GUIDE

٦ ŵ r HF632N ↓

ą й 1.04

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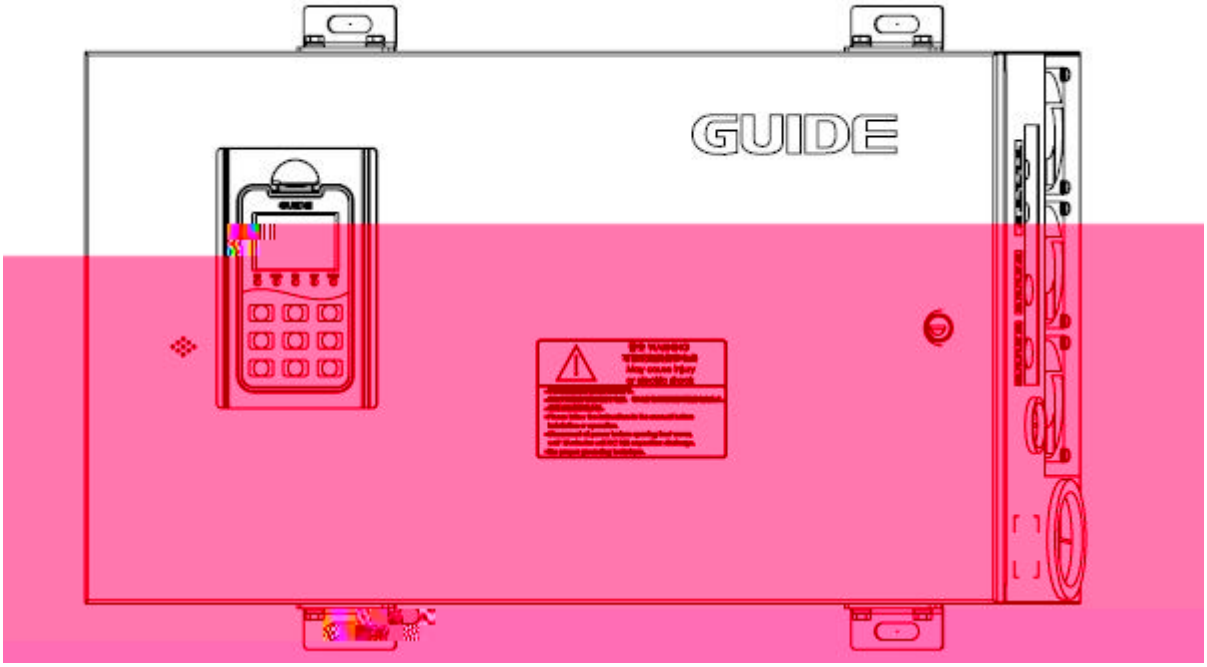
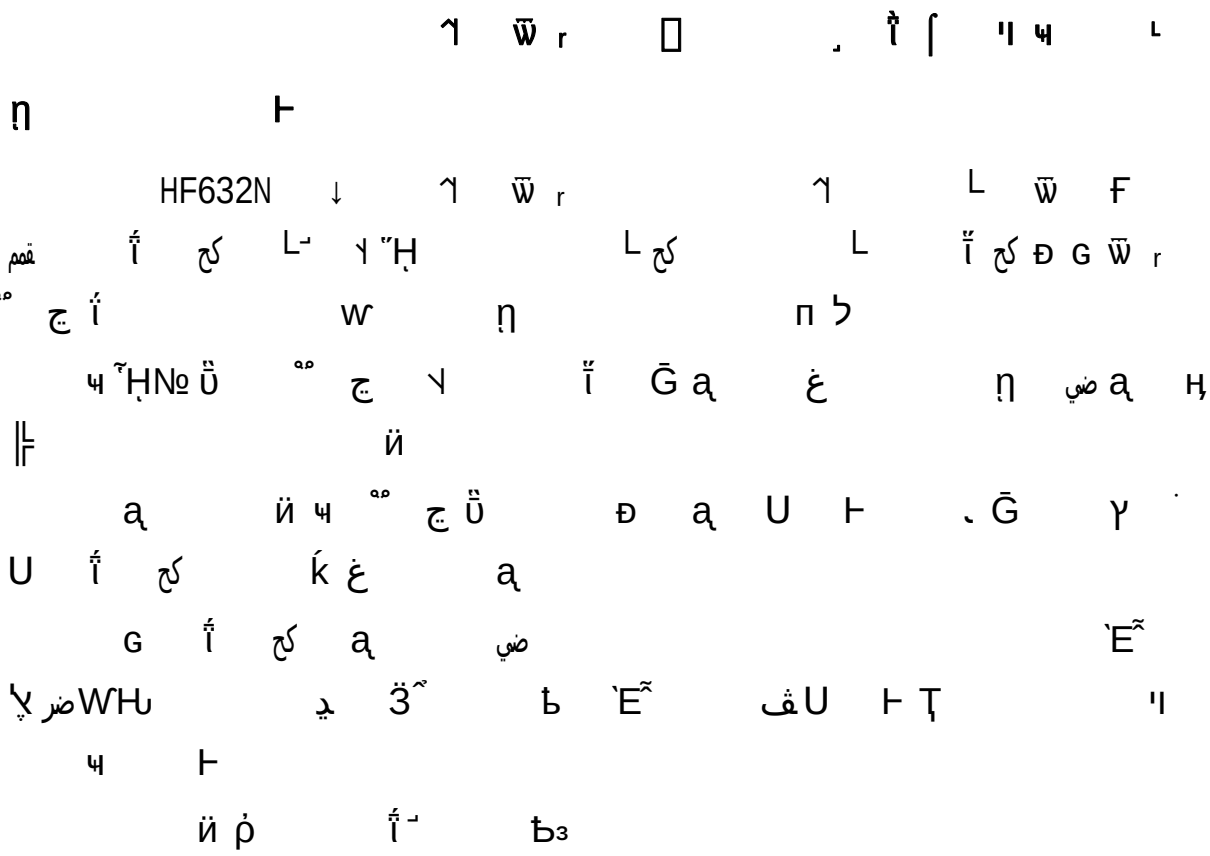
Wuhan Guide Technology Co.,Ltd.





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1.3 ʜʊ 3

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₩ ŋ ʜʊ

ʜ ╠ ӥ

1.1

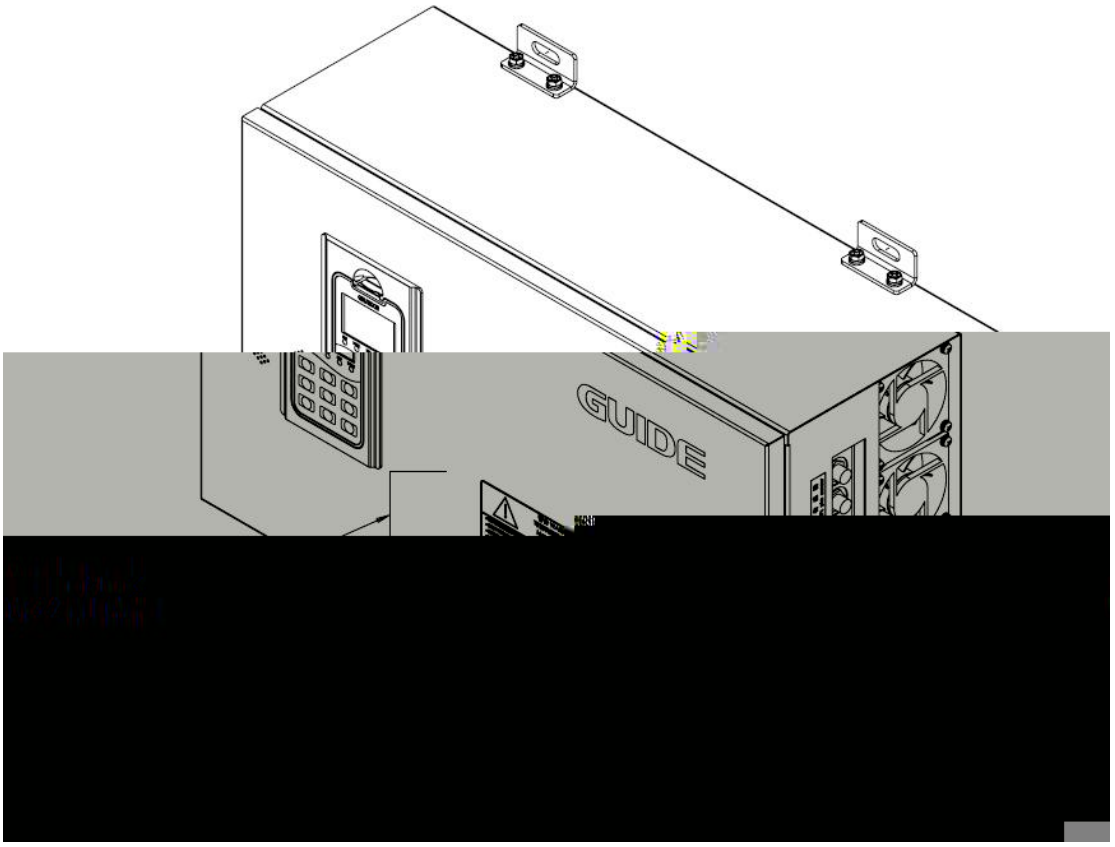
ą Ψ ↙ ʊ̈ ˜ ¬ ʜ`

↙

ą Ψ ↙ ʊ̈ ˜ ¬ Ţ ʜ ɔ̧ɯ

ƥ ṕ ė β

°° ج ضِ Ӣ β ⊣ ⅃ ϖ ƥ ч ϖ ŋ ą



f̀ ල HF632N-037-4-C ҽ ᴅ

1.2 ȝ»

(1) ° ج ч ٦ F ₩ r G ʒ ´ ¬ ¬

(2) Ь ƀ ч “ Å ” ą

(3) Ь ƀ ч L¬ ą

(4) ° ج ... Y Й, Ɒ ɛ ‰

Ɒ	Ɒ O	... ‰
LVD Ɒ	2014/35/EU	EN 61800-5-1
EMC Ɒ	2014/30/EU	EN 61800-3

1.3 Hυ

Ї ك ї ї Ð

Ї ك ṗ ض ˜ Ü

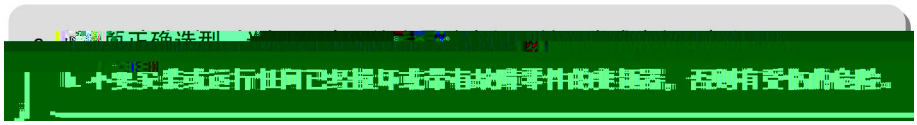
Ї ك L ج ض ˜ ° r

≠

Ї ك ƀ ч ʒ ج

ʜ ڇ Ḥ

2.1



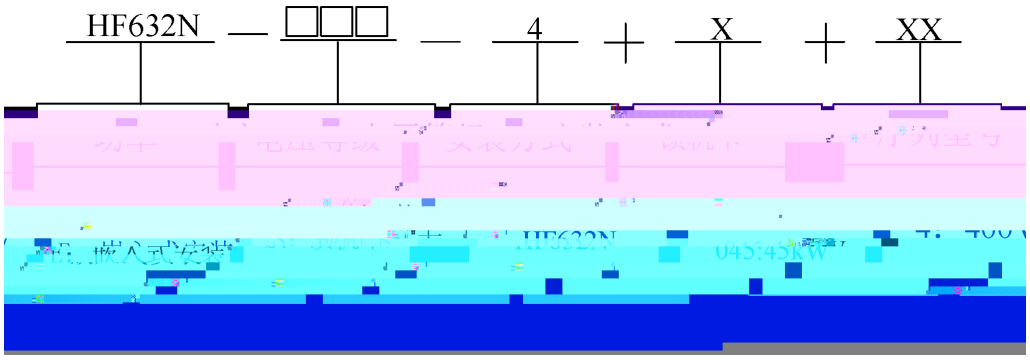
U ŭ ₣ ٦ ₩ r ɣ Ѝ ȝ

1. Ţ κ v ﺵ Ð ﺵ h r H
2. ´ Ţ ӣ ɇ Ḡ ќ ٧
3. ڇ ڇ
4. ϡ Ð ∫ Ð

ŭ ٦ ₩ r Ð ﺵ ﺽ ﻱ

2.2 ڇ ﻡ ĭ

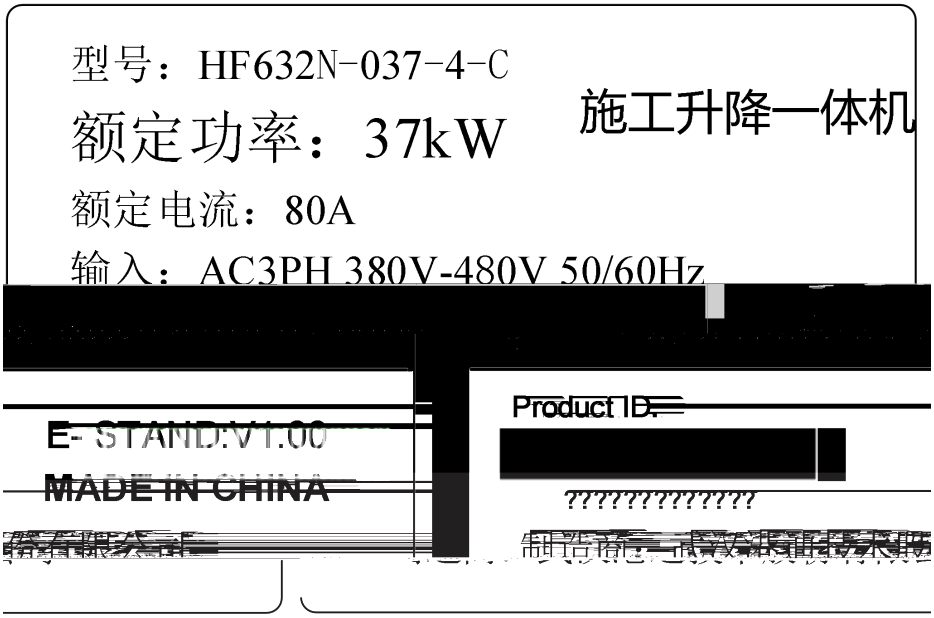
٦ ₩ r ﻡ Ꮯ ʜ



ڇ ﻡ

A	HF632N ٦ ₩ r
B	w ٹ 3 β
C	4 ٨ ч 400V
D	C E ~
E	+S ٹ ٧ S ٹ ٧

HF632N ↓ ٦ ₩ ٢ ٣٤ ٢ 37kW ٩ ٥



٥٥ ج

ﻣﻣﻲ HF632N-037-4-C HF632N ↓ ١ ٦ ₩ ٢

w 37kW ٧ ٩ 400V

AC ´ ~ ٣

3PH ⁝ ~ ٣

380V-480V 50/60Hz ~ ٧ ٤ ٤

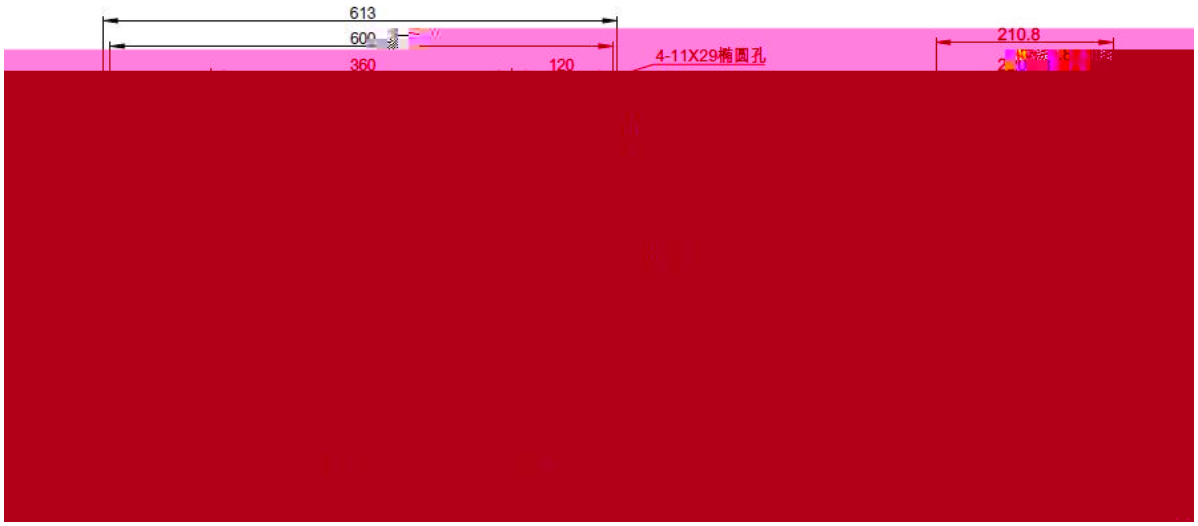
0-480V 0-300Hz ٣ ٤ ٧ ٤ ٤ ٣ ٤

2.3٥٥ ج ↓ ﻣﻣﻲ ٦

HF632N ٦ ₩ ٢ ٥٥ ج ₩

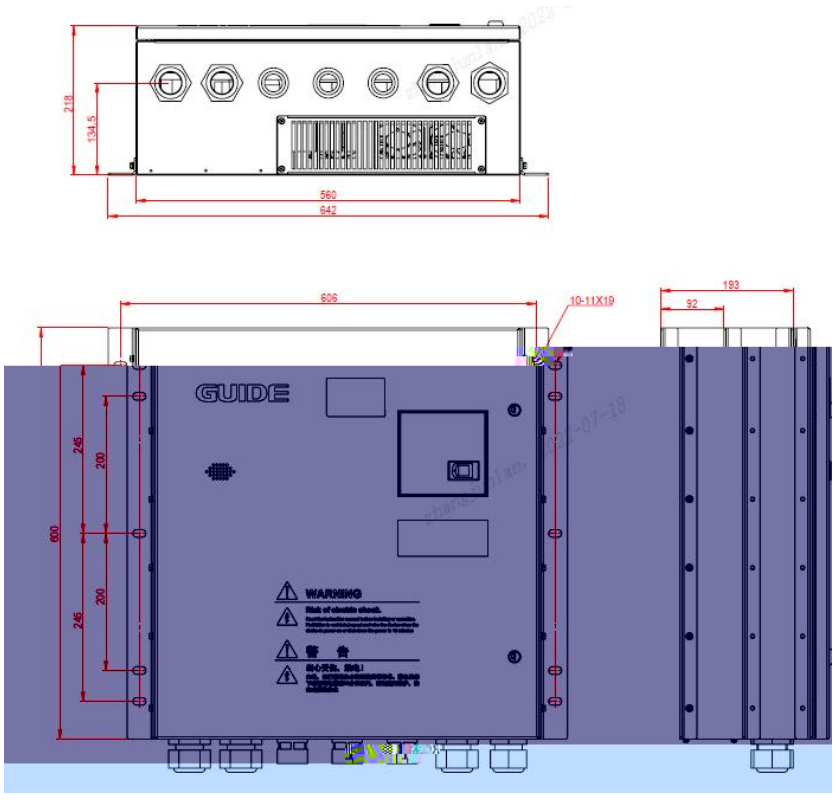
ﻣﻣﻲ	٣ [A]	[kW]	(kg)
HF632N-037-4-C	80	37	22.5
HF632N-037-4-C+S	80	37	23
HF632N-037-4-E	80	37	40.5
HF632N-037-4-E+S	80	37	41
HF632N-045-4-C	95	45	22.5
HF632N-045-4-C+S	95	45	23

