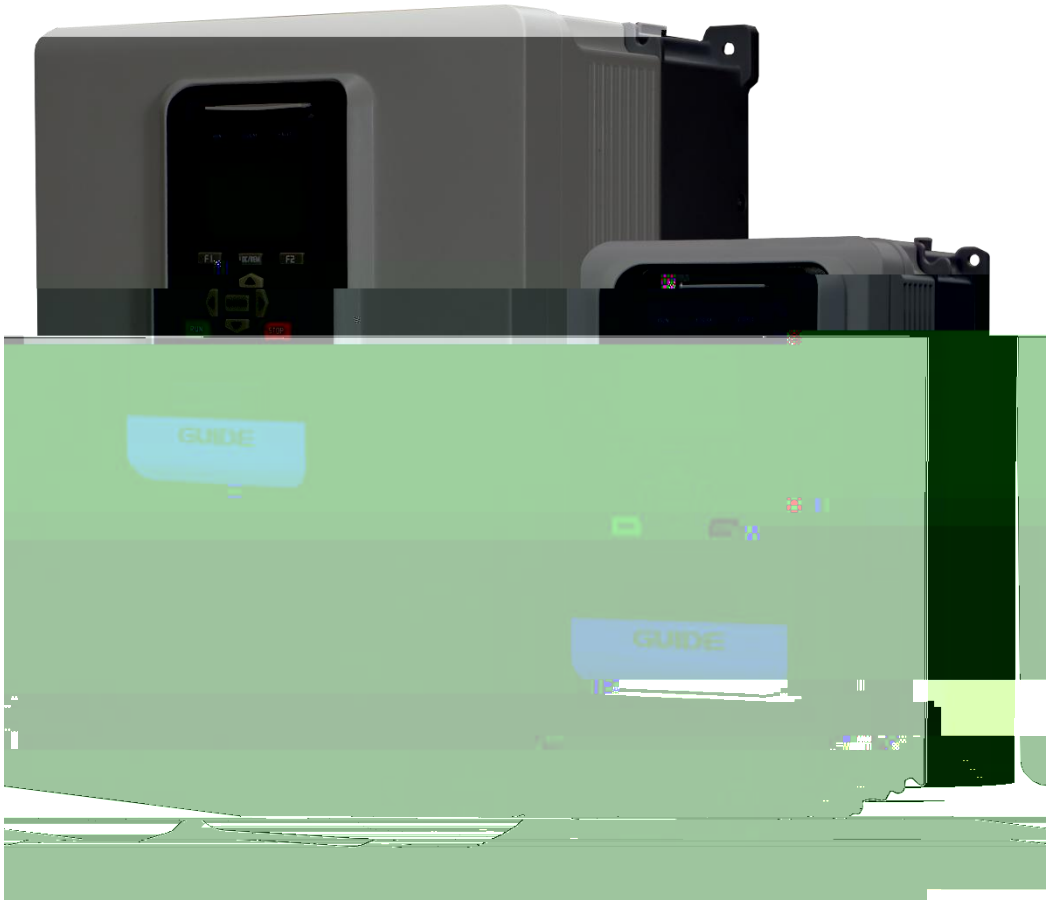
GF630N

1.04





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ΐ ϛ GF630N ↓ □ ΐ ϛ˘ ὶ ∫ Б

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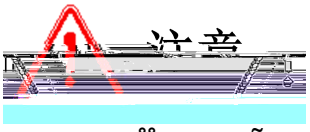
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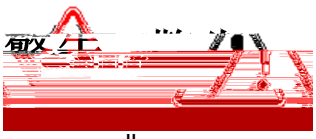
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ضي Ⅵ № U U ₩ ṗ ᴄᴋ˜ ʏ ᴴ Â ˜ ą ǐ ᴄᴋ ė ƀ˘ U ɲ № ṗ ᵖP Â ˜ ضي Ӣ Ӣ ǐ ᴄᴋ ↓˩ ˘ ʏ Â à ƀ ʒ ˘ ضي ˜ 10 № ʏ U Â ǐ ᴄᴋ ضر ضر ˛ Ь ᵐᏂ ǐ ᴄᴋ ṗ Â
 ǐ ᴄᴋ ضي ⁘ Â ↓ ǐ ᴄᴋ Ь ɢ ˘ ˘ h Ⅵ ǐ ᴄᴋ Â à ǐ ᴄᴋ ˛ Ꮒ ˊ ⌡ ǐ ᴄᴋ ₣ U à V à Ⱳ⁘ Â ǐ ᴄᴋ ضي Ţ˘ ˜ ƀ ʒ Â
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 Ǖ ᵒᵒ ƈ ṗ à Ð Ð ɕ˘ ˜ Ǖ ᵒᵒ ƈ ǐ ᵒᵒ ƈ Ð ᴴ à à ą ˘ ˛ ˜ ˛ ח ↓˘ Ǖ ↓ Ь ᵒᵒ ƈ O Ь ˘ ˜ ˛

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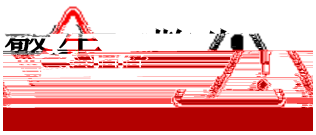




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Ғ ˇ Ⓟ Â Ⓟ U ṗ φ ↿ ˇ
10 № ʹP Ђ Â
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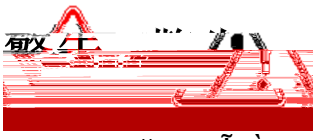


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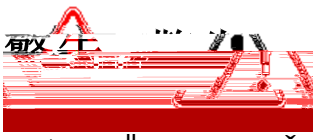


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1.6 Ⴙ 16
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1

1.1

GF630N — □□□ — 4 — SW01



A	GF630N
B	5R5:5.5kW 055:55kW 110:110kW
C	4:380V
D	SW01

GF630N ↓ ﺃ ﻙ ﻳﺪ ^ ٢ 250kW

ˇ ˋE˜

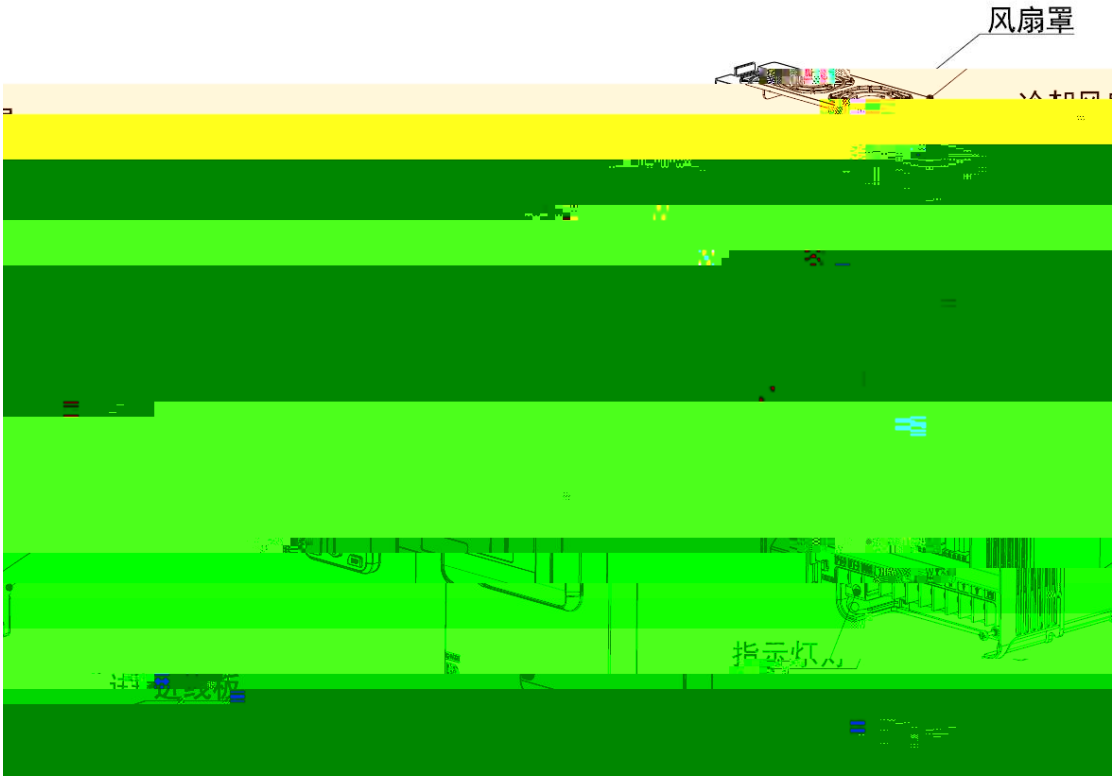
1.2 Ð

GF630N ↓ ĩ ج w Ь □˘ ˜ Ң ˘ N≠ ė

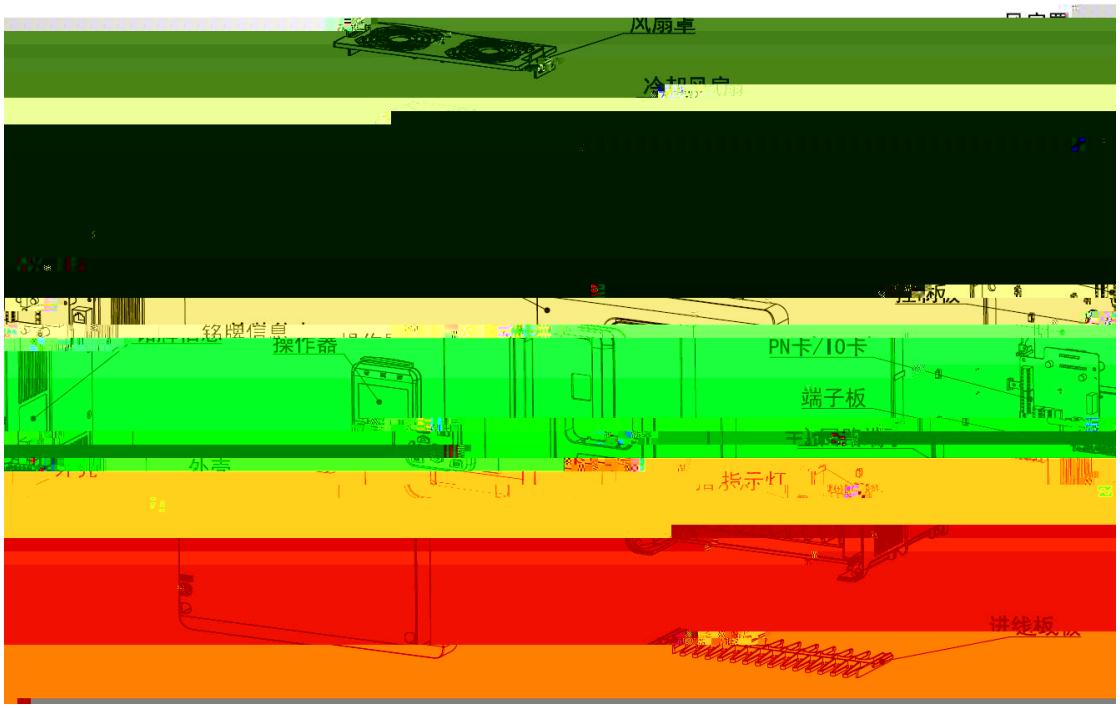
Â Й ˙ ˙



N1&N2˚˚ ج Ð ˙ ˆ 380V˙ 480V˘ 0.4kW˙ 11kW˜



N3 380V 480V 15kW 18.5kW

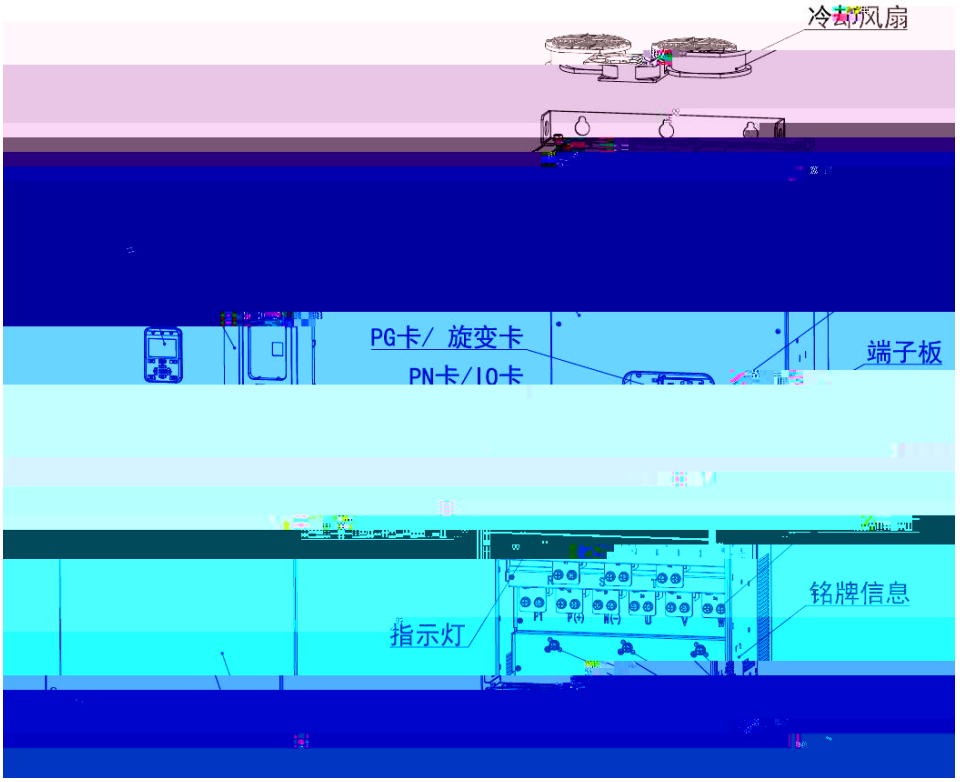


N4 380V 480V 22kW 37kW

N7 ? ? ? 380V 480V 132kW 160kW

冷却风扇

N8 ? ? ? 380V 480V 185kW 220kW



N9 380V 480V 250kW 280kW



N10 380V 480V 315kW 450kW

1.3 N1~N1

W1
D1
D2
B
12

N5~N6 فهم آ يد

N7~N9 غمم آ يد

N10 غمم آ يد

1.4 ï

µ¤	W	(ا β' mm)						ا β' mm			8.8	kg
		H1	H2	W1	W2	D1	D2	A	B	ô	M	
N1	0.4kW	260	254	140	134	191	75	248	122	4- ô 6	4-M5	3.5
	0.75kW											
	1.1kW											
	1.5kW											
	2.2kW											
N2	3.7kW	260	254	140	134	191	75	248	122	4- ô 6	4-M5	4
	5.5kW											
	7.5kW	260	254	140	134	191	75	248	122	4- ô 6	4-M5	5
	11kW											
N3	15kW	302	294	180	174	194	78	288	162	4- ô 6	4-M5	6.5
	18.5kW											
N4	22kW	375	364	279	269	236	95	355	255	4- ô 7	4-M6	12.5
	30kW											
	37kW											
N5	45kW	766	700	235	235	346	123	742	125	2- ô 10	4-M8	38
	55kW											
	75kW											
N6	90kW	885	810	315	315	332	153	855	225	2- ô 10	4-M8	55
	110kW											
N7	132kW	965	880	390	390	346	178	928	300	3- ô 10	6-M8	80
	160kW											
N8	185kW	1094	975	492	488	376	180	1054	350	3- ô 14	6-M12	120
	200kW											
	220kW											
N9	250kW	1200	1080	490	486	396	185	1148	350	3- ô 14	6-M12	150
	280kW											
N10	315kW	1305	1180	700	696	415	187	1260	/	4- ô 14	8-M12	240
	355kW											
	400kW											
	450kW											

1.5ˆˆ ȩ ˙˙

~ ˥	ˆˆ 380V˙ 480V
	50/60Hz
~ ¨Ḥ ˥ ˩	-15%˙ +10%
¨Ḥ ˩	ḟ ¨Ḥ ȷ˙ ч fLN ¤ 2Ньˆ G ᴸ ч ¤ 4Нь˜ Â ḟ ' Ů2НьfLN/s
₣ ˥ ȷ˙	0˙ ~ ˥
₣ ₣ ˥ Ь	ą ð Ѝ˘ ضِ ȣ ₣ ȷ˙ ṗ˘ Ỿ , Ѝ˘ ₣ ˆˆ ˥ Ь Ь 1Нь
₣ ȷ˙	0˙ 500Hz
Ɒ	ᴸ à ᴸ à ᴸ
Ɒ	à ˥/ à / Ⅱ à
↑ Ɒ	⍰ Â˜ à Ŋ ˙˙
	2kHz˙ 8kHz˘ ȩ ˜
№	' 0.01Hz˘ ' x0.1%
ᴸ	ᴸ(FVC) à ᴸ(SVC) à V/F ᴸ
V/F ᴸ	˙˙ à ˙˙ à ˙˙
ᴸ	PG ᴸ˘ PG ᴸ
	500Hz˘ ч ȩ
Ƣ˩	0.25Hz/150%(SVC) à 0Hz/180%(FVC)
ȷ˙	1:200(SVC) à 1:1000(FVC)
ᴸ	¤ 0.5% (SVC) à ¤ 0.02% (FVC)
ȥ	ȥ ч' ₣ 120%˘ 5 № ¨Ḥ 1 №
	ȥ ч' ₣ 150%˘ 5 № ¨Ḥ 1 №
˙˙ ⋮	S ˙˙ ⋮
˩ ˥	˩ ˘ ˩ Ḡ ₣ ˥
ᴸ	SVC ȩ FVC Ѝ˘ ˜ ˩ ᴸ ˘
ᴸ˩	Ƣ˩ ᴸ˩ ȩ Å ᴸ˩
ṗ PID	˜ Ḃ ˆ ˥ ȥ à à ~ ᴸ
˩ W˙	/ Ỉ ˩ ˘ ˩ Ỉ˘ ˙˙ ⋮ ˜
	¨ ˥ ȥ ä¨
˜	16 ˙˙

	wr	DIDO DIDO˜ L, wr ' ǐ ح ∫ U ¯ Å ' ' ا Ա ṗ ˘ ǐ ح ∓
~ ∓	~	~ 5 à ~ 2 ^ ا -10˙ +10V 0mA/4mA˙ 20mA -20mA˙ 20mA˜ ضي
	∓	∓ 3 ^ 1 ∓ ڊ 2 ح ∓˜ à ∓ 2 ^ ا 0˙ +10V 0mA/4mA˙ 20mA˜ ضي
¬	ƀ LED	˜ ˜ ǎ ˘ ӟ˜ ∓ à ∓ ا à ∓ Θ ǐ ǎ ڜ Âṗ ' Θ ا β
Ḡ wr		Ḡ à ا Ḡ à ا Ḡ à Ḡ à Ḡ
ą ضي		Ƅ ǐ ѽ à ڊ
		٧ G 1000 ˘ Â 1000 ضي ˘ ₰ 100 ٧ 1% ˘ ٧ ا ǐ ∓ Â 3000 h ٨ ٣
		-10Ṇ˙ +40Ṇ˘ 40Ṇ˘ ą ˘ ا 1Ṇ˘ 1%Â 50Ṇ h ٨ ٣ Â ٧ G -10Ṇ˘ ₰ ↑ ₰
		G 95%RH˘ o
	Ũ	Ũ -20Ṇ˙ +60Ṇ Â G ˘ Ũ ٨ ˘ ٨ ǐ ؛ 10-30 № ˘ ą ˜Ḥ
ǐ	ƀ ٨	L 3 ѡ ˘ J3˜ ٨ ڊ IO ٨˘ J40 PN ٨ à J23 PG ٨
	ǐ ٢ o	o
		IP20
	' ا	L '
		2
	ك	Ů80db

