 ΐ P2

w	O		مخ	ṿ	
P2.0		[0] ϟ ' ƀ ϟ ϟ ą ' [1] ʜ' ƀ ϟ Ţ ʜ ą ' [2] ɾ' ƀ ϟ 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	' Ӣ˜ ɾ	0˙ 5	1	

8.2 ~ P3

w O مخ ṿ

P3.-3



2 ĩ

3 ¯ ą
ˆ ~ ч ą

4 ¯ ą .NC
ˆ γ ~ ч γ ą

5 β β w Âь

• H

8.4 ˜ P5

w	O			مخ	ṿ
P5.0	AI1	قمم	[0] [1]0˙ +10V [2]-10˙ +10V [3]0˙ 20mA	0˙ 3	1
P5.1	AI1		AI1 Â ṿ ĭ Ш مخ ĭ ˗ ą Â ṿ ↕ Ψ ☼ Й ˗ p ʒ Ψ ĭ Â	0.0˙ 1000.0 [ms]	25.0 [ms]
P5.2	AI1	⅄ Ẓ	AI1 ⅄ 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	⅄	AI1 ⅄	-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	⅄	AI1 ⅄	-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	قمم	[0] [1]0˙ +10V [2]-10˙ +10V [3]0˙ 20mA	0˙ 3	3

AI2

Â

ṿ ỉ ᴌ مخ ỉ ˗

P5.19 AI2

ą Â

ṿ ↕ Ψ

ṿ ̣ Й ˗ ᵖ ʒ Ψ .19

8.5 ₮ P6

ʷ	O		مخ	ṿ	
P6.0	AO1 ₮	7-1	0˙ 14	2	
P6.1	ʷ شج ₮1	ʷ شج ₮ ṿ	0˙ 1000	0	
P6.2	AO1 ₮ ṿ	AO1 ₮ ṿ	-300.0˙ 300.0 [%]	0.0 [%]	
P6.3	AO1 ₮ ṿ	AO1 ₮ ṿ	-300.0˙ 300.0 [%]	100.0 [%]	
P6.4	AO1 ₮ [mĂ V]	AO1 ₮	0.0˙ 100.0 [%]	0.0 [%]	
P6.5	AO1 ₮ [mĂ V]	AO1 ₮	0.0˙ 100.0 [%]	100.0 [%]	
P6.6	AO1 Ẓ ṿ	AO1 Ẓ ṿ	-100.00˙ 100.00 [%]	0.00 [%]	
P6.7	AO1 نھ ₮	AO1 نھ ₮ (P6.0 ч [13] ṿ)	0.0˙ 100.0 [%]	0.0 [%]	
P6.8	AO1	AO1 Â ₮ ṿ ĭ Ш مخ ĭ ˩ ą Â ṿ ↕ Ψ ₮ ṿ ⁝ Й ˩ p ǯ Ψ ĭ Â	0.0˙ 1000.0 [ms]	10.0 [ms]	
P6.14	AO2 ₮	7-1	0˙ 14	4	
P6.15	ʷ شج ₮2	ʷ شج ₮ ṿ	0˙ 1000	0	
P6.16	AO2 ₮ ṿ	AO2 ₮ ṿ	-300.0˙ 300.0 [%]	0.0 [%]	
P6.17	AO2 ₮ ṿ	AO2 ₮ ṿ	-300.0˙ 300.0 [%]	100.0 [%]	
P6.18	AO2 ₮ [mĂ V]	AO2 ₮	0.0˙ 100.0 [%]	0.0 [%]	
P6.19	AO2 ₮ [mĂ V]	AO2 ₮	0.0˙ 100.0 [%]	100.0 [%]	
P6.20	AO2 Ẓ ṿ	AO2 Ẓ ṿ	-100.00˙ 100.00 [%]	0.00 [%]	

P6.21 AO2 ᶜ ₮ AO2 ᶜ ₮ (P6.14 0.0˙ ▬
ᶜ [13] ᵥ)

8.6 Ḡ ǟ P7

w˙	O			ɴ	ṿ
P7.0	└ ṿ [1]	1	└ ṿ	0.0˙ 300.0 [%]	180.0 [%]
P7.1	└ ṿ [2]	2	└ ṿ	0.0˙ 300.0 [%]	180.0 [%]
P7.2	└ ṿ [3]	3	└ ṿ	0.0˙ 300.0 [%]	180.0 [%]
P7.3	└ ṿ [4]	4	└ ṿ	0.0˙ 300.0 [%]	180.0 [%]
P7.4	Ḡ [1]	1	Ḡ ṿ	0.0˙ 300.0 [%]	235.0 [%]
P7.5	Ḡ [2]	2	Ḡ ṿ	0.0˙ 300.0 [%]	235.0 [%]
P7.6	Ḡ [3]	3	Ḡ ṿ	0.0˙ 300.0 [%]	235.0 [%]
P7.7	Ḡ [4]	4	Ḡ ṿ	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	˧˥	˧˥ ṿ		600˙ 820 [V]	800 [V]
P7.13	˧˥	˧˥ ṿ		300˙ 500 [V]	350 [V]
P7.14		ṿ		60.0˙ 100.0 [Ṇ]	87.5 [Ṇ]
P7.15		ṿ		50.0˙ 100.0 [Ṇ]	80.0 [Ṇ]
P7.19	[1]	1	ṿ	100.0˙ 720.0 [%]	120.0 [%]
P7.20	[2]	2	ṿ	100.0˙ 720.0 [%]	120.0 [%]
P7.21	[3]	3	ṿ	100.0˙ 720.0 [%]	120.0 [%]