2.4 ج



HF632N-037-4-C

~



HF632N-037-4-E

2.5ˆˆ ج

~	~ ا	؟؟؟ 380V˙ 480V
		50/60Hz
	¨Ḥ ا ¬	-15%˙ +10%
	¨Ḥ ¬	Ḯ˙ ¨Ḥ مخ ч fLN ± 2Ъ G ᴸ ч ± 4 Ъ Ḯ˙ ≤ 2Ъ fLN/s
₣	₣ ا مخ	0˙ ~ ا
	₣ ا Ь	ą ɒ Й̨ ض ɷ ₣ مخ ṗ Ỿ ’ Й̨ ₣؟؟؟ ا Ь Ь 1Ъ
	₣ مخ	0˙ 300Hz
L	ɒ	L L
		1kHz˙ 10kHz غ ˆ
	№	0.01Hz x0.1%
	L	L(VC) L(SVC) V/F L
	V/F L	قمم قمم قمم
		300Hz ш غ
	Ω¬	0Hz/200%(VC غ SVC) 0.8Hz/150%(V/F)
	مخ	1:500(SVC) 1:1000(VC)
		±0.02% (VC) ±0.2% (SVC) ±0.5% (V/F)
	Ʒ	5 № ¨Ḥ 150% 1 № 200% 5
	ẽ	¬ ẽ w
	∀ ⋮	Ꮋ
	¬ ا	¬ ¬ Ḡ ₣ ا
	L¬	Ω¬ L¬ غ Å L¬
Ғ w	Ḡ	90% 105% Ḡ
	٦	٦ ƀ
	L¬ Ḡ	L¬ ڪ U Ḯ ڪ ¬ ₣ ₣ Å □
¬	ƀ LCD	ˆ ˜ ă Ӟˆ ₣ ₣ ا ₣ ă Θ Ḯ ă ښ ṗ w Θ Θ ٧ β Ţ
Ḡ w		Ḡ ا Ḡ ا Ḡ Ḡ Ḡ

ą شي		Ь ỉ ۏ غ
		~
		۷ G 1000 1000 شي ۷ 100 ۷ 1% ۷ ۱ ỉ ₣ 3000 h ۸ ۳
		-10 · +40 40 ą ۱ 1 1% 50 h ۸ ۳ ۷ G -10 ۷ ↑ ۷
		G 95%RH o Ь h ۸ ۳
	Ũ	Ũ -20 · +60 G Ũ ۸ ۸ ỉ 10-30 № ą Ḥ
ỉ	w غج	>0.80
		96%
	L ۱ Ḥ	ṗ
	L	
		IP20
	' ۱	L '
		2
	كل	≤ 80db

2.6 ہ ہ ج

1 ہ ہ ج ỉ ك ۱ L ۱ Ḥ L ۱ Ḥ شج

G W r ۱ ₣ قمم

2 ỉ L ك Ḡ w ۱ Å U W ṗ L ك ₣

Ь ۸ Й ۱ ˗ ۸ Å ▯ ü ₣ L

˗ ك Ḥ ~ Ь ۸ Й ∫ ض ضي ۸ تخم L ك

: ۷ ↻ W Ḡ w

3 L ₣ ʒ Ḡ “ ”

غ “ ‖ ” Å

4 ỉ w ỉ h ~ Ь ш

└ Ạ κ ν

5 ṗ └ ﺟ Ḡ ȳ └ ﺟ

6 ﻟ β Ꮒ Ɒ Ḥ ﺷ LED ǐ Ꮶ ㄱ Ḱ Ḃ Ḃ ɢ ﻑ U

ǐ ⋮ ⊢

ِ ّ ج Ũ ّ ا ّ

ِ

1. ... ¬ 2 ضW r ك ɒ / ⁘ ƀ ƅ “ ِ ” Ţ ˇ ˜ Ψ
   H ¬ H ِ ّ ز ضِ غ ا ّ
   ... F ʒ¬ 2 ّH ضِ ك ɒ / ⁘ ƀ
2. ~ ز ّH ƕ ِ ˜ ضر
3. ٧ ą ا ّ ك ɢ ƅ ƀ ٢ Й ̨ . ˜ ٧ ١
   - R S T N
   - U V W U1 V1

3.2

- ممم ضي ṗ ғ ṗ
- -10 ˙ +40 ضي مخ+40 ˙ +50 ң ˆ1
  ₮ ⋮ 2%
- ѽ ɢ 95%RH Ь ¨Ң o
- Ⓟ˜ ضي ⁝
- ѽ
- r ɣ r
- ї
- 1000 ү Й, 1000 شي ѵ 100 ү 1%
  ү ₮ ˆ ч 3000
  شي ’ ذ أ ڪ ą ث

3.3 ﻩ

:

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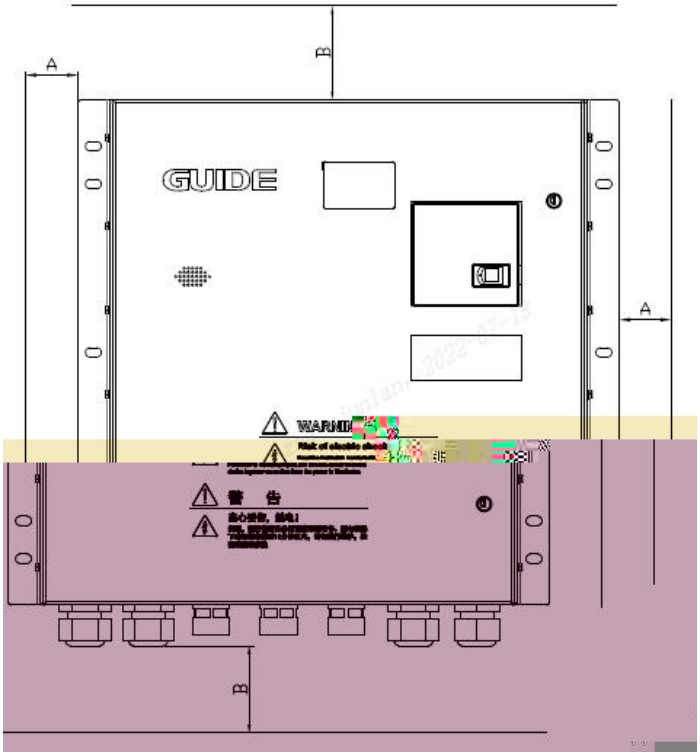
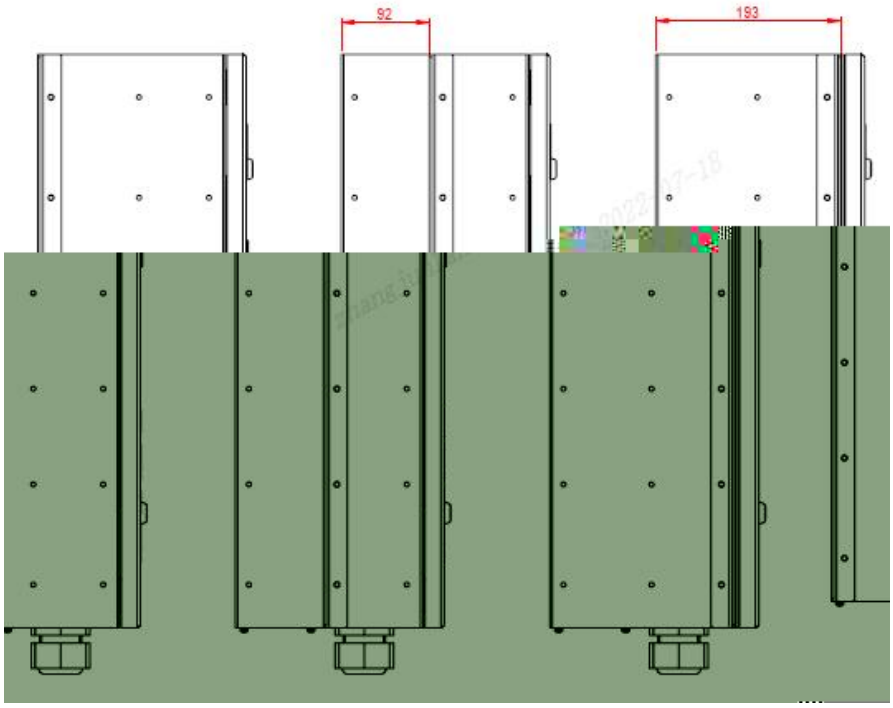


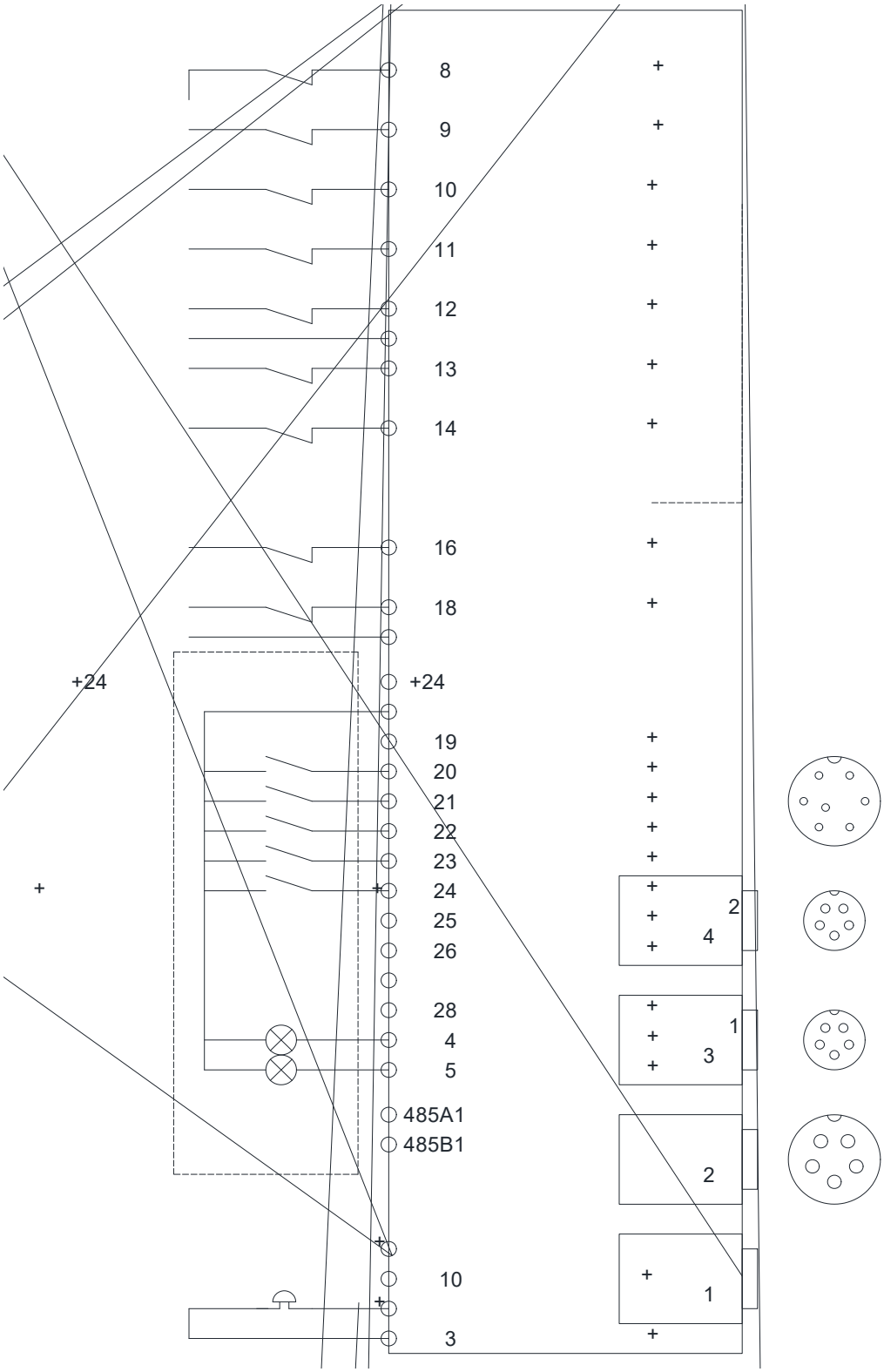


ṗ ٧ ~ 92MM ŋ ~ 193MM

A ≥ 100mm	B ≥ 200mm

~ ŋ غ ٧ β Ḥ يحضي r

3.5 L بر ید


8
9
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14
16
18
+24
+24
19
20
21
22
23
24
25
26
28
4
5
485A1
485B1
10
3
2
4
1
3
2
1

3.6

1 Ӣ

1 ڪ ٦

1 W̄ r H ڪ

2 L

3 ⁝⁝ ۱ ٦ضي Ḥ ڪ ṗ ⁝⁝ AC380~480V 50/60Hz

4 ą PG ح ۷ PG ح ۷ Ь ح ٦

5 D⌐ Ь ƀ ⁝ ٦ ⁻ ƀ

⌡ D⌐ Ḥ⁝ h ⁻ h ⌡ D⌐

h Ӣ h ⁻ ↕ h ĭ

2 W̄ r β ϼ Ḥ˜

ضي U ˜ ٦ ۱ ĭ ė β ˜ ⁝⁝ ⁝

β Ӣ β ⁝ ⁞ β Ӣ ⁞ β Ŭ β ˜ β ˜ ч

⁝⁝

٦ LCD ƀ ϼ ٦ ↕ Ψ

ϼ Ƹ⁻ ϼ ṗ ė ˜ Ḥ˜

3 ă̈

ш Ӣ LCD ˜ ă̈

w	O		ẏ
P16.2	w	ă̈ w	3 ɷ Ḥ⁝ ɷ w Ḥ ė
P16.3	۱	ă̈ ۱	

P16.4		ă̋	3 ɷ Ɦ ɷ Ҥ ɇ
P16.5		ă̋	
P16.6		ă̋	
P16.7		120 × P16.5 / P16.6 ŭ̋	
P16.9	□	120 × P16.5 / P16.7	
P16.11	L	[0]V/F L [1] [2]	٦ ح ч L [1] ح ч [2]
P20.16	h	h ض ˀ L Ӣ	100 [%]
P20.17	ï̃ h	ï̃ h ض ˀ L Ӣ	100 [%]
P3.5	~ 6	˜ w	[1]
P3.6	~ 7	˜ w	[2] ï̃
P3.7	~ 8	˜ w	[6] β 0
P3.8	~ 9	˜ w	[14] Å
P3.9	~ 10	˜ w	[5] β
P4.1	₹ 2	w ˀ ₹	[3] L-
P4.2	₹ 3	w ˀ ₹	[3] L-
P4.5	₹ 6	w ˀ ₹	L- ح Ḡ w ح ٢ ч [16]

P4.6	₣ 7	w ˜ ₣	[2] ₣
P8.16	₰ 1	ɾ Å ⌠ P8.15 ṿ ₰ ۷ β	3
P8.35	⋮ 1	ɾ P8.34 ṿ ⌠ Å ⋮ ۷ β	2
P8.0	Ω⌐	[0] ˜ [1] ƀ [2]DP [3]MODBUS [4] w ﷺ	0
P8.10		[0]I/O [1] ˜ 1 [2] ˜ 2 [3] ƀ [4]DP [5]MODBUS [6] w ﷺ	0
P12.2	1	۷ β غ ⋮ β	15Hz
P12.3	2	β	50 Hz
P12.22	h ṿ		0.1
P12.23	ĭ h ṿ		0
P12.24	h		30
P12.25	ĭ h		30
P12.29	ĭ h	ч ২ Й̧	0.4
P7.0	└ ṿ [1]	0~300[%]	180%
P7.4	Ḡ [1]	0~300[%]	235%
P7.19	[1]	100.0˙ 720.0[%]	120%

4 ắ ӟ

└ └ └ ӟ ү Й̧

ӟ ⌐ ắ

1 └

P16.11 ṿ ч [1] [2] ↕ ч └ ӟ ⌐

ä ė ˥ ä

2 ä

ض L Й ä ψ γ ĭ ă

LOCAL/REMOTE ч LOCAL ض ضw Ţ Ţ ä

U ä ä Ţ “ ä ض ” ä

U “ ä ”

3 ˥ ä

ض L Й ˥ ä ˥ ä ņ № ă ų

₮ ε ă ų ض˥ ä ң ╠ L Й ä ѿ ѽ

LOCAL/REMOTE ч REMOTE ضw Ţ Ţ “˥

ä ” U ٦ Ь ˜ ƀ ṗ ƀ˜ ѿ ٦

ĭ ر ч 3.75HZ ٦ ψ ĭ ر ɢ˥ ä

Ţ ä Ţ LCD ψ “˥ ä ض ” ä U “˥

ä ”