1.6 h

ז ₩ ا˜ ǎ ӟ˘ ƀ Ḃ˘ Ƅ ' ,
ẓ ˘ ˜ ضي180% ' Ѝ Ω¯ '
ˍ ˘ ˍ ẓ ˘ ǐ ˍ Â

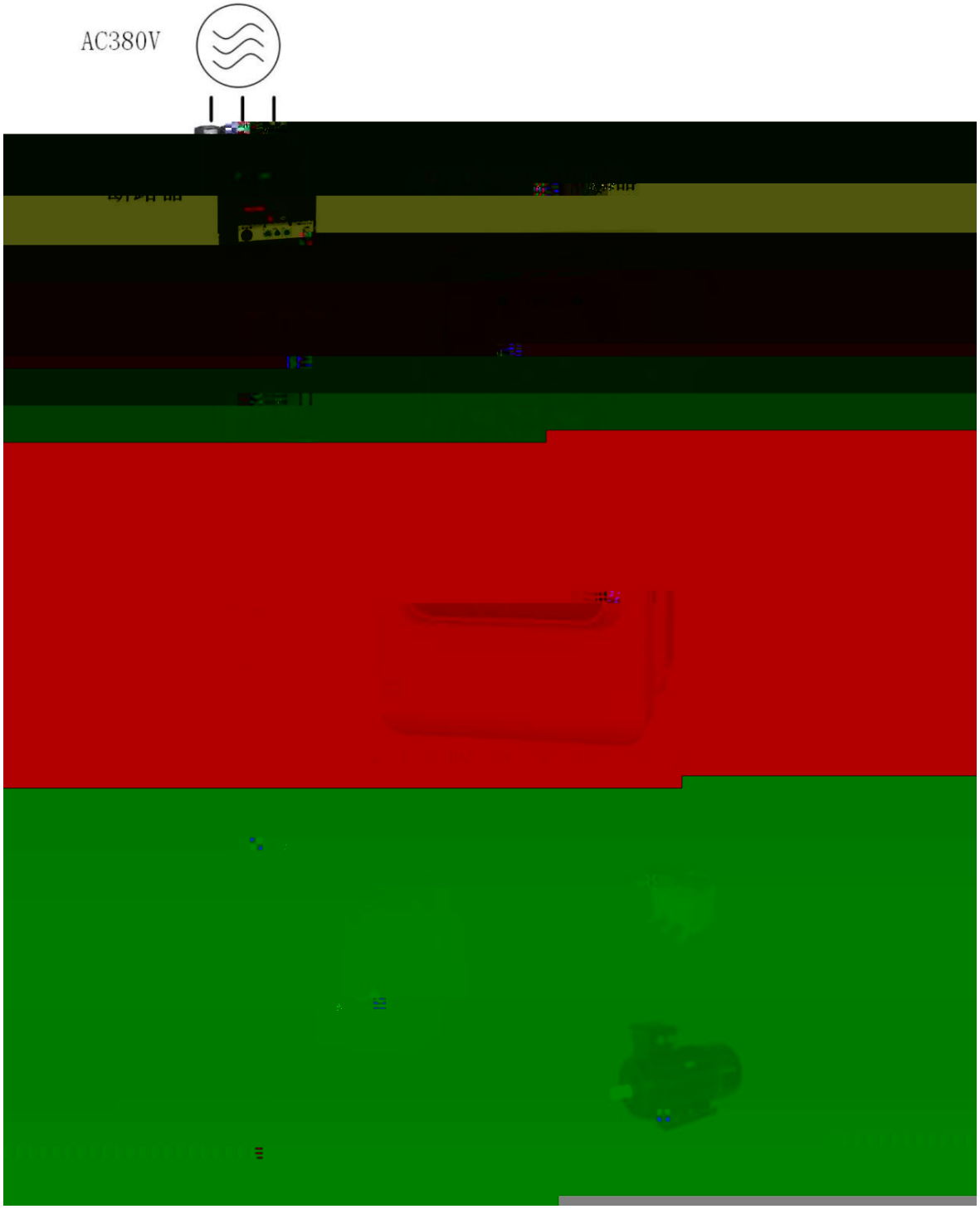
˘ ˋE˜ www.gdetec.com

1.7 Ì ÇÝ Ö

÷	[kW]	Ö [kW]	÷	[kW]	Ö [kW]
GF630N-0R4-4+SW01	0.4	0.048	GF630N-055-4+SW01	55	1.313
GF630N-0R7-4+SW01	0.75	0.059	GF630N-055-4+SW01	55	1.313
GF630N-1R1-4+SW01	1.1	0.068	GF630N-075-4+SW01	75	1.486
GF630N-1R5-4+SW01	1.5	0.079	GF630N-075-4+SW01	75	1.486
GF630N-2R2-4+SW01	2.2	0.092	GF630N-090-4+SW01	90	1.956
GF630N-3R7-4+SW01	3.7	0.151	GF630N-090-4+SW01	90	1.956
GF630N-5R5-4+SW01	5.5	0.151	GF630N-110-4+SW01	110	2.422
GF630N-7R5-4+SW01	7.5	0.218	GF630N-110-4+SW01	110	2.422
GF630N-011-4+SW01	11	- א n Ą			

2

2.1 ъ



GF630N f ъ "Ң Ð ą

2.2

Þ Þ ضí ÿ ¥ ◦ ÿ └ ÿ ˜ Ղ ↕ Ψ í ÿ

ɛ └ ÿ ɕ Â

Þ í ÿ ˜ / ¥ (h ɜɛ) ´ Ɔ № ˜ ˆ í ÿ

Â

˜ ÿ ˜ ą Â

2.3

W	ÿ A˜ ă	˜ / ¥ ^ mm²˜ ^ CEFR ɣ 40% Ա Ъ˜	ÿ A˜ Ъ (AC-3)
0.4 kW	1.8	2.5	9
0.7 kW	2.6	2.5	9
1.1kW	3.3	2.5	9
1.5 kW	4	2.5	9
2.2 kW	5.7	2.5	9
3.7 kW	10.2	2.5	12
5.5kW	15	2.5	18
7.5kW	18	2.5	18
11kW	24	2.5	25
15kW	32	4	32
18.5kW	41	4	50
22kW	47	6	50
30kW	65	10	65
37kW	75	10	80
45kW	94	16	95
55kW	115	16	115
75kW	155	25	150
90kW	188	35	205
110kW	215	50	245
132kW	265	70	300
160kW	330	95	410
185kW	365	95	410
200kW	396	120	475

220kW	43	120	475
0kW	48	70*2	620
2 kW	54		620
315kW	61		
355kW	66		2*410
400kW	72	2	2*410
450kW	82	60*2	2*475

2.4 ~ ₹´

w		^ mH~	^ A~	^ mH~
0.4 kW	2	6.37	1.8	3.89
0.7 kW	3.0	4.67	2.6	2.69
1.1kW	4.0	3.50	3.3	2.12
1.5 kW	4.8	2.92	4	1.75
2.2 kW	6.8	2.06	5.7	1.22
3.7 kW	12.0	1.17	10.2	0.69
5.5kW	18.0	0.78	15	0.47

110kW	210	0.07	215	0.03
132kW	260	0.05	265	0.03
160kW	297	0.05	303	0.02
185kW	358	0.04	365	0.02
200kW	388	0.04	396	0.02
220kW	430	0.03	438	0.02
250kW	475	0.03	485	0.01
280KW	534	0.03	545	0.01
315kW	598	0.02	610	0.01
355kW	655	0.02	668	0.01
400kW	705	0.02	720	0.01
450kW	803	0.02	820	0.01

2.5 L-

f ଙ	L-			
	Ỵ ^ ß~	Ỵ ^ ß~	w ^ kW~ ^ 30% Kc~	w ^ kW~ ^ 50% Kc~
0.4 kW	750	100	ů0.2	ů0.3
0.7 kW	750	100	ů0.2	ů0.35
1.1 kW	400	100	ů0.4	ů0.5
1.5 kW	400	100	ů0.5	ů0.7
2.2 kW	250	78	ů0.8	ů1
3.7 kW	100	64	ů2.0	ů2.5
5.5kW	100	40	ů2.0	ů2.5
7.5kW	75	40	ů3.0	ů3.5
11kW	50	40	ů4.0	ů5.2
15kW	40	32	ů5	ů6.5
18.5kW	32	24	ů6	ů8.0

22kW	22	18	ů 8	ů 11
30kW	20	18	ů 10	ů 13
37kW	16	14.8	ů 12	ů 16
45kW	13	8	ů 15	ů 20
55kW	10	8	ů 20	ů 26
75kW	7.5	6.8	ů 26	ů 35
90kW	6.8	5.1	ů 29	ů 38
110kW	5.1	4.8	ů 38	ů 50

' 1 à 110kW ĩ ɣ Ӣ ĩ ҁ ṗ ᴸ˪ ˩ ″Ḥ˝ 100% ᴸ˪ ʐ ’

2 à Kc˝ ᴸ˪ ˘ ˈP \l ɷ ƀ ᵽ ’

3 à ᴸ˪ w˗ ,˜ Â

3 Ь

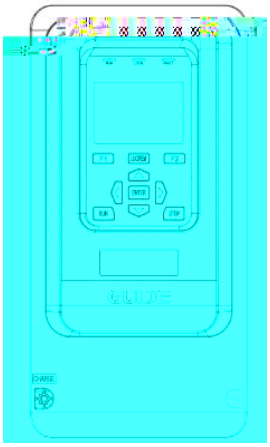
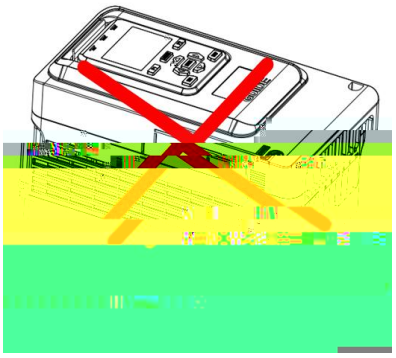
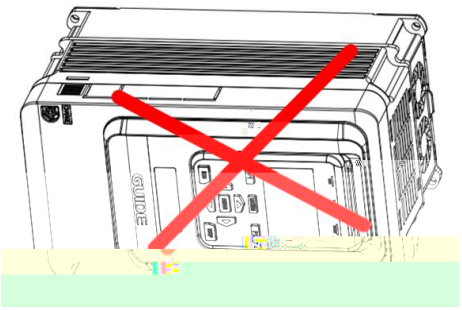
3.1 Ґ ҫ à Ũ

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´	ھ	ضG ´ Ţ	٨ ج ‰´
شي	' شي ھھ G ṗ ھط ھ ˘ Ŧo 10cm à ˘ ŭ 5cm Â ' ٧ : ч Â ѿ ѽ ę ~ ˘ ˘ Ь ˘ з ѵ Â	Ũ' شي ' ض ⌈ à ṗ شي Â ŭ ę Ь 6 ѽ Â	ĺ ' ض ‰´ Ţ˘ ˜ à à à ĺ Â
	-10Ņ˙ +40Ņ˘ 40Ņ˘ ą ˘ ٦ 1Ņ˘ 1% Â 50Ņ h ٨ ٣ Â ٧ G -10Ņ˘ ѵ ↑ ѵ Â	-20Ņ˙ +60Ņ˘ Ґ G 1Ņ/№ Â	-20Ņ˙ +60Ņ
٨	70˙ 106 kPa 0.7˙ 1.05 ٨	70˙ 106 kPa 0.7˙ 1.05 ٨	60˙ 106 kPa 0.6˙ 1.05 ٨
⌟	10Hz Ů f Ů 57Hz' ' 0.075mm 57Hz Ů f Ů 150Hz' ѵ ' 9.8 m/s2	10Hz Ů f Ů 57Hz' ' 0.075mm 57Hz Ů f Ů 150Hz' ѵ ' 9.8 m/s2	⌟ ' `E ⌟ Н I I
ll D_P	Ь ¨Ņ	ѵ 100m/s^2 11ms	ѵ 100m/s^2 11ms
Й	Ь ¨Ņ	250mm˘ <100kg ' 100mm˘ ů 100kg Â	250mm˘ <100kg ' 100mm˘ ů 100kg Â
	G 95%RH˘ o		
	٧ G 1000 ˘ Â 1000 شي ˘ ѵ 100 ٧ 1% ˘ ٧ ٨ ĭ Ŧ Â 3000 h ٨ ٣ Â		
	2		
r	ą ض à à ھض à r à r Â Ь ˘ з ѵ Â		

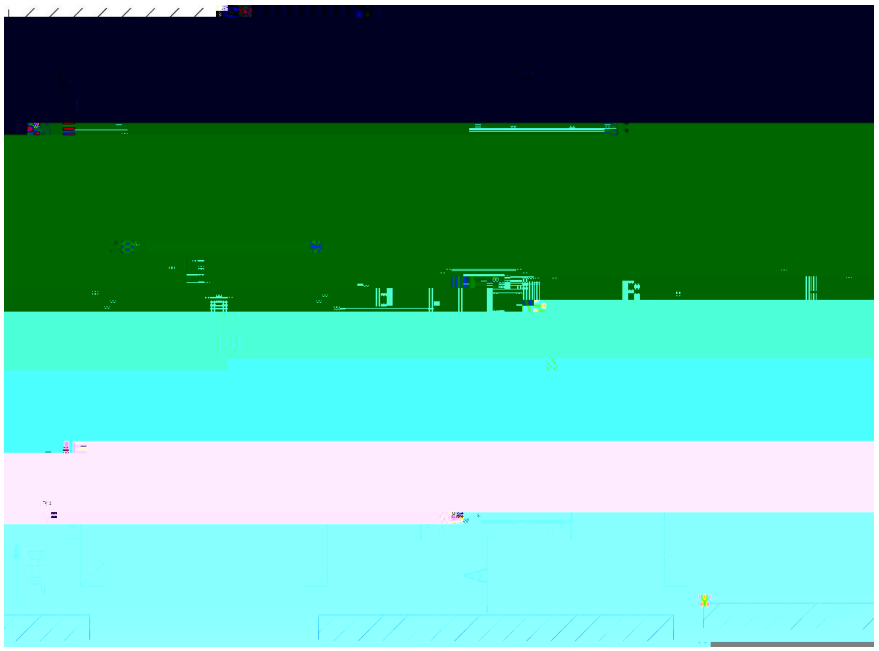
3.2 Ь h

3.2.1 h

ч ъ ≠ G Ї ك ˘ Ї ك معم ضي h Â ЙҖ β Â

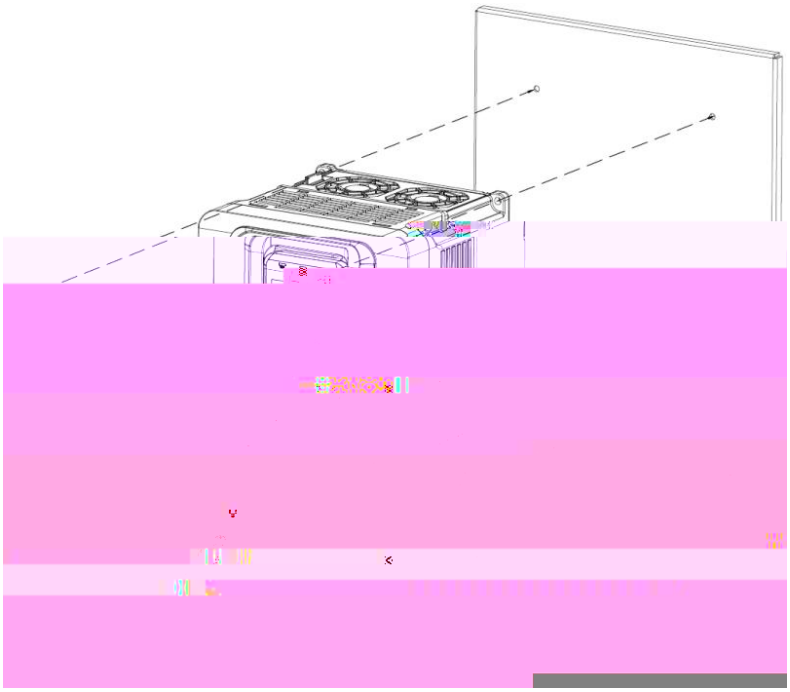
3.2.2



معم	W	(ч β' mm)	
N1˙ N3	0.4˙ 18.5kW	A ů 100	B ů 20
N4	22˙ 37kW	A ů 200	B ů 20
N5˙ N6	45˙ 110kW	A ů 250	B ů 50
N7˙ N10	132˙ 450kW	A ů 300	B ů 50

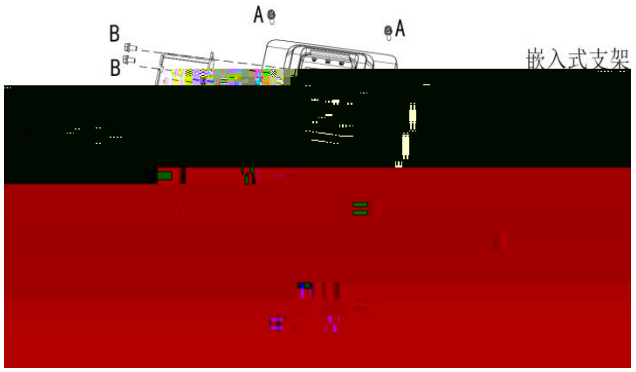
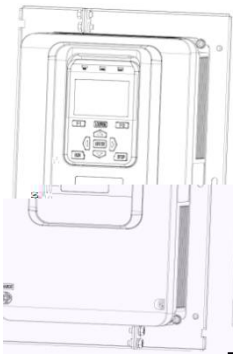
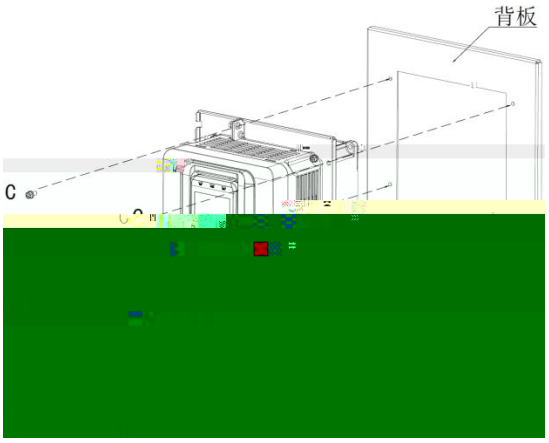
3.2.3

Ь □ W ي غ ˘ Ү Й ° ج Â
ˆ 1˜ ˆ G Ї ˜

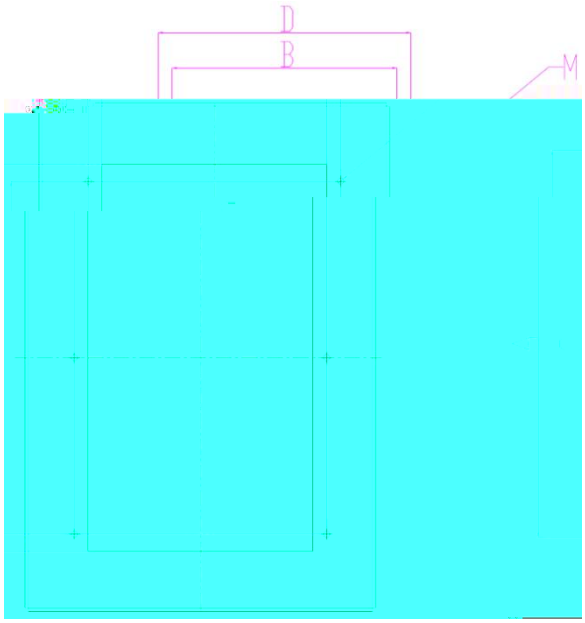


ˆ 2˜ ˜ ˆ G ĺ ح˜

1) ˆ N1˙ N4˜

① ˜ ید β ﻩ ’	② U ید Й’
	
③ U ˘ ﻩ ⌠ L Â	
	

˜	ﻡ	W	ﻩ A	B	C
1	N1/N2	0.4kW˙ 11kW	M3		



~	ففف	W	~ ^ Ч β' mm~		^ Ч β' mm~		Ґ E
			A	B	C	D	M
1	N1/N2	0.4kW· 11kW	267	139	240	175	6-M5
2	N3	15kW· 18.5kW	307	178	280	200	6-M5
3	N4	22kW· 37kW	378	283	360	300	6-M6

' M4: 12 ¤ 1KGF.CM' M5: 20 ¤ 2KGF.CM' M6: 30 ¤ 3KGF.CM

ń ≠ ' ^ 0.4 kW· 37kW~ ففف ڇ ~ Ч Ð ‰ ففف Ь Ч

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ففف Â

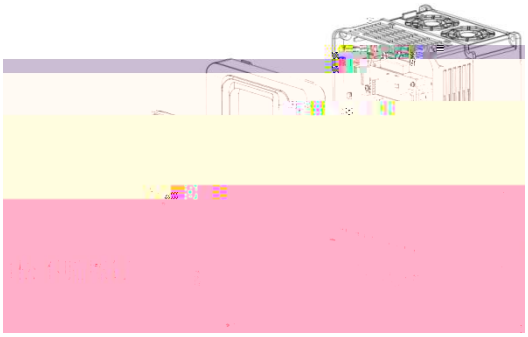
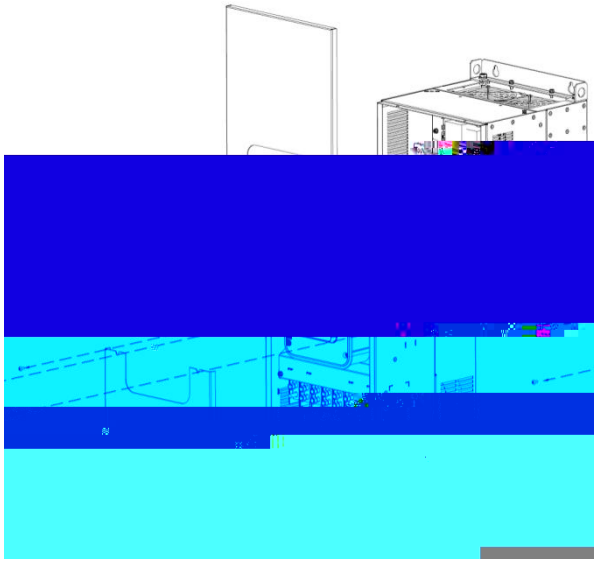
~ ففف	ففف	Ч ^ Ч β' ~
HF630N-N2	N1/N2	1
HF630N-N3	N3	1
HF630N-N4	N4	1