P7.22	[4]	4 ṿ	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	ᴍᴏ	Ḡ № ṿ	0.0˙ 100.0 [%]	25.0 [%]	
P7.32		Ḡ	0.00˙ 5.00 [s]	1 [s]	
P7.33	ʒ̈	ʒ̈	0.0˙ 1000.0 [s]	360.0 [s]	
P7.47		̏Ḥ ṿ	0.0˙ 300.0 [%]	100.0 [%]	
P7.48	1	1 ṿ	0.0˙ 300.0 [%]	150.0 [%]	
P7.49	1	̏Ḥ 1	0.00˙ 60.00 [s]	60.00 [s]	
P7.50	2	2 ṿ	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	₮ ᵻ		0.10˙ 3.00 [s]	0.30 [s]	
P7.64	˩˧	[0] [1] ą	0˙ 1	0	
P7.65	˩˧ Ɔ˧ Ẓ ˧˥	˩˧ Ɔ˧ ˧˥ Ẓ ṿ	-25˙ 100 [V]	0 [V]	
P7.66	˩˧ ƀ Ẓ ˧˥	˩˧ Ḡ ˧˥ Ẓ ṿ	-25˙ 100 [V]	0 [V]	
P7.69	˧˥ ˩˧ ą	[0] [1] ą	0˙ 1	0	
P7.70	˧˥ ˩˧ Ẓ ṿ	˧˥ ˩˧ ṿ Ẓ	-25˙ 100 [V]	0 [V]	
P7.73	˧˥ ˩˧ ą	[0] [1] ą	0˙ 1	0	
P7.74	˧˥ ˩˧ ṿ		300˙ 500 [V]	460 [V]	
P7.75	˧˥ ˩˧ ʊ		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	˧˩ ƀ	[0] ˩˧ [1] ˧˥ ˩˧	0˙ 1	1	
P7.95	˜Ḥ	AFE ˩˧ J̌ ˜Ḥ	0.0˙ 3000.0 [s]	15.0 [s]	
P7.96	˜	˜	0.00˙ 300.00 [s]	0.00 [s]	

8.7 1 Ω Å L P8

w O مخ ṿ

[0] ˜

[1] ƀ

P8.0 Ω¬ [2]DP خه

P8.18 ᴠ 2

ᴄ P8.15 ᴠ ∫

8.8 2 Ω Å L P9

w	O		خ	ṿ	
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	ѵ L	[0] [1]PROFIBUS [2]MODBUS [3] ض	0˙ 3	0	
P9.14	ѵ Ô		0.1˙ 10.0	1.0	
P9.15	ѵ ٧1	₩ ѵ	0.0˙ 300.0 [%]	100.0 [%]	
P9.16	ѵ 1	ɾ Å ⌠P9.15 ṿ ѵ	0.0˙ 300.0 [s]	3.00 [s]	
P9.17	ѵ ٧2	Ʉ ѵ	0.0˙ 300.0 [%]	200.0 [%]	

P9.18	ᴠ 2	ɾ P9.15 ᴠ ʃ P9.17 ᴠ ᴠ	0.0˙ 300.0 [s]	4.00 [s]	
P9.19	ᴠ ᴍ 3	᷈ ɷ ᴠ	0.0˙ 300.0 [%]	240.0 [%]	
P9.20	ᴠ 3	ɾ P9.17 ᴠ ʃ P9.19 ᴠ ᴠ	0.0˙ 300.0 [s]	7.00 [s]	
P9.21	ᴠ ᴍ 4	ضم ɷ ᴠ	0.0˙ 300.0 [%]	300.0 [%]	
P9.22	ᴠ 4	ɾ P9.19 ᴠ ʃ P9.21 ᴠ ᴠ	0.0˙ 300.0 [s]	10.00 [s]	
P9.23	ᴠ ᴍ 5	ɲ ɷ ᴠ	0.0˙ 300.0 [%]	300.0 [%]	
P9.24	ᴠ 5	ɾ P9.21 ᴠ ʃ P9.23 ᴠ ᴠ	0.0˙ 300.0 [s]	10.00 [s]	
P9.25	ᴠ ᴍ 6	ʹE ɷ ᴠ	0.0˙ 300.0 [%]	300.0 [%]	
P9.26	ᴠ 6	ɾ P9.23 ᴠ ʃ P9.25 ᴠ ᴠ	0.0˙ 300.0 [s]	10.00 [s]	
P9.27	ᴠ ᴍ 7	≠ ɷ ᴠ	0.0˙ 300.0 [%]	300.0 [%]	
P9.28	ᴠ 7	ɾ P9.25 ᴠ ʃ P9.27 ᴠ ᴠ	0.0˙ 300.0 [s]	10.00 [s]	
P9.29	ᴠ ᴍ 8	ῇ ɷ ᴠ	0.0˙ 300.0 [%]	300.0 [%]	
P9.30	ᴠ 8	ɾ P9.27 ᴠ ʃ P9.29 ᴠ ᴠ	0.0˙ 300.0 [s]	10.00 [s]	
P9.32	⁞ L	[0] [1]PROFIBUS [2]MODBUS [3] ضر	0˙ 3	0	
P9.33	⁞ Ȍ		0.1˙ 10.0	1.0	
P9.34	⁞ ᴍ 1	ϖ ɷ ⁞	0.0˙ 300.0 [%]	100.0 [%]	
P9.35	⁞ 1	ɾ P9.34 ᴠ ʃ Ả ⁞	0.0˙ 300.0 [s]	3.00 [s]	
P9.36	⁞ ᴍ 2	ʜ ɷ ⁞	0.0˙ 300.0 [%]	200.0 [%]	

P9.37		2	ɾ P9.34	ṿ	⌠ P9.36	ṿ	0.0˙	300.0 [s]	4.00 [s]
P9.38	ᴠ 3		⁝				0.0˙	300.0 [%]	240.0 [%]
P9.39	⁝	3	ɾ P9.36	ṿ	⌠ P9.38	ṿ	0.0˙	300.0 [s]	7.00 [s]
P9.40	⁝	ᴠ 4	⁝				0.0˙	300.0 [%]	300.0 [%]
P9.41	⁝	4	ɾ P9.38	ṿ	⌠ P9.40	ṿ	0.0˙	300.0 [s]	10.00 [s]
P9.42	⁝	ᴠ 5	⁝				0.0˙	300.0 [%]	300.0 [%]
P9.43	⁝	5	ɾ P9.40	ṿ	⌠ P9.42	ṿ	0.0˙	300.0 [s]	10.00 [s]
P9.44	⁝	ᴠ 6	⁝				0.0˙	300.0 [%]	300.0 [%]
P9.45	⁝	6	ɾ P9.42	ṿ	⌠ P9.44	ṿ	0.0˙	300.0 [s]	10.00 [s]
P9.46	⁝	ᴠ 7	⁝				0.0˙	300.0 [%]	300.0 [%]
P9.47	⁝	7	ɾ P9.44	ṿ	⌠ P9.46	ṿ	0.0˙	300.0 [s]	10.00 [s]
P9.48	⁝	ᴠ 8	⁝				0.0˙	300.0 [%]	300.0 [%]
P9.49	⁝	8	ɾ P9.46	ṿ	⌠ P9.48	ṿ	0.0˙	300.0 [s]	