4 ˥ ä

ض L Й ˥ ä U ғ ⊢ ض Ь ’ Й

˥ ä ˥ ä Ь 50%

˥ ä7 ˥ ņ ˥ ä U ˥ ą ų

L˜ γ L ↕ ˥ ä

5

٦ ṗ L Ḡ ﻍ ﻯ β Ң˜ U ˜

ƀ ˥ ү U˜ Й

6 ‰

‰ ă 5.2.5

ضه ƀ

4.1 ƀ

HF632N ↓ ٦ ₩ ɾ ƀ ƺ ч ƀ Ӣ ҷ ´ Ɔ ESC

RUN STOP FWD/REV LOCAL/REMOTE ⁘ Ӣ /RESET ɻ ENTER

ˆ ≠ ˢ Ї ҀҀ ă L ɻ Å

Ь ƀ ѽ ѱ
ˉ Ṕ ƀ
ѱ ˉ ˜

ẏ U Ḡ

ˆ ϒ ˉ ⁘ ₩ ɷ

ضِ ă
h ˉ β
ŭ
ƀ β

Ҁ

Ь ƀ ƺ
ч ѱ ˉ ℗ ⌠
ѽ ˁ
₩ ٧

⁘ Ӣ L ٧ ˉ ƺ
ˆ ϒ ₰ ⋮
Ẏ

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U Ь ɾ ضر ℗

Ї

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ƀ L ˜
˜
Ї ˜
Ҁ ˜

4.2 ƀ

ν Η ϒ έ Ή β ϒ Ε β ϒ ∫ Ή β ϒ η Ή

ε Ή β ϒ ή β ϒ ▲ Ζ ̂ γ Ή ν ⋮ ν

ν ή U ̂ ENTER ΐ ą /RESET ˫ β

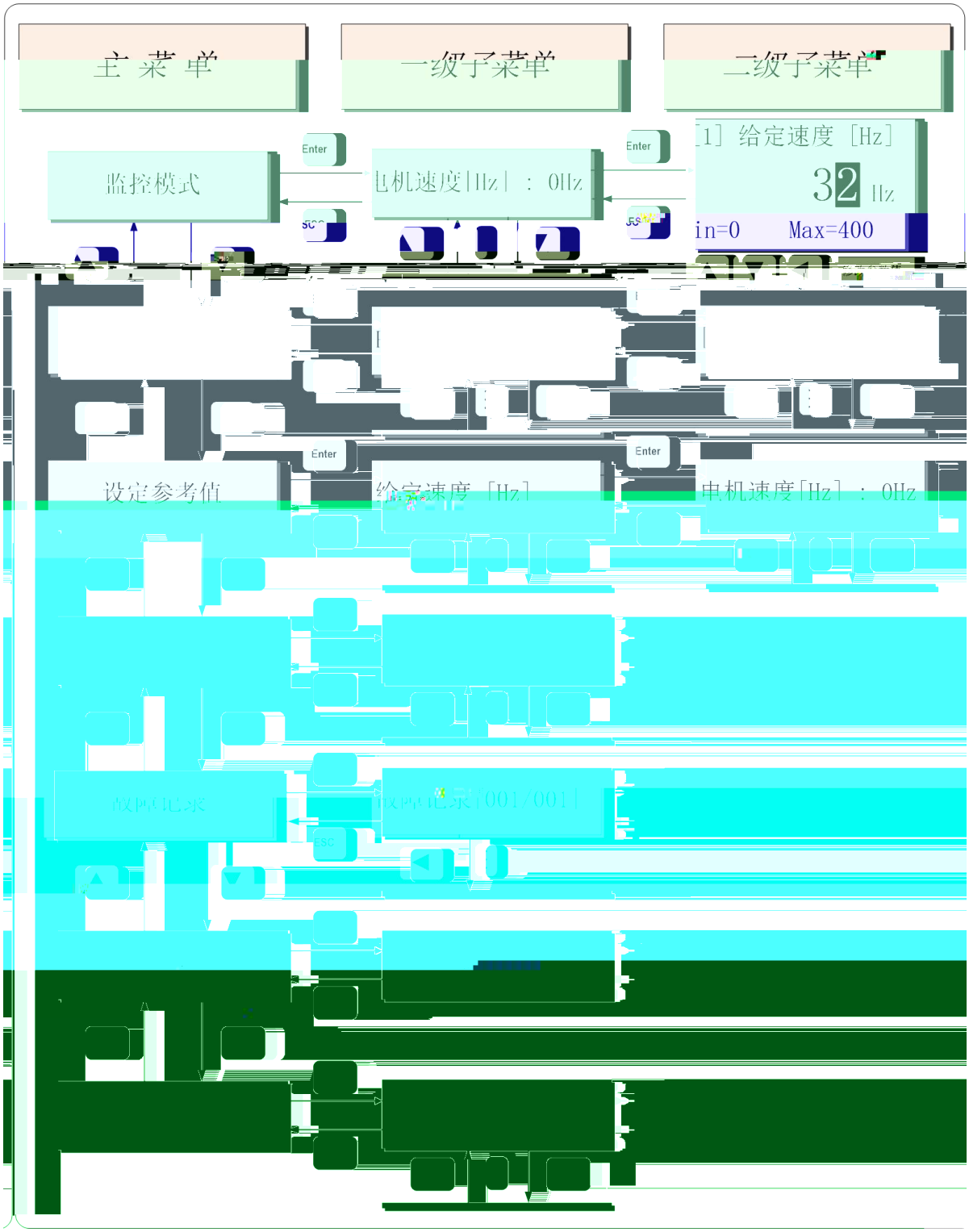
ώ ˫ ∫ Ψ ˫ ή ̃ ƀ Ϊ ϛ ą RUN έ

STOP Ω˫ έ Å ώ ΐ ғ Ⓟ ∫ ض FWD/REV L

Ϊ LOCAL/REMOTE Ⓟ ض/

4.3 Η ϒ ή

	№	W
Drive Monitor	Speed Power	Ϊ ϛ Ϊ I/O Η ̂
Parameter Edit ΐ	P0 ~ P49	̂ Ϊ ΐ ν
Reference Set ΐ ν	Global Ref	L ν
Function Set W	Tuning I/II/III Parameter Init. Clear Faults System reset Backup/Restore Para	ϑ ˫ ˫ ΐ Δ . β
Error Event Log	Error Log	Ϙ Ϋ Ϋ
Security ŋ	Security Edit	ŋ ≠ Access Level
Display Edit	Display Edit	ϒ


主 菜 单
一级子菜单
二级子菜单
监控模式
Enter
ESC
电机速度[Hz] : 0Hz
[1] 给定速度 [Hz]
32 Hz
in=0 Max=400
Enter
设定参考值
给定速度 [Hz]
电机速度[Hz] : 0Hz
故障记录
故障记录[001/001]
ESC

4.4.2

1. ╠ Ḥ ᵝ ȩ ƀ˜ Ḥ ɣ ǐ ǐ ȡ ₹ Ḥ

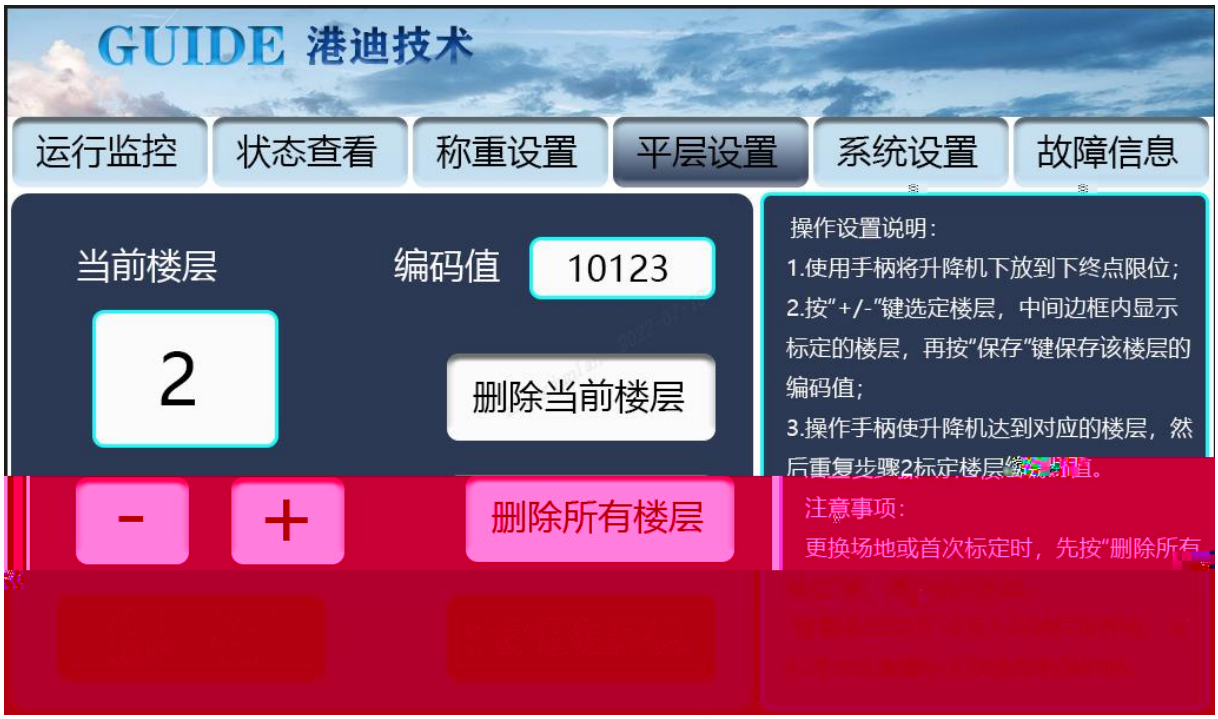
4.4.3

1. ˜ ˜ 1229

ɷ ṗ ȩ̈ ˚ ḱ Ɗ ρ
ψ ≠ ₹ ƀ ψ
ḱ ẏ ˜ Ѝ ϰ ψ ḱ

‰ ⅄ ‰ ȩ “ ‰
“ ⅄ G U˜
‰ ψ

4.4.4



1. ~ ~

2. “ + ” ė “ - ” ╠ ˆ ضي -5~90 ң ث O ν ṗ Ψ

╠ ν

3. ˆ ˩ ƀ ٦ U Ӈ “ Ḡ “ ”

Ḡ ” ↕ ” – ╠ “ ė ” – “ˆ ɣ – Ь

/ – Uˆ ɣ Ⅾ ρ ” Ң “ ٦ /

–

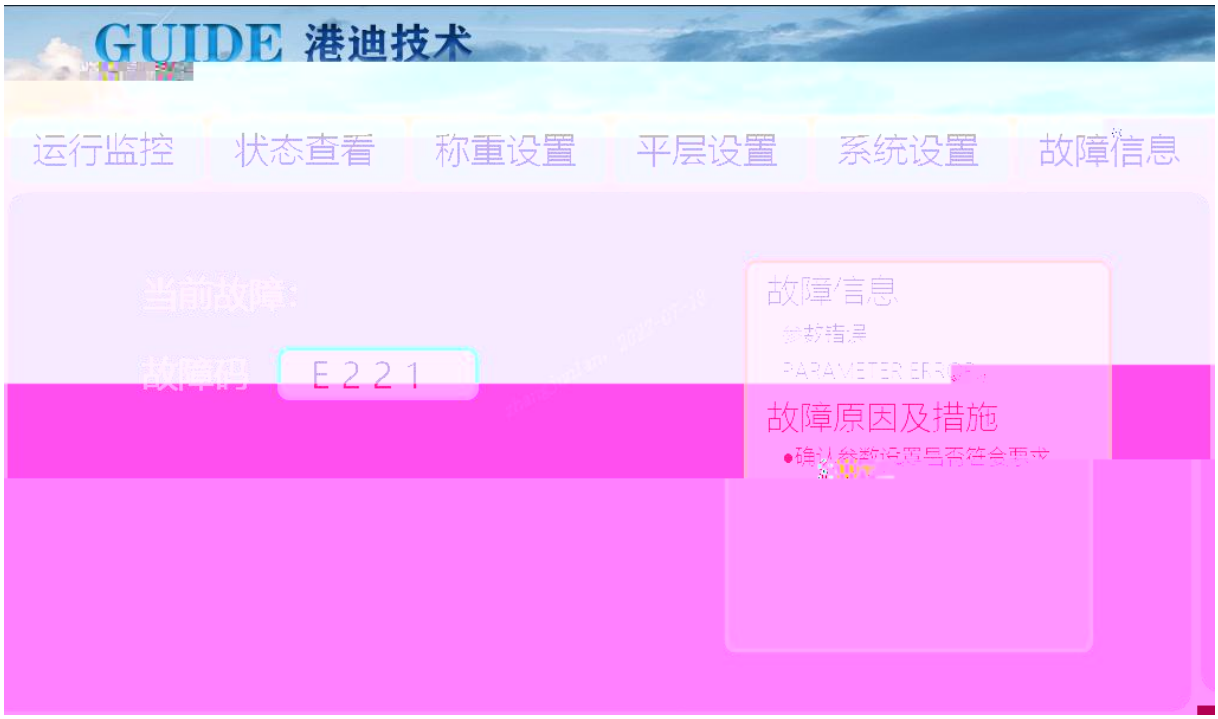
4. Ψ تم Ӈ Ӟ Ψ ν

GUIDE 港迪技术
楼层存储信息
楼层
-5
-4
-3
-2
-1
0
1
2

4.4.5

GUIDE 港迪技术
运行监控
状态查看
称重设置
平层设置
系统设置
故障信息
时间设置
2022 年
3 月
17 日
11 时
12 分
12 秒
确定
亮度设置
版本号
1
2
3
4
5
6
7
8
9
0

4.4.6 Ḥ


GUIDE 港迪技术
运行监控
状态查看
称重设置
平层设置
系统设置
故障信息
当前故障:
故障码
E221
故障信息
故障原因及措施

1. ヿ ᚣ

自测模式
运行时间
8
启动状态
目标楼层
3
倒计时
30
运行次数
返回
说明:
关，开启自测模式后，进入倒计时。人员请撤离，拉开单/双门倒计时
1
2
3
4
5
6
7
8

1. ~ ۷ β ~ Й, Ψ ضِ ~

ė Й, β ң ج

2. ~ β Ḡ ï ɾ β ۷ˆ Ð℘Ω¬ ˇ

ĭ ↕ ṕ 30S ۷ ǐ Ψ 30S ṕ Ḡ

¬ 2 U β ṕ ṕ U ضِ

ė Й, β ң ∫ / Й, β Ψ Å 30S ң U 1S

3. ∫ U ٦ ∫ Й, β Ψ ₹ ٦ Ь Ψ Å

ضِ ۷ ٦ ƀ¬ 2 ~ ṗ ٦

ضِ ٦ ∫ Й, β U 30S ṗ ¬ ₹

↕ Ð℘Ω¬ U¬ 2 ۷ˆ

Л w

5.1 ǎ

5.1.1 ǎ L P0

w	O		ж	ў	
P0.0	Δ .	[0] γ ǎ Δ . [1] Ḡ γ Ḡ ǎ Δ .	0˙ 1	0	
P0.1	Δ . w	ǐ ڳ w	0˙ 27	14	
P0.3	Δ .	[0]50HZ [1]60HZ	0˙ 1	0	
P0.4		ǎ Δ .			

5.1.2 ﻡ P2

w	O		ж	ў	
P2.7	MODBUS ﻡ	ﻡ	0˙ 1	0	G ヿ 1 ㄱ RS485

5.1.3 ~ P3

w	O		ж	ў	
P3.0	~ 1	ˆ w	0˙ 32	0	
P3.1	~ 2	ˆ w	0˙ 32	0	
P3.2	~ 3	ˆ w	0˙ 32	0	
P3.3	~ 4	ˆ w	0˙ 32	0	
P3.4	~ 5	ˆ w	0˙ 32	0	

P3.5	~ 6	~ w	0 32	0	G
P3.6	~ 7	~ w	0 32	0	˥
P3.7	~ 8	~ w	0 32	0	
P3.8	~ 9	~ w	0 32	0	ă
P3.9	~ 10	~ w	0 32	0	3.6 ă
P3.10	~ 11	~ w	0 32	0	
P3.11	~ 12	~ w	0 32	0	

ă G w ~ w

ỵ	w	
0		˥ ą Ḥ ~ ĩ ȡ З Ь ƀ ą ч ˫ ƀ
1		L Ь ỉ
2	ỉ	
5	β	β w Ь ƀ </RST w w ~ β
6	1 β0	Ɒ ~
7	2 β1	
8	3 β2	
9	4 β3	
14	Å Ḥ	~ ч
15	Å Ḥ .NC γ	~ γ ч

5.1.4 ₣ P4

w	O		₯	ỵ	
P4.0	₣ 1	w ₹ ₣	0˙ 64	0	
P4.1	₣ 2	w ₹ ₣	0˙ 64	0	ч ъ
P4.2	₣ 3	w ₹ ₣	0˙ 64	0	٦ ŋ Ң ѡ w ч 3 L ⌟
P4.3	₣ 4	w ₹ ₣	0˙ 64	0	
P4.4	₣ 5	w ₹ ₣	0˙ 64	0	
P4.5	₣ 6	w ₹ ₣	0˙ 64	0	3.6 ă
P4.6	₣ 7	w ₹ ₣	0˙ 64	0	ч 2 β

w ₹ ₣ w Ѝ

ỵ	w	
0		K v w
2	₣	ĩ ҁ ŭ ₣ ON Ң˜
3	L⌐	L⌐ ҁ Ð ч 5.2
16		ŭ L⌐ ҁ 5.2

5.1.5 Ḡ ă P7

w	O		₯	ỵ	
P7.0	L ỵ [1]	1 L ỵ	0.0˙ 300.0 [%]	180.0 [%]	
P7.4	Ḡ [1]	1 Ḡ ỵ	0.0˙ 300.0 [%]	235.0 [%]	
P7.8	[1]	1	0.0˙ 100.0 [%]	20.0 [%]	

P7.12	⁄	⁄ ų	600˙ 820 [V]	800 [V]	
P7.13	⁄	⁄ ų	300˙ 500 [V]	350 [V]	
P7.14		ų	60.0˙ 100.0 [ ]	87.5 [ ]	
P7.15		ų	50.0˙ 100.0 [ ]	80.0 [ ]	
P7.19	[1]	1 ų	100.0˙ 720.0 [%]	120.0 [%]	
P7.23	Ḡ 1 M1	1 Ḡ	0.00˙ 3.00 [s]	0.50 [s]	
P7.27	1	1 Ḡ	0.00˙ 3.00 [s]	2.00 [s]	
P7.31	ɔ̇	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	₹ ʉ		0.10˙ 3.00 [s]	0.30 [s]	
P7.64	L⁻	[0] [1] ą	0˙ 1	0	