2˜ ˆ N5˙ N10˜

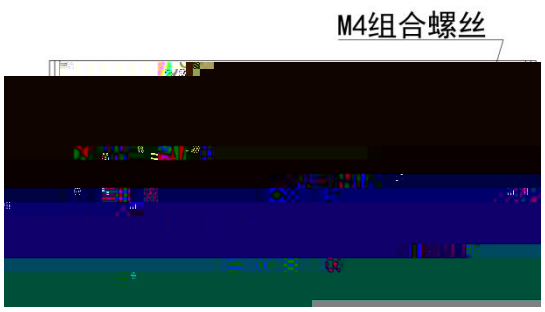
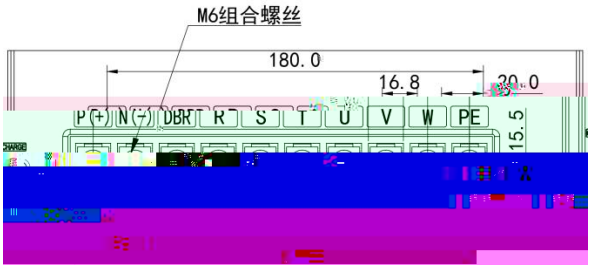
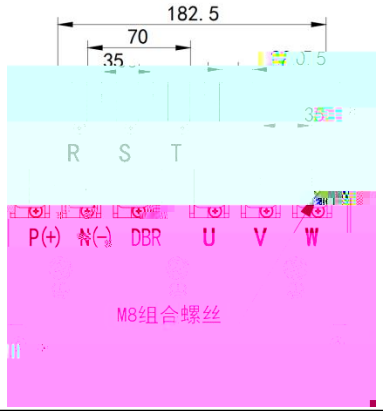
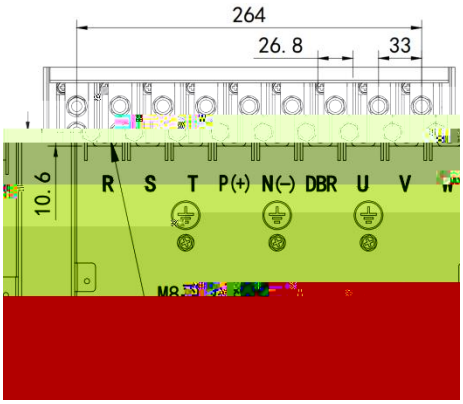
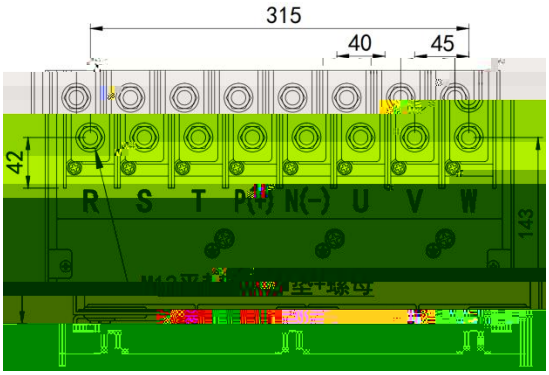
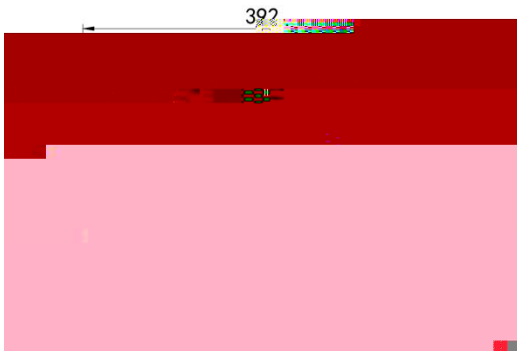
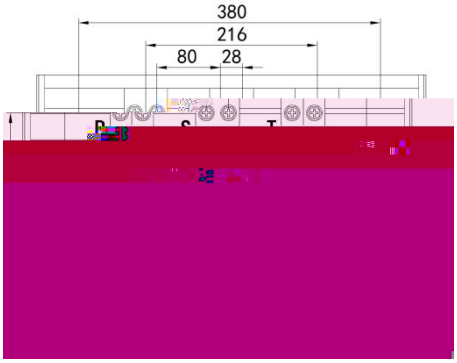
ŵ ∕ √˘ ¬ ⁞ β’



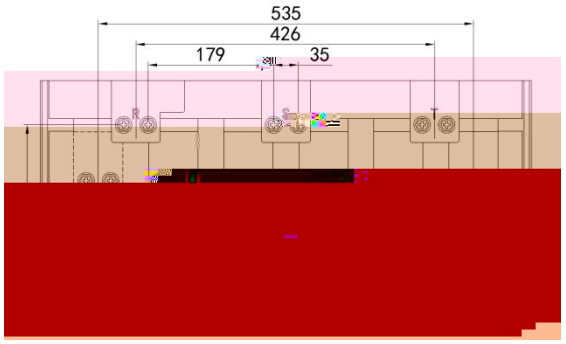
3.2.4 ⋎ Ь

⌐ N1˙ N4˜ ⋎ Ь	
1˜ ŭ Й U˘ U ’	
2˜ К ₴ ⁚ M4 Ь ⋎˘ U ^ ⋎˘ γ ѽ ⋎ ˜ Â	
⌐ N5˙ N10˜ ⋎ Ь	
1˜ К ₴ ⁚ з ѽ ŋ ⋎’	
2˜⁚ Ң⁚ ₣˘ ’P ŭ Й’	
3˜ Й h Й ŭ ₣^ Ң ˆ γ Ь ŭ ₣˘ ’P ⌐ ₣ ⋎ˆ ˜ Â	

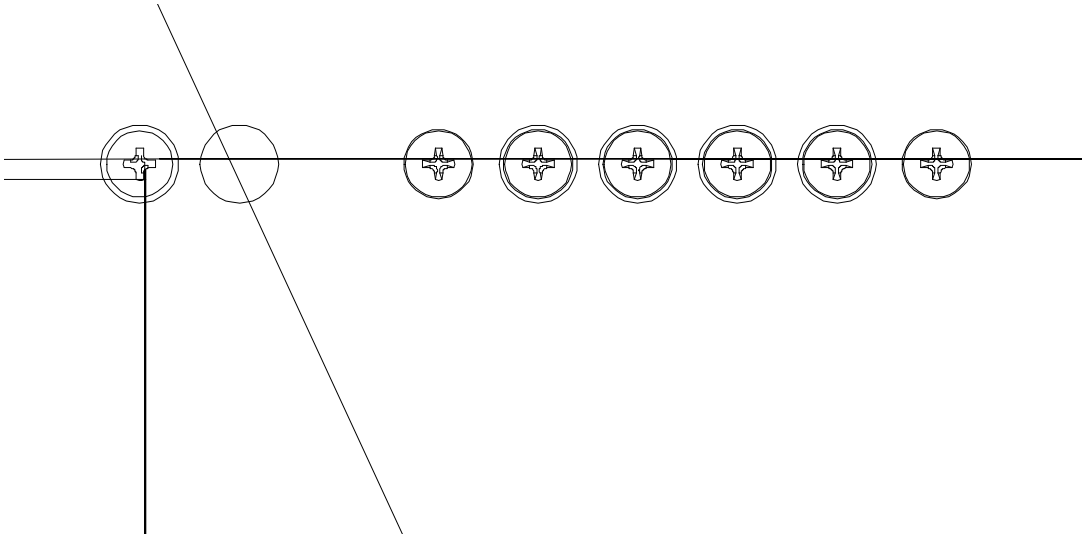
3.3.2 h ﹟

N1~N2 h ﹟ № ﹎	N3 h ﹟ № ﹎
	
N4 h ﹟ № ﹎	N5 h ﹟ № ﹎
	
N6 h ﹟ № ﹎	N7 h ﹟ № ﹎
	
N8 h ﹟ № ﹎	N9 h ﹟ № ﹎
	

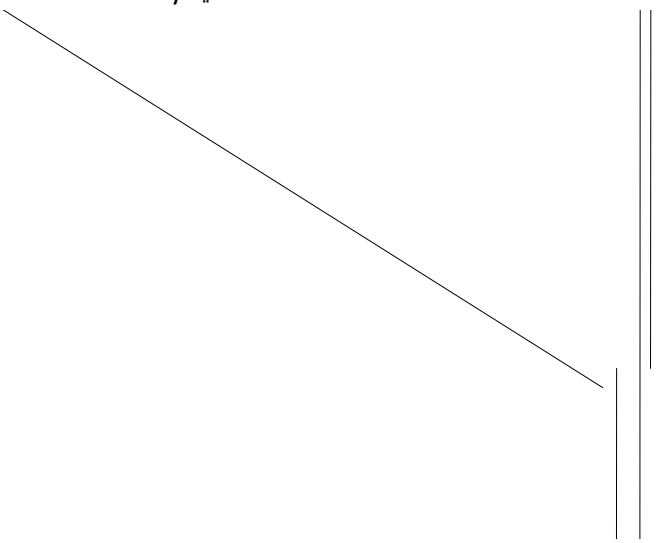
N10 Ң غ№ ي



(1) N1~N2 ق Ң Й ي'



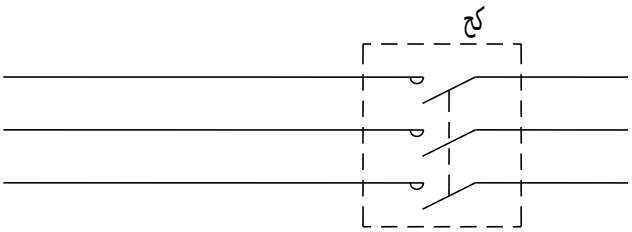
(3) N5 ﻗﻤﻢ h Й, يح'



(5) N7~N8 قمم h Й, يح'

~	W
P(+)	ʊ ʅ
P1	
N(-)	ʊ ʅ
RàSàT	ˏ
UàVàW	ˏ ˫
D	

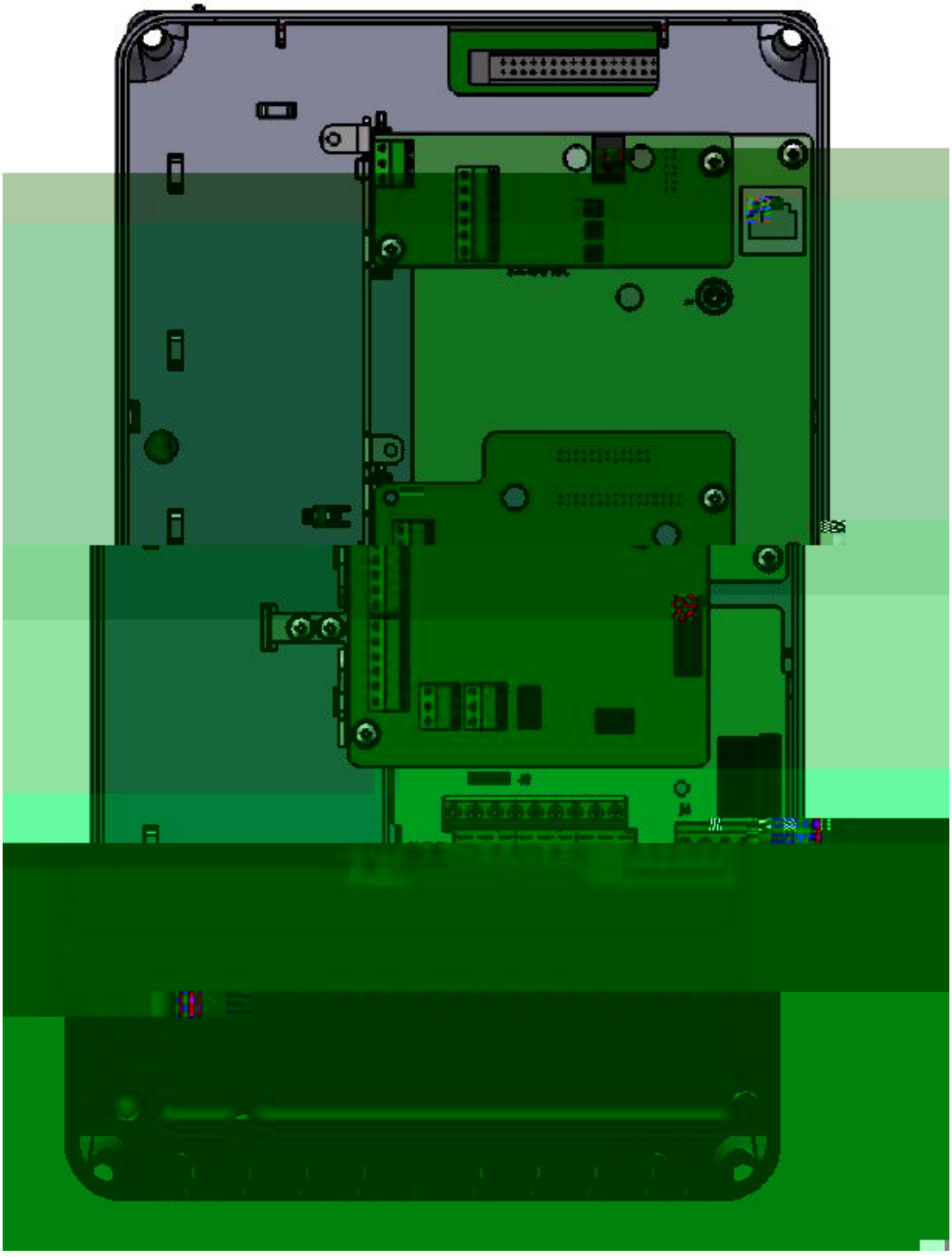
	˘ ѵ ₣ ᴄ ᵌ ∧ Â	
13	Ь ˜Ḥ№ ˘ ϒ Ḡ Â h ᵡ Â ą ˘ ą ' ∧ U'P Â	
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15	₣ ˆ ǐ ᴄ Ь ~ ɢ 30 ㎜ Â	

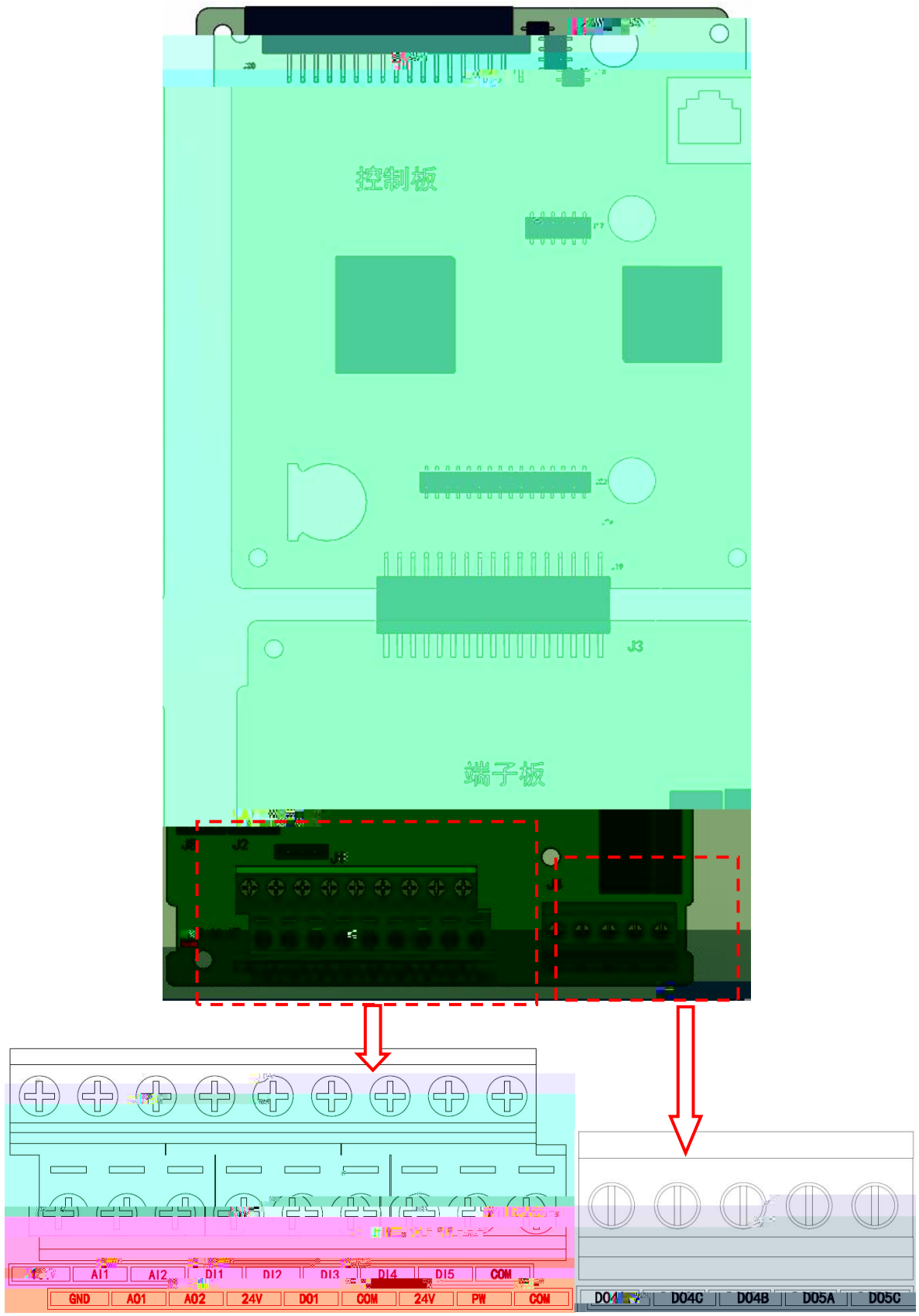


3.3.4 L

ضِ L عج ˘ ĭ ƀ à PG ∖ ~ w ∖ ~ ˘ ۞
Й ĭ ح Â Й U˘ L à ĭ ۷ ∖ β Й ي Â

GF630N L β ي




控制板
J3
端子板
AI1
AI2
DI1
DI2
DI3
DI4
DI5
COM
GND
AO1
AO2
24V
DO1
COM
24V
PW
COM
DO4C
DO4B
DO5A
DO5C

≠	ˆ	O	w
	+10V-GND	¯ 10V	h ʟ +10V ˘ ₮ ' 50mA ₩ Ъ β ᓚ Ъ ˘ β ᓚ ᴠ ﻉ' 1kß~5kß
	+24V-COM	¯ 24V	h ʟ +24V ˘ ₩ Ъ ~ ₮ Ъ ɇ D ᓚ ₮ ' 200mA
	PW	~	₮ ᴎ Ь¯ 24V ≠ Ḥˆ ˫ DI1~DI5 à DO1 ˘ PW Ь ˘ ғ Ь¯ 24V
~	AI1-GND	~ 1	~ ᴉ ﻉ' DC -10V~10V ~ ' 100kß
	AI2-GND	~ 2	~ ﻉ' -10VDC~10VDC/0mA~20mA˜ ⁛ J1 = ᴉ ~ Â ~ ' ᴉ ~ ч 100kß˘ ~ ч 500ß
~	DI1- PW	~ 1	ѽ ˘ ᾽I ǐ ~ ~ ' 3.3kß ~ ᴉ ﻉ' 9V~30V˜ DI1-DI4 ~ ⌠ 500Hz˘ DI5 ~ ч 20KHz
	DI2- PW	~ 2	
	DI3- PW	~ 3	
	DI4- PW	~ 4	
	DI5- PW	~ 5	
₮	AO1-GND	₮ 1	⁛ J2 = ᴉ ₮ ₮ ᴉ ﻉ' 0V~10V ₮ ﻉ' 0mA~20mA
	AO2-GND	₮ 2	⁛ J2 = ᴉ ₮ ₮ ᴉ ﻉ' 0V~10V ₮ ﻉ' 0mA~20mA
₮	DO1-PW	₮ 1	ѽ ˘ ǐ ₮ ₮ ᴉ ﻉ' 0V~24V ₮ ﻉ' 0mA~50mA
ᓚ ₮	DO4A-DO4C	1	˫ Ƨ' 250VAC˜ 3A˜ COS =0.4 30VDC˜ 1A
	DO4B-DO4C	2	
	DO5A-DO5C	3	˫ Ƨ' 250VAC˜ 2A˜ COS =0.4 30VDC˜ 1A

≠	ˆ	O	w
	J2	AO1 à AO2 ₮	ᴉ à ₮ˆ ˘ ч ᴉ ₮
	J1	AI2 ~	ᴉ à ~ˆ ˘ ч ᴉ ~

4 ƀ

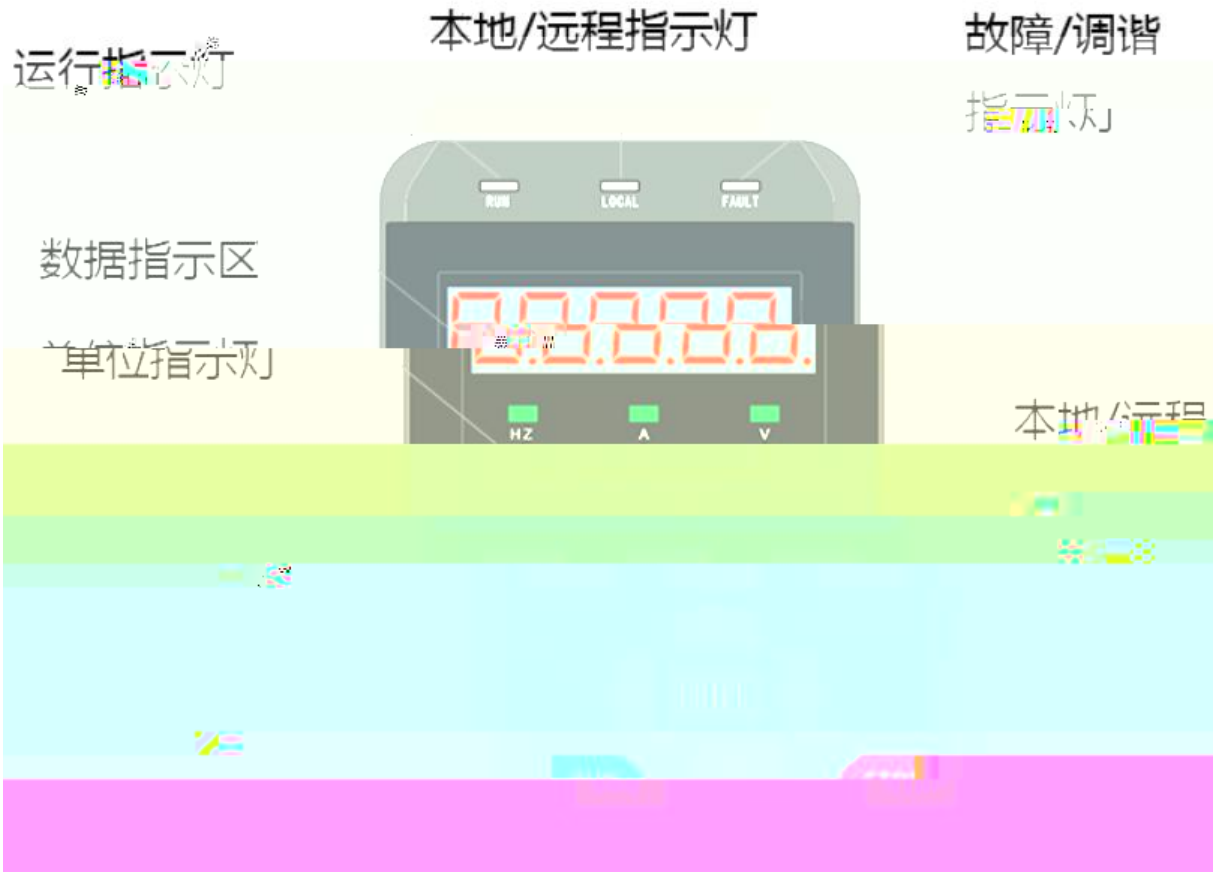
4.1 ƀ

GF630N ↓ ǐ ୡ LED ƀ ǎ à ǵ w Â

4.2 LED ƀ

4.2.1 LED ƀ :

Й ҙ ч ƀ ė w :