8.9 3 Ω Å L P10

w	O		مخ	ṿ	
P10.0	Ω	[0] ~ [1] ƀ [2]DP [3]MODBUS [4] w شج	0˙ 4	0	
P10.1	شج Ω	Ω w شج			
P10.2	شج h	h w شج			
P10.3	Å	[0] تمج 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 شج	0˙ 6	0	
P10.11	شج	w شج			
P10.13	٧ L	[0] [1]PROFIBUS [2]MODBUS [3] ضر	0˙ 3	0	
P10.14	٧ Ȍ		0.1˙ 10.0	1.0	
P10.15	٧ ٧ 1	w̄ ɑ ٧	0.0˙ 300.0 [%]	100.0 [%]	
P10.16	٧ 1	ɾ Å ⌠ P10.15 ṿ ٧	0.0˙ 300.0 [s]	3.00 [s]	
P10.17	٧ ٧ 2	ɦ ɑ ٧	0.0˙ 300.0 [%]	200.0 [%]	

P10.18	ᴠ	2	ɾ P10.15 ᴠ	ṿ	⌠ P10.17	ṿ	0.0˙ [s]	300.0 [s]	4.00
P10.19	ᴠ	ᴍ 3	᷂ ɷ ᴠ				0.0˙ [%]	300.0 [%]	240.0
P10.20	ᴠ	3	ɾ P10.17 ᴠ	ṿ	⌠ P10.19	ṿ	0.0˙ [s]	300.0 [s]	7.00
P10.21	ᴠ	ᴍ 4	ضم ɷ ᴠ				0.0˙ [%]	300.0 [%]	300.0
P10.22	ᴠ	4	ɾ P10.19 ᴠ	ṿ	⌠ P10.21	ṿ	0.0˙ [s]	300.0 [s]	10.00
P10.23	ᴠ	ᴍ 5	ɲ ɷ ᴠ				0.0˙ [%]	300.0 [%]	300.0
P10.24	ᴠ	5	ɾ P10.21 ᴠ	ṿ	⌠ P10.23	ṿ	0.0˙ [s]	300.0 [s]	10.00
P10.25	ᴠ	ᴍ 6	ʹE ɷ ᴠ				0.0˙ [%]	300.0 [%]	300.0
P10.26	ᴠ	6	ɾ P10.23 ᴠ	ṿ	⌠ P10.25	ṿ	0.0˙ [s]	300.0 [s]	10.00
P10.27	ᴠ	ᴍ 7	≠ ɷ ᴠ				0.0˙ [%]	300.0 [%]	300.0
P10.28	ᴠ	7	ɾ P10.25 ᴠ	ṿ	⌠ P10.27	ṿ	0.0˙ [s]	300.0 [s]	10.00
P10.29	ᴠ	ᴍ 8	ῇ ɷ ᴠ				0.0˙ [%]	300.0 [%]	300.0
P[illegible]30	ᴠ	8	ɾ P10.27 ᴠ	ṿ	⌠ P10.29	ṿ	0.0˙ [s]	300.0 [s]	10.00

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	⁞			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	⁞			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	⁞			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	⁞			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] [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		مخ	ṿ	
P11.0	Ω	[0] ~ [1] ƀ [2]DP [3]MODBUS [4] w شج	0˙ 4	0	
P11.1	شج Ω	Ω w شج			
P11.2	شج h	h w شج			
P11.3	Å	[0] تمج 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 شج	0˙ 6	0	
P11.11	شج	w شج			
P11.13	ν L	[0] [1]PROFIBUS [2]MODBUS [3] ضر	0˙ 3	0	
P11.14	ν Ȍ		0.1˙ 10.0	1.0	
P11.15	ν ᴍ 1	ϖ ɑ ν	0.0˙ 300.0 [%]	100.0 [%]	
P11.16	ν 1	ɾ Å ⌠ P11.15 ṿ ν	0.0˙ 300.0 [s]	3.00 [s]	
P11.17	ν ᴍ 2	ʜ ɑ ν	0.0˙ 300.0 [%]	200.0 [%]	

P11.37	⁞ 2	ɾ P11.34 ṿ ⌠ P11.36 ṿ ⁞	0.0˙ 300.0 [s]	4.00 [s]	
P11.38	⁞ ᴹ 3	⁞ ɷ ⁞	0.0˙ 300.0 [%]	240.0 [%]	
P11.39	⁞ 3	ɾ P11.36 ṿ ⌠ P11.38 ṿ ⁞	0.0˙ 300.0 [s]	7.00 [s]	
P11.40	⁞ ᴹ 4	ضم ɷ ⁞	0.0˙ 300.0 [%]	300.0 [%]	
P11.41	⁞ 4	ɾ P11.38 ṿ ⌠ P11.40 ṿ ⁞	0.0˙ 300.0 [s]	10.00 [s]	
P11.42	⁞ ᴹ 5	ɲ ɷ ⁞	0.0˙ 300.0 [%]	300.0 [%]	
P11.43	⁞ 5	ɾ P11.40 ṿ ⌠ P11.42 ṿ ⁞	0.0˙ 300.0 [s]	10.00 [s]	
P11.44	⁞ ᴹ 6	Ɛ́ ɷ ⁞	0.0˙ 300.0 [%]	300.0 [%]	
P11.45	⁞ 6	ɾ P11.42 ṿ ⌠ P11.44 ṿ ⁞	0.0˙ 300.0 [s]	10.00 [s]	
P11.46	⁞ ᴹ 7	≠ ɷ ⁞	0.0˙ 300.0 [%]	300.0 [%]	
P11.47	⁞ 7	ɾ P11.44 ṿ ⌠ P11.46 ṿ ⁞	0.0˙ 300.0 [s]	10.00 [s]	
P11.48	⁞ ᴹ 8	ῃ ɷ ⁞	0.0˙ 300.0 [%]	300.0 [%]	
P11.49	⁞ 8	ɾ P11.46 ṿ ⌠ P11.48 ṿ ⁞	0.0˙ 300.0 [s]	10.00 [s]	
P11.54			0.0˙ 300.0 [%]	0.0 [%]	
P11.55	ΐ́ h ⁞ ą	[0] [1] ą	0˙ 1	0	
P11.56	ΐ́ h ⁞		0.00˙ 300.00 [s]	3.00 [s]	
P11.57	Ả	[0] ᴹ Ả [1] Ả	0˙ 1	1	
P11.58	Ả ⁞		0.00˙ 300.00 [s]	1.50 [s]	