P7.65 L- Ω- Ẓ ۱ L- Ω- ۱ Ẓ ṿ -25·

P8.10		[0]I/O [1] ~ 1 [2] ~ 2 [3] ƀ [4]DP [5]MODBUS [6] w ښ	0˙ 6	0	
P8.15	v M1	W@v	0.0˙ 300.0 [%]	100.0 [%]	5.2
P8.16	v 1	ɾÅ ⌡P8.15 ẏ v	0.0˙ 300.0 [s]	3.00 [s]	5.2
P8.17	v M2	Hu@v	0.0˙ 300.0 [%]	200.0 [%]	
P8.18	v 2	ɾP8.15 ẏ ⌡P8.17 ẏ v	0.0˙ 300.0 [s]	4.00 [s]	
P8.19	v M3	^^@v	0.0˙ 300.0 [%]	240.0 [%]	
P8.20	v 3	ɾP8.17 ẏ ⌡P8.19 ẏ v	0.0˙ 300.0 [s]	7.00 [s]	
P8.21	v M4	ضv@v	0.0˙ 300.0 [%]	300.0 [%]	
P8.22	v 4	ɾP8.19 ẏ ⌡P8.21 ẏ v	0.0˙ 300.0 [s]	10.00 [s]	
P8.23	v M5	ɲ@v	0.0˙ 300.0 [%]	300.0 [%]	
P8.24	v 5	ɾP8.21 ẏ ⌡P8.23 ẏ v	0.0˙ 300.0 [s]	10.00 [s]	
P8.25	v M6	´E@v	0.0˙ 300.0 [%]	300.0 [%]	
P8.26	v 6	ɾP8.23 ẏ ⌡P8.25 ẏ v	0.0˙ 300.0 [s]	10.00 [s]	
P8.27	v M7	≠@v	0.0˙ 300.0 [%]	300.0 [%]	
P8.28	v 7	ɾP8.25 ẏ ⌡P8.27 ẏ v	0.0˙ 300.0 [s]	10.00 [s]	
P8.29	v M8	ñ@v	0.0˙ 300.0 [%]	300.0 [%]	

P8.30	∀ 8	ς P8.27 ν ∫ P8.29 ν ∀	0.0˙ 300.0 [s]	10.00 [s]	
P8.32	⁞ L	[0] [1]PROFIBUS [2]MODBUS [3] ض	0˙ 3	0	
P8.33	⁞ Ồ		0.1˙ 10.0	1.0	
P8.34	⁞ Ⅵ1	₩ ⍵ ⁞	0.0˙ 300.0 [%]	100.0 [%]	5.2
P8.35	⁞ 1	ς P8.34 ν ∫ Å ⁞	0.0˙ 300.0 [s]	3.00 [s]	5.2
P8.36	⁞ Ⅵ2	ʜ⍵ ⁞	0.0˙ 300.0 [%]	200.0 [%]	
P8.37	⁞ 2	ς P8.34 ν ∫ P8.36 ν ⁞	0.0˙ 300.0 [s]	4.00 [s]	
P8.38	⁞ Ⅵ3	⍵ ⁞	0.0˙ 300.0 [%]	240.0 [%]	
P8.39	⁞ 3	ς P8.36 ν ∫ P8.38 ν ⁞	0.0˙ 300.0 [s]	7.00 [s]	
P8.40	⁞ Ⅵ4	ض ⍵ ⁞	0.0˙ 300.0 [%]	300.0 [%]	
P8.41	⁞ 4	ς P8.38 ν ∫ P8.40 ν ⁞	0.0˙ 300.0 [s]	10.00 [s]	
P8.42	⁞ Ⅵ5	⍵ ⁞	0.0˙ 300.0 [%]	300.0 [%]	
P8.43	⁞ 5	ς P8.40 ν ∫ P8.42 ν ⁞	0.0˙ 300.0 [s]	10.00 [s]	
P8.44	⁞ Ⅵ6	´E ⍵ ⁞	0.0˙ 300.0 [%]	300.0 [%]	
P8.45	⁞ 6	ς P8.42 ν ∫ P8.44 ν ⁞	0.0˙ 300.0 [s]	10.00 [s]	
P8.46	⁞ Ⅵ7	≠ ⍵ ⁞	0.0˙ 300.0 [%]	300.0 [%]	
P8.47	⁞ 7	ς P8.44 ν ∫ P8.46 ν ⁞	0.0˙ 300.0 [s]	10.00 [s]	
P8.48	⁞ Ⅵ8	ñ ⍵ ⁞	0.0˙ 300.0 [%]	300.0 [%]	

P8.49	⋮ 8	ɾ P8.46 ỵ ⌈ P8.48 ỵ ⋮	0.0˙ 300.0 [s]	10.00 [s]	

5.1.7 1 L P12

w	O		₰	ỵ	
P12.0		[0] ~ [1]ʜ L	0˙ 1	1	5.2
P12.1	ʏ β	[0][%] [1][Hz] [2][rpm]	0˙ 2	1	
P12.2	1		0.0˙ 3000.0	10.0	
P12.3	2		0.0˙ 3000.0	20.0	
P12.4	3		0.0˙ 3000.0	35.0	
P12.5	4		0.0˙ 3000.0	50.0	
P12.6	5		0.0˙ 3000.0	50.0	
P12.7	6		0.0˙ 3000.0	50.0	
P12.8	7		0.0˙ 3000.0	50.0	
P12.9	8		0.0˙ 3000.0	50.0	
P12.10	9		0.0˙ 3000.0	50.0	
P12.11	10		0.0˙ 3000.0	50.0	
P12.12	11		0.0˙ 3000.0	50.0	
P12.13	12		0.0˙ 3000.0	50.0	
P12.14	13		0.0˙ 3000.0	50.0	
P12.15	14		0.0˙ 3000.0	50.0	
P12.16	15		0.0˙ 3000.0	50.0	
P12.17	16		0.0˙ 3000.0	50.0	
P12.22	h ỵ	h ỵ	0.0˙ 20.0 [%]	2.0 [%]	5.2
P12.23	ỉ h ỵ	ỉ h ỵ	0.0˙ 20.0 [%]	0.0 [%]	5.2
P12.24	h	h	0.0˙ 200.0 [%]	30.0 [%]	5.2
P12.25	ỉ h	ỉ h	0.0˙ 200.0 [%]	20.0 [%]	5.2

P12.26	h	h	0.00 2.00 [s]	0.00 [s]	5.2
P12.27	ǐ h	ǐ h	0.00 2.00 [s]	0.00 [s]	5.2
P12.28	h L	h	0.00 2.00 [s]	0.07 [s]	5.2
P12.29	ǐ h L	ǐ h	0.00 2.00 [s]	0.07 [s]	5.2
P12.32	h	h	0.0 20.0 [%]	0.0 [%]	5.2
P12.33	ǐ h	ǐ h	0.0 20.0 [%]	0.0 [%]	5.2
P12.34	h	h	0.00 2.00 [s]	0.00 [s]	5.2
P12.35	ǐ h	ǐ h	0.00 2.00 [s]	0.00 [s]	5.2
P12.36	h	h	0.00 2.00 [s]	0.50 [s]	5.2
P12.37	ǐ h	ǐ h	0.00 2.00 [s]	0.50 [s]	5.2
P12.40	L ر ẏ	L ر ẏ	0.0 100.0 [%]	0.5 [%]	5.2
P12.41	L ر	L ر	0.00 100.00 [s]	0.20 [s]	5.2
P12.42			0 3000 [s]	300 [s]	5.2

5.1.8 1 ǎ V/F P16

w	O		مخ	Ẏ	
P16.0	~ ۱	~ ۱	320 460 [V]	380 [V]	
P16.2	w	ǎ	0.0 4000.0 [kW]	غمم [kW]	
P16.3	۱	ǎ	320 460 [V]	380 [V]	
P16.4		ǎ	0.0 6500.0 [A]	غمم [A]	

P16.30	ʜʊ ẽ	Ω¯	۸	ʜʊ ẽ	Ω¯	۸	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	۸	1				0.0˙ 125.0 [%]	11.5 [%]
P16.36	V/F		2				0.0˙ 300.0 [Hz]	50.0 [Hz]
P16.37	V/F	۸	2				0.0˙ 125.0 [%]	100.0 [%]
P16.38	V/F		3				0.0˙ 300.0 [Hz]	50.0 [Hz]
P16.39	V/F	۸	3				0.0˙ 125.0 [%]	100.0 [%]
P16.40	V/F		4				0.0˙ 300.0 [Hz]	50.0 [Hz]
P16.41	V/F	۸	4				0.0˙ 60 Ŏ	

P16.59	Ḡ ɒ	Ḡ ɒ	0.0˙ 1000.0 [%]	100.0 [%]	
P16.60	Ḡ №	Ḡ №	0.0˙ 1000.0 [%]	100.0 [%]	
P16.61	⅄ L ɒ	⅄ L ɒ	0.0˙ 1000.0 [%]	100.0 [%]	
P16.62	⅄ L №	⅄ L №	0.0˙ 1000.0 [%]	100.0 [%]	
P16.64	V/F ƀ	V/F ƀ	0.0˙ 1000.0 [%]	100.0 [%]	
P16.66	L ɒ	V/F Й, L ɒ	0.0˙ 1000.0 [%]	100.0 [%]	
P16.67 Ƹ˩	L˩ ɒ	Ƹ˩ L˩ ɒ	0.0˙ 1000.0 [%]	100.0 [%]	
P16.68 Ƹ˩	L˩ №	Ƹ˩ L˩ №	0.0˙ 1000.0 [%]	100.0 [%]	
P16.69 Å	L˩ ɒ	Å L˩ ɒ	0.0˙ 1000.0 [%]	100.0 [%]	
P16.70 Å	L˩ №	Å L˩ №	0.0˙ 1000.0 [%]	100.0 [%]	

5.1.9 1 L P20

w	O		ж	ỵ	
P20.0	L	[0] [1] ą	0˙ 1	0	
P20.1		[0] ₮ [1] ˜ 1 [2] ˜ 2 [3] ƀ [4] ǎ P20.3 ỵ [5]DP [6]MODBUS [7] w ښ	0˙ 7	0	
P20.2		⁞	0˙ 7	0	
P20.8	h L ỵ	P20.7 [1] ỵ	0.0˙ 300.0 [%]	200.0 [%]	
P20.9	ĭ h L ỵ	P20.7 [1] ỵ	0.0˙ 300.0 [%]	200.0 [%]	
P20.11	L		0˙ 1000 [ms]	0 [ms]	

P20.13	T	T	20.0˙ 500.0 [ms]	100.0 [ms]	
P20.14	‖	1 ‖	0˙ 60000	1024	
P20.15	‖ h	[0] [1] ą	0˙ 1	0	
P20.16	h	h ضي 7 ЙĮ	0.0˙ 300.0 [%]	100.0 [%]	
P20.17	h	h ضي 7 ЙĮ	0.0˙ 300.0 [%]	100.0 [%]	
P20.18	h	h ضي 7 ЙĮ	0.0˙ 300.0 [%]	0.0 [%]	
P20.19	h	h ضي 7 ЙĮ	0.0˙ 300.0 [%]	0.0 [%]	
P20.20	w ą	[0] [1] ą	0˙ 1	0	5.2
P20.21	w	[0] [1]	0˙ 1	0	5.2
P20.22	ų	ضي w Й	0.0˙ 300.0 [%]	160.0 [%]	
P20.23	ų	ضي w Й	0.0˙ 200.0 [%]	20.0 [%]	
P20.24	ų	ضي w Й	0.0˙ 300.0 [%]	100.0 [%]	
P20.25	ų	ضي w Й	0.0˙ 200.0 [%]	100.0 [%]	
P20.26	β	β	0.0˙ 1000.0 [%]	0.0 [%]	
P20.27	β ê	β ų	0.00˙ 15.00 [%]	2.00 [%]	
P20.28		[0] ų G P20.16 P20.17 [1] ~ [2] [3]DP	0˙ 3	0	
P20.30	Ę Й	[0] Ę ų G P20.31 P20.32 ų Ę [1] ~ 1 [2] ~ 2 [3]	0˙ 3	0	

P20.31	Ẓ	Ẓ	ṿ	0.0˙ 100.0 [%]	5.0 [%]
P20.32	ị̉ Ẓ	ị̉ Ẓ	ṿ	0.0˙ 100.0 [%]	5.0 [%]
P20.34	□ ẽ ą	[0] [1] ą		0˙ 1	0
P20.35	ش̄ي	Å U ش̄ي		0.0˙ 100.0 [s]	0.0 [s]
P20.36	Ω˥ ش̄ي	Ω˥ ش̄ي	ṿ	50.0˙ 150.0 [%]	110.0 [%]
P20.37	Ω˥	Ω˥		0.0˙ 150.0 [%]	100.0 [%]
P20.38	Ω˥	Ω˥		0.0˙ 100.0 [%]	25.0 [%]
P20.39				0.0˙ 120.0 [%]	100.0 [%]
P20.40				0.0˙ 150 0 [%]	100.0 [%]
P20.41				0.0˙ 150 0 ƧƧ [%]	135.0 [%]
P20.42	w	[0] [1] ą		0˙ I	1
P20.43				25˙ 1000 0.0[msv0s0ɛ	

ƎUC" ƨN gƨ0ƈƎ1ǫO

ʎ0ƎWZ

[%] [◎

[0

[]

0˙ ị ỉ ʞƨıſ

0.0

P20.53	: └ Kp	└ ד ם	0.0˙ 1000.0 [%]	100.0 [%]	
P20.54	: └ Ki	└ ד №	0.0˙ 1000.0 [%]	100.0 [%]	
P20.55	ם	└ ד ם	0.0˙ 1000.0 [%]	100.0 [%]	
P20.56	№	└ ד №	0.0˙ 1000.0 [%]	100.0 [%]	
P20.62	ם	└ ד ם	0.0˙ 1000.0 [%]	100.0 [%]	
P20.63	№	└ ד №	0.0˙ 1000.0 [%]	100.0 [%]	
P20.98	¬	¬ (ץ)	0.01˙ 300.00 [s]	0.75 [s]	
P20.99			0.00˙ 10.00 [%]	0.00 [%]	

5.1.10 w ă P26

w	O		₯	ץ	
P26.00	w	0 1 ą	0~1	0	5.2
P26.01	ר ‰	0 ¬ ƀ 1 ‰ 2 ‰	0~2	0	5.2
P26.02	ר ‰		0~2500kg	800kg	5.2
P26.03	¬ r ‰		0~500kg	75kg	5.2
P26.04	‰		0~10000kg	2000kg	5.2
P26.05			0.0~500.0%	100.0%	5.2
P26.06			0~10000kg	2000kg	5.2
P26.07			50.0~200.0%	105.0%	5.2