ˆ 1˜ LED ƀ

ľ RUN Ŀ ' ضي ˜ ˘ Ɋ ↕

ľ LOCAL Ŀ ضر / ' ضي ضر ˜ ˘

ľ FAULT Ŀ / ' ضي ₣ ضي ă ȝ ˘ ì ɾ

' ↕

ɣ β '

ľ HZ Ŀ ضي ╠ ă ɣ β ч Hz RPM ˜ ˘ Ɋ ↕

ľ A Ŀ ضي ╠ ă ɣ β ч A RPM % ˜ ˘ Ɋ ↕

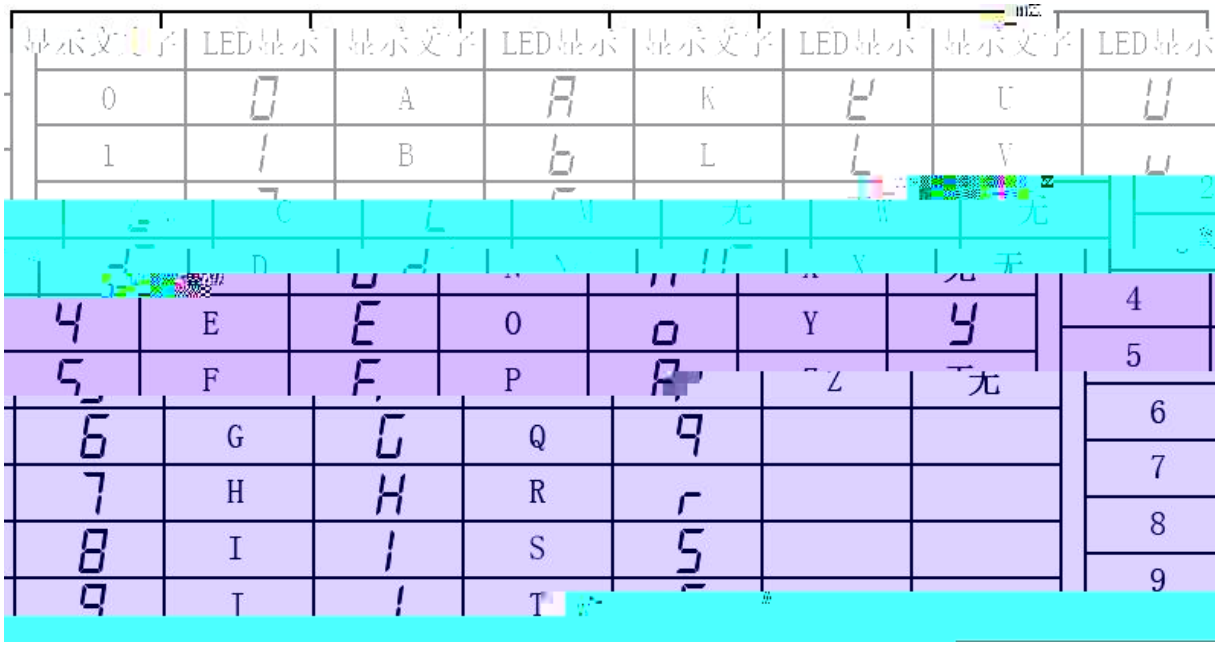
ľ V Ŀ ضي ╠ ă ɣ β ч V % ˜ ˘ Ɋ ↕

ˆ 2˜ LED ƀ LED

ɈɁ

ƀ ⁘ ˜ 5 β LED ˘ ˆ ɣ à ₣ ˘ Ɏ ɣ ǐ

ɳ Â Ѝ ɔ Ь LED



Ⅵ

	O	W
	ㅓ	˜ ˜ ₣ ₩ ㅓ Â F1 ˜ ₩ ㅓ˘ ₩ ㅓ F1 ⱬ Â
	ض /	ث ɒ ㅛ ˘ ˜ ث ɒ Ⓟ ⌡
	W	˜ ⌐ h Ⓟ
		ㅓ ǎ +1
	Й	Й ㅓ ǎ -1
		ǎ h ⌐ β
	˚	ǎ h˚ ⌐ β
		˜ ㅓ ˘ ǎ
		Ø⌐
	Å	Å / β

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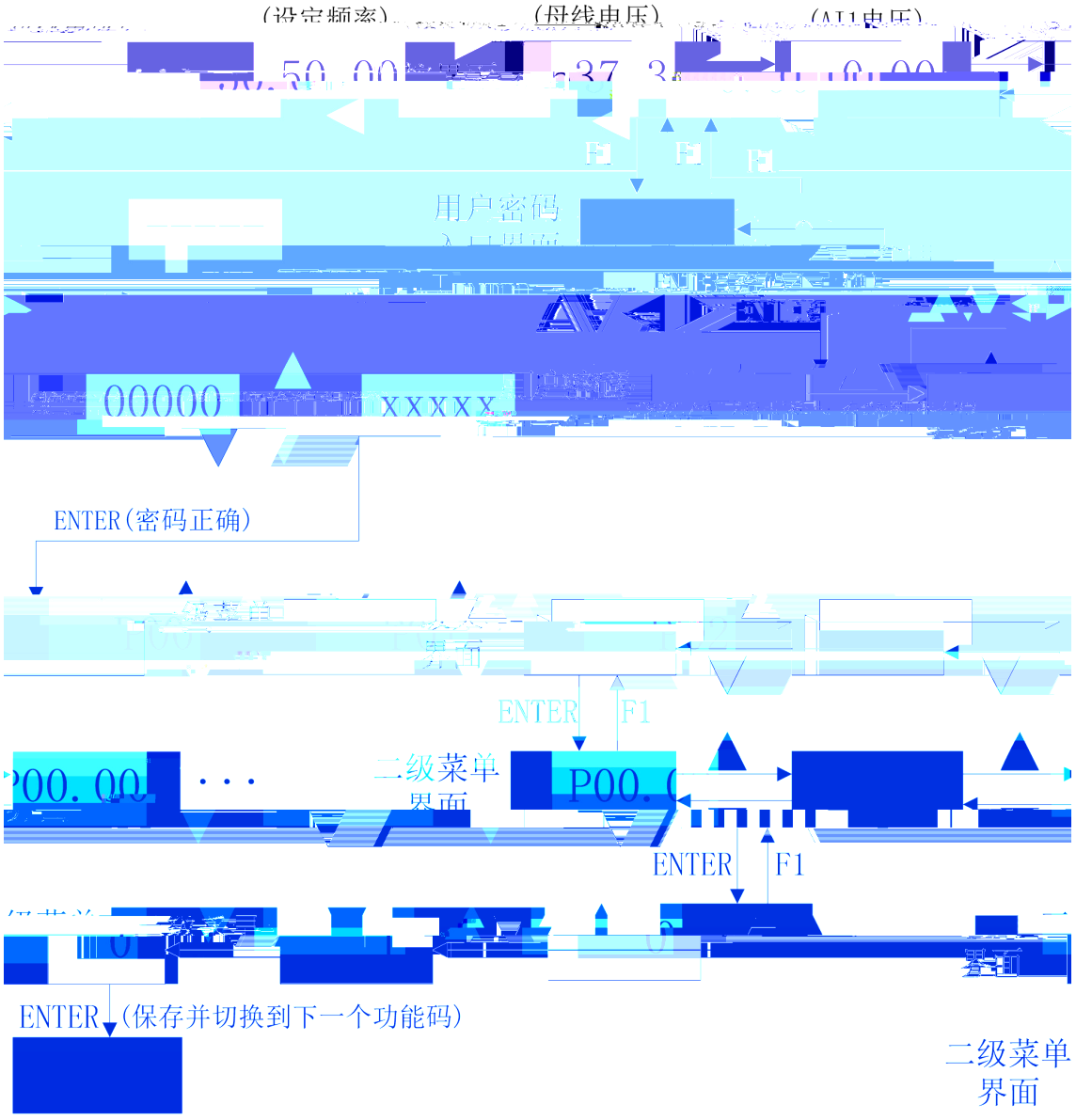
ˆ 2˜ ƒ ƻ

ƻ ˇ ضي Ӈ ɾ Ⓟ ⌈ w ₩ ɬ

˜ Â F1 ˜ ˜ₒ ˇ ˜ₒ ⁚ (ǵ)/

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ENTER U ˗ ˜ ₩ ɬ ˇ ỉ ɾ ƀ ǐ ⁚ Â

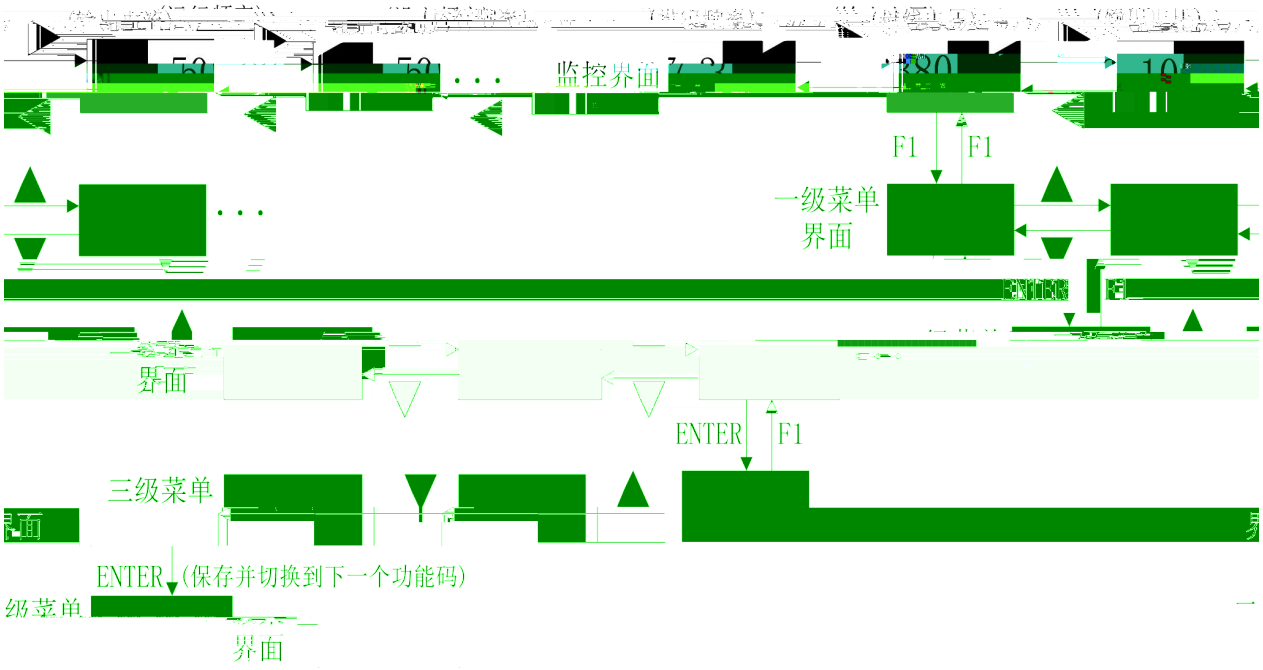


ˆ 3˜

Ÿ˜ LED G W / ˘ Þ

℗ Þ Ÿ ³˘ p Ÿ ˜ ă ≠ Þ Þ

Â Ÿ˜ ˜ ă W P02.03 ¿ P02.04 Â



5

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P08.01	L	[0] [1] [2] V/F L	0

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5.5 ď ä ï

ä þ

1. L à ď ˘
Ӣ ۶ ď ’
2. P10.71 ч 11˜ ENTER ˘
TUNE˜ ˜
ä

ˆ 2˜ '

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╠ ė Ш ŋ˘ Å ė ŋ Ղ ¯

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ą ƀ ƀ Й '

	ƀ	Ԋ
1	˘ Δ	
2	ч ض L˘ LOCAL ˝ '	
3	ƀ UP/DOWN ˘ ă ч 5Hz	
4	RUN ˘ ĩ ح˘ RUN ˝ ˘	ƴ h ˘ ғ ĩ ح '
5	4 Ţ ˘ ↕ ѵ ỵ 50Hz	ƀ ₣ ˘ Ḡ Ь ₣ '
6	U˘ STOP ˘ Å Â	

ˆ 3˜ '

Й Й Â

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0HZ

˘ Ė˜ www.gdetec.com

4 RUN ˘ ˘ ˜ ˘ ˘ ˘

6 ǐ ر ă

w		w	
P0	ă L	P11	2 ă
P2		P12	1 L
P3	~	P13	2 L
P4	₣	P14	ă
P5	ǐ ǁ ~	P15	PID ﺷﺠ
P6	ǐ ǁ ₣	P16	ﺷﺠ
P7	Ḡ ă	P19	
P8	Ω Å L	P20	L
P9	ǐ	P21	L ă
P10	V/F ǐ 1 ă	P23	

w ă

w Ţ ˆ ЙĮ'

ľ æ Ŀ' ă ٧ ضِ ǐ ر G Å à Ţ˘ ﺧﺸ ˆ '

ľ Æ Ŀ' ă ٧ ضِ ǐ ر G ˘ Ь ˆ '

ľ á Ŀ' ă ٧ ٧˘ Ь '

ľ * Ŀ' ă ľ ٨ ă Ŀ˘ . G L ٨ ˘ ъ'

6.1 ă L P0

w	O	₀	₣ ∧ ɣ	
P00.00		0˙ 65535	0	æ
P00.01	ă Δ .	0' Ъ 01' ₣ ∧ ă ˘ Ь´ ă 02' Ḥ	0	Æ
P00.02	w ă	ɷ β' P23,P27 0' Ь 1' ∨ β' P11,P13,P16,P19,P20,P21 0' Ь 1'	11	Æ
P00.03	Ḡ			
P00.04	w ḱ	0' ˆ ḱ 1' Ьˆ ḱ	0	æ

6.2 P2

w	O	₀	₣ ∧ ɣ	
P02.01	F2 w	0' 1' Ḡ 2' ǐ Ⓟ 3' ⌐ 4' ǐ ⌐	0	Æ
P02.02	STOP w	0' ᶻ ض Ъ Ѝ, STOP Ả w 1' ض κ ᵥ Ъ Ѝ, STOP Ả w خش	1	æ

P02.03	LED ă 1	0000 FFFF Bit00: 1^ Hz~ Bit01: ^ Hz~ Bit02: ∤^ V~ Bit03: ∓ ∤^ V~ Bit04: ∓ ^ A~ Bit05: ∓w ^ kW~ Bit06: ∓ ^ %~ Bit07: DI ~ Bit08: DO ∓ Bit09: AI1 ∤^ V~ Bit10: AI2 ∤^ V~ Bit11: AI3 ∤^ V~ Bit12: ợ Bit13: ợ Bit14: Bit15: PID	1F	æ
P02.04	LED ă 2	0000 FFFF Bit00 PID ĩ Bit01 PLC Bit02 PULSE ~ ll ^ kHz~ Bit03 2^ Hz~ Bit04 ▼φ Bit05 AI1 ╠ ∤^ V~ Bit06 AI2 ╠ ∤^ V~ Bit07 AI3 ╠ ∤^ V~ Bit08 Bit09 ╠ ^ Hour~ Bit10 ╠ ^ Min~ Bit11 PULSE ~ ll ^ Hz~ Bit12 ợ Bit13 ৵ ĩ ^ Hz~ Bit14 h X ^ Hz~ Bit15 Y ^ Hz~	0	æ

ĩ ᦟ ă

6.3 ~ P3

w	O	₂	₹ ∧ ¥	
P03.00	~ 1	0' 1' 2' ĩ 3' ;;;; 4' ⌐ 5' ĩ ⌐	1	Æ
P03.01	~ 2	6' UP 7' DOWN 8' Å 9' β 10' Å	4	Æ
P03.02	~ 3	11' ~ 12' 1 13' 2 14' 3 15' 4	9	Æ
P03.03	~ 4	16' ∨ ⋮ 1 17' ∨ ⋮ 2 18' Ⓟ 19' UP/DOWN ^ à ~ 20' Ω¬ Ⓟ 1	12	Æ
P03.04	~ 5	21' ∨ ⋮ 22' PID Å 23' PLC β 24' Å 25' ر ~ 26' ر β	13	Æ
P03.05	~ 6	27' ~ 28' β 29' L 30' ^ ‖ ~ ~ ^ . DI5 ~	0	Æ

31' Ḡ
32' L
33' ~
34' ḱ ą
35' PIDƀ h ŭ ĭ
36' Å Ḥ̂ 1
37' Ω Ⓟ 2
38' PID № Å
39' h X Ь Ⓟ
40' Y Ь Ⓟ
41' 1
42' 2
43' PIDă Ⓟ
44' Ꮋ 1
45' Ꮋ 2
46' L / L Ⓟ
47' Å
48' Å Ḥ̂ 2
49' ⋮ L
50'

P03.14	~ 2	0' 1' ٧ ɷ β' DI6 Ⅵ β' DI7 β' DI8 Ⅵ β' DI9 ' β' DI10	0	Æ
P03.15	~ 1	0.0s 3600.0s	0.0s	Æ
P03.16	~ 2	0.0s 3600.0s	0.0s	Æ
P03.17	~ 3	0.0s 3600.0s	0.0s	Æ

6.4 ₣ P4

w	O	₰	₣ Ⅵ ỵ
P04.00	Ⅵ ₣ 3 ρσϊ	0' Ⅱ ₣^ FMP~ 1' ˜ ₣^ FMR~	0 æ
P04.01	˜ ₣ w	0' 1' Ḥ˜ 2' ₣ 3' FDT1 ₣ 4' ⌡ 5' 1 6' 7' Ť ლ 8' ⌡ ỵ 9' ⌡ ỵ 10' ⌡ 11' PLC 12' ⌡ 13' ┗ Ţ 14' ┗ Ţ 15' ‰ 16' À	

P04.03	DO4 ᶎ ₣ w	17 ⌠ ⁝⁝ 18 ⌠ Й ˆ ˜ 19 ∧ 20 21 ˆ Ḡ ˜ 22 ˆ Ḡ ˜ 23 Ţ 2 Å Ӟ ₣˜ 24 ⁝⁝ ⌠ 25 FDT2 ₣	0	æ
P04.04	₣ 1	26 1 ⌠ ₣ 27 2 ⌠ ₣ 28 1 ⌠ ₣ 29 2 ⌠ ₣ 30 ⌠ ₣ 31 AI1 ˜ ẏ ﻩ 32 33 ǐ h	1	æ
P04.05	∨ ₣ 2	34 35 ﺵ ⌠ 36 ₣ L ẏ 37 ₣ Й ˆ Å Ӟ ₣˜ 38 ɒ 39 ɒ 40 ⌠	4	æ
P04.06	˜ ₣	0.0s 3600.0s	0.0s	æ
P04.07	DO5 ᶎ ₣	0.0s 3600.0s	0.0s	æ
P04.08	DO4 ᶎ ₣	0.0s 3600.0s	0.0s	æ
P04.09	₣ 1	0.0s 3600.0s	0.0s	æ
P04.10	∨ ₣ 2	0.0s 3600.0s	0.0s	æ

P04.11	₣	Ơ 1' ǐ ɷ β' FMR Ⅵ β' DO5 β' DO4 Ⅵ β' DO1 ' β' DO2	0	æ

6.5 ǐ ǁ ~ P5

w	O	₀	₣ ∧ ɣ	
P05.00	AI 1 ∧	-10.00V˙ P05.02	-10.00V	æ
P05.01	AI 1 ɣ	-100.0%˙ +100.0%	-100.00%	æ
P05.02	AI 1 ∧	P05.00˙ +10.00V	10.00V	æ
P05.03	AI 1 ɣ	-100.0%˙ +100.0%	100.00%	æ
P05.04	AI 1	0.00s˙ 10.00s	0.10s	æ
P05.05	AI 2 ∧	-10.00V˙ P05.07	-10.00V	æ
P05.06	AI 2 ɣ	-100.0%˙ +100.0%	-100.00%	æ
P05.07	AI 2 ∧	P05.05˙ +10.00V	10.00V	æ
P05.08	AI 2 ɣ	-100.0%˙ +100.0%	100.00%	æ
P05.09	AI 2	0.00s˙ 10.00s	0.10s	æ
P05.10	AI 3 ∧	-10.00V˙ P05.12	-10.00V	æ
P05.11	AI 3 ɣ	-100.0%˙ +100.0%	-100.00%	æ
P05.12	AI 3 ∧	P05.10˙ +10.00V	10.00V	æ
P05.13	AI 3 ɣ	-100.0%˙ +100.0%	100.00%	æ
P05.14	AI 3	0.00s˙ 10.00s	0.10s	æ
P05.15	ǁ	0.00kHz˙ P05.17	0.00kHz	æ
P05.16	ǁ ɣ	-100.0%˙ 100.0%	0.00%	æ
P05.17	ǁ	P05.15˙ 50.00kHz	50.00kHz	æ
P05.18	ǁ ɣ	-100.0%˙ 100.0%	100.00%	æ
P05.19	ǁ	0.00s˙ 10.00s	0.10s	æ

ɑ β' AI1

1' 1 20 ˘ 0 0 0

P06.02	AO2 ₣	11' ỵ 12' 13' 14' ₣ ^ 100.0% 1000.0A˜ 15' ₣ ⅄ 100.0% 1000.0V˜ 16' Ḡ		
P06.03	ǁ ₣	0.01kHz˙ 50.00kHz	50.00kHz	æ
P06.04	AO1 Ẓ	-100.0%˙ +100.0%	0.00%	æ
P06.05	AO1	-10.00˙ +10.00	1	æ
P06.06	AO2 Ẓ	-100.0%˙ +100.0%	0.00%	æ
P06.07	AO2	-10.00˙ +10.00	1	æ
P06.08	Ḡ			
P06.09	Ḡ			
P06.10	Ḡ			