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

8.12 2 ᴸ P13

w˙	O		مخ	V
P13.0		[0] ˜ [1]ᴴᴗ ᴸ	0˙ 1	1
P13.1	ᴵ 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			

8.13 3 ᴸ P14

w	O		مخ	ṿ
P14.0		[0] ~ [1]ʜ ᴸ	0˙ 1	1
P14.1	ɴ 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 ṿ	h ṿ	0.0˙ 20.0 [%]	2.0 [%]
P14.23	ĩ h ṿ	ĩ h ṿ	0.0˙ 20.0 [%]	0.0 [%]
P14.24	h	h	0.0˙ 200.0 [%]	30.0 [%]
P14.25	ĩ h	ĩ h	0.0˙ 200.0 [%]	20.0 [%]
P14.26	h	h	0.00˙ 2.00 [s]	0.00 [s]

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

8.14 4 ᒪ

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

8.15 1 ǎ V/F P16

w	O		مخ	ṿ	
P16.0	~ ⅄	~ ⅄	320˙ 460 [V]	380 [V]	
P16.2	w	ǎ	0.0˙ 4000.0 [kW]	قمم [kW]	
P16.3	⅄	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]ɥ	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	ʒ	[0]ضي [1]	0˙ 1	0	

P16.22	Ϙ⁻	Ϙ⁻	0.00˙ 100.00 [s]	0.00 [s]
P16.23		ˆ ǟ 7 ضي V/F L Ӿ ~	0.00˙ 300.00 [Hz]	0.00 [Hz]
P16.24		ˆ ǟ 7 ضي V/F L Ӿ ~	0.00˙ 300.00 [Hz]	50.00 [Hz]
P16.25	L	L	0.0˙ 120.0 [%]	100.0 [%]
P16.26	V/F Ϙ⁻ ⅄ Ẓ	V/F Ϙ⁻ ⅄ Ẓ	0.00˙ 10.00 [%]	0.75 [%]
P16.27	₮ ⅄	₮ ⅄	0.0˙ 200.0 [%]	100.0 [%]
P16.30	ⱨ Ϙ⁻ ⅄ ễ	ⱨ Ϙ⁻ ⅄ ễ	0.0˙ 100.0 [%]	0.0 [%]
P16.33	V/F	V/F	0˙ 6	2
P16.34	V/F 1		0.0˙ 300.0 [Hz]	5.0 [Hz]
P16.35	V/F ⅄ 1		0.0˙ 128,	

J

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[H

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P16.48

8.16 2 ǟ V/F P17

w	O			مخ	V
P17.0	~ ⅄		~ ⅄	320˙ 460 [V]	380 [V]
P17.2	w		ǟ	0.0˙ 4000.0 [kW]	قمم [kW]
P17.3	⅄		ǟ	320˙ 460 [V]	380 [V]
P17.4			ǟ	0.0˙ 6500.0 [A]	قمم [A]
P17.5			ǟ	0.0˙ 300.0 [Hz]	50.0 [Hz]
P17.6			ǟ	0˙ 6000 [rpm]	1465 [rpm]
P17.7			ǟ	2˙ 12 [pole]	4 [pole]
P17.9	□		ǟ	0˙ 7200 [rpm]	1500 [rpm]
P17.11	L	[0]V/F L [1] [2] [3] عج [4]		0˙ 4	0
P17.12				1.00˙ 10.00 [kHz]	3.00

0

P17.22	Ϙ˪	Ϙ˪	0.00˙ 100.00 [s]	0.00 [s]
P17.23	V/F L	ˆ ǎ 7 ضي Ǔ ~	0.00˙ 300.00 [Hz]	0.00 [Hz]
P17.24	V/F L	ˆ ǎ 7 ضي Ǔ ~	0.00˙ 300.00 [Hz]	50.00 [Hz]
P17.25	L	L	0.0˙ 120.0 [%]	100.0 [%]
P17.26	V/F Ϙ˪ ⅄ Ẓ	V/F Ϙ˪ ⅄ Ẓ	0.00˙ 10.00 [%]	0.75 [%]
P17.27	Ŧ ⅄	Ŧ ⅄	0.0˙ 200.0 [%]	100.0 [%]
P17.30	⊔ Ϙ˪ ⅄ ễ	⊔ Ϙ˪ ⅄ ễ	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 ⅄ 1		0.0˙ 125.0 [%]	11.5 [%]
P17.36	V/F 2		0.0˙ 300.0 [Hz]	50.0 [Hz]
P17.37	V/F ⅄ 2		0.0˙ 125.0 [%]	100.0 [%]
P17.38	V/F 3		0.0˙ 300.0 [Hz]	50.0 [Hz]
P17.39	V/F ⅄ 3		0.0˙ 125.0 [%]	100.0 [%]
P17.40	V/F 4		0.0˙ 300.0 [Hz]	50.0 [Hz]
P17.41	V/F ⅄ 4		0.0˙ 125.0 [%]	100.0 [%]
P17.42	V/F 5		0.0˙ 300.0 [Hz]	50.0 [Hz]
P17.43	V/F ⅄ 5		0.0˙ 125.0 [%]	100.0 [%]
P17.44	V/F 6		0.0˙ 300.0 [Hz]	50.0 [Hz]
P17.45	V/F ⅄ 6		0.0˙ 125.0 [%]	100.0 [%]
P17.46	V/F @ شج		0˙ 300	0
P17.47	⅄ @ 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		مخ	ṿ	
P18.0	~ ⅄	~ ⅄	320˙ 460 [V]	380 [V]	
P18.2	w	ǎ	0.0˙ 4000.0 [kW]	قمم [kW]	
P18.3	⅄	ǎ	320˙ 460 [V]	380 [V]	
P18.4		ǎ	0.0˙ 6500.0 [A]	قمم [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] عج [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]ɥ	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	ʒ	[0]ضي [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	ԋ Ω¬ ۱ ẽ	ԋ 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	Ƨ˩ L˩	Ƨ˩ L˩	0.00˙ 300.00 [s]	0.00 [s]	
P18.51	Ƨ˩ L˩	Ƨ˩ L˩	0.0˙ 150.0 [%]	70.0 [%]	
P18.52	Ƨ˩ L˩	Ƨ˩ L˩	0.00˙ 5.00 [Hz]	0.00 [Hz]	
P18.54	Ả L˩	Ả L˩	0.00˙ 300.00 [s]	0.00 [s]	
P18.55	Ả L˩	Ả L˩	0.0˙ 150.0 [%]	75.0 [%]	
P18.56	Ả L˩	Ả 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	ɿ L ɒ	ɿ L ɒ	0.0˙ 1000.0 [%]	100.0 [%]	
P18.62	ɿ L №	ɿ 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 Ӈ L ɒ	0.0˙ 1000.0 [%]	100.0 [%]	
P18.67	Ƨ˩ L˩ ɒ	Ƨ˩ L˩ ɒ	0.0˙ 1000.0 [%]	100.0 [%]	
P18.68	Ƨ˩ L˩ №	Ƨ˩ L˩ №	0.0˙ 1000.0 [%]	100.0 [%]	
P18.69	Ả L˩ ɒ	Ả L˩ ɒ	0.0˙ 1000.0 [%]	100.0 [%]	
P18.70	Ả L˩ №	Ả L˩ №	0.0˙ 1000.0 [%]	100.0 [%]	