5.2 ǎ w

5.2.1 ~

1 L

Ɒ ẏ ǎ P12.0 [0] ~ [1]Ʉ L

A. [0] ~

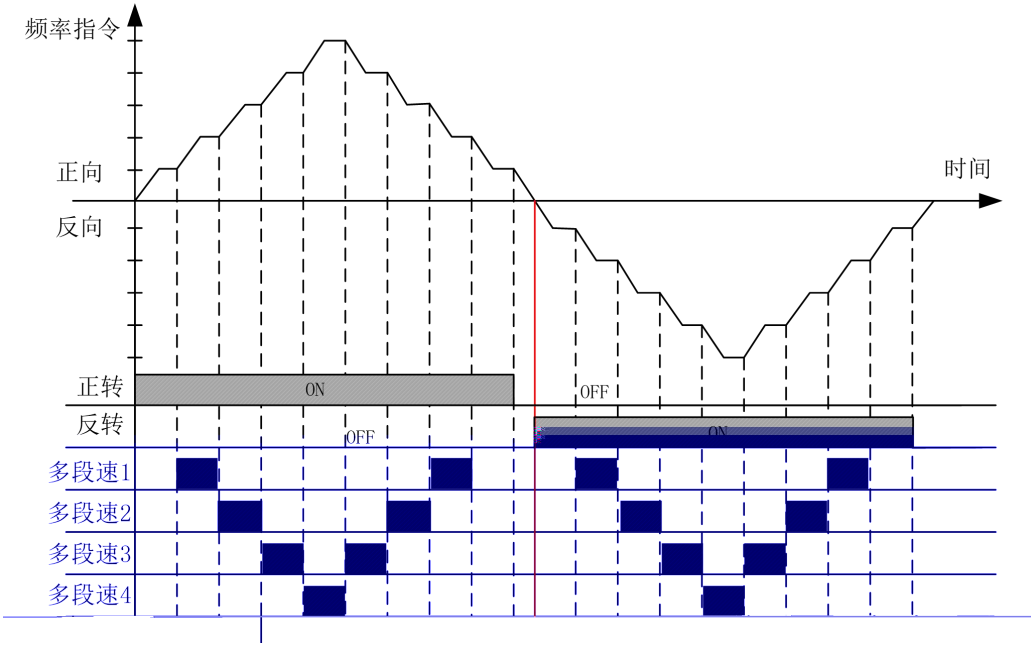
[1] [2] ǐ ---1

[6] 1 β 0 ---2

[7] 2 β 1 ---3

[8] 3 β 2 ---4

[9] 4 β 3 ---5

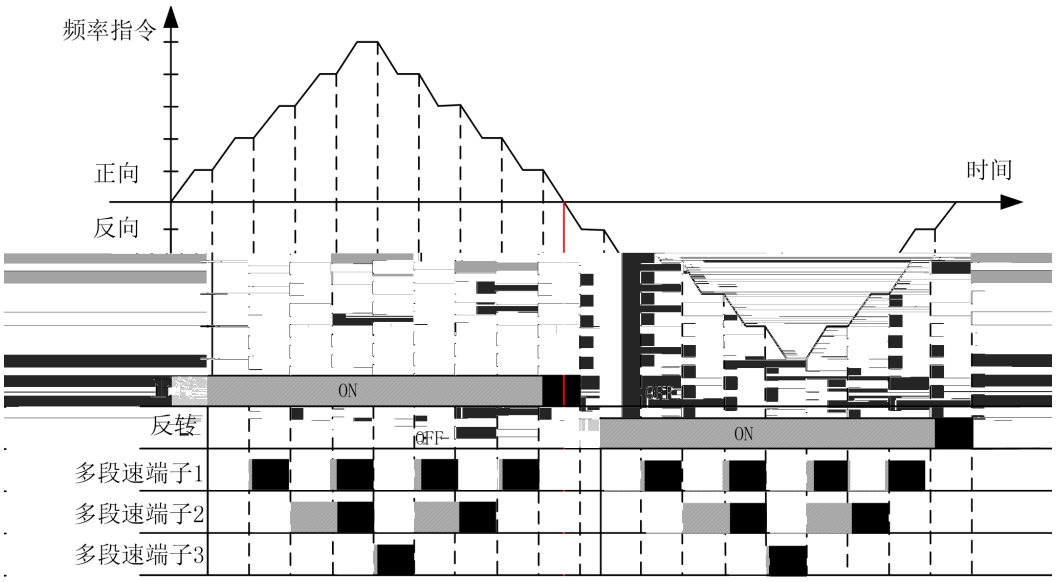


B. [1]Ʉ L

4 ɷ 16 ɔ̈ (8421) ɾ ~

(FORWARD) ǐ (REVERSE) Ḥ ɣ ǎ P12.2(1) ɛ ʏ ẏ

Ʈ ẏ



5.2.2 Ḡ ǎ

1 Lw

P7.0 Lw L Lẏ w Ω

2 Ḡ w

P7.4 Ḡ w ǎ P7.4 ě γ ǎ P16.4

ẏ w Ω Ⓟ ǐ ς ₹ ẏ ч №

3 Ḡ

P7.8 Ḡ ẏ ǐ ς ₹ ė $I_a + I_b + I_c$ P16.4

$\frac{I_a + I_b + I_c}{} > P \quad \times P \quad \times$

w Ω ғ Ⓟ ǐ ς ₹

ضر Ψ

4 ۱ ۱Ḡ

P7.12 P7.13 ۱ ۱Ḡ w ǐ ς ۱ ǎ P7.12 ẏ

w Ω ғ Ⓟ ǐ ς ₹ ǐ ς ۱ ٧ G P7.13 ẏ w Ω

ғ Ⓟ ǐ ς ₹ ẏ

5 Ḡ

P7.14 w ǐ ς IGBT ǎ P7.14 ẏ w Ω

ғ Ⓟ Ї ҁ Ҿ Ї ҁ

P7.15 w Ї ҁ ضي Å ЙӇ Ї ҁ IGBT ӑ P7.15 ѵ w Ω

6 Ḡ

P7.19 P7.20 P7.21 P7.22 w ӑ P7.19 ѵ w Ω ғ Ⓟ Ї ҁ Ҿ P7.19 P7.22 ѵ ч №

7 Ω Ḡ

P7.23 Ḡ ₇ ضي L ч P16.11=1 ƀ P7.23 ч ѵ Ḡ w L ЙӇ Ω Ẓ ٧ مشي ضي Ω

ғ P7.23 ѵ ↕ w Ω ғ Ⓟ Ї ҁ Ҿ

8 Ḡ

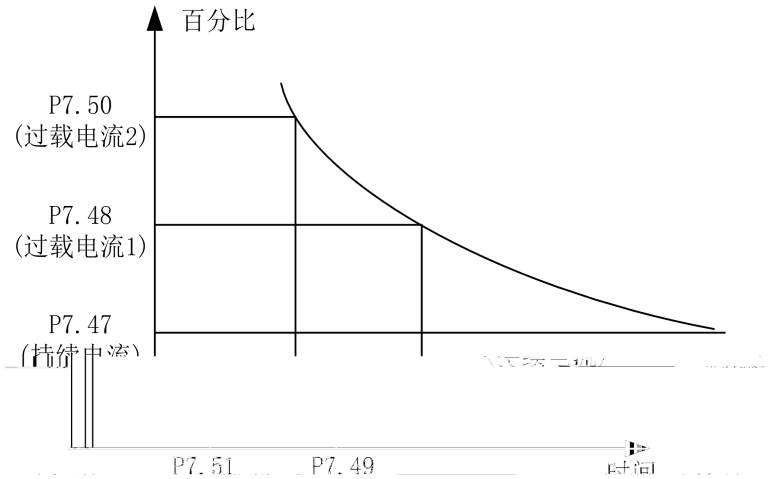
P7.31 P7.32 Ḡ w ₇ ضي L ч P16.11=2 ƀ P7.31 Ẓ ѵ 100% P7.32 ҁ Ь Ӈ Ҿ P7.31 ѵ P7.32 w Ω ғ Ⓟ Ї ҁ Ҿ

9 ӟ Ḡ

P7.33 ӟ ضي ӟ ƀ Ţ ƀ ӟ P7.33 w Ω ӟ

10 Ḡ w

P7.48 P7.50 Ḡ w Ḡ ѵ w Ω ғ Ⓟ Ї ҁ Ҿ ỉ Ḡ ӑ ЙӇ ىد



11 ṗ └ ㄧ″Ḥ

ضي P7.64 ч 1 U w ą ㄧ ɢ └ Ω ㄧ ṿ ṗ └ ㄧ ″Ḥ ƀ ắ P7.65 └ ŋ ㄧ ṿ ắ P7.66 └ ŋ ㄧ ṿ ῡ Ь ɢ └ Ω ㄧ ṿ غ P7.66 ≥ P7.65 P16.0 ~ ㄧ ч 380V P7.65 ч 50V └ Ω ㄧ ṿ ч 647V P7.66 ч 100V └ ŋ ㄧ ṿ ч 697V `E Й

└ Ω ㄧ ṿ = ×√ × + +

└ ŋ ㄧ ṿ = ×√ × + +

5.2.3 └ ح L

P12.22 P12.37 ضي ą └ ح w L ₇ ₹ ч [3] └ └ ح L w Ψ

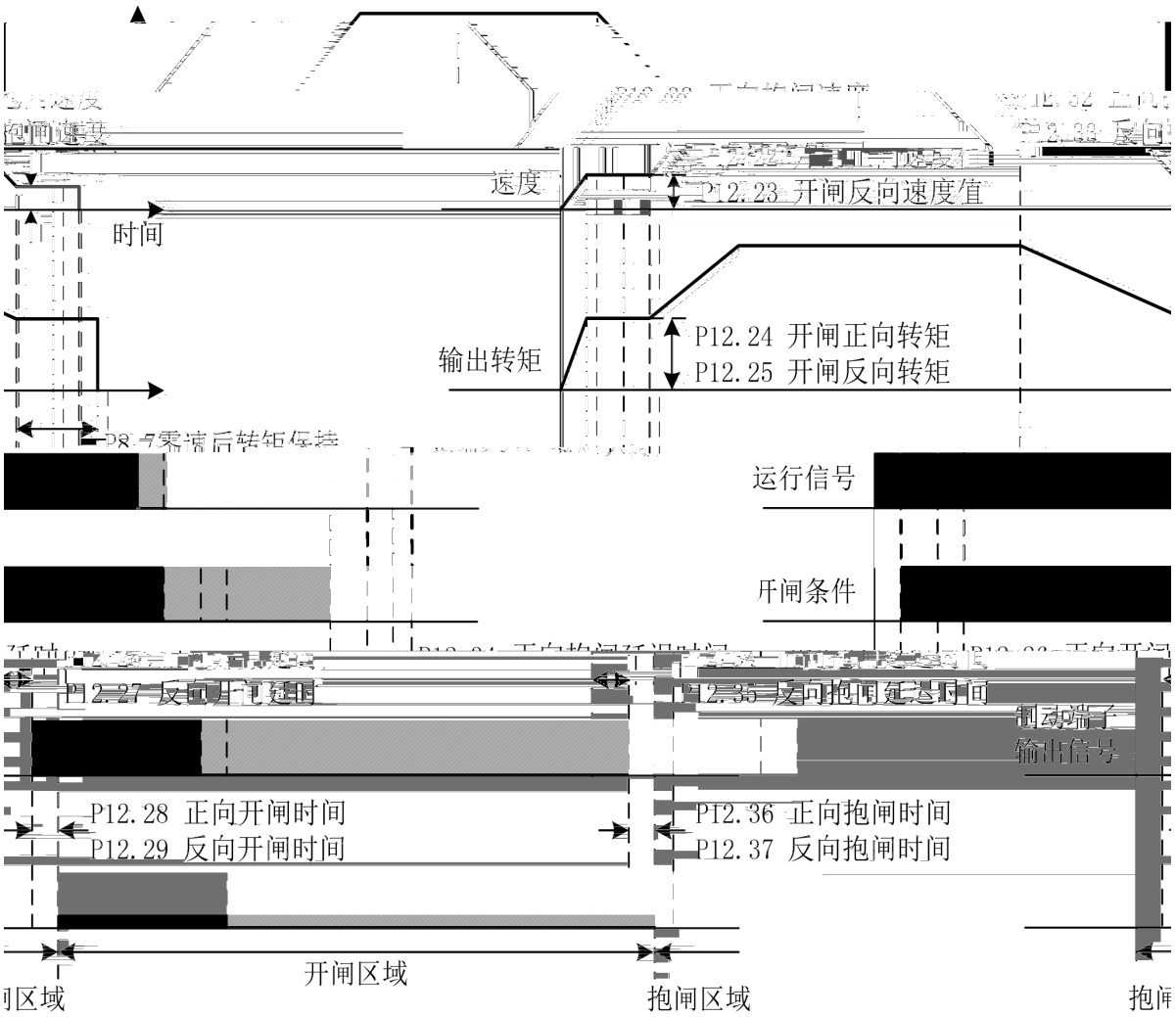
ضي Å Й ĩ ح ∫ Ḥ ↕ ỉ h ϛ ỉ ṿ □ ṿ P12.22 P12.23 ė P12.24 P12.25 ң ѽ Ð ↕ L ₹ ح ₹ ⁘ Ψ Ḥ

ضي Й ∫ Å Ḥ ↕ ⁞ ₹ ∫ ắ P12.32[h] P12.33[ỉ h] ṿ ỉ ₹ ⁘ Ψ Ḥ

P12.28 ė P12.29 ɾ ĩ ح └ Ḥ ₹ ث Ɒ ∫

P12.36 ¿ P12.37 ɾ ĭ ϟ ᒡ Ḥ ₹ ث ɒ ⎦

ĭ ỿ ɣ P16 ǎ ч ‰



5.2.4 └ ד Ḡ

└ ד Ḡ ˜ ă̋

w	ă̋ O	ẏ		
P4.2	₣ 1	3 └	└ └ ד	₇ ₣ Ң ѡ w
P4.3	₣ 4	16		ↄ └ ד Ḡ w
P12.40	└ ד ẏ	10%	100% P16.6	
P12.41	└ ד	0.1s		
P12.42		300s	ă̋ ₇ ضِ	└ Ӈ

w . ضِ └ └ Ӈ

└ ד Ḡ w ∕ ĩ ד ɢ Å └ Ӈ Å Ӈ ĩ ד ₣ └Ӈ Å Ӈ ĩ ד. : ₣ ⌡ ד ĩ ᵀ ɢ ẏ ғ ŭ └ ד Ḡ w □ ĩ ד ₣ Ƴ ɢ Ţ ғ ₣ ד Ң˜ ң U ˜ ƀ Ӈ ⌡ ض ŋ β ĩ ד ќ └ ד

P12.42 └Ӈ ĩ ד . ₣ └ ד ĩ ד Å ₣

5.2.5 w

w ˜ ă

w	O		ض
P26.00	w	0 1 ą	0~1
P26.01	٦ ‰	0 ˥ ƀ 1 ‰ 2 ‰	0~2
P26.02	٦ ‰		0~2500kg
P26.03	¬ r ‰		0~500kg
P26.04	‰		0~10000kg
P26.05			0.0~500.0%
P26.06			0~10000kg
P26.07			50.0~200.0%

1 ‰

1 ṗ₇ ₩ O ‰ ₂ ‰ ₂ r ضي ă P26.03 ١ β kg

2 ‰ ‰ 3s P26.01 ч 1 ‰

‰ U Ψ

3 ‰ ضي ṗ ₹ ˜ 2000KG

⌡ P26.04 U P26.01 ч 2 ‰ ‰ U Ψ

ضي ‰U Ŭ ṿ ˆ Ь ‰

4 ˆ P26.06

2

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Ь ₹ ٦ ₩ ₩ ↕ ‰ w ˆ Ь ṿ

ė w U ٧

5.2.6 w w

ч ъ ٦ ъ ʒ ٦ ₩ r ṗ ъ w └w

З ч w w . ضي └ Й ă

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w	ă O	ų	
P20.21	w └	0 “ ”قمم	
P20.22	└ ų	ч ىشي ٦ β %	ɒ ч 50HZ ч 85HZ ų ч 85/50* 100%=170%
P20.23	ų	ч ⌠ P 20.22 ¨Ң \J № مخ 10%-50%	ɒ 2T ¨Ң 1T ⌠P20.22 ų ↕ ă ч 1/2*100= 50 ų ъ 50 P2 0.22 ų
P20.24	└ ų	100%	
P20.25	ų	100%	
P20.45	h ų	6%	
P20.46	ĭ h ų	5%	
P20.47	h ų	90%	
P20.48	ĭ h ų	77%	
P20.49	ų	100%	
P20.20	w └ ą	1 “ ą ”	

5.3 ٦ w ٦

к ∨ β ᵽ γ ĭ ٦ ˆ γ ƀ ٦ P12.04

⌡ ⋮ β ˜ U ¬ ⋮ ч ٧ P12.03

⁘ ⁞⁘ ٦ β ˜ ψ ⁘ ٦ β ᵽ □ ٦ ⋮ Å ٦

ˀ Ӣ Ь ⁘ □ Ӣ ⌡ Ӣ β ˜ ψ Ӣ β ᵽ □ ٦

⋮ Å ٦ ˀ ⁘ ٦ Ь Ӣ

⁘ ⌡ ‖ β ψ ‖ β ᵽ ᒐ ⍧ ٦

Å ₹ ⌡ Ӣ ɒ U ٦ β ڒ Ӣ ث ɒ ⌡ ₹ ‖

β U ˝Ң ˈP ⁘ ٦

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Ӣ Ѫ ڒ Ѫ Å ˆ ƀ ᒐ ٦

ƀ ⁘ ₩ ԋ №≠ ٧ ⁘ ⁘ Ӣ ₩

ԋ №≠ ٧ Ӣ Ӣ Ӣ ṗ Å ˜ U ᒐ ⍧

٦ Å ₹ Å U ٦ β Ӣ ╠

Ӣ Ѫ ڒ ٦ ˆ γ ƀ

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ṗ ƀ ث ɒ ڜ ˀ ƀ ƀ⁘ ٦ ɻ ƀ Ӣ

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Å ₹ Å U ٦ β Ӣ ╠ Ӣ Ѫ

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1 تخه ضي Ŵ ۷ F ʒ¬ 2 ƀ ¬ ŋ

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6.1 ɒ ɳ

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ɒ ɳ	ɒ Ḥ	ɒ ʌ ⁄	
W01	‰ SYS_NOT_RDY	ĭ ⁄ ⌠ ‰ (Ready)	ĭ ⁄ ~ ʌ ʌ
W04	ɒ REMOTE_EM	~ ч [Å Ḥ] ⌠ ì ɒ	ă P3 ~ ă ⁄ ĭ
W06	OT	ĭ ⁄ ⁄ ⁝ ˥ ⌠ ă P7.14( ) ṿ	' ч
W10	MODBUS ɒ MODBUS ALARM	Modbus ɒ	Modbus L β
W15	ă PARAMETER ERROR	ă	ă ɳ ₹ ₼
W18	Temp_Sensing Fail	ɒ	

6.2 ɳ

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ɳ	Ḥ	ʌ ⁄ ĭ
[E051]	U IGBT Ь β ERR_UT not reset	IGBT ɳ IGBT ⁻ ĭ ⁻ ɳ U ⁝
[E053]	V IGBT Ь β ERR_UT not reset	IGBT ɳ IGBT ⁻ ĭ ⁻ ɳ U ⁝
[E054]	W IGBT Ь β ERR_UT not reset	IGBT ɳ IGBT ⁻ ĭ ⁻ ɳ U ⁝

[E057]	ρ └ ↑"Ή Ь β ERR_DB not reset	└ IGBT ↑ └ IGBT ¬ ï ¬ ↑ U
[E100]	↑ OV	└ ↑ ă P8.35(⋮ 1) ì ă P7.12(↑)
[E105]	~ ↑Ѝ ↑ ⌠ ì └ ν ~ ↑ ~ ↑ ï ↑ ~ ᵕ ↑ ă P7.13(↑)	
[E108]	↑ DC switch open	↑ ↑ ↑
[E109]	15V DC15V fail	15V 15V ↑
[E110]	OC	↑ ν ⋮ ï ì ↑ ↑ ï ↑ ă P7.4(Ḡ)
[E111]	OL	ï ↑ ₣ ă P7.48(1) P7.49(1) ă P7.48 P7.49 ï ì ↑
[E112]	ض ZC	ă P7.8 ↑ ï ↑ض D ↑ ↑
[E113]	~ MIP	ï ↑ ~ ↑ └ ↑
[E114]	₣ MOP	ï ↑ ₣ ⌠ ↑
[E115]	OS	ă P7.19 ă P7.19 ↑ ش ï ↑
[E116]	└ SLVC Fail	ν ⋮ ↑ ă P7.23
[E117]	MOTOR STALL	└ ↑ ↑ ↑ ε ă P20.14 P20.15 ↑
[E118]	↑ PG ERROR	↑ ε ă P20.14 P20.15 ↑

[E119]	SPEED ABNORMAL	ↄ ė ă P20.14 P20.15 ղ ă P7.31 P7.32
[E120]	ĩ ↄ IGBT OT	ė ṗ ĩ ↄ ' ↓
[E138]	TEMP_SENSING FAIL	
[E152]	U IGBT PDP [U]	IGBT ղ IGBT ˗ ĭ ˗ ղ ₣ ղ
[E154]	V IGBT PDP[V]	IGBT ղ IGBT ˗ ĭ ˗ ղ ₣ ղ
[E155]	W IGBT PDP [W]	IGBT ղ IGBT ˗ ĭ ˗ ղ ₣ ղ
[E156]	Ð Hardware OC	ղ v ⋮ ĭ ì ղ ĩ ↄ ₣ ղ
[E157]	ṗ ˩ ↓ ˝Ḥ PDP [DB]	w ↄ Ð ղ w ↄ Ð ˗ ĭ ˗ ղ
[E170]	ӟ MOTOR TUNING FAIL	ă ă P7.33
[E201]	REMOTE_EM	˜ ч [Å Ḥ ˆ] Ḥ ˆ ă P3 ˜ ă ↄ ĭ
[E202]	Modbus MODBUS EMERGENCY	Modbus ˩ CW0.4 Ḥ ˆ ì
[E204]	DI w ERR DUPLICATE DI SET	DI
[E210]	ƀ ↄ Panel Error	ƀ ղ
[E220]	Ũ ↄ CRC MEMORY CRC ERR	˩
[E221]	ă PARAMETER ERROR	ă ղ ˙

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	CZT200( )	
	CZT300( )	G CZT200
Đ	GD300-NP31K	G
	GD300-NP31	G
D	ZMHBX-3t ZMHBA-3t-GX12-5P	G
	GDHF630N4PG01A1	
№	LY-1X	CZT300
Đ	GDHF-WP02	
	GDHF-WP04	
Đ	ENC-01-GX	G
	WBSJ2020-0312-2 16Ω/25kW	37kW
	BZRL-15/25KW	37kW
	ZCDQ2021102822 13.6Ω/30kW	45kW
	10.10.A36.03.XS00	BZRL-15/25KW
	22.10.A36.96.200	