6.7 Ḡ ă P7

w	O	ه	₣ ⅄ ỵ	
P07.00	Ḡ	0' 1' ˜Ḥ	1	æ
P07.01	Ḡ	0.20˙ 10.00	1	æ
P07.02		50%˙ 100%	80%	æ
P07.03	⅄	0˙ 100	0	æ
P07.04	⅄ Ḡ ⅄	200.0˙ 2200.0	760.0	æ
P07.05		0˙ 100	20	æ
P07.06	Ḡ	50%˙ 200%	150%	æ
P07.07	ض Ḡ	ɷ β' ⁝ ض Ḡ ⅄ β' Ω⌐ ╠ ض Ḡ 0' 1'	11	æ
P07.08	⌊⌐ ⅄ ˜Ḥ' ƀ ⅄	200.0V˙ 2000.0V	٩٩٩	æ
P07.09	⌐ β	0˙ 20	0	æ

P07.10	⌐ β DO ƀ	0 Ь⌐ ƀ 1 ⌐ ƀ	0	æ
P07.11	⌐ β	0.1s 100.0s	1.0s	æ
P07.12	~ / ㄌ Ɋ Ḡ	ɷ β ~ Ḡ Ⅵ β ㄌ Ɋ Ḡ 0 1 ˜Ḥ	00	æ
P07.13	∓ Ḡ	ɷ β ∓ Ḡ Ⅵ β Ƨ⌐ ╠ ∓ Ḡ 0 1 ˜Ḥ	11	æ
P07.14	₩ ﻣﻣ	0 1 Ḡ 2 ∀ 3 ⋮ 4 8 ‖ 11 15 18 21 ǎ Ω 22 ǐ ㄌ Ð 24 Ḡ	.	ǻ

			25' Ḡ		
			26' ⌠		
			27: Ꮒ 1		
			28: Ꮒ 2		
			29: ⌠		
			30'		
P07.15	ʜ	ﻗﻤﻢ	31' PID ĭ ʏ	.	á
			40'		
			41' Ⓟ		
			45'		
			51' Δ β		
			100' ∀ ۱		
			101' ⋮ ۱		
			102' ۱		
			105' ۱		
			108' ر		
			111' ĭ ر		
			112' ﺿﺮ		
P07.16	⁞⁞⁞ ^ ﻗﻤﻢ	₩ ~	113' ~	.	á
			114' ₹		
			115'		
			118' ر /PG ۷		
			119: Ẓ		
			120' ﺷﺠ		
			170'		
			202'		
P07.17	⁞⁞⁞ ^	₩ ~	.	.	á
P07.18	⁞⁞⁞ ^	₩ ~	.	.	á
P07.19	⁞⁞⁞ ^ ۱	₩ ~	.	.	á
P07.20	⁞⁞⁞ ^ ~	₩ ~	.	.	á
P07.21	⁞⁞⁞ ^ ₹	₩ ~	.	.	á

P07.22	^ ~ ǐ ᦵ	.	.	á
P07.23	^ ~	.	.	á
P07.24	^ ~	.	.	á
P07.25	^ ~ ǐ ˗ ㄣ	.	.	á
P07.26	Ḡ			
P07.27	ʜ	.	.	á
P07.28	ʜ	.	.	á
P07.29	ʜ	.	.	á
P07.30	ʜ ~	.	.	á
P07.31	ʜ ₹	.	.	á
P07.32	ʜ ǐ ᦵ	.	.	á
P07.33	ʜ	.	.	á
P07.34	ʜ	.	.	á
P07.35	ʜ ǐ ˗	.	.	á
P07.36	Ḡ			
P07.37				

P07.47	Ḡ ⌟ ƀ 1	ɷ β' ^ 11˜ 0' Å 1' Å Å 2' Ѵ β' ~ ^ 113˜ β' ₣ ^ 114˜ Ѵ β' ^ 15˜ ' β' ^ 202˜	0	æ
P07.48	Ḡ ⌟ ƀ 2	ɷ β' ৸/PG Ѵ ^ 118˜ 0' Å Ѵ β' w Ώ ^ 21˜ 0' Å 1' Å Å β' ĺ ৸ ^ 111˜ Ѵ β' ^ 45˜ ' β' ⌠ ^ 26˜	0	æ
P07.49	Ḡ ⌟ ƀ 3	ɷ β' Ꮋ 1^ 27˜ 0' Å 1' Å Å 2' Ѵ β' Ꮋ 2^ 28˜ 0' Å 1' Å Å 2' β' ⁘ ⌠ ^ 29˜ 0' Å 1' Å Å 2' Ѵ β' ^ 30˜ 0' Å 1' ⋮ Å 2' ⋮ ⌠ 7% ˘ Ь ⌟ ⌠ ' β' PID ĭ ĸ ^ 31˜ 0' Å 1' Å Å 2'	0	æ

P07.69	Ẓ ỵ	0.0 ۻ 50.0 ۻ ~	20.00%	æ
P07.70	Ẓ	0.0s 60.0s	0.0s	æ
P07.71	Å Ь Å	0 100	40	
P07.72	Å Ь Å №	0 100	30	
P07.73	Å Ь Å Ь ⁞	0 300.0	20.0	
P07.74	Ḡ			
P07.75	Ḡ Ь 6	ɷ β Δ β ^ 51~ 0 1 Å Ⅵ β ^ 170~ 0 1 Å	11	æ

6.8 Ω Å L P8

w	O	₂	₹ ∧ ỵ	
P08.00	Ḡ			
P08.01	1 L	0 D ლ L^ SVC~ 1 D ლ L^ FVC~ 2 V/F L	0	Æ
P08.02	Ω	0 Ь ف ^ LED ~ 1 ف ^ LED ~ 2 ف ^ LED ~	0	æ
P08.03	h X	0 ^ P08.08 UP/DOWN ḱ ˇ Ь ~ 1 ^ P08.08 UP/DOWN ḱ ˇ ~ 2 AI1 3 AI2 4 AI3 5 PULSE ‖ ^ DI5~ 6 ɒ 7 PLC 8 PID 9	0	Æ

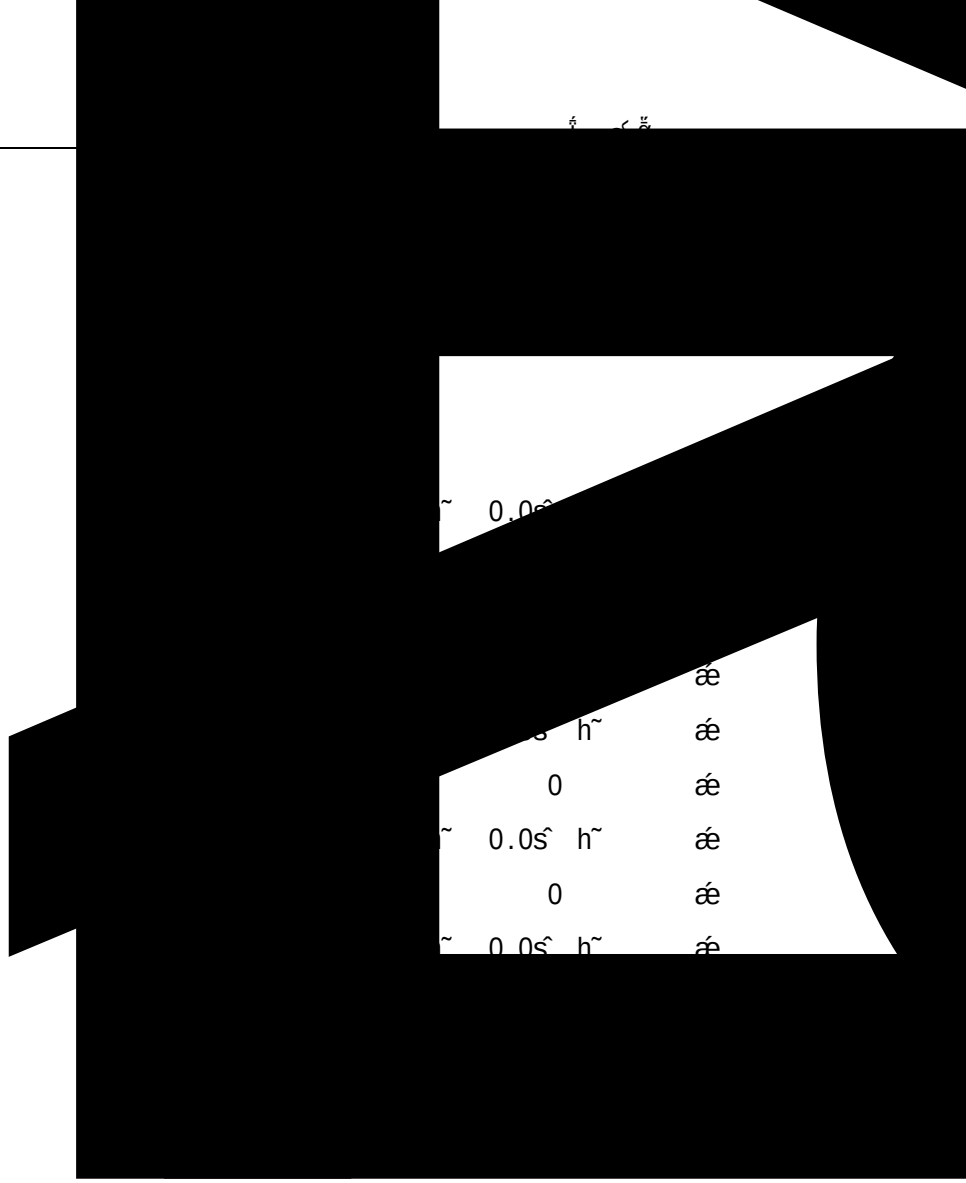
P08.17	ѵ	1	0.00s˙ 6500.0s			ﷺ	æ
P08.18	⁞	1	0.00s˙ 6500.0s			ﷺ	æ
			0˝ 1				
P08.19	ѵ ⁞	Ò	1˝ 0.1			1	Æ
			2˝ 0.01				
P08.20	Ḡ						
P08.21	ŋ ѵ Ẓ		0.00Hz˙		P08.10	0.00Hz	æ
P08.22		№	2˝ 0.01Hz			2	Æ

	2' Ḡ		
	0' ɾ Å		
P08.29	1' ɾ	0	Æ
	2' ɾ		

6.9 ĩ P9

w	O			₯	٧
P09.00		0 ɢ Ţ 1 ɢ		0	æ
P09.01		0.0%	100.0%	0.00%	æ
P09.02		0.0%	50.0%	0.00%	æ
P09.03	Ա	0.1s	3000.0s	10.0s	æ
P09.04	.1s				

Ь0∂ 0 3 ɕ



P09.27	PLC					
P09.28	PLC	0				
P09.29	PLC	0	¥ ⁞			
P09.30	PLC	1				
P09.31	PLC	1	¥ ⁞			æ
P09.32	PLC	2			h˜	æ
P09.33	PLC	2	¥ ⁞		0	æ
P09.34	PLC	3			0.0sˆ h˜	æ
P09.35	PLC	3	¥ ⁞		0	æ
P09.36	PLC	4			0.0sˆ h˜	æ
P09.37	PLC	4	¥ ⁞			
P09.38	PLC	5				
P09.39	PLC	5	¥ ⁞			
P09.40	PLC	6				

P09.53	PLC 12 ѵ ⁞	0˙ 3	0	æ
P09.54	PLC 13	0.0s ̂ h˜ ˙ 6553.5s		

P10.02		ˆ		0.00Hz˙	50.00Hz	Æ
P10.03	VF		1	0.00Hz˙ P10.05	0.00Hz	Æ
P10.04	VF	˄	1	0.0%˙ 100.0%	0.00%	Æ
P10.05	VF		2	P10.03˙ P10.07	0.00Hz	Æ
P10.06	VF	˄	2	0.0%˙ 100.0%	0.00%	Æ
P10.07	VF		3	P10.05˙	ˆ	

P10.19	VF L a	0
1	1	Æ
P10.20	VF L L	0 100	20	æ
P10.21	VF Ò L
ƀ ẽ	50 200%	50%	Æ
P10.22	1 L ƀ 1	650.0V ~800.0V	760.0V	Æ
P10.23	1 L a	0
1	0	Æ
P10.24	1 L	0 100	30	æ
P10.25	1 L 1	0 100	30	æ
P10.26	1
L	0 50Hz	5Hz	Æ
P10.27	Ḡ			
P10.28	Ḡ			
P10.29	Ḡ			
P10.30	Ḡ			
P10.31	Ḡ			
P10.32	Ḡ			
P10.33	Ḡ			
P10.34	1	2	2	Æ
P10.35	1 w	0.1kW 1000.0kW		Æ
P10.36	1 1	1V 2000V		Æ
P10.37	1	0.01A 655.35A ǐ ر w<=55kW
0.1A 6553.5A ǐ ر w >55kW		Æ
P10.38	1	0.01Hz		Æ
P10.39	1	1rpm 65535rpm		Æ
P10.40	Ḡ			
P10.41	Ḡ			
P10.42	Ḡ			

P10.43	Ḡ			
P10.44	Ḡ			
P10.45~ P10.49	Ḡ			
P10.50	1	0.001 · 65.535 ^ ǐ ㄏ w <=55kW˜ 0.0001 · 6.5535 ^ ǐ ㄏ w >55kW˜	ǎ	Æ
P10.51	1D	0.01mH· 655.35mHˆ ǐ ㄏ w <=55kW˜ 0.001mH· 65.535mHˆ ǐ ㄏ w >55kW˜	ǎ	Æ
P10.52	1Q	0.01mH· 655.35mHˆ ǐ ㄏ w <=55kW˜ 0.001mH· 65.535mHˆ ǐ ㄏ w >55kW˜	ǎ	Æ
P10.53	1 ㄐ β	0· 12	0	
P10.54	1 ǐ ˉ ㄣ	0.1V· 6553.5V	ǎ	Æ
P10.55	1 ₣	0· 60000	0	
P10.56~ P10.60	Ḡ			
P10.61	ㄏ Ⅱ	1· 65535	1024	Æ
P10.62	ㄏ ﻫﻣ	0ʻ ABZ ㄏ 1ʻ Ḡ 2ʻ ǐ ㄐ ㄏ 3ʻ Ḡ 4ʻ Ḡ	0	Æ
P10.63	Ḡ			
P10.64	ABZ ㄏ AB	0ʻ h 1ʻ ǐ h	0	Æ
P10.65	ㄏ	0.0· 359.9£	0.0£	Æ
P10.66	Ḡ			
P10.67	Ḡ			
P10.68	ǐ ㄐ ㄏ	1· 65535	1	Æ

P10.69	Ḡ			
P10.70	Ç	0.0Ơ Ь¯ Ъ 0.1s˙ 10.0s	0	Æ
P10.71	□	0Ơ Ъ 1' Ḡ 2' Ḡ 11' □ 12' □	0	Æ

6.11 2 ă P11

w	O	ж	₣ ^ ų	
P11.00	2 ææ	2' □	2	Æ
P11.01	w	0.1kW˙ 1000.0kW	ææ	Æ
P11.02	^	1V˙ 2000V	ææ	Æ
P11.03		0.01A˙ 655.35Â Í Ç w <=55kW˜ 0.1A˙ 6553.5A^ Í Ç w >55kW˜	ææ	Æ
P11.04		0.01Hz˙	ææ	Æ
P11.05		1rpm˙ 65535rpm	ææ	Æ
P11.06	Ḡ			
P11.07	Ḡ			
P11.08	Ḡ			
P11.09	Ḡ			
P11.10	Ḡ			
P11.11~ P11.15	Ḡ			
P11.16	□	0.001 ˙ 65.535 ^ Í Ç w <=55kW˜ 0.0001 ˙ 6.5535 ^ Í Ç w >55kW˜	ă	Æ
P11.17	□ D	0.01mH˙ 655.35mH^ Í Ç w <=55kW˜ 0.001mH˙ 65.535mH^ Í Ç w >55kW˜	ă	Æ

P11.18	□ Q	0.01mH 655.35mH ǐ ㄓ w <=55kW 0.001mH 65.535mH ǐ ㄓ w >55kW	ǎ	Æ
P11.19	□ ㄐ β	0 12	0	
P11.20	□ ǐ ˉ ㄣ	0.1V 6553.5V	ǎ	Æ
P11.21	□ ∓	0 60000	0	
P11.22~ P11.26	Ḡ			
P11.27	ㄓ ‖	1 65535	1024	Æ
P11.28	ㄓ ﹟	0 ABZ ㄓ 1 Ḡ 2 ǐ ㄐ ㄓ 3 Ḡ 4 Ḡ	0	Æ
P11.29	Ḡ		0	Æ
P11.30	ABZ ㄓAB	0 h 1 ǐ h	0	Æ
P11.31	ㄓ	0.0 359.9£	0.0£	Æ
P11.32	Ḡ		0	Æ
P11.33	Ḡ		0.0£	Æ
P11.34	ǐ ㄐ ㄓ	1 65535	1	Æ
P11.35	Ḡ		4	
P11.36	ǐ PG	0.0 ь ƀ 0.1s 10.0s	0	Æ
P11.37		0 ƀ 1 Ḡ 2 Ḡ 11 □ 12 □	0	Æ

˘

P13.10	L Й ˙ ^ ¬ ~	0.0% · 200.0%	150.00%	æ
P13.11	L Й ˙ ^ Ũ ~	0' P13.12 1' AI1 2' AI2 3' AI3 4' PULSE Ⅱ 5' 6' MIN(AI1,AI2) 7' MAX(AI1,AI2) 1.7 ˘ P13.12	0.00%	æ
P13.12	L Й ˙ ^ Ũ ~	0.0% · 200.0%	150.00%	æ
P13.13 : ¤		0· 60000	2000	æ
P13.14 : №		0· 60000	1300	æ
P13.15 ¤		0· 60000	2000	æ
P13.16 №		0· 60000	1300	æ
P13.17 №		¢ β' №№ 0' 1'	0	æ
P13.18 □		0: 1: 2: ¬	1	æ
P13.19 □		0· 50	5	æ
P13.20 Ḡ				
P13.21 Ḡ				
P13.22 Ũ ˙ ą		0,1	0	æ
P13.23 2 L		0' D ↺ L^ SVC˜ 1' D ↺ L^ FVC˜ 2' V/F L	0	Æ
P13.24 2 ⅴ ⁞		0' Ь 1 □ 1' ⅴ ⁞ 1 2' ⅴ ⁞ 2 3' ⅴ ⁞ 3 4' ⅴ ⁞ 4	0	æ

P13.50	ə p	1 · 100	10	æ
P13.51	ə №	0.01s · 10.00s	0.50s	æ

6.14 ǎ P14

w	O	ض	₣ ٨ ץ	
P14.00	٨ مقم	0' Modbus ٨ 1' PN ٨ 2' Ḡ	0	æ
P14.01		ɷ β' MODBUS 0' 300BPS 1' 600BPS 2' 1200BPS 3' 2400BPS 4' 4800BPS 5' 9600BPS 6' 19200BPS 7' 38400BPS 8' 57600BPS 9' 115200BPS ٨ β' PN 0' 115200BPs 1' 208300BPs 2' 256000BPs 3' 512000Bps β' Ḡ ٧ β' Ḡ	5009	æ
P14.02	MODBUS	0' (8-N-2) 1' Ẽ (8-E-1) 2' (8-O-1) 3' (8-N-1) (MODBUS)	3	æ
P14.03	خي ضر	1· 247 0 ч خي ضر	1	æ
P14.04		0ms· 20ms	2	æ
P14.05		0.0 ~ ˘ 0.1s· 60.0s	0	æ
P14.06	D	ɷ β' MODBUS 0' ‰ MODBUS ٦ 1' ‰ MODBUS ٦ ٨ β' PN 0' PP01 1' PP02 2' PP03 3' PP05	31	æ
P14.07	ǔ №	0' 0.01A 1' 0.1A	0	æ

P14.08	h ɾ	0,1	0	
P14.09	৲ Ţ	0˙ 60.0	0	

P15.14	Ḡ	-	-	æ
P15.15	ᵽ Kp2	0.0˙ 100.0	20	æ
P15.16	№ Ti2	0.01s˙ 10.00s	2.00s	æ
P15.17	№ Td2	0.000s˙ 10.000s	0.000s	æ
P15.18	PID ă Ⓟ ᵭ	0ʻ Ь Ⓟ 1ʻ DI Ⓟ 2ʻ Ẓ ⌟ Ⓟ 3ʻ ⌟ Ⓟ	0	æ
P15.19	PIDă Ⓟ Ẓ 1	0.0%˙ P15.20	20.00%	æ
P15.20	PIDă Ⓟ Ẓ 2	P15.19˙ 100.0%	80.00%	æ
P15.21	PIDΔ ỵ	0.0%˙ 100.0%	0.00%	æ
P15.22	PIDΔ ỵ Ḡ	0.00˙ 650.00s	0.00s	æ
P15.23	ң ₣ Ẓ h	0.00%˙ 100.00%	1.00%	æ
P15.24	ң ₣ Ẓ ǐ h	0.00%˙ 100.00%	1.00%	æ
P15.25	PID №	ɷ β' №№ 0ʻ 1ʻ Ⅵ β' ₣ ⌡ ỵ U ϒ Å № 0ʻ № 1ʻ Å №	0	æ
P15.26	PIDǐ ʁ ỵ	0.0%ʻ Ь ∞ ǐ ʁ		

P16.04	VDI5	w	0˙ 59 0ʻ VDOx = VDI ٦		0	Æ
P16.05	VDI		1ʻ w P16.06 VDI ٦ ɑ β' VDI1 Ⅵ β' VDI2 β' VDI3 Ⅳ β' VDI4 0ʻ o		0	Æ
P16.06	VDI					