8.18 4 ᴄ̃ V/F P19

ᴡ	O		مخ	ᴠ
P19.0	~ ᴧ	~ ᴧ	320˙ 460 [V]	380 [V]
P19.2	ᴡ	ᴄ̃	0.0˙ 4000.0 [kW]	قمم [kW]
P19.3	ᴧ	ᴄ̃	320˙ 460 [V]	380 [V]
P19.4		ᴄ̃	0.0˙ 6500.0 [A]	قمم [A]
P19.5		ᴄ̃	0.0˙ 300.0 [Hz]	50.0 [Hz]
P19.6		ᴄ̃	0˙ 6000 [rpm]	1465 [rpm]
P19.7		ᴄ̃	2˙ 12 [pole]	4 [pole]
P19.9	□	ᴄ̃	0˙ 7200 [rpm]	1500 [rpm]
P19.11	L	[0]V/F L [1] [2] [3] عج [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]ᴎ	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		

P19.22	Ω˜	Ω˜	0.00˙ 100.00 [s]

P19.48		[0] [1]PID شج1 [2]PID شج2 [3] w شج	0˙ 3	0	
P19.49	@ شج		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			مخ	ṿ
P20.0	L	[0] [1] ą	0˙ 1	0
P20.1		[0] ₮ [1] ~ 1 [2] ~ 2 [3] ƀ [4] ǎ ' P20.3 ṿ [5]DP [6]MODBUS [7] w شج	0˙ 7	0
P20.2		[illegible]	0˙ 7	0
P20.3	نه ṿ	نه ṿ	-300.0˙ 300.0 [%]	0.0 [%]
P20.4	@ شج		0˙ 300	0
P20.5	~ ṿ		0˙ 1000 [ms]	0 [ms]
P20.6			0.0˙ 200.0 [%]	100.0 [%]
P20.7	L ṿ	[0] ṗ L ṿ [1] ǎ ' P20.8 غ P20.9 [2] ~ 1 [3] ~ 2 [4] ƀ [5]DP [6]MODBUS [7] w شج	0˙ 7	0
P20.8	h L ṿ	P20.7 [1] ṿ	0.0˙ 300.0 [%]	200.0 [%]
P20.9	ǐ h L ṿ			

P20.13	ᵀ	ᵀ	20.0˙ 500.0 [ms]	100.0 [ms]	
P20.14	ر ǁ	1ثم ǁ	0˙ 60000	1024	
P20.15	ر ǐ h	[0] [1] ą	0˙ 1	0	
P20.16	h	h ^ ٧ ضي ˪ Ǐ˛ ~	0.0˙ 300.0 [%]	100.0 [%]	
P20.17	ǐ h	ǐ h ^ ٧ ضي ˪ Ǐ˛ ~	0.0˙ 300.0 [%]	100.0 [%]	
P20.18	h	h ^ ٧ ضي ˪ Ǐ˛ ~	0.0˙ 300.0 [%]	0.0 [%]	
P20.19	ǐ h	ǐ h ^ ٧ ضي ˪ Ǐ˛ ~	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 Ǐ˛	0.0˙ 300.0 [%]	160.0 [%]	
P20.23	ẏ	ă ضي w Ǐ˛	0.0˙ 200.0 [%]	20.0 [%]	
P20.24	˪ ẏ	ă ضي w Ǐ˛	0.0˙ 300.0 [%]	100.0 [%]	
P20.25	ẏ	ă ضي w Ǐ˛	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 ^ Ǐ˛˜	[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	ĩ	Ẓ	ĩ	Ẓ	ṿ	0.0˙ 100.0 [%]	5.0 [%]

P20.53	:	L Kp	L ᴄ ᴅ	0.0˙ 1000.0 [%]