A.1 ṗ ƀ˜

CZT100 ƀ˜ Ғ ΰ ῡ ϒ Ғ ƀ˜ Ω Å

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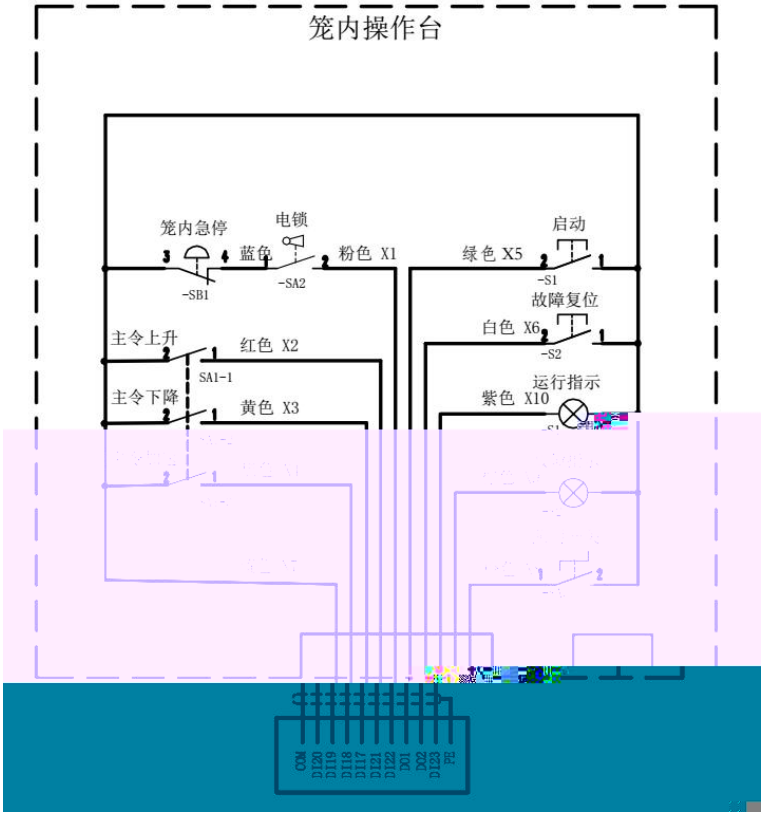
CZT100 ƀ˜ ϫ


笼内操作台
笼内急停
-SB1
电锁
蓝色
-SA2
粉色 X1
启动
绿色 X5
-S1
故障复位
白色 X6
-S2
主令上升
红色 X2
SA1-1
主令下降
黄色 X3
运行指示
紫色 X10
COM
D120
D119
D118
D117
D121
D122
D01
D02
D03

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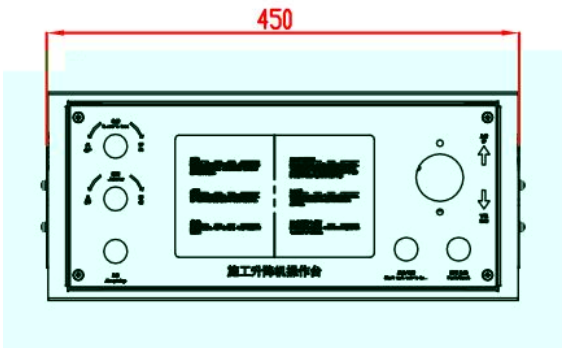
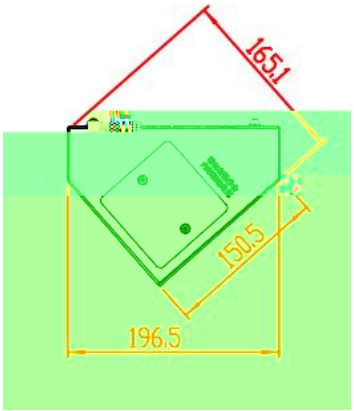
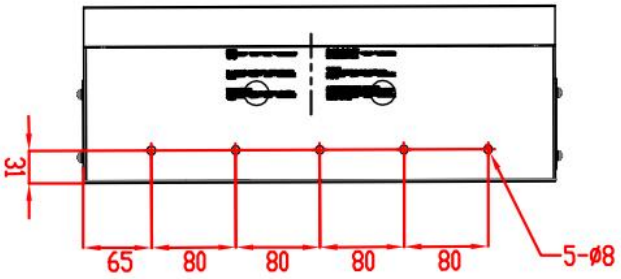

450


165.1
150.5
196.5


31
65
80
80
80
80
5-ø8

CZT200 Þ˜ ›¨

CZT200 فمم ƀ˜ Ғ ΰ̈ ŵ ٦ Ғ ƀ˜ ضي CZT100 ƀ˜

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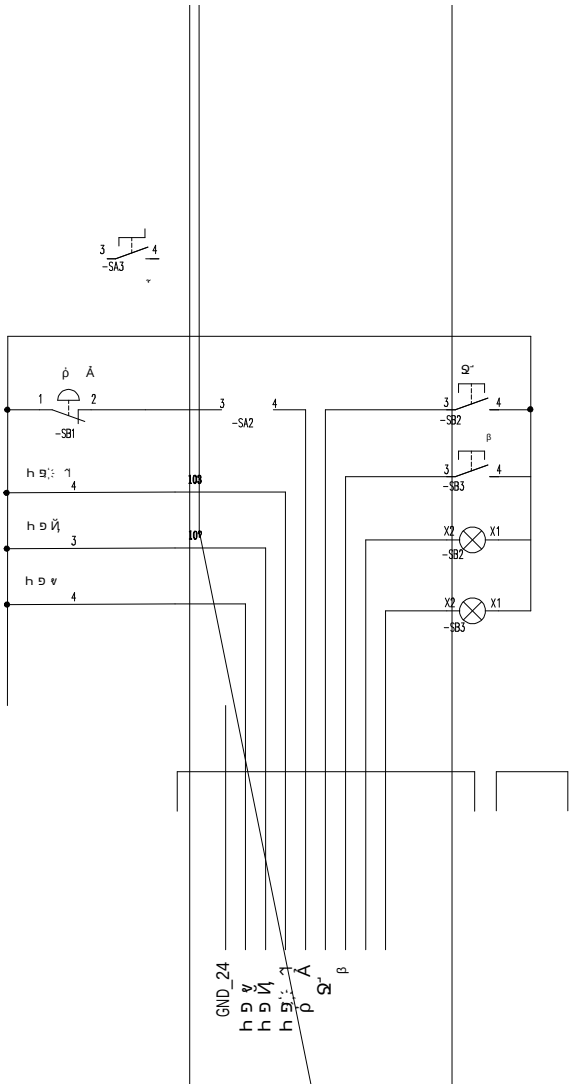

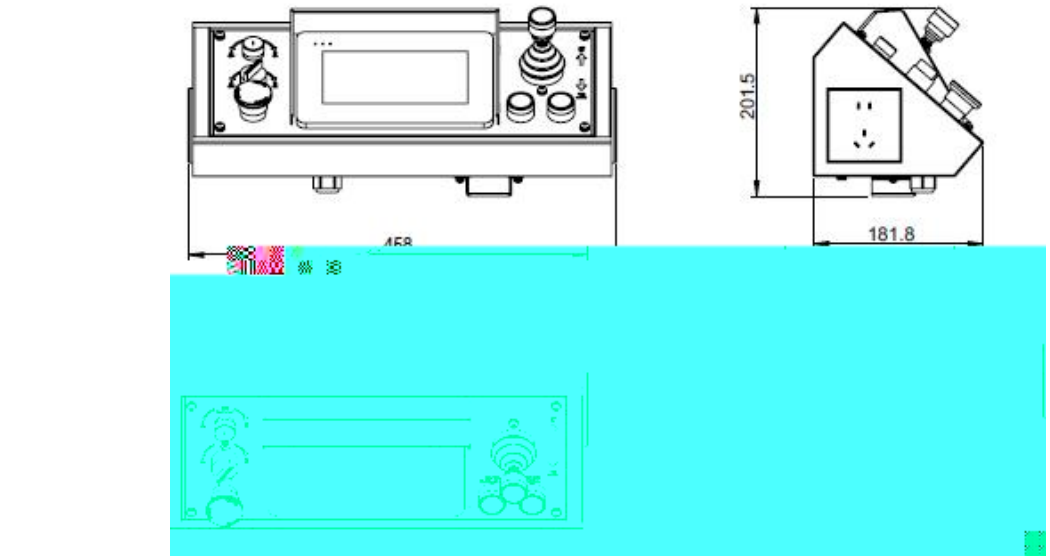

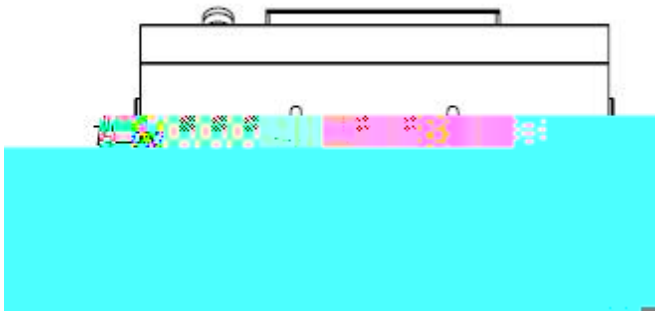

CZT300

CZT300 فهم ƀ˜ Ғ ΰ ŵ ٦ Ғ ƀ˜ ضي CZT200 ƀ˜

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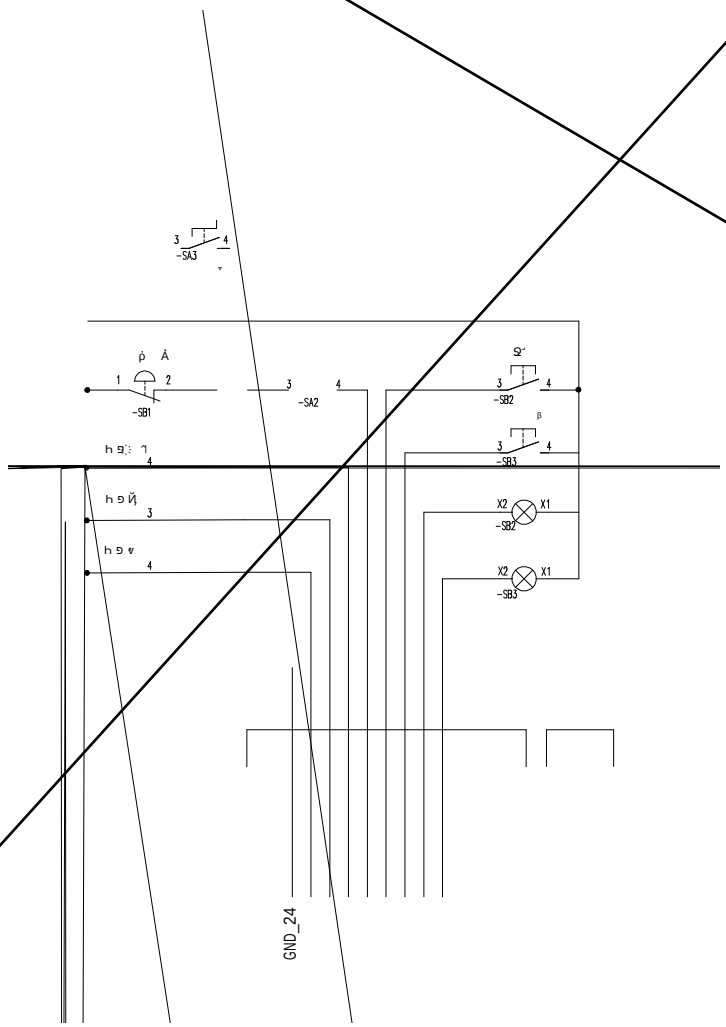
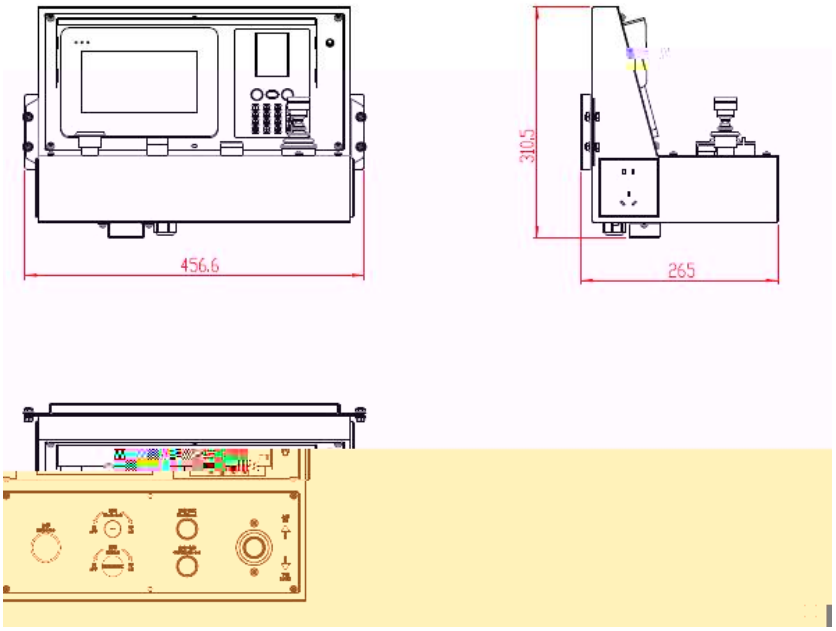
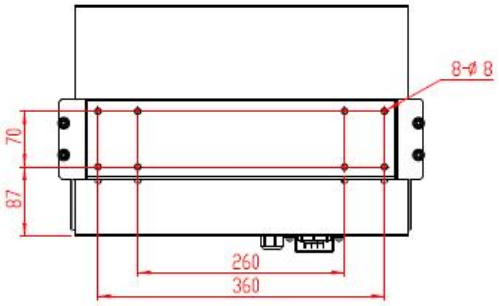
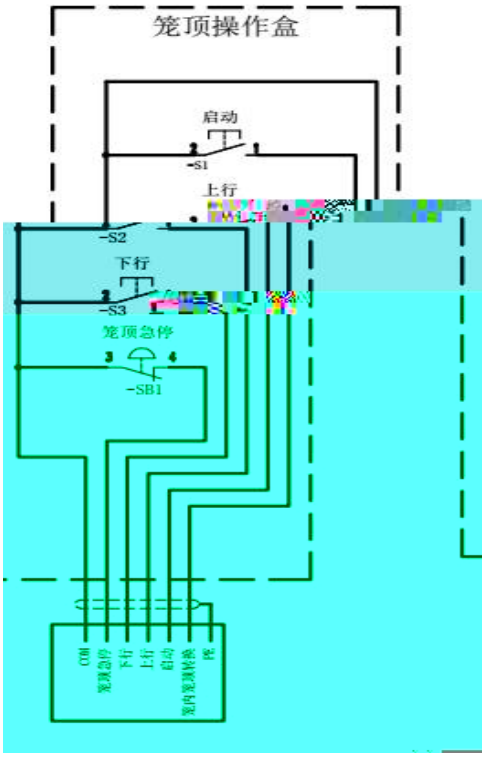
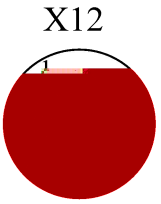



456.6
310.5
265


8-ϕ 8
70
87
260
360

A.2 ƀ





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GD300-NP31K ƀ ˥ ẅ r Ғ ƀ ą Ḃ

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3	COM	`E ˜	
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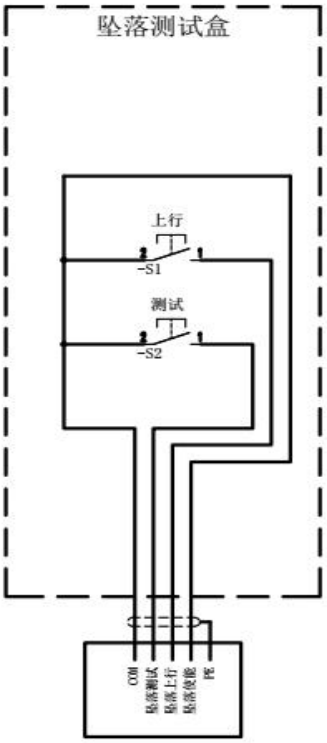
5	⁘	ṗ ⁘	
6	Ӣ	ṗ Ӣ	
7	PE		