ĩ ᦟ ă

P19.15	AI 5 ~	-100.0%· +100.0%	100.00%	æ
P19.16~ P19.23	Ḡ			
P19.24	AI1	-100.0%· 100.0%	0.00%	æ
P19.25	AI1	0.0%· 100.0%	0.50%	æ
P19.26	AI2	-100.0%· 100.0%	0.00%	æ
P19.27	AI2	0.0%· 100.0%	0.50%	æ
P19.28	AI3	-100.0%· 100.0%	0.00%	æ
P19.29	AI3	0.0%· 100.0%	0.50%	æ
P19.30	AI1 ㄴ 1	-10.000V · 10.000V	₹ ∾	æ
P19.31	AI1 ㄴ 1	-10.000V · 10.000V	₹ ∾	æ
P19.32	AI1 ㄴ 2	-10.000V · 10.000V	₹ ∾	æ
P19.33	AI1 ㄴ 2	-10.000V · 10.000V	₹ ∾	æ
P19.34	AI2 ㄴ 1	-10.000V · 10.000V	₹ ∾	æ
P19.35	AI2 ㄴ 1	-10.000V · 10.000V	₹ ∾	æ
P19.36	AI2 ㄴ 2	-10.000V · 10.000V	₹ ∾	æ
P19.37	AI2 ㄴ 2	-10.000V · 10.000V	₹ ∾	æ
P19.38	AI3 ㄴ 1	-10.000V · 10.000V	₹ ∾	æ
P19.39	AI3 ㄴ 1	-10.000V · 10.000V	₹ ∾	æ
P19.40	AI3 ㄴ 2	-10.000V · 10.000V	₹ ∾	æ
P19.41	AI3 ㄴ 2	-10.000V · 10.000V	₹ ∾	æ
P19.42	AO1 ㄴ 1	0.500V · 4.000V	₹ ∾	æ
P19.43	AO1 ㄴ 1	0.500V · 4.000V	₹ ∾	æ
P19.44	AO1 ㄴ 2	6.000V · 9.999V	₹ ∾	æ
P19.45	AO1 ㄴ 2	6.000V · 9.999V	₹ ∾	æ
P19.46	AO2 ㄴ 1	0.500V · 4.000V	₹ ∾	æ
P19.47	AO2 ㄴ 1	0.500V · 4.000V	₹ ∾	æ
P19.48	AO2 ㄴ 2	6.000V · 9.999V	₹ ∾	æ
P19.49	AO2 ㄴ 2	6.000V · 9.999V	₹ ∾	æ

6.18 L P20

w	O	₥	₣ ᴧ ᵧ	
P20.00	/ L	0 L 1 L	0	Æ
P20.01	L Й	0 1 P20.03 1 AI1 2 AI2 3 AI3 4 Ⅱ 5 6 MIN AI1,AI2 7 MAX AI1,AI2 1-7 P20.03	0	Æ
P20.02	Ḡ			
P20.03	L Й	-200.0% 200.0%	150.00%	æ
P20.04		0 10.00	0.00%	
P20.05	L h	0.00Hz	50.00Hz	æ
P20.06	L ǐ h	0.00Hz	50.00Hz	æ
P20.07	L ᵥ	0.00s 650.00s	0.00s	æ
P20.08	L ⁞	0.00s 650.00s	0.00s	æ

6.19 L ǎ P21

w	O	₥	₣ ᴧ ᵧ	
P21.00	⌟	0.00Hz	2.00Hz	æ
P21.01	⌟ ᵥ	0.0s 6500.0s	20.0s	æ
P21.02	⌟ ⁞	0.0s 6500.0s	20.0s	æ
P21.03	ᵥ 2	0.0s 6500.0s	₥	æ
P21.04	⁞ 2	0.0s 6500.0s	₥	æ
P21.05	ᵥ 3	0.0s 6500.0s	₥	æ
P21.06	⁞ 3	0.0s 6500.0s	₥	æ

P21.33	κ ⎡ ₣ 2	0.0%˙ 100.0%ˆ	~	0.00%	æ
P21.34		0.0%˙ 300.0% 100.0%		5.00%	æ
P21.35		0.01s˙ 600.00s		0.10s	æ
P21.36	₣ ỵ	0.0%ˆ Ь ~ 0.1%˙ 300.0%ˆ	~	200.00%	æ
P21.37	₣	0.00s˙ 600.00s		0.00s	æ
P21.38	κ ⎡ 1	0.0%˙ 300.0%ˆ	~	100.00%	æ
P21.39	κ ⎡ 1	0.0%˙ 300.0%ˆ	~	0.00%	æ
P21.40	κ ⎡ 2	0.0%˙ 300.0%ˆ	~	100.00%	æ
P21.41	κ ⎡ 2	0.0%˙ 300.0%ˆ	~	0.00%	æ
P21.42	wr	0: 1: 0ơ P21.44		0	æ
P21.43					

P21.53	⌠	0.0Min˙ 6500.0Min	0.0Min	æ
P21.54	₣ w	0.00% · 200.0%	100.00%	æ
P21.55		0~200%	100.00%	æ
P21.56	₣ ∕	0,1	0	
P21.57	DPWM® :;:	5.00Hz˙ P08.10	12.00Hz	æ
P21.58	PWM L	0 L 1 L	ΛΟ∇Ω	æ
P21.59	Ⅵ ẽ	0 Ь ẽ 1 ẽ 1	1	æ
P21.60	PWM	0 PWM 1˙ 10 PWM	0	æ
P21.61	ą	0 Ь ą 1 ą	1	æ
P21.62	L	100 · 120	110	æ
P21.63	∕	60.0V · 1100.0V	ق	æ
P21.64	Ḡ			
P21.65	Ⅵ	100% · 200%	150%	æ
P21.66	∕	200.0V · 2200.0V	ق	Æ

6.20 P23

w	O	∕ β	خ ض
P23.00	(Hz)	0.01Hz	7000H
P23.01	(Hz)	0.01Hz	7001H
P23.02	∕ (V)	0.1V	7002H
P23.03	₣ ∕ (V)	1V	7003H
P23.04	₣ (A)	0.01A	7004H
P23.05	₣ w V Ů		

P23.10	AI2 ˆ V˜ / ˆ mA˜	0.01V/0.01mA	700AH	
P23.11	AI3 (V)	0.01V	700BH	
P23.12	ụ	1	700CH	
P23.13	ụ	1	700DH	
P23.14		1	700EH	
P23.15	PID	1	700FH	
P23.16	PID ǐ	1	7010H	
P23.17	PLC	1	7011H	
P23.18	PULSE ˜ Ⅱ	0.01kHz	7012H	
P23.19	ǐ (Hz)	0.01Hz	7013H	
P23.20	▼ φ	0.1Min	7014H	
P23.21	AI1 ╠	0.001V	7015H	
P23.22	AI2 ╠ ˆ V˜	0.001V/0.01mA	7016H	
P23.23	AI3 ╠	0.001V	7017H	
P23.24		1m/Min	7018H	
P23.25	╠	1Min	7019H	
P23.26	╠	0.1Min	701AH	
P23.27	PULSE ˜ Ⅱ	1Hz	701BH	
P23.28	ụ	0.01%	701CH	
P23.29	ر ǐ	0.01Hz	701DH	
P23.30	h X	0.01Hz	701EH	
P23.31	Y	0.01Hz	701FH	
P23.32	κ ṗ ضخي ụ	1	7020H	
P23.33	□ β		7021H	
P23.34	ụ	1Ṇ	7022H	
P23.35	(%)	0.10%	7023H	
P23.36	ǐ β	100.00%	7024H	
P23.37	w غج	0.1£	7025H	
P23.38	ABZ β	1	7026H	

P23.39	VF № ↄ	1V	7027H	
P23.40	VF № ₣ ↄ	1V	7028H	
P23.41	DI ~	1	7029H	
P23.42	DO ~	1	702AH	
P23.43	DI w	1	702BH	
P23.44	DO w	1	702CH	
P23.45	Ḥ	1	702DH	
P23.46	h ɾ └h ŭ		702EH	
P23.47~ P 23.57	Ḡ			
P23.58	Z Ḥ ↄ	100.00%	703AH	
P23.59	(%)	0.01%	703BH	
P23.60	(%)	0.01%	703CH	
P23.61	Ť ↄ	1	703DH	
P23.62	╠	1	703EH	
P23.63	ŭ ṿ	0.01%	703FH	
P23.64	ɾ ɷ	1	7040H	
P23.65	⁘	0.01%	7041H	
P23.66	Ḥ ↿			
P23.67	Ḥ			
P23.68	Ḡ			
P23.69	Ḡ			
P23.70	1RMP			
P23.71	Ḥ ↿ Ғ			
P23.72	↿ ₣			
P23.73				
P23.74	Ť ˗ ㄅ	0.1V	704AH	

7 ă w

7.1 ă └P0

P00.00		∓ ∧ ų	0
	›∘	0˙ 65535	

P00.00 κ ₩ ₢ ˘ ↕ Ḡ w Â Й ~ ∨ ˘

~ ˘ Ϙ ↕ Ь ė ќ w ă ˘ Â

P00.00 ч 00000 ↕ ˘ ą Ḡ w Â

P00.01	ă Δ .		∓ ∧ ų	0
	›∘	0	ƀ	
		1	∓ ∧ ă ˘ Ь´ ă	
		2	Ḥ	

1 à ∓ ∧ ų˘ Ь´ ă

P00.01 ч 1 U˘ ĩ ℭ w ă № ч ∧ ∓ ∧ ă ˘ ᵖ γ Й ă Ь

'

1~ ∧ ă (P1);

2~ ă └ ' P00.00, P00.01;

3~ Ḥ ' P07.14˙ P07.45;

4~ ă ' P10.34˙ P10.55, P11.00˙ P11.21;

5~ ^ P02.09~ ˘ ⁘ ^ P02.13~ ˘ ^ P02.14~ ;

6~ ^ P08.10~ ˘ ⁘ ^ P08.12~ ;

7~ └ ă ' P12.13˙ P12.16, P13.13˙ P13.16;

2 à Ḥ

ĩ ℭ Ḥ à ^ P02.09~ à ⁘ ^ P02.13~ à

^ P02.14~ Â

P00.02	w ă		₣ ∧ ẏ	11
	₥	ɷ β	P23,P27	
		0	Ь	
		1		
		∨ β	P11,P13,P16,P19,P20,P21	
		0	Ь	
		1		

P00.04	w ḱ		₣ ∧ ẏ	0
	₥	0	ˆ ḱ	
		1	Ь ˆ ḱ	

w ă ϒ ˆ ɣ ḱ ˇ ɢ w ă ˫ ∨ Â

w ч0 ↕ w ₹ḿ ḱ ’ ч1 ˇ w ₹ḿ ˇ Ь

ḱ Â

7.2 P2

P02.01	F2 w		₣ ∧ ẏ	0
	₥	0	F2	
		1	Ḡ	
		2	ǐ ℗	
		3	˫	
		4	ǐ ˫	

F2 ч w ˇ ˆ w F2 w Âضظ Ả غ Ţ ₹ḿ ɣ

℗ Â

0′ w Â

1′ Ḡ

2′ ǐ ℗

F2 ℗ ɒ h Â w ٧ ضث ɒ ч ƀ ث ɒ Â

3′ ˫

F2 ¬ ^ FJOG˜ Â

4' ĭ ¬

F2 ĭ ¬ ^ RJOG˜ Â

	LED ă 1	₹ ∧ ỵ	1F

7	6	5	4	3	2	1	0

1(Hz)

(Hz)

∧(V)

₹ ∧(V)

₹ (A)

₹w (kW)

₹ (%)

DI ˜ (V)

P02.03 0000·

15	14	13	12	1	10	9	8

FFFF

P02.02	STOP/RESET w		
	مخ	0	
		1	ضي k

LED ă 2 ₹ ∧ ỵ 0

7 6 5 4 3 2 1 0

PID ĩ

PLC

PULSE ~ Ⅱ (kHz)

2(Hz)

▼ φ

AI1 ╟ ㄴ(V)

AI2 ╟ ㄴ(V)

AI3 ╟ ㄴ(V)

15 1 4 13 12 11 10 9 8

P02.04 0000 ·

FFFF

╟ (Hour)

╟ (Min)

PULSE ~ Ⅱ (Hz)

ỵ

ح ĩ (Hz)

h X (Hz)

↑ Y

	LED Å	ă		₣ ∧ ṿ	0
			7 6 5 4 3 2 1 0		(Hz) ∧ (V) DI ~ DO ₣ AI1 ∧ (V) AI2 ∧ (V) AI3 ∧ (V) ṿ
P02.05		0000 · FFFF	15 14 13 12 11 10 9 8		ṿ PLC PID PULSE ~ Ⅱ (kHz) Ḡ Ḡ Ḡ
			ضِ Ţ Ɣ ; Ų ă ˘ ỉ β ч 1˜ ʜ ∪ L ч ∨ Ź E L U G P02.05 Â		

P02.07	ĩ ɔɕɯ ɕ	₹ ∧ ẏ	0
	ɲɞ	0.0Ņ˙ 100.0Ņ	

ĩ ɔɕɯIGBT Â

Ь ▯ ɱɱ ĩ ɔɕɯIGBT Ḡ ẏ Ь ▯ Â

P02.09		₹ ∧ ẏ	0h
	ɲɞ	0h˙ 65535h	

ĩ ɕ Â ⌠ P21.17Ủ ĩ ɕ w

₹w ^ 12˜ ₹ONḢ˝ Â

P02.11	Đ ˝	₹ ∧ ẏ	
	ɲɞ	L Đ ˝	
P02.12	β	₹ ∧ ẏ	1
	ɲɞ	0	0 β β
		1	1 β β
		2	2 β β
		3	3 β β

ɷ β'

G β Â Ѝ, ɐe ɒ '

P02.06 ч 2.000ʊ β P02.12 ч 2ʊ 2 β ~ ˘

ĩ ɕ ч 40.00Hz ˘ ч' 40.00*2.000 = 80.00ʊ 2 β ~

ĩ ɕ G Å ˘ ↕ ч ˘ ∨l' L·Â

Ƴ 50.00Hz ч ɒ˘ ↕ Å ч' 50.00*2.000 = 100.00ʊ 2 β

~

P02.13	⁘	₹ ∧ ẏ	0h
	ɲɞ	0h˙ 65535h	

ỵ	w	
0	w	˝ Ь ą ч ľ w Ľ˘ ỵ ˉ ђ Â
1	ˆ FWD˜	Ľ ĺ ћ Ь ĭ Â
2	ĭ ˆ REV˜	
3	Ľ	ĺ ћ Â , ă w P03.01ˆ ľ ث ɒ Ľ˜ Â
4	ˉ ˆ FJOG˜	FJOG ч ˉ ˘ RJOG ч ˉ ĭ Â ˉ ă
5	ĭ ˆ RJOG˜	ˉ ѵ ⁞ ă w P21.00 àP21.01 àP21.02 Â
6	UP	ќ à ⁞ ɒ Â ض
7	DOWN	ч ˘ ˆ Й Â
8	Ả	ĺ ћ ₣˘ Ả Ь ỉ ĺ ћ Ľ Â Ь P08.38 Ả Ơ ц □ Â
9	β ˆ RESET˜	≠ β w Â Ь RESET w □ Â w ˆ β Â
10	Ả	ĺ ћ ⁞ Ả ˘ p ă ڜ Â PLC ă à ă à PID ă Â Ḥ˝ U˘ ĺ ћ ч Ả ╠ Â
11	˜	Ḥ˝ ĺ ћ U˘ ĺ ћ ₣ E015˜ Ḡ ˉ ђ ˆ ṗ ă w P07.47˜ Â
12	1	˝ ض ҩ 16 ˘ 16 16 ỉ ɾ ɒ Â ṗ Â
13	2	
14	3	
15	4	
16	ѵ ⁞ 1	ҥ ҩ 4 ˘ 4 ѵ ⁞ ˘ ṗ Â
17	ѵ ⁞ 2	
18	Ⓟ	Ⓟ Ь □ Â w ˆ P08.07˜ ˘ ҥ ҥ Ⓟ ђ ч ˘ ض ҥ Ţ Ⓟ Â
19	UP/DOWN ˆ	ч ˘ ˆ UP/DOWN

	à ~	UP/DOWN í ỵ˘ ą P08.08 ỵ Â
20	ث ɒ Ⓟ	ث ɒ ч └ ˆ P08.02=1˜ ˘ ˜ ɣ └ Ь └ Ⓟ Â ث ɒ ч └ ˆ P08.02=2˜ ˘ ˜ ɣ └ Ь └ Ⓟ Â
21	४ ⋮	Ḡ í ς Ь ỉ Ḥ˜ ڑˆ Å ث ɒ ˜ ˘ ╠ ₹ Â
22	PID Å	PID ˘ í ς ╠ ₹ ˘ Ь'P PID Â
23	PLC β	PLCض Ţ Å˘ 'P ˘ ˜ ą í ς ⌠ PLC Δ Â
24	Å	í ς ɣ Ţ ₹ Â w Å Â
25	ς ~	‖ ~ Â
26	ς β	ς Â
27	~	~ Â
28	β	
29	└	í ς └˘ í ς ~ └
30	PULSE‾ ‖ ~ ~^ . DI5 ~	DI5ƀ ч ‖ ~ w Â
31	Ḡ	Ḡ
32	ч └˗	˘ í ς Ⓟ ⌠ └˗
33	~	Ḥ˜ ~ í ς U˘ í ς ₹ E015 Å Â
34	ḱ ą	w ч ˘ ↕ í ˘ í ς Ь ڑ ˘ ⌠ Â
35	PIDƀ h ŭ ǐ	˘ PIDƀ h ЬP15.03 h ǐ
36	Å 1	└ ˘ ˜ ą í ς Å ˘ G ⁘ STOP w Â

37	ㄴ ㄱ ㉾	2	G ضِ ㄴ غ ㄴ ㅂ ㉾ Â ㄱ ث ㅋ ㄴ ˘ ↕ ㉾ ㅋ ㄴ ˈ ĩ ㅂ ˝ ĩ Á
38	PID № Å		˘ ↕ PID № w Å ˘ ᵖ PID ᵑ ġ № w . Â
39	X Ь ㉾		˘ ↕ X ˆ P08.08˜ ㄱ
40	Y Ь ㉾		˘ ↕ Y ˆ P08.08˜ ㄱ
41		1	ㅂ ㅀ

P03.10	DI	₣ ∧ ų	0.010s
	ﻣ	0.000s˙ 1.000s	

DI Ð Â ą ~ Ĭ ˗ ƀ˘ ˆ

ă ˘ ɣ ↕ ʐ Â ᵖ ψ DI ڒ Ǐ Â

P03.11	ث ɒ	₣ ∧ ų	0
	ﻣ	0	ɳ 1
		1	ɳ 2
		2	⁝⁝ 1
		3	⁝⁝ 2

ă ɥ ↻ ˘ Ĺ ǐ ﻕ ﻀ Ƅ Â

' ч Ḃ ˘ Ѝ к ŭDI1 · DI10 w ~ Ţ DI1àDI2àDI3⁝⁝

ɷ ƀ ч Â ∧ P03.00 · P03.02 ų DI1àDI2àDI3⁝⁝ ɷ

w ˘ w ɥ P03.00 · P0309 ﻣ Â

0' ɳ 1' ч ą ɳ Â DIxàDIy ═ à

ĭ Â

w Ѝ'

	ų	
DIx	1	^ FWD˜
DIy	2	ĭ ^ REV˜

ì Ţ˘ DIxàDIy ч DI1· DI10 w ~ ˘ Â

1' ɳ 2' DIx w ч ą ˘ DIy w

h Â

w Ѝ'

	ų	
DIx	1	^ FWD˜
DIy	2	ĭ ^ REV˜

ì Ţ˘ DIxàDIyчDI1· DI10 w ~ ˘ Â

˘ Ȅ˜

2' ⁞⁞ └ 1' DIn ч ą ˘ h№≠ DIx àDIy └Â

w Й'

	¥	
DIx	1	^ FWD˜
DIy	2	ĭ ^ REV˜
DIn	3	⁞⁞ └

ضي ˘ ѽ ... DIn ˘ DIx DIy ⅛⁞ ^ ĭ

└Â

ضي Å ˘ DIn Ḥ˝ Â ì Ţ˘ DIx àDIy àDIn ч DI1· DI10

w ~ ˘ DIx àDIy ч ‖ ˘ DIn ч Â

3' ⁞⁞ └ 2' ą ч DIn˘ ث Ɒ DIx ₣˘ h DIy

= Â

w Й'