P20.77		2		ضي	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	غج 1		غج 1			0.800˙ 1.350	1.140
P20.81	غج 2		غج 2			0.800˙ 1.350	0.940
P20.82	غج 3		غج 3			0.800˙ 1.350	1.080
P20.83	غج 4		غج 4			0.800˙ 1.350	0.950
P20.84						0.00˙ 655.00 [mH]	0.00 [mH]
P20.85		شي85%	85%	ε		40.0˙ 150.0 [%]	108.0 [%]
P20.86		شي87.5%	87.5%	ε		40.0˙ 150.0 [%]	106.5 [%]
P20.87		شي90%	90%	ε		40.0˙ 150.0 [%]	105.0 [%]
P20.88		شي92.5%	92.5%	ε		40.0˙ 150.0 [%]	103.5 [%]
P20.89		شي95%	95%	ε		40.0˙ 150.0 [%]	102.0 [%]
P20.90		شي102.5%	102.5%	ε		40.0˙ 150.0 [%]	99.0 [%]
P20.91		شي105%	105%	ε		40.0˙ 150.0 [%]	96.5 [%]
P20.92		شي110%	110%	ε		40.0˙ 150.0 [%]	93.0 [%]
P20.93		شي115%	115%	ε		40.0˙ 150.0 [%]	88.5 [%]
P20.94		شي120%	120%	ε		40.0˙ 150.0 [%]	83.0 [%]
P20.95		شي125%	125%	ε		40.0˙ 150.0 [%]	77.0 [%]
P20.96		شي130%	130%	ε		40.0˙ 150.0 [%]	70.5 [%]
P20.97		شي135%	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		مخ	ṿ	
P21.0	L	[0] [1] ą	0˙ 1	0	
P21.1		[0] ₮ [1] ~ 1 [2] ~ 2 [3] ƀ [4] ǟ ' P21.3 ṿ [5]DP [6]MODBUS [7] w شج	0˙ 7	0	
P21.2		[illegible]	0˙ 7	0	
P21.3	نه ṿ	نه ṿ	-300.0˙ 300.0 [%]	0.0 [%]	
P21.4	@ شج		0˙ 300	0	
P21.5	~ ṿ		0˙ 1000 [ms]	0 [ms]	
P21.6			0.0˙ 200.0 [%]	100.0 [%]	
P21.7	L ṿ	[0] ṗ L ṿ [1] ǟ ' 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 ṿ	P21.7 [1] ṿ	0.0˙ 300.0 [%]	200.0 [%]	
P21.9	ĩ h L ṿ	P21.7 [1] ṿ	0.0˙ 300.0 [%]	200.0 [%]	
P21.10	L ṿ شج		0˙ 300	0	
P21.11	L		0˙ 1000 [ms]	0 [ms]	
P21.13	T	T	20.0˙ 500.0 [ms]	100.0 [ms]	

P21.54	:	└ Ki	└ كح №	0.0˙ 1000.0 [%] 100.0 [%]
P21.55		ɒ	└ كح ɒ	0.0˙ 1000.0 [%] 100.0 [%]
P21.56		№	└ كح №	0.0˙ 1000.0 [%] 100.0 [%]
P21.57		ą	[0] [1] ą	0˙ 1 0
P21.58			ـشي ṿ	0.0˙ 125.0 [%] 100.0 [%]
P21.59		Ả U :	ـشي 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 └ ǯ Â ǖ ˗ غ ˘ ṿ	30˙ 2000 [ms] 50 [ms]
P21.62		ɒ	└ كح ɒ	0.0˙ 1000.0 [%] 100.0 [%]
P21.63		№	└ كح №	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		مخ	ṿ
P22.0	L	[0] [1] ą	0˙ 1	0
P22.1		[0] ₮ [1] ~ 1 [2] ~ 2 [3] ƀ [4] ǟ ' P22.3 ṿ [5]DP [6]MODBUS [7] w شج	0˙ 7	0
P22.2		[illegible]	0˙ 7	0
P22.3 نھ	ṿ	نھ 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	شي Ḡ	Ả U شي Ḡ	0.0˙ 100.0 [s]	0.0 [s]	
P22.36	Ƨ˗ شي	Ƨ˗ شي ṿ	50.0˙ 150.0 [%]	110.0 [%]	
P22.37	Ƨ˗	Ƨ˗	0.0˙ 150.0 [%]	100.0 [%]	
P22.38	Ƨ˗	Ƨ˗	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˙ Ӈ ƀ ˜	25˙ 1000 [ms]	250 [ms]	
P22.45	h ṿ	ǎ ضي w˙ Ӈ ˆ ˜	0.0˙ 100.0 [%]	22.0 [%]	
P22.46	ǐ h ṿ	ǎ ضي w˙ Ӈ	0.0˙ 100.0 [%]	18.0 [%]	
P22.47	h ṿ	ǎ ضي w˙ Ӈ	0.0˙ 200.0 [%]	92.0 [%]	
P22.48	ǐ h ṿ	ǎ ضي w˙ Ӈ	0.0˙ 200.0 [%]	87.0 [%]	
P22.49	ṿ	ǎ ضي w˙ Ӈ	0.0˙ 150.0 [%]	100.0 [%]	
P22.51	⅄ L ɒ	⅄ L ɒ	0.0˙ 1000.0 [%]	100.0 [%]	
P22.52	⅄ L №	⅄ L №	0.0˙ 1000.0 [%]	100.0 [%]	

P22.53 :	L Kp	L ᴄᴊ	ᴅ	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		مخ	ṿ
P23.0	L	[0] [1] ą	0˙ 1	0
P23.1		[0] ₮ [1] ˜ 1 [2] ˜ 2 [3] ƀ [4] ǟ ' P23.3 ṿ [5]DP [6]MODBUS [7] w شج	0˙ 7	0
P23.2		[illegible]	0˙ 7	0
P23.3	نھ ṿ	نھ ṿ	-300.0˙ 300.0 [%]	0.0 [%]
P23.4	@ شج		0˙ 300	0
P23.5	˜ ṿ			

P23.54	:	└ Ki	└ كح №	0.0˙ 1000.0 [%]	100.0 [%]
P23.55		ɒ	└ كح ɒ	0.0˙ 1000.0 [%]	100.0 [%]
P23.56		№	└ كح №	0.0˙ 1000.0 [%]	100.0 [%]
P23.57		ą	[0] [1] ą	0˙ 1	0
P23.58			ـشي ṿ	0.0˙ 125.0 [%]	100.0 [%]
P23.59		Ả U :	ـشي Ả U : ṿ	1.0˙ 25.0 [%]	2.5 [%]
P23.60	DROOP	└	ч 0 ˘ DROOP └	0.0˙ 100.0 [%]	0.0 [%]
P23.61	DROOP	└	DROOP └ ǯ Â ǖ ˗ غ ˘ ṿ	30˙ 2000 [ms]	50 [ms]
P23.62		ɒ	└ كح ɒ	0.0˙ 1000.0 [%]	100.0 [%]