A.3



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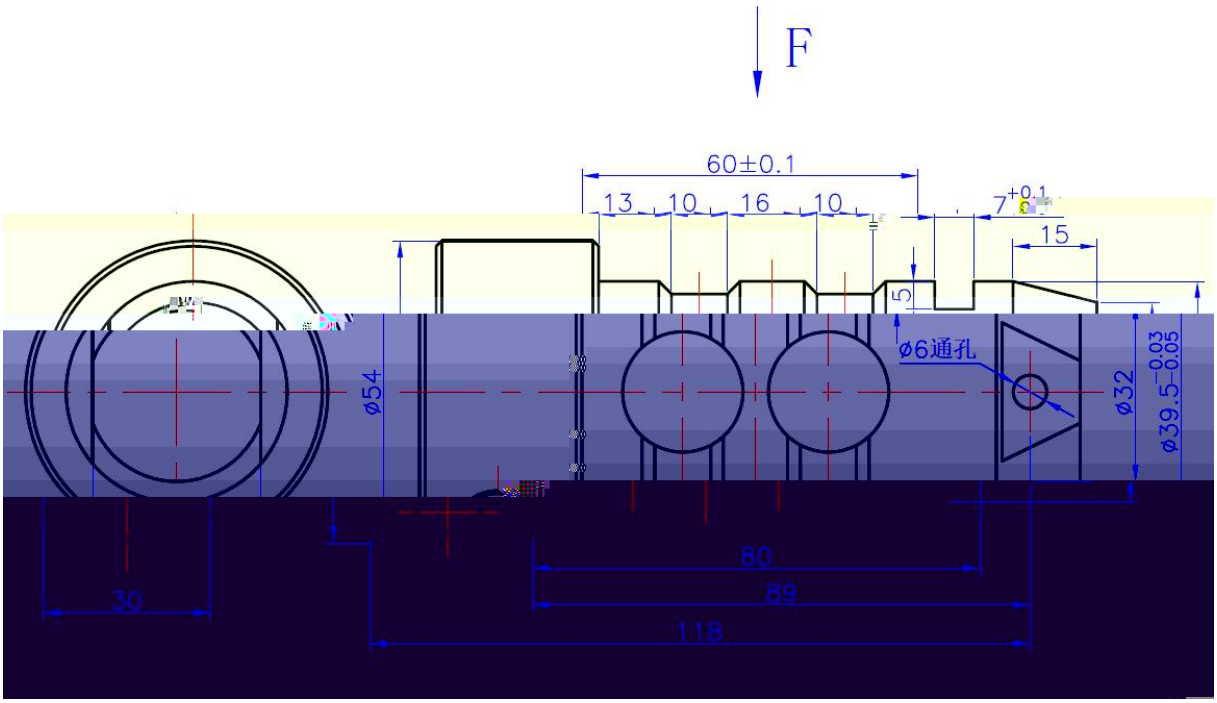
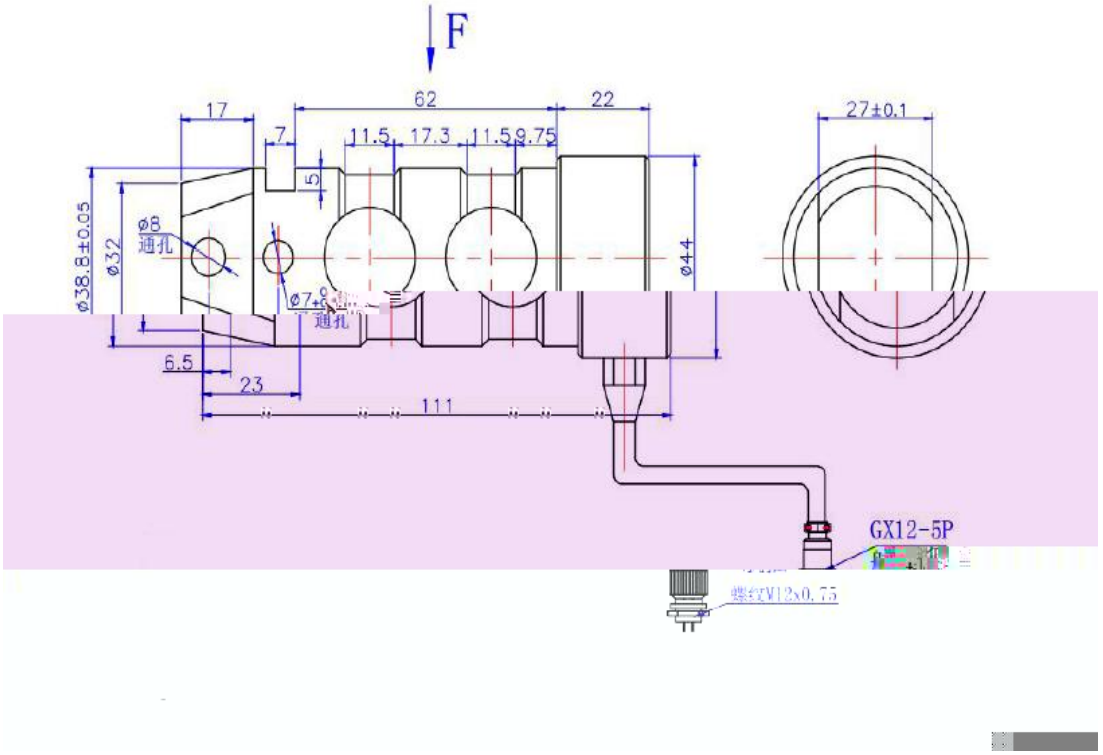


ZMHBX-3t D ﾑ



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~ Ω	370±20
₹ Ω	350±3
ŋ	150%F.S
ᴸ ﾉ	10VDC
	ᵛᵛ Ь

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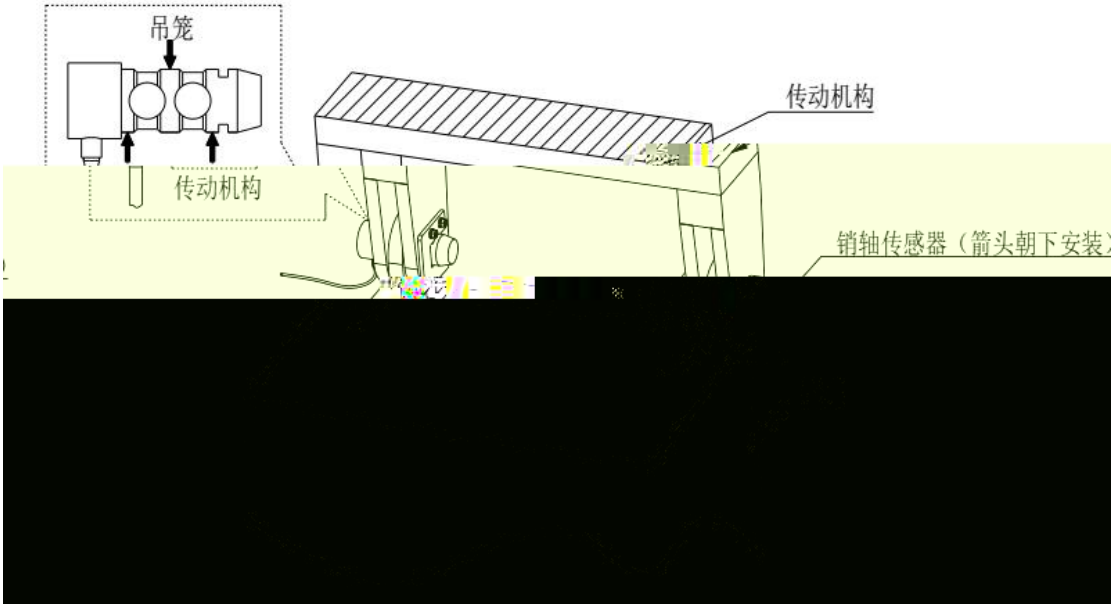
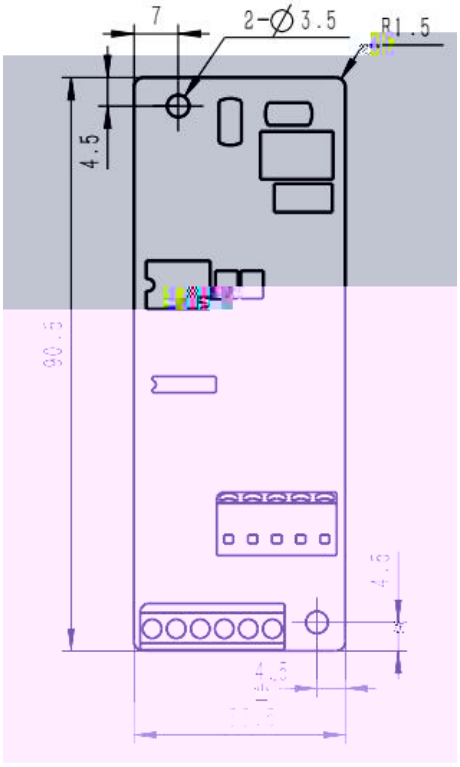


A.5 ك ١

1 أ



PG ١

2

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+15V,GND	ك ل	…	15V ± 5%	300mA
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ض w PG ١ PG ١ ‰ ´ ´E ´ ك

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ڪ ₣ Ḥ̃ ᴸ ڪ ڤ ч +15V ₣ ̃ ą ,

2

PG ١ ¨ 8 ѡ Ӣ̧ ҙ

A+	A-	B+	B-	Z+	Z-

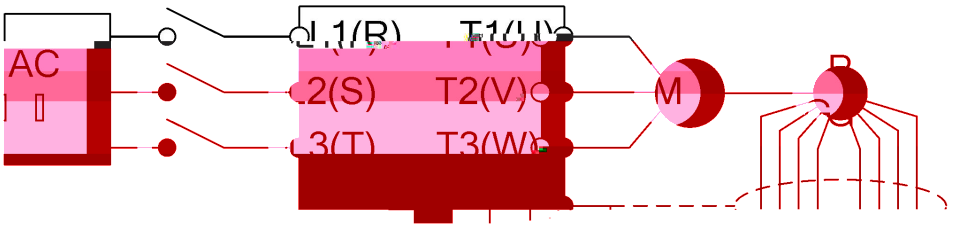
+15V	GND

ì Ţ +15V GND ч ڪ ƀ ~ A+ A- B+ B- Z+ Z- ч ڪ Ḥ̃

~ PE ч ą PE ض

3 ٨ ҙ

PG ١ ٨ ҙ



Hυ

(1) PG ١ Ḥ ƀ ʒ №

(2) ч ѽ ק Ḥ ĩ ∫ ч PG ١ Ḥ

(3) ק ض ĩ ק PE ѿ ١ ض

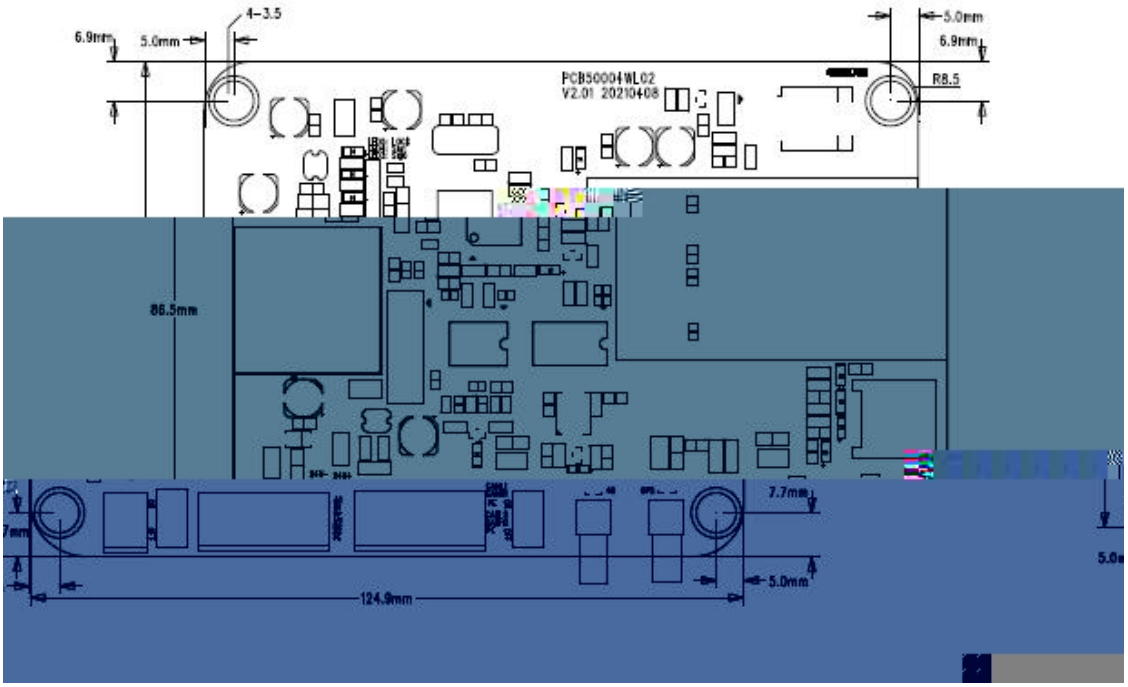
ץ ѽ Ḥ ĩ

(4) ١ № PG ١ A- B- Z- GND

A.6 ١ Ð

1 ١ Ð № ١ Ð GDHF-WP02 غ ~ ١ Ð GDHF-WP04

2 ١ Ð ч ١ ١ 4G GPR 2 ĩ



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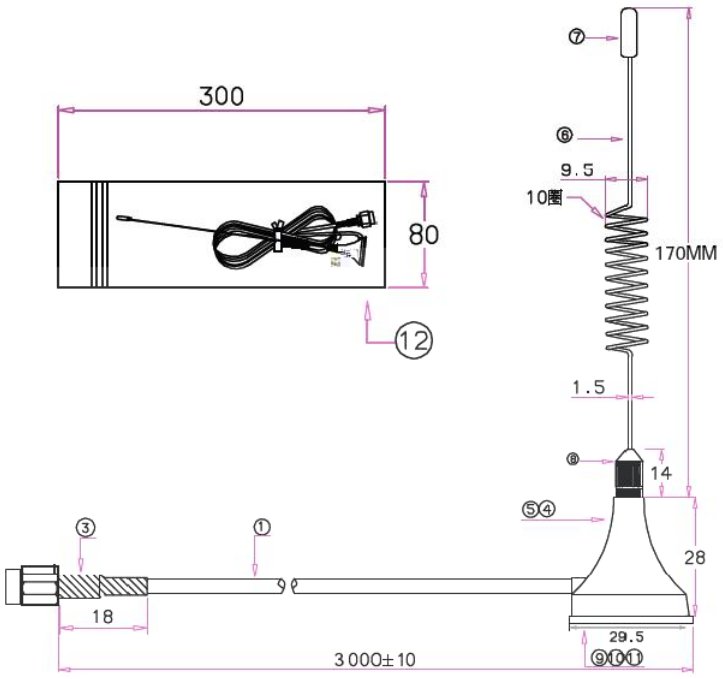
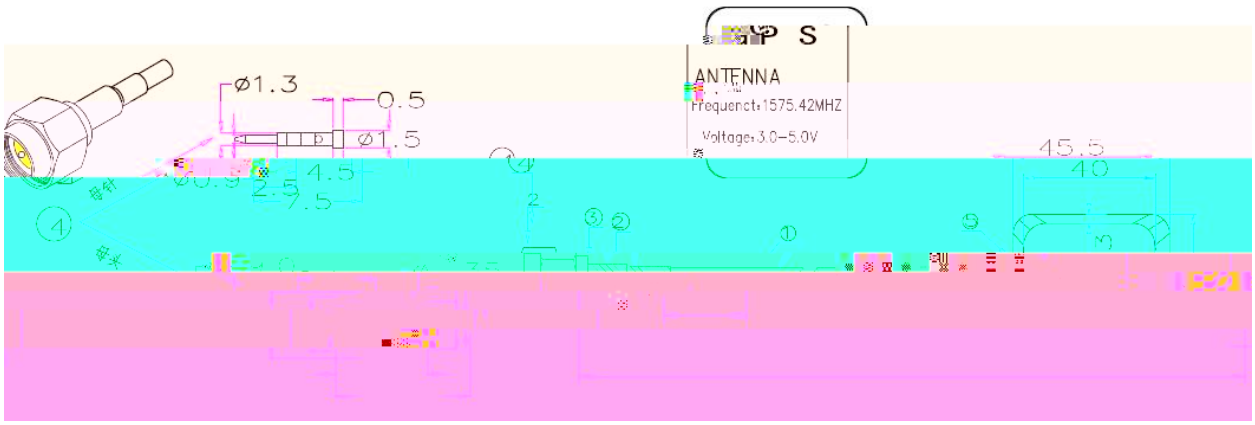


4G



GPS

[illegible] GSM [illegible]

[illegible] GSM [illegible]

ο h ٦ ΰ ∓ ث ɒ ٦ ضِ Й ∓ ĩ ∫ L

∓ ă P28.36 ضر Й ь ĩ L

ο h ٦ ΰ ∓ ث ɒ ٦ ∓ ь ψ ĩ ∫ L

ο h ٦ ΰ ŭ ╠ ث ɒ ٦ ﻉ ╠ ɒ

ġ GPS Ḥ

ο h ٦ ΰ ŭ ╠ضر β Ḥ ٧ ﻉ ╠ɒ GPS

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٧ ă Й ˢ ă ↄ :

٧ ă ˜ ٦ U ˆ ɣ ġ ќ

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P28.0 ﻗﻢ [0] ٦ 0˙ 3 0

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[2]ﻉ

P28.1 ٧ ˆ _A ٧SIM

P28.11	Ⱶ Ţ ˆ 1_C	Ⱶ Ţ SIM ∖ ˆ U4 β	0˙ 9999	0000
…	…	…	…	…
P28.33	Ⱶ Ţ ˆ 9_A	Ⱶ Ţ SIM ∖ ˆ ╠3 β	0˙ 999	139
P28.34	Ⱶ Ţ ˆ 9_B	Ⱶ Ţ SIM ∖ ˆ Ţ4 β	0˙ 9999	0000
P28.35	Ⱶ Ţ ˆ 9_C	Ⱶ Ţ SIM ∖ ˆ U4 β	0˙ 9999	0000
P28.36		∕ β ч Hz	0.0˙ 5.0	5.0

ففم

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Ψ ڒ Ļ ث ף ĵ ɪ ˆ Ů ث ף ∖ h ∖

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ă P28.06 ~ P28.35 10 ɷ Ⱶ Ţ ˆ ~ 11 β ˆ №

≠ ч ╠3 β Ţ 4 β ẋ 4 β

ɒ Ⱶ Ţ ˆ ч 13912345678

P28.06 ă ~ 139

P28.07 ă ~ 1234

P28.08 ă ~ 5678

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№ Ώ ą Ḥ ŭ \ ĺ ᵣ ث פ غ ﷺ ṗ Й

1. ث פ

2. ث פ lock

3. U \ ﷺ Lock Done

4. Ḥ \ ﷺ Ḥ ŭ ث פ

5. ث פ

6. ث פ unlock

7. U \ ﷺ unLock Done

8. Ḥ \ ﷺ Ḥ ŭ ث פ

9. ث פ

10. ث פ state

11. \ ﷺ

12. state:Lock(unLock)