	¥	
DIx	1	^ FWD˜
DIy	2	ĭ ^ REV˜
DIn	3	⁞⁞ └

ضي ˘ ѽ ... DIn ˘ DIx ⅛⁞ ^ °° Ḥ˝ ˘ DIy

°° h Ḥ˝ Â

ضي Å ˘ DIn Ḥ˝ Â ì Ţ˘ DIx àDIy àDIn ч DI1· DI10

w ~ ˘ DIx ч ‖ ˘ DIy àDIn ч Â

P03.12	UP/DOWN ĭ.	₣ ∧ ỵ	1.00Hz/s
	ж	0.01Hz/s· 65.535Hz/s	

G UP/DOWN ˘ ĭ. ˘ ∧ ĭ. Â

P8.22^ ~ ч 2 ˘ ỵ ж ч 0.001Hz/s· 65.535Hz/sÂ P8.22^

~ ч 1 ˘ ỵ ж ч 0.01Hz/s· 655.35Â

7.4 ₹ P4

GF630N ↓ ĩ ල 1 ๏ w

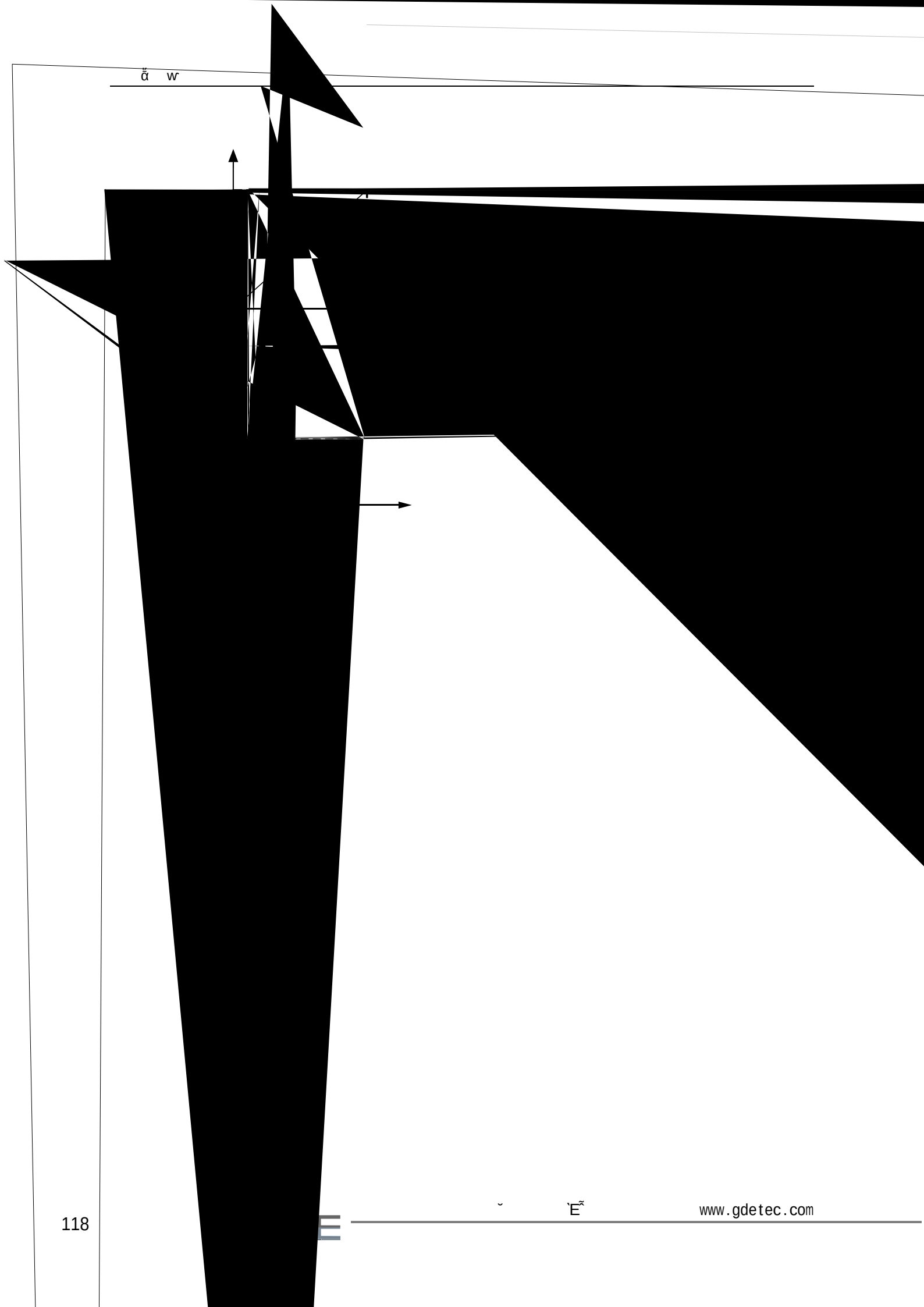
4	⌠	ă w P21.21 Â
5	Ţ^ Å Ь ₹˜	Ť ↀ ғ ₹ ч0 ˘ ₹ONḤ˜ Âضِ Ť ↀ g Å ˘ Ḥ˜ ч OFF Â
6		⌐ Ḡ ¬ ƀ ң ╟˘ ṿ ∞ ˘ ضِ ṿ U ₹ONḤ˜ Â ă ă w P07.00ˈ P07.02 Â
7	Ť ↀ	ضِ Ť ↀ Ḡ ŭ ╟10s˘ ₹ONḤ˜ Â
8	ṿ ⌠	ṿ ⌠P09.08 ṿ ˘ ₹ONḤ˜ Â
9	ṿ ⌠	ṿ ⌠P09.08 ṿ ˘ ₹ONḤ˜ Â w ă P9 w
10	⌠	P09.05 ˘ ₹ON Ḥ˜ Â
11	PLC	PLC ₩ ѡ U˘ ₹ ₩ ѡ ч250ms ⫴ Ḥ˜ Â
12	⌠	Ť ↀ P21.17 ˘ ₹ON Ḥ˜ Â
13	Ţ	₹ Й ˘ ғ Ť ↀ ₹ ˝ Й ˘ ₹ONḤ˜ Â
14	Ţ	Ť ↀضِ L Й˘ ₹ ⌠ ṿ ˘ Ť ↀ g Ḡ ˘ □ ₹ONḤ˜ Â
15	‰	Ť ↀ h ﻉ غ L ﻉ ˘ ғ Ť ↀ ⌠ к ѵ Ḥ ˘ Ť ↀ g˜ ˘ ₹ ONḤ˜ Â
16	AI1>AI2	˜AI1 ṿ gAI2 ˜ ṿ ˘ ₹ONḤ˜ Á
17	⁝ ⌠	⌠ ⁝ ˘ ₹ONḤ˜ Â
18	Й ⌠ ^ Å Ь ₹˜	⌠ Й ˘ ₹ONḤ˜ Â Å Й Ḥ˜ ч OFF Â
19	⅄ ₹	Ť ↀ g ⅄ ˘ ₹ONḤ˜ Â

20			ă ٧ Â
21	Ḡ		Ḡ
22	Ḡ		Ḡ
23		Ţ 2̂ Å Ӡ ₣˜	Ť ℊ ₣ ч0 ˘ ₣ONḤ̂ Â Å Й, Ḥ ̊ Ӡ чONÂ
24	⁘ ⌠		Ť ℊ ⁘ ˆ P02.13˜ P21.16 ˘ ₣ONḤ̂ Â
25		FDT2 ₣	ă w P21.28 à P21.29 Â
26	1 ⌠ ₣		ă w P21.30 à P21.31 Â
27	2 ⌠ ₣		ă w P21.32 à P21.33 Â
28	1 ⌠ ₣		ă w P21.38 à P21.39 Â
29	2 ⌠ ₣		ă w P21.40 à P21.41 Â
30	⌠ ₣		w ˆ P21.42˜ ˘ Ť ℊ ⌠ U˘ ₣ONḤ̂ Â
31	AI1 ˜		˜AI1 Ч ɾ

40	⌠	ĩ ⅁ P21.53 ˘ ₹0NḢ˜ Â

FMR ₹ ₹ ∧ ẏ 0.0s
P04.06
ঌ 0.0s˙ 3600.0s

7.5 ŧ



2 w ĩ ą ˘ ă 1 Â

P05.10	AI 3 ~	₣ Ν ų	-10.00V
	₰	0.00s˙ P05.12	
P05.11	AI 3 ~	₣ Ν ų	-100.00%
	₰	-100.00%˙ 100.0%	
P05.12	AI 3 ~	₣ Ν ų	10.00V
	₰	P05.10˙ 10.00V	
P05.13	AI 3 ~	₣ Ν ų	100.0%
	₰	-100.00%˙ 100.0%	
P05.14	AI3	₣ Ν ų	0.10s
	₰	0.00s˙ 10.00s	

3

Â

P05.20	Al		₣ ∧ ỵ	321
	₥	ɷ β	Al1	
		1	1ˆ 2 ˘	P05.00˙ P05.03˜
		2	2ˆ 2 ˘	P05.05˙ P05.08˜
		3	3ˆ 2 ˘	P05.10˙ P05.13˜
		4	4ˆ 4 ˘	P19.00˙ P19.07˜
		5	5ˆ 4 ˘	P19.08˙ P19.15˜
		∨ β	Al2	ˆ 1˙ 6˜ □;: ˜
		β	Al3	ˆ 1˙ 6˜ □;: ˜

w ɷ β à ∨ β à β №≠ ɢ ˘ ˜ Al1 à Al2 à Al3

Â 3 ỿ ˜˜ ỿ №≠ 5 Ţ ĸ ₩ ɷ Â

1 à 2 à 3خش ч 2 ˘ ضيP05 w Ţ ˘ 4 Ь 5خش ч 4

˘ ضيP19 w Ţ Â

GF630N ĩ ح ‰ ∧ ″Ḥ ˪ 2 ˜ₒ ˘ ą Al3 w ˜ ₣ ∧ Â

P05.21	Al ỿ ɢ ˜		₣ ∧ ỵ	000
	₥	ɷ β	Al1 ỿ ɢ ˜	
		0	˜	
		1	0.0%	
		∨ β	Al2 ỿ ɢ ˜	ˆ 0˙ 1˜ □;: ˜
		β	Al3 ỿ ɢ ˜	ˆ 0˙ 1˜ □;: ˜

w ɢ ˘ ˜ ∧ ɢ Ỉ ˜ Ŀ ˘

ν Â

w ɷ β à ∨ β à β˘ №≠ ˜ Al1 à Al2 à Al3 Â

ч 0˜ ↕ Al ˜ ỿ ɢ Ỉ ˜ Ŀ ˘ ↕ ˘ ч w

Ỉ ˜ Ŀˆ P05.01 à P05.06 à P05.11˜ Â

ч 1˜ ↕ Al ˜ ỿ ɢ ˜ ˘ ↕ ч 0.0% Â

			0
P06	A01		0
P06.02	A02		0

FMP 0.01kHz P06.03

16	∓ (ụ)	-2 Ồ · 2 Ồ

P06.03	FMP ∓	∓ ∧ ụ	50.00kHz
	₥	0.01kHz· 100.00kHz	

FM ƀ ч ǁ ∓ ˘ w g ∓ ǁ ụ Â

P06.04	AO1 Ẓ	∓ ∧ ụ	0.0%
	₥	-100.0%· +100.0%	
P06.05	AO1	∓ ∧ ụ	1.00
	₥	-10.00· +10.00	
P06.06	AO2 Ẓ	∓ ∧ ụ	0.0%
	₥	-100.0%· +100.0%	
P06.07	AO2	∓ ∧ ụ	1.00
	₥	-10.00· +10.00	

w ₩ g ḱ ∓ ǐ ∓ ụ Ẓ Â ̈3˜ Ɣ g Ɥ
AO ∓ Â
Ẓ l' b Ł ˘ k ˘ ∓ Y ˘ ‰ ∓ X ˘ ↕
∓ ч' Y=kX̄ b Â
ì Ţ˘ AO1/ AO2 Ẓ 100% 10V˜ 20mA˜ ˘ ‰ ∓ ضي Ẓ ǐ
ḱ Ǐţ˘ ∓ 0V· 10V˜ 0mA· 20mA˜ ∓ Â

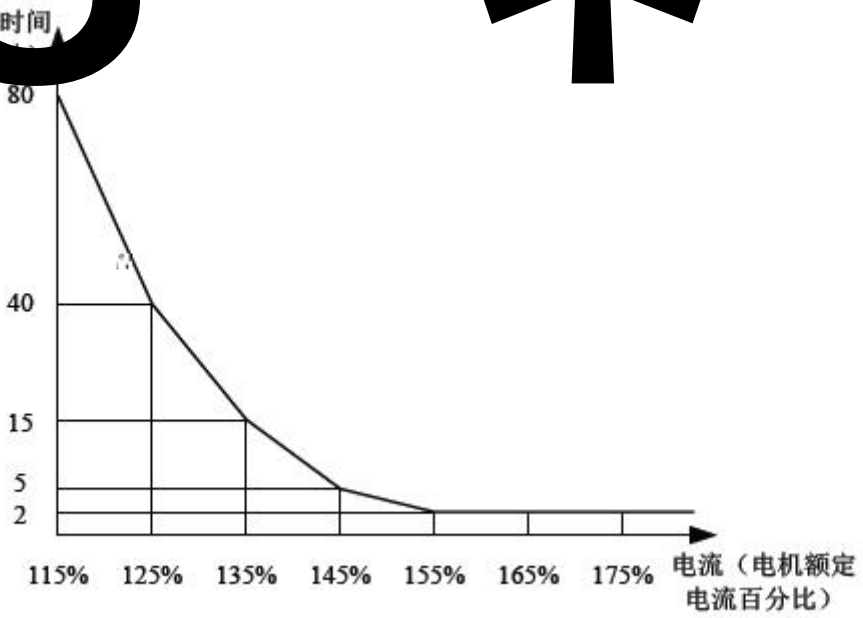
ɒ ' ∓ ṗ ч ˘ ضي ч 0 ∓ 8V˘ ч
∓ 3V˘ ↕ ч l' -0.50 Ł, Ẓ ч l' 80% Ł Â

7.7 Ḡ ă P7

P07.00	Ḡ		∓ ∧ ụ	1
	₥	0		
		1	¨Ḥ	
P07.01	Ḡ		∓ ∧ ụ	1.00
	₥		0.20· 10.00	

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P07.00 G w ˘ ˆ ضي شخ ط ك Ь Ї كح Ь н
ѵ ح
P07.00 ا ك G ї ٦ Â



р ' ضي 120% ' Й, 30 № ˘ ↕ ѽ Й, 30 № Ix Â

يح ˘ 30 № β G 125% ę 135% Ч ṗ˘ ↕ˆ ץ ∓ Й, 30 № Ix Й,' (40-30) ° (125%-Ix)=(40-15) ° (125%-135%)

∓ Ix=129%˜ ɾ ˆ ץ ∓ ضي 120% ' Й, 30 № ˘ G '

P07.01=120% ° Ix=120% ° 129%=0.93

' ʐ˘ P07.01 ṿ˘ ă

Ũ شخ Ї كح Ї G ٧ ۔

∓ ٨ ṿ 80%

P07.02

مخ 50%˙ 100%

P07.03	۱	₣ ۸ ṿ	0
	ۻ	0 ˆ ۱ ~ · 100	
P07.04	۱ Ḡ ۱	₣ ۸ ṿ	760.0
	ۻ	200.0~2200.0	

ضي أ ؟ ⋮ Ţ˜ ۱ ۱ Ḡ ۱

P07.11	β	Ⱡ ∧ ỵ	1.0s
	ɔ	0.1s˙ 100.0s	

ǐ ȿ β Ң Â

P07.12	~ Ḡ	Ⱡ ∧ ỵ	1
	ɔ	0̛ 1̛ ¨Ḥ	

ϖ ~ Ḡ Â

P07.13	Ⱡ Ḡ	Ⱡ ∧ ỵ	11
	ɔ	0̛ 1̛ ¨Ḥ	

ϖ Ⱡ Ḡ Â

P07.14	₩ ɱ	0˙ 999
P07.15	Ⱨ ɱ	
P07.16	^ ₩ ~ ɱ	

ǐ ȿ ɱ˘ 0 ч Â ˜ G ɷ ϖ ˆ ɲ ǐ ═
˘ ă ŋ ˜ Â

P07.17		₩
P07.18		₩
P07.19	∧	₩ ∧
P07.20	~	₩ ~ ˘ ч' BI T9 BI T8 BI T7 BI T6 BI T5 BI T4 BI T3 BI T2 BI T1 BI T0 DI 0 DI 9 DI 8 DI 7 DI 6 DI 5 DI 4 DI 3 DI 2 DI 1 ~ ч ON ì Ⱨ L β ч 1˘ OFF ↕ ч 0̛ DI . ч ∨ L Â

˘ È˜

P07.47	Ḡ ˩ ƀ 1		₣ ∧ ỵ	00000
	ɲ	ɷ β	ˆ E011˜	
		0	Å	
		1	Å Å	
		2		
		∨ β	˜ ˆ E113˜ ˆ ▯ ɷ β ˜	
		β	₣ ˆ E114˜ ˆ ▯ ɷ β ˜	
		∨ β	ˆ E015˜ ˆ ▯ ɷ β ˜	
		’ β	ˆ E0202˜ ˆ ▯ ɷ β ˜	
P07.48	Ḡ ˩ ƀ 2		₣ ∧ ỵ	00000
	ɲ	ɷ β	↺ ˆ E118˜	
		0	Å	
		1	Ⓟ ч VF˜ Å Å	
		2	Ⓟ ч VF˜	
		∨ β	w Ω ˆ E021˜	
		0	Å	
		1	Å Å	
		β	ĩ ↺ ˆ E111˜ ˆ ▯ P07.47 ɷ β ˜	
		∨ β	ˆ E045˜ ˆ ▯ P07.47 ɷ β ˜	
		’ β	⌠ ˆ E026˜ ˆ ▯ P07.7 ɷ β ˜	
P07.49	Ḡ ˩ ƀ 3		₣ ∧ ỵ	00000
		ɷ β	Ꮋ 1ˆ E027˜ ˆ ▯ P07.47 ɷ β ˜	
		∨ β	Ꮋ 2ˆ E028˜ ˆ ▯ P07.47 ɷ β ˜	
		β	⁘ ⌠ ˆ E029˜ ˆ ▯ P07.47 ɷ β ˜	

V β ^ E030˜

0

˘ P07.55 ỵ˘ G № Â

D ح قسم ∓ ∧ ỵ 0

0 D ح

P07.56

1 PT100

مخ 2 PT1000

∧ ỵ î q

P07.57

P07.67	ṿ	₣ ∧ ṿ	15.0%
	₥	0.0% 50.0%	~
P07.68		₣ ∧ ṿ	1.0s
	₥	0.0s 60.0s	

W 7 ضي ĩ ک ضي D ک L Â

ĩ ک ∫ ˘ ₣ ṿ G ṿ P07.67 ₣
G P07.68 ˘ ĩ ک E115 Ḡ ⌐ ƀ
Â

P07.69	Ẓ ṿ	₣ ∧ ṿ	20.0%
	₥	0.0% 50.0%	~
P07.70	Ẓ	₣ ∧ ṿ	2.0s
	₥	0.0s 60.0s	

W 7 ضي ĩ ک ضي D ک L Â

ĩ ک ∫ ƀ ₣ Ẓ ˘ Ẓ G Ẓ ṿ
P07.69 ₣ G Ẓ P07.70 ˘ ĩ ک E119
Ḡ ⌐ ƀ Â

Ẓ ч 0.0s ˘ ŭ Ẓ Â

7.8 Ω Å L P8

P08.01	1 L	₣ ∧ ṿ	0
	₥ 0	D ک L^ SVC~	
	1	D ک L^ FVC~	
	2	V/F L	

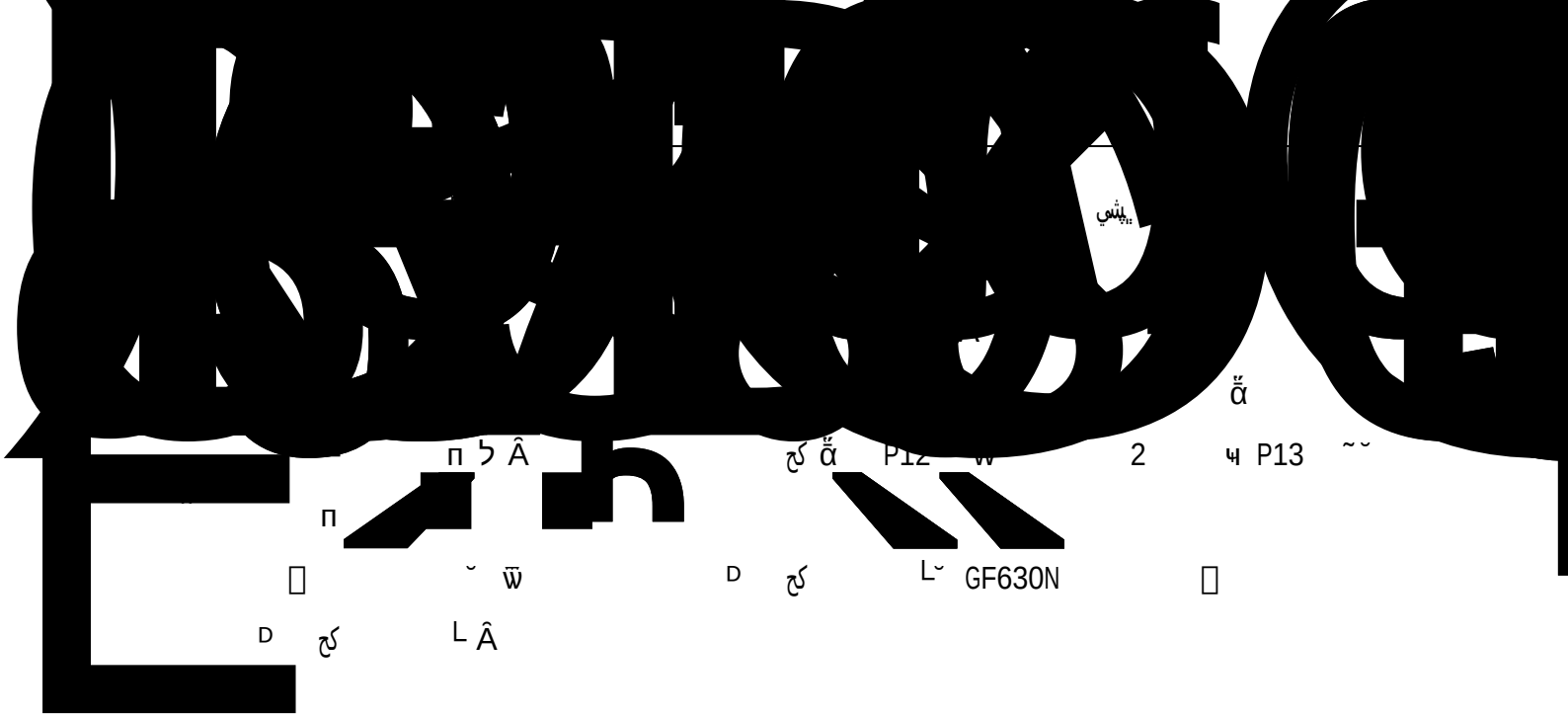
0' D ک L

L˘ G L ˘ W̄~ ĩ ک7 ⌐ W̄~ Â

à à K à Â

1' D ک L L˘ ₰ ک˘ ĩ ک

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		8	PID
		9	

ĩ ֍ h ~ Â ¨ 10 h '
0' ^ Þ ~
Δ ụ ч P08.08 l' Ŀ ụ Â˜ ģ Þ η ^ w
~ UP à DOWN~ ĩ ĩ ֍ ụ Â
ĩ ֍ U 'P ⁚ ˘ ụ ч P08.08 l' Ŀ ụ Â
1' ^ ~
Δ ụ ч P08.08 l' Ŀ ụ Â˜ ģ à η ^ w ~
UP à DOWN~ ĩ ĩ ֍ ụ Â
ĩ ֍ U 'P ⁚ ˘ ч⁚ ⊥ ˘ ģ àη
UP à DOWN ĸ Â