P23.78

			[0] ¦ 1			
			[1] ¦ 10			
P33.18	~ [W2]		[2] ¦ 100	0˙	4	0
			[3] ¦ 1000			
			[4] ¦ 10000			
P33.19	~	[W3]	7-2	0˙	37	0
			[0] ¦ 1			
			[1] ¦ 10			
P33.20	~ [W3]		[2] ¦ 100	0˙	4	0
			[3] ¦ 1000			
			[4] ¦ 10000			
P33.21	~	[W4]	7-2	0˙	37	1
			[0] ¦ 1			
			[1] ¦ 10			
P33.22	~ [W4]		[2] ¦ 100	0˙	4	0
			[3] ¦ 1000			
			[4] ¦ 10000			
P33.23	~	[W5]	7-2	0˙	37	18
			[0] ¦ 1			
			[1] ¦ 10			
P33.24	~ [W5]		[2] ¦ 100	0˙	4	2
			[3] ¦ 1000			
			[4] ¦ 10000			
P33.25	~	[W6]	7-2	0˙	37	21
			[0] ¦ 1			
			[1] ¦ 10			
P33.26	~ [W6]		[2] ¦ 100	0˙	4	1
			[3] ¦ 1000			
			[4] ¦ 10000			
P33.27	~	[W7]	7-2	0˙	37	22

0

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 ˜

ṿ	
0	ƀ ą
1	└ 0
2	└ 1
3	└ 2
4	└ 3
5	└ 4
6	ᴄ β [32]
7	ᴄ γ β [32]
8	32_MSW
9	32_LSW
10	₮
11	ᾰ └
12	ᾰ 0 @32bit
13	ᾰ 1 @32bit
14	ᾰ 2 @32bit
15	ᾰ 3 @32bit
16	ᾰ 4 @32bit
17	ᾰ 5 @32bit
18	[Hz]
19	[rpm]
20	[%]
21	[%]
22	└ ṿ [%]
23	└ ṿ [Hz]
24	ɯ
25	ɯ
26	₮ 1[%]
27	₮ 2[%]
28	ʋ └
29	⋮ └
30˙ 37	SET_W12˙ 19

7-3 ₮

ṿ	
0	ѣ ą
1	0
2	1
3	2
4	3
5	4
6	5
7	ᾰ 0 @32bit
8	ᾰ 1 @32bit
9	ᾰ 2 @32bit
10	ᾰ 3 @32bit
11	ᾰ 4 @32bit
12	ᾰ 5 @32bit
13	ᴓ β [32]
14	ᴓ γ β [32]
15	32bit_MSW
16	32bit_LSW
17	~
18	₮
19	₮
20	ᵀ [rpm]
21	[rpm]
22	ᵀ

9. ĭ

9.1 ᑭ ᒉ

ضي Å ᑭ ᒉ '

ᑭ ᒉ	ᑭ Ḥ	ᑭ ᐟ ᑲ
W01	‰ SYS_NOT_RDY	

9.2 ๆ

Ӥ ๆ '

ๆ	Ḥ	
[E050]	U ☼ ^ ѣ˜ β ~ ERR_UT not reset	IGBT ʅ IGBT ˩ ĭ ˩ ʅ U ☼
[E051]	U Ӥ ^ ѣ˜ β ~ ERR_UT not reset	IGBT ʅ IGBT ˩ ĭ ˩ ʅ U ☼
[E052]	V ☼ ^ ѣ˜ β ~ ERR_UT not reset	IGBT ʅ IGBT ˩ ĭ ˩ ʅ U ☼
[E053]	V Ӥ ^ ѣ˜ β ~ ERR_UT not reset	IGBT ʅ IGBT ˩ ĭ ˩ ʅ U ☼
[E054]	W ☼ ^ ѣ˜ β ~ ERR_UT not reset	IGBT ʅ IGBT ˩ ĭ ˩ ʅ U ☼
[E055]	W Ӥ ˧ ^ ѣ˜ β ~ ERR_UT not reset	IGBT ʅ IGBT ˩ ĭ ˩ ʅ U ☼
[E056]	ɾ ^ ѣ˜ β ~ ERR_SLAVE_FAULT not reset	ɾ ʅ ɾ U ☼
[E100]	˧ OV	ǟ P8.35(⁞ 1) ì ǟ P7.12(˧)
[E105]	˧ UV	⁜ ~ ˧ Ӥ ˧ ⌠ ì └ ṿ ~ ~ ˧ ǟ P7.13(˧)
[E110]	OC	ĭ ʊ Ţ˘ ' ʅ ' ɤ ⁞ ' ĭ ì ʅ ' ʊ ĭ ʅ ' ǟ P7.4(Ḡ [1]) ⁜ ˧ ˝Ḥ Ţ˘ ǟ P7.4(Ḡ)˘ ĭ ʊ

[E113]	~ MIP	~ ʅ
[E114]	₮ MOP	ĭ ᴄᴄ ₮ ∫ ʅ
[E115]	OS	ǟ P7.19 ǟ P7.19 ᴄᴄ شخ ĭ ʅ
[E116]	L SLVC Fail	ʋ ⁞ ʅ ǟ P7.23
[E117]	MOTOR STALL	L ᴄᴄ ᴄᴄ ᴄᴄ غ ǟ P20.14 à P20.15 ʅ
[E118]	ᴄᴄ PG ERROR	ᴄᴄ غ ǟ P20.14 à P20.15 ʅ
[E119]	SPEED ABNORMAL	ᴄᴄ غ ǟ P20.14 à P20.15 ʅ ǟ P7.31 ˘ P7.32
[E121]	ĭ ᴄᴄ 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	(AFE) P16.0
[E146]	Line Over_Freq	(AFE)
[E151]	U PDP [UT]	IGBT IGBT
[E152]	U PDP [UB]	IGBT IGBT
[E153]	V PDP [VT]	IGBT IGBT
[E154]	V PDP [VB]	IGBT IGBT
[E155]	W PDP [WT]	IGBT IGBT
[E156]	W PDP [WB]	IGBT IGBT