13. Exxx Wxxx

14. GPS:+-DDDMM.MMMM +-DDMM.MMMM

15. ỉ Ţ Lock unLock ╠ ˥

Exxx Wxxx ч ˆl ڠ ᵽ 000

16. ∖ ج GPS:+-DDDMM.MMMM +-DDMM.MMMM

17. ₩ ₢ ṿ ч ʜ ₢ ṿ ч D ๅ GPS β شم M ч №

18. GPS Ḥ̃ β w ' Й ∖ ج GPS:No Signal

19. Ḥ ∖ ج Ḥ Ũ

ᵽ ث

20. GPS ᵽ ث

21. ᵽ ث gps

22. ∖ ج GPS:+-DDDMM.MMMM +-DDMM.MMMM

23. ₩ ₢ ṿ ч ʜ ₢ ṿ ч D ๅ GPS β شم M ч №

24. GPS Ḥ̃ β w ' Й ∖ ج GPS:No Signal

25. Ḥ ∖ ج Ḥ Ũ GPS

ᵽ ث

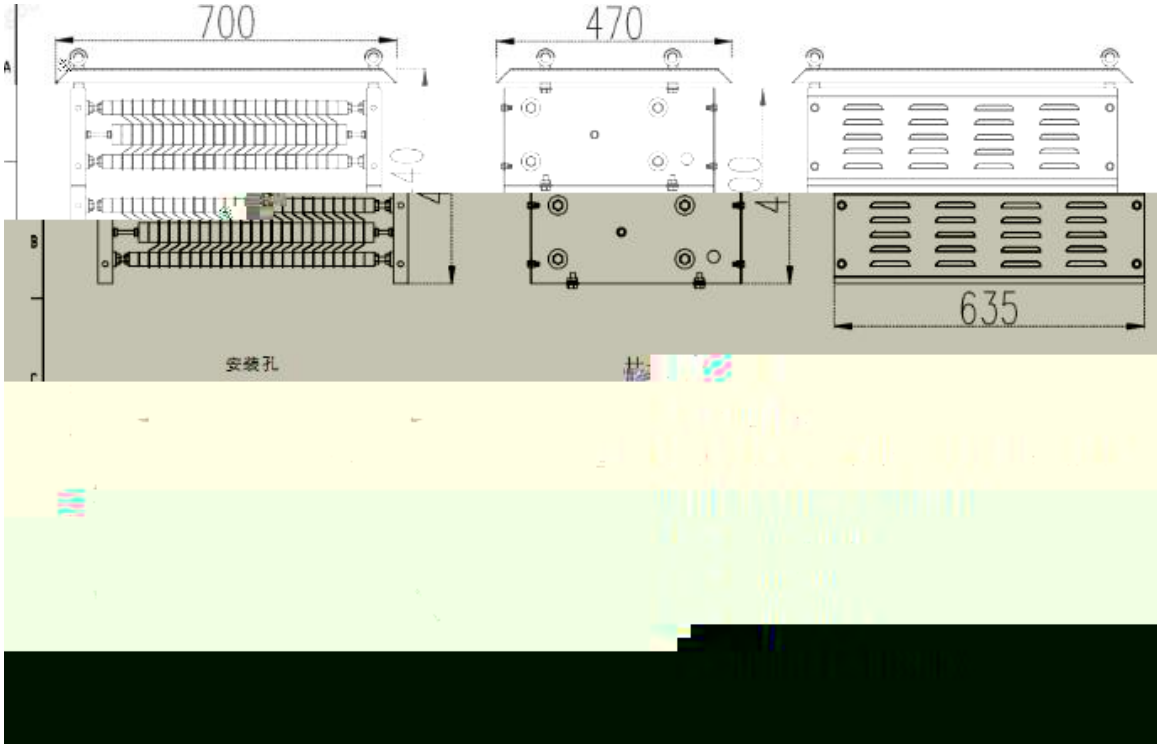
A.7 L-

L- 37kW ڠ 45kW ң ỉ Ţ 37kW L- شي

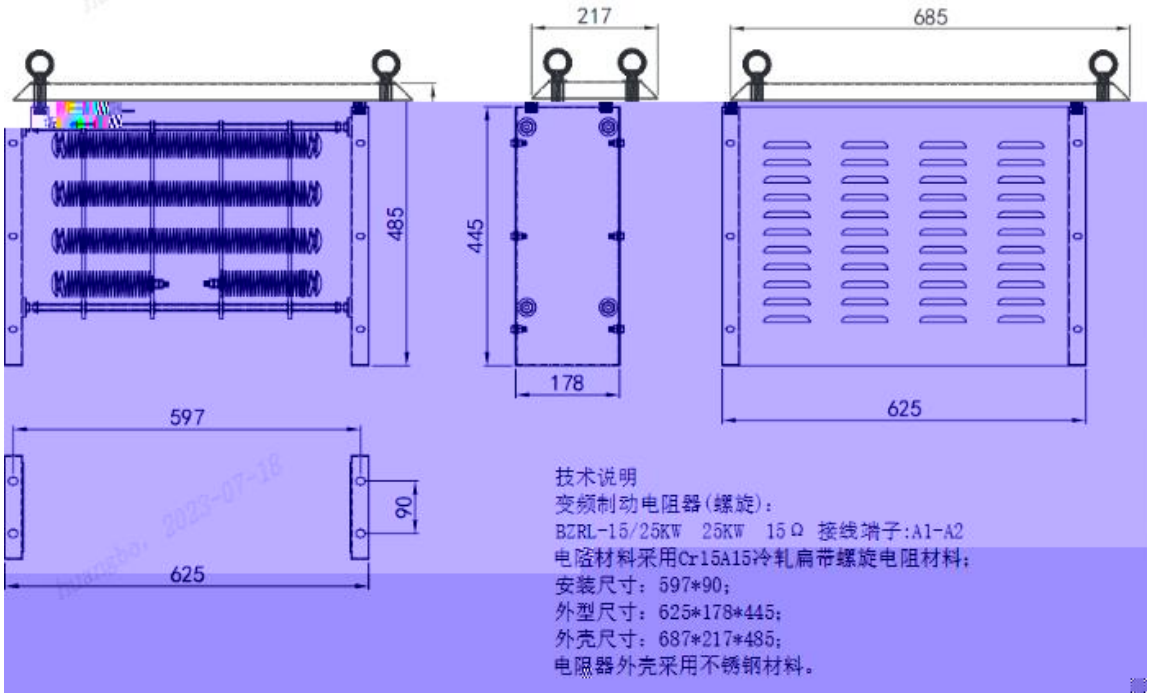
Й ң

37kW L-

L- ક્ષમ WBSJ2020-0312-2 ǎ 16Ω/25kW ચ Ѝ

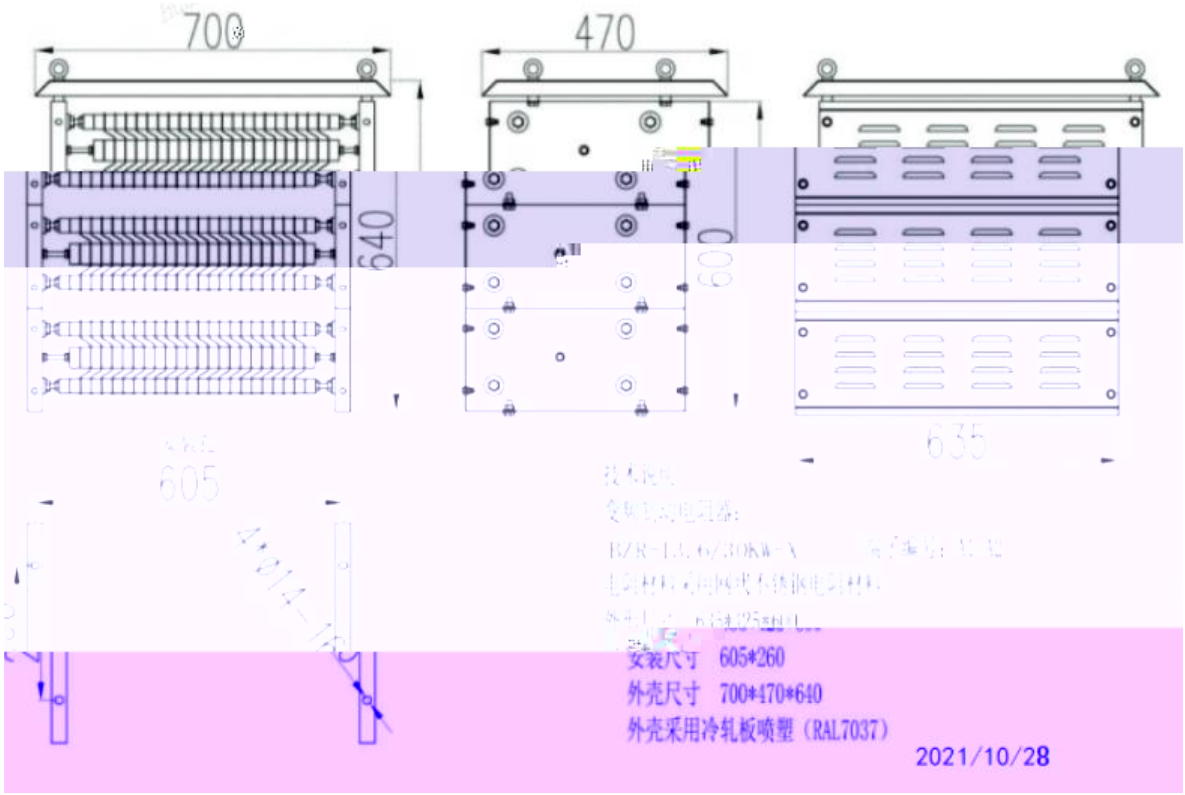


L- ક્ષમ BZRL-15/25KW ǎ 15Ω/25kW ચ Ѝ



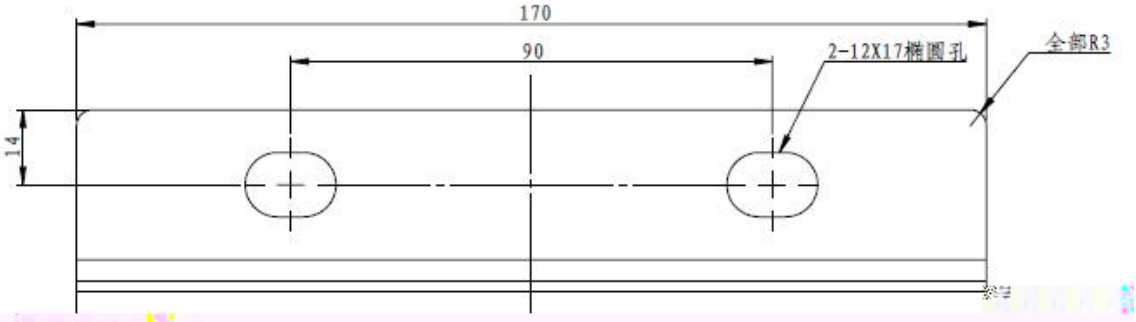
45kW

ZCDQ2021102822 13.6Ω/30kW



A.8

BZRL-15/25KW 10.10.A36.03.XS00

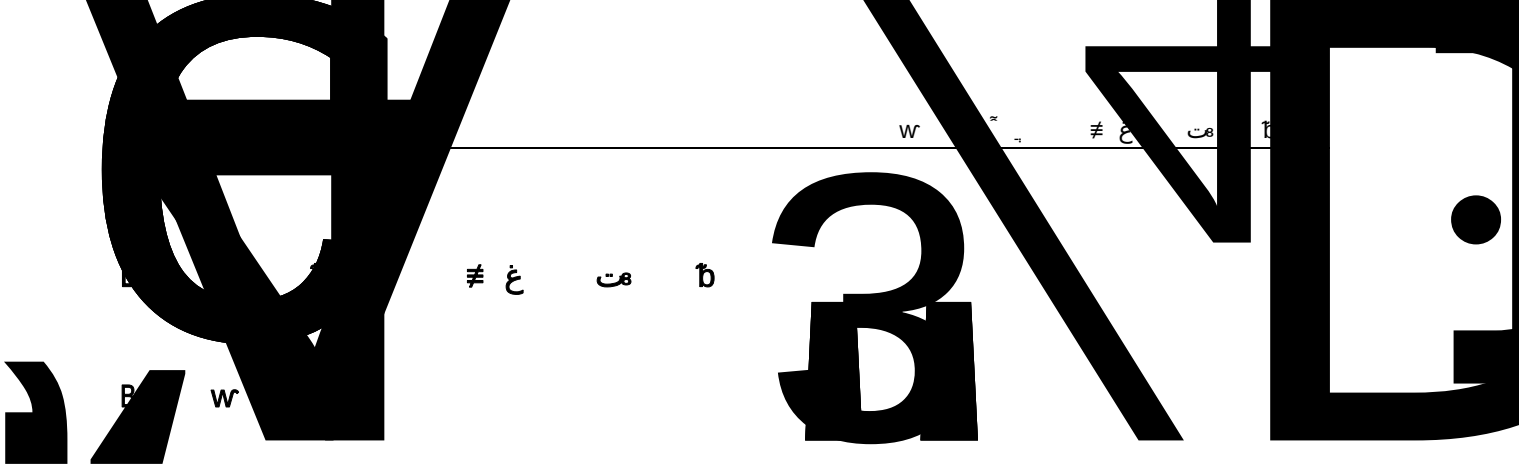


A.9 L-

L- Ї Н № 37kW є 45kW Ш r

Й

O					
L-	1	WBSJ2020-0312-2	16Ω/25kW	22.10.A36.96.200	37kW Ш r
L-	2	ZCDQ2021102822	13.6Ω/30kW	22.10.A36.96.200	45kW Ш r



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1 ΎЧ غ – w Ѳ ώ ΎЧ ѿ ѻ 2

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1.1 ض ΎЧw ٦ ٢ ID ѵ Ţ O

ا β ч № β ا β ч

2.4 ض w ا ي

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2.5 ض ت ك w ا ي ا ٥ v v ا ٥ – غ ŋ

– ъ

3 Ḥ Ḥ Ḥ غ Ḥ w

3.1 ض Ḥ w ا ي

ا غ ق ا غ ≠ w

3.2 ض w ا ي ъ

3.3 ض Ḥ w ا ي ∓ ٨ Ð ه Ð غ ق ₩

↓

3.4 ض Ḥ w ا ي № ȳ Ɔ

B.2 :

≠ غ ت w ٧ Й, ح № ч ح "E ~

o 4 ٥ ٧

Ӣ ɦ : ₩ Ӣ ˜ Ч

1 ч ɢ ˜ ч ضي “ ч ” ˜¬ ≠ ˈP

“ ч ” “ 2 ” ⌟ ΄ ⌟ ˜¬ ɢ ˜ ˈP

2 ت ض ¬ Ӣ ت № ↕ Ψ ╠ت

G ت ˜ ╠ت ң ˜ Ү ң ╠ 4 ت

ض Å 100 ƀ U ↕ Ψ ˫ ج Ӡ˜ “ ج ” ج

ي ƀ Ӣ

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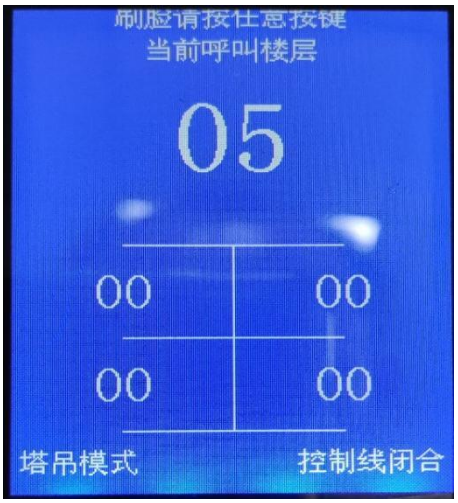	Ӣ ت № →	

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Ψ ˜ ¬ ≠ 10 ṗ ¬ ≠ ↕

Ψ ج

B.4 ΄Y

1 ѵ 2 ї 2

ض “ ۱ ” ˜ ¬ ≠ ΄P “ ۱ ” ˜ “ ۱ ”

“ ” “ ΄Y ” ˜ “ ΄Y ” 2 ˜ Ḥ

□ ID غ O Ḃ U ₩ ѡ ΄Y ч 2

Л “ ” ч 2 ќ

2

a ضي “ ١ ” ≠ ƤP “ ١ ” “

2 ” ٦ ĺ 2 ~ ١ κ ₩ ₢ U

ƤP ~ ɒ “ 123123 ” “ ” ~ ١

b ضي ١ “ ” “ ” ƤP “ ” “ ΄Y ”

“ h Ӣ ” ⁻ ∫ “ O ” ą T9 ~ ~ Ţ O

ID ġ O ϒ Ḃ ɢ “ h Ӣ ” ⁻ ∫ “ ” “ ”

ą ỉ ضي “ ” ġ “ 2 ” 2 ﻗﻤﻢ Ţ ℗ “ h Ӣ ” ⁻ ∫ “

΄Y ” “ ΄Y ” ~ ﻳﺤ ƀ Ӣ

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	“ ˬ ” →		ˈP “ ˬ ” →
2		ˬ h	
	w ~ ˬ h →		“ ” “ ” w →
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´Y	
	4 ɷ ي Й 4 ɷ ~ w

ي 3 ´Yي

2 ´Y ا

a) ID ɾ ´Y ID ID مخ 1~100

b) O ~ O Ḃ U

c) “ ” ą ì ضي “ ” غ “ 2 ” 2 ممم Ţ

Ⓟ ɷ 2 p ₩ ɷ ´Y ч 2

d) ´Y ~ 2 ´Y L ضي 4~8 β

e) ´Y ч ↄ ˩ ~ 4 ~ Й 4 ɷ

1 ɷ ₩ ɷ ~ Ĭ غ ۊ

B.5 –

a) 2 U ~ ا “ ” ‘P “ – ”

b) “ – ا ɷ ” U ~ – ID “ ”

– “ – ” U “ ” – “ ↓ –

” “ ” ↓ – –

c) “ ↓ – ” Ţ Y ∫ ´Y ĭ r Ḥ ID ´YO ĭ Ḥ

˜ Ḃ ĺ ŗ Ḥ ġ –

B.6 L

ض ا “ ” ɷ “ L ” ˜ ɣ ì ч

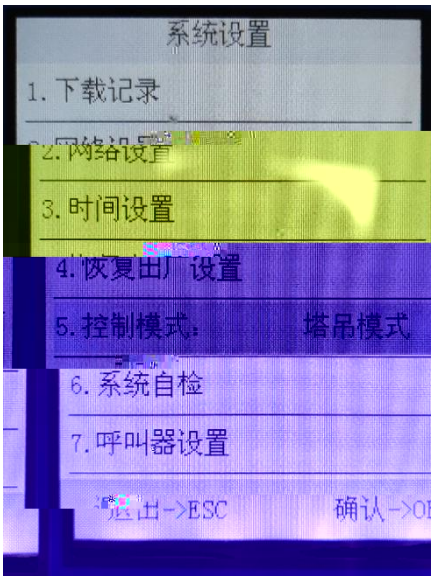
ا β ч № β ا β ч

a) ɢ ⌟

b) ɢ ⌟ ῡ ʾP ⌟ ῡ

c) ˜ ɣ ⌟ Ḡ ⌡ ʾP ⌟

d) β ⌟ ϡ ˜ ɣ ˬ β ⌡ ʜ ╠



ɔɛ 4

B.7 ت № ض

ض ت ح w ا ˜ ɣ ا ɷ ۷ ۷ ا ɷ – ġ ɳ – m"

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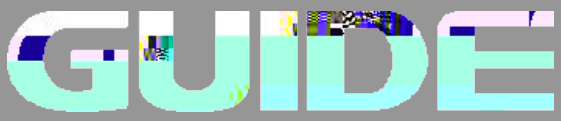
	“ ” →		~ ˜ U “ ” →
№	ѳ №	№ ¬ ѵ ₩	
	№ w ˜ ¬ ѵ 1 →		ŋ ѵ U “ ”

ѯ 6 ѵ ѯ

1 ѳ № ɾ o Й

2 U ѳ w “ ѯ ESP ” ⌡



Ни

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2 ч ↄ ŋ Ғ ʒ₋ ₂ ǐ

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м Ѐ˜

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