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[E160]	ɾ SLVE FAULT	ɾ ʅ
[E161]	ɾ ‰ SLV_NOT_RDY	ɾ ʅ ɒ
[E162]	ɾ 1 SLV1_CAN_ERR	˘ ɾ 1 ʅ
[E163]	ɾ 2 SLV2_CAN_ERR	˘ ɾ 2 ʅ
[E164]	ɾ 3 SLV3_CAN_ERR	˘ ɾ 3 ʅ
[E165]	ɾ 4 SLV4_CAN_ERR	˘ ɾ 4 ʅ
[E166]	ɾ 5 SLV5_CAN_ERR	˘ ɾ 5 ʅ
[E170]	ʒ MOTOR TUNING FAIL	ǟ ǟ P7.33
[E180]	DP P/B ERROR	˥ ʅ ʅ
[E181]	DP ɚ P/B_EM	ʟ CW0.4
[E200]	ض LOCAL_EM	˜ ɥ [ض Å Ḥ˜] ˘ Ḥ˜ ǟ P3 ˜ ǟ ˘ ح ï ʔ.ʟ0ʔ
[E201]	REMOTE_EM	˜ ɥ [Å Ḥ˜] ˘ Ḥ˜ ǟ P3 ˜ ǟ ˘ ح ï
[E202]	Modbus MODBUS EMERGENCY	Modbus ʟ Ḥ˜ ˘ ï
[E203]	˩ ʟ Ḥ˜ DRIVE DISABLED	DP Ţ ʟ Ḥ˜ ʟ Ţ Ḥ˜

EMEÀM

10. ƀ Ḡ Ī

⚠ ˧˩
1. ˜ D˧ ˀˀ ج ˘ ☼ ˧˥ Â ˧˩ Â 2. ╟˘ ⊢ ˘ ˧˥ ˘ w̄ Â ˧˩ Â 3. ℗ h ɤ ˘ ǖ ǫ̈ ʉ U˘ ˜ Ḡ Ī ȁ Â ☼ φ ˧˥ ˧˩ Â 4. F ʒ ˛ 2˘ ˜ Ḡ Ī ȁ ƀ Â ˧˩ Â

⚠
1. ƀ ȁ L ȁ ˧ ☼ ʊ CMOS ˘ ą ≢ Â ˘ ˜ Ψ شخ ☼ Â 2. Ţ˘ ˜ Í Ĭ ˧˥ Â ˧˩ Â 3. Ţ˘ ˜ Ḥ˜ Â Ψ شخ Â

10.1 Ḡ Ī غ

G D˧ ˀˀ ج Ʒ ƀ ˛˛ Ĩ ˀˀقمم ج˘ Í ʒ ƀ

Ĭ Â D˧ ˀˀ ج ą Ị̄ ˘ ȁ ȁ ˘ ǯ

γ Ĭ D˧ ˀˀ ج ṗ ˝Ḥ ح Ð . غج ˘ ˜ Ψ D˧ ˀˀ ج ǖ ˥˩ Âغج ˘

ч ą ˀˀ ج ˘ ضي ȁ ą Ţ D˧ ˀˀ ج غ ˆ

Ɛ ɷ w̄ ˜ Ḡ Ī ˧˥ № Â

10.2

ч ъ D˩ ˚˚ ج ǖ ˘ Ḡ ˘ D˩ ˚˚ ج ą ث˘

D˩ ˚˚ ج ˘ ṗ Ӣ ʹ

	ṗ	∞≢ ‰
	1. ȁ 2. ȁ r	1. > 40Ṇ Ả γ < 95%˜ o 2. ء˘ ȁ r
ʹ ˧	1. 2. D˩ ˚˚ ج r	1. ˘ 2. r ˘ كل
D˩ ˚˚ ج r	1. ˩ ȁ ˥ 2. كل 3. ȁ	1. ˩ ȁ ₮ o 2. كل ȁ ء 3. نه ˩
	1. ˩ ȁ ˥ 2. كل	1. ȁ 2. ȁ ѣ شخ˜ كل
˜ ȁ ₮ ǟ	1. ˜ ˧ 2. ₮	1. ˜ ˧ ضي مخ ṗ 2. ₮ ضي ṿ γ Ӣ

10.3

ч ъ D˩ ˚˚ ج ǖ ˘ Ḡ ï ˘ ˆ ˥

γ ṗ˜ D˩ ˚˚ ج ˘ ṗ Ӣ ʹ

	ṗ	
ѥ	ѥ ʅ ˩	
w ˝Ḥ كح ɐ	ȁ	˧ ṇ
كح	ȁ	˧ ṇ
	ʅ ï ȁ ء	
	كل غ ˩ ʅ 2ʹ	1¨ 2˙
PCB	ȁ	˧ ṇ

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ı ˇ ح شح Đ˘ ˋ ث ƀ ą ī Ǥ ı ℗

Â Đ ث

ˈ ą 5 U Â ı كح ɢ ˆ β˘ Ḫ ضي ↨

ǖ كل ǐ Â м ˋÊ˜ ˪ Đ Â

ˈ ą 5 U Â ǐ ʳ ƀ ˘ м

ˋÊ˜ ˘ ˜ ŋ يج ɯ̄ ⊢ (400-0077-570) Â

ˈ ث ч ضي Ӣ ↓ Đ Ӣ ą Â

ˆ 1˜ ˈ 40 Ņ’

ˆ 2˜ ˈ ʼ

ˆ 3˜ ˈ Â

10.5 ƀ Ǥ

D˪ ˚˚ U ƀ ˘ ɣ Ӣ Ҥ ˈ

ˆ 1˜ ǭ D˪ ˚˚ ج ɢ ȁ ˪ ȁ ضر ˘ Ǥ Â

ˆ 2˜ D˪ ˚˚ ج ƀ ˘ ˥ ɯ̄ ɣ كح ˘ □

D˪ ˚˚ ج ɯ Â ɯ̄ ɑ ǐ ˥ كح ˥˘ ƒ ƀ ɢ

5 Â

ضي Ǥ ǩ ṗ˘ ɣ Ӣ ˥ غج ˘ ǖ ɯ̄ ǩ ˈ

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2 ầ ч ƨ ŋ ˘ Ғ ʒ ˛ 2 ĭ Â
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м `Ẽ˜

Wuhan Guide Technology Co.,Ltd.

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