˘ P08.23 ч l' Å Ŀ˘ P08.23 ɢ ضي ĩ ֍
Å ˘ ĸ Â P08.23 Þ Å ˜˘ Þ
˜˘ Ţ Â
2' AI1
3' AI2
4' AI3
~ ÂGF630N Ļ ļ 2 ѽ ~ ^ AI1˘ AI2˜˘
ð I/O ѵ˜ ļ3 1 ѽ ~ ^ AI3˜ Â

ì Ţ˘ AI1 ч -10V˙ 10V ۱ فمم ~˘ AI2˜ ч -10V˙ 10V ۱ ~˘ 3̈˜ ч 0/ 4mA˙
20mA ~˘ ⁚ J1 ˘ AI3 ч -10V˙ 10V ۱ فمم ~ Â
AI1 à AI2 à AI3 ~ ۱ ụ˘ Þ ˜ ˘ ˜ Ɣ ÂGF630N
ļ 5 ˜ ˘ ì Ţ 3 ч ˜ ^ 2 ˜ ~ ˘ 2 ч 4
˜ к ˘ ˜ Ɣ P05 ĩ P19 w Â
w P05.20 ɢ AI1~AI3⁚ ~˘ №≠ 5 Ţ ك ₩ ˘
5 ĩ ɾ ˜ , ă P05 à P19 w Â

5' ‖ ^ DI5˜ ‖ Â ‖ Ḥ˜ ' ۱ ظ 9V˙
30V à ظ 0kHz˙ 50kHz Â ‖ ɾ ɾ w ~ DI5 ~ Â
DI5 ~ ‖ Þ ˜ ˘ P05.15~P05.18 ˘ ˜
ч 2 ˜ ˘ ‖ ~ 100.0% P08.10
№ Â

6' ɒ ɒ ˘ ~ DI Þ ⁻ ˘
Þ ụ ÂGF630N˜ Ɣ 4 ѽ ɒ ˘ 4 ѽ 16
˜ Ɣ P09 w к 16 ѽl' ɒ Ľ l' ɒ Ŀ P08.10
№ Â

ˇ ˋE˜ ㅛ ɔɯ ά̈

Â

2˜ ↑ ч ~ ^ AI1 à AI2 à AI3˜ ‖ ~ ˘ ~

100% ↑ ₀ ˘ ˆ P08.05 ₹ P08.06 Â

3˜ ч ‖ ~ ˘ Ь ³ Â ' ↑ Y Ь h

X ˘ Ь ч □ ₩ ₡ ˘ ↓ P08.03 Ь P08.04 Ь ч □ ỵ˘ Ղ ↕

Ÿ Â

P08.05	ŋ ₰ ↑ Y ₀		₹ ↓ ỵ	0
	₀	0	G	
		1	G h	X
P08.06	ŋ ₰ ↑ Y ₀		₹ ↓ ỵ	0
	₀		0% ˙ 150%	

ч l' ŋ ₰ Ĺˆ ↓ P08.07 ч 1 à 3 4˜ ˘ ҷ ₡ ă

↑ ₀ Â

P08.05 G ↑ ₀ ˘ ˆ G ˘ 3ˆ Y

G h X˘ ч G h ˘ ↕ ↑ ₀ h X ĭ.

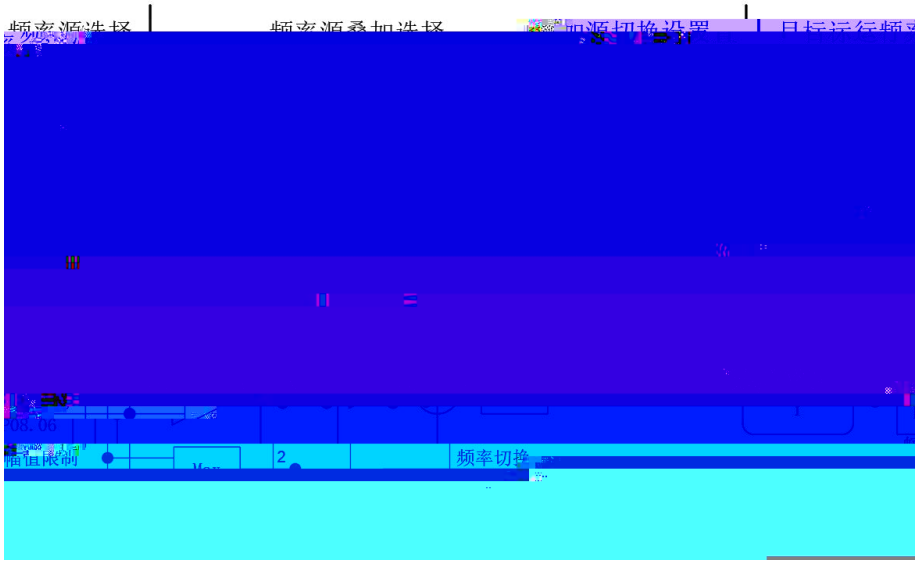
ĭ. Â

P08.07	ŋ ₰		₹ ↓ ỵ	0
	₀	₡ β		
		0	h X	
		1	h ^ ˜ Ⅵ β ~	
		2	h X Ь ↑ Y Ⓟ	
		3	h X Ь h Ⓟ	
		4	↑ Y Ь h Ⓟ	
		Ⅵ β	h ˜	
		0	h+	
		1	h-	
		2	Ⱨ ỵ	
		3	Ⱨ ỵ	

ă Â h X ₹ ↑ Y ... Â

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ɷ β'



0' h X

h X ƀ ч Â

1' h h ƀ ч ˘ h ˜ w l' Ⅵ β Ŀ Â

2' h X Ь ↑ Y Ⓟ w ~ w 18ˆ Ⓟ ~

˘ h X ƀ ч Â w ~ w 18ˆ Ⓟ ~

˘ ↑ Y ƀ ч Â

3' h X Ь h Ⓟ w ~ w 18ˆ Ⓟ ~

˘ h X ƀ ч Â w ~ w 18ˆ Ⓟ ~

˘ h ƀ ч Â

4' ↑ Y Ь h Ⓟ w ~ w 18ˆ Ⓟ ~

˘ ↑ Y ƀ ч Â w ~ w 18ˆ Ⓟ ~

˘ h ƀ ч Â Ⅵ β' h ˜ '

0' h X+ ↑ Y

h X Ь ↑ Y ė ƀ ч Â ŋ ѵ w Â

1' h X- ↑ Y

h X ⁞ ˇ ↑ Y ƀ ч Â

2' MAXˆ h Xˆ ↑ Y˜ ŭ h X Ь ↑ Y Ţ ụ ƀ ч

Â Ẓ ˘ ɣ Ỵ Â

P08.08		₹ ∧ ụ	50.00Hz
	ઝ૦	0.00˙ ˆ	ч ~

ч l' Ŀ l' UP/DOWN Ŀ ˘ w ụ ч Ĩ ર

Δ ụ Â

˘ ΄ ᘐ ⌠ ᘐ

08.9

Â

' ́k w ă ˘ ß ѵ i β ˘ ĩ ˘ ·

Ȝ ů ˘ Ţ Â

P08.21	↑ Ẓ	∓ ∧	0.00Hz
	ж	0.00Hz˙	P08.10

w ˀ ضِ ч h Â

ч h ˘ P8.21 ƀ ч Ẓ ˘ ь h ŋ ѵ ƀ ч

ỵ˘ ą ˆ ɣ ч Â

P08.23	Å	∓ ∧ ỵ	0
	ж 0		ь
	1		

w ч Â

ľ ь Ŀ ĩ ☋ Å U˘ ỵ ч P08.08˜ ~ ỵ˘

ǵ à ŋ UP à DOWN ́k Â

ľ Ŀ ĩ ☋ Å U˘ Ḡ ч Å ⊥ ˘ ǵ à

ŋ UP à DOWN ́k Ḡ Â

P08.24			∓ ∧ ỵ	0
	ж	0	1	
		1	2	

GF630N ĩ ☋№ ˉ 2˜ ˘ 2˜ ˆ ɣ №≠ ă à

ă à ь ▯ Ŀ à ь ˜ ă Â

1 " w ă ч P10 ь P12 ˘ 2 w ă P11 " P11

ѵ ⋮ ˘ ɾ ⌠ P08.25 ҥ ѵ ⋮ ŋ

P08.28	Ø		∓ ∧ ẏ	0
	₰	0	Ø	
		1	Ḡ	
		2	Ḡ	

0 Ø
Ø L ч 0 ↕ ĩ ر ر Ø Â Ø L Ь
ч 0 ↕ ώ L ˘ U ˈP ر Ø Â ˘ ضي Ø ˜
ـ ـ Â
1 Ḡ
2 Ḡ

P08.31	Ø	∓ ∧ ẏ	0.00Hz
	₰		0.00Hz 10.0
P08.32	Ø Ḡ	∓ ∧ ẏ	s
	₰		00

ч Ḡ Ø ˘ Ø Â ч ą Ø ˜Ḥ№ 0000 ЩЬ Ů

P08.33	Ø L	∓ ∧ ν	0%
	ض	0% 100%	
P08.34	Ø L	∓ ∧ ν	0.0s
	ض	0.0s 100.0s	

Ø L ˘ ₩ G ą Å U ' P Ø Â : G ۋ ą
ش U ' P Ø ˘ ڑ Â
Ø L ₇ ض Ø ч Ø Â ĩ ک ۋ Ø L
L ˘ Ø L U ' P Â L ч 0 ˜ ↕
Ь L Ø Â L ˘ L ʒ Â

Ø L ˘ ĩ ک № Â

P08.35	∀ ⋮		∓ ∧ ν	0
	ض	0	∀ ⋮	
		1	S ∀ ⋮ A	
		2	S ∀ ⋮ B	

ĩ ک ض Ø à Å Ţ ĩ Â

0 ∀ ⋮ ∓ ⋮ Â

1 S ∀ ⋮ A ∓ S ⋮ Â

S ض Ø Å ش ą ˘ à Âw P08.36 غ P08.37

№≠ ЧЭ S ∀ ⋮ غ ם ض ¥ ˘
∀ ⋮ ч

$$t = \left(\frac{4}{9} \times \left(\frac{f}{f_b}\right)^2 + \frac{}{9}\right) \times I$$

ì Ţ˘ f ч ˘ f b ч ˘ T ч ɾ 0 ∀ ⌠ f b Â

P08.36	S ם	∓ ∧ ν	30.0%
	ض	0.0% ^ 100.0%- P08.37˜	
P08.37	S ם	∓ ∧ ν	30.0%

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P08.38	Å		₣ ∧ ẏ	0
	₥	0	⁞ Å	
		1	Å	

0' ⁞ Å Å ث ɒ U˘ ĭ ك ⁞ ∨ ₣ ˘ ч 0 U Å Â

1' Å Å ث ɒ U˘ ĭ ك ∧ ₣˘ Å Â

P08.39	Å L⁃	₣ ∧ ẏ	0.00Hz
	₥	0.00Hz˙	
P08.40	Å L⁃	₣ ∧ ẏ	0.0s
	₥	0.0s˙ 36.0s	
P08.41	Å L⁃	₣ ∧ ẏ	0%
	₥	0%˙ 100%	
P08.42	Å L⁃	₣ ∧ ẏ	0.0s
	₥	0.0s˙ 36.0s	

Å L⁃ ' ⁞ Å Ţ˘ ∨ ⌡ ⌡ ˘ L

⁃ Â

Å L⁃ ' ض ∨ ⌡ Å L⁃ U˘ ĭ ك ۟ Å

₣ ₩ ˘ U 'P L⁃ Â ɢ ض L⁃ ‸

Â

Å L⁃ ' Å L⁃ ˘ Ẏ Ң Â

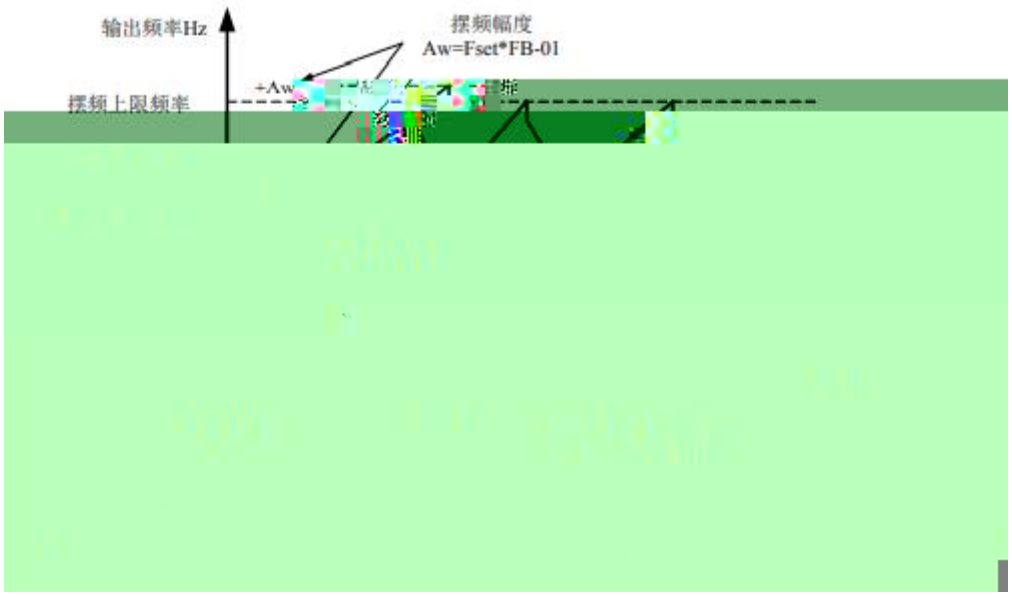
1 à ɢ ɢ ĭ ك 80% ˘ ч №

Ẏ Â

2 à ɢ ĭ ك 80% ˘ 80% ĭ ك ч №

Ẏ Â

Å L⁃ ₹ ₹ Â



Ъ ƻ

P09.00		₹ ∧ ỵ	0
	ƾ	0	ɢ Ţ
		1	ɢ

ă ‰ Â

0' Ţ ˘ ч ĭ Â Ţ ˆ ~ ĭ. ĭ. Â

1' ˘ ч ˘ ֍ Â

₹ ∧ ỵ

P09.01

P09.03	Ա	₹ ∧ ṿ	10.0s
	₥	0.0s˙ 3000.0s	
P09.04	⁝⁝ ⁝ ˥	₹ ∧ ṿ	50.0%
	₥	0.0%˙ 100.0%	

Ա ' ₩ ₡ Ա ṿ Â

⁝⁝ ⁝ ˥ P09.04˜ ⁝⁝ ⁝ ˥ Ա P09.03 № Â

⁝⁝ ⁝ ˥ ˛ Ա P09.03 ⁝⁝ ⁝ ˥ P09.04 ˘ ∨ β ч Â

⁝⁝ Й ˛ Ա P09.03 ¦ˆ 1˙ ⁝⁝ ⁝ ˥ P09.04˜ ˘ ∨ β ч Â

P09.05		₹ ∧ ṿ	1000m
	₥	0m˙ 65535m	
P09.06		₹ ∧ ṿ	0m
	₥	0m˙ 65535m	
P09.07	‖	₹ ∧ ṿ	100.0
	₥	0.1˙ 6553.5	

⁝⁝ w G L Â

Ḥ w ~ ˘ ‖ ₡ ь ‖ P09.07 ˘ ˆ ⌠ P09.06 Â G P09.05 ˘ w DO ₹ ľ ⌠ Ł ON Ḥˆ Â

L Ţ˘ ˆ ϒ w DI ˘ β ƀˆ DI w ч 28˜ ˘ ĺ ˛ ă P3 ă Â

Ţ ~ w ч ľ ~ Ł ˆ w 27˜ ˘ ض ‖ ˘ ą DI5 ₀ Â

P09.08	ṿ	₹ ∧ ṿ	1000
	₥	1˙ 65535	
P09.09	ṿ	₹ ∧ ṿ	1000
	₥	1˙ 65535	

ṿ w ~ Â Ţ ~ w ч ľ

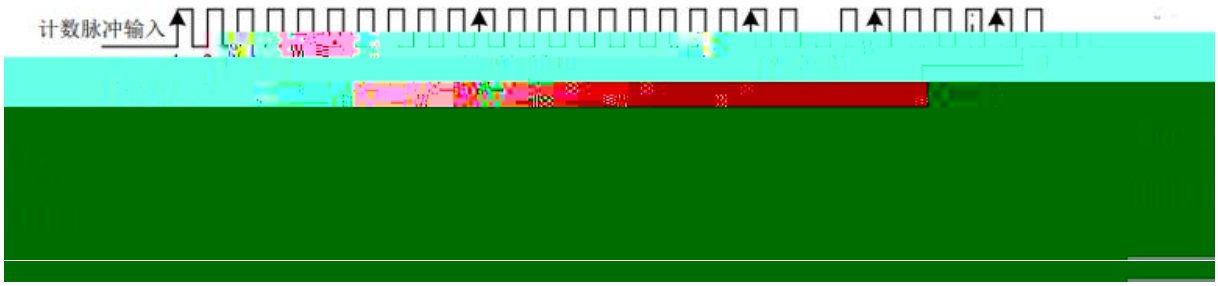
˘ ˋĒ˜

ק ~ Lˆ w 25~ ˇ ضِ ll ˇ ą DI5 ₀ Â

ẏ ⌠ ẏ P09.08 ˇ w DO ₣ l' ẏ ⌠ Ł ON Ḥ ˇ U ק Å Â

ẏ ⌠ ẏ P09.09 ˇ w DO ₣ l' ẏ ⌠ Ł ON Ḥ ˇ ק ˇ ⌠ l' ẏ Ł ק Å Â

ẏ P09.09 Ь G ẏ P09.08 Â Й ₪ ч ẏ ⌠ ĭ ẏ ⌠ w ₪ Â



GF630N ɒ ˇ ĭ ɣ w ˇ w ˇ ˆ ɣ Ь ч VF № ⁄ ˇ ɣ ĭ PID Â ч ˇ ɒ ч ẏ Â PLC ˆ ɒ ⁄ ... Â

P09.10	ɒ 0	₣ ∧ ẏ	0.0%
	₥	-100.0% 100.0%	
P09.11	ɒ 1	₣ ∧ ẏ	0.0%
	₥	-100.0% 100.0%	
P09.12	ɒ 2	₣ ∧ ẏ	0.0%
	₥	-100.0% 100.0%	
P09.13	ɒ 3	₣ ∧ ẏ	0.0%
	₥	-100.0% 100.0%	
P09.14	ɒ 4	₣ ∧ ẏ	0.0%
	₥	-100.0% 100.0%	
P09.15	ɒ 5	₣ ∧ ẏ	0.0%
	₥	-100.0% 100.0%	
P09.16	ɒ 6	₣ ∧ ẏ	0.0%

	ж	-100.0%: 100.0%	
P09.17	Ф 7	Ŧ Ʌ ų	0.0%
	ж	-100.0%: 100.0%	
P09.18	Ф 8	Ŧ Ʌ ų	0.0%
	ж	-100.0%: 100.0%	
P09.19	Ф 9	Ŧ Ʌ ų	0.0%
	ж	-100.0%: 100.0%	
P09.20	Ф 10	Ŧ Ʌ ų	0.0Hz
	ж	-100.0%: 100.0%	
P09.21	Ф 11	Ŧ Ʌ ų	0.0%
	ж	-100.0%: 100.0%	
P09.22	Ф 12	Ŧ Ʌ ų	0.0%
	ж	-100.0%: 100.0%	
P09.23	Ф 13	Ŧ Ʌ ų	0.0%
	ж	-100.0%: 100.0%	
P09.24	Ф 14	Ŧ Ʌ ų	0.0%
	ж	-100.0%: 100.0%	
P09.25	Ф 15	Ŧ Ʌ ų	0.0%
	ж	-100.0%: 100.0%	

Ф ϒ ِ ِ ِ ' ƀ ч à ƀ ч VF № ۱ à ƀ ч PID

Ê$ØÃ ж Ĭ p "

7.10 V/F └ ǐ 1 ǎ P10

P10.35	w	ǂ ∧ ẏ	ǽ w
	ǽ	0.1kW˙ 1000.0kW	
P10.36	∧	ǂ ∧ ẏ	ǽ w
	ǽ	1V˙ 2000V	
P10.37		ǂ ∧ ẏ	ǽ w
	ǽ	0.01A˙ 655.35Aˆ ǐ ǩ w <=55kW˜ 0.1A˙ 6553.5Aˆ ǐ ǩ w >55kW˜	
P10.38		ǂ ∧ ẏ	ǽ w
	ǽ	0.01Hz˙	
P10.39		ǂ ∧ ẏ	ǽ w
	ǽ	1rpm˙ 65535rpm	

ː w ч ǎ ˘ VF L L˘ ǰ‰ ‰

˜ ǎ Â

ч VF L ˘ ǎ ˘ ‰ ˘ Ь

ǎ ˜ Ⓟ Â

P10.50	□	ǂ ∧ ẏ	ǽ w
	ǽ	0.001 ˙ 65.535 ˆ ǐ ǩ w <=55kW˜ 0.0001 ˙ 6.5535 ˆ ǐ ǩ w >55kW˜	
P10.51	□ D	ǂ ∧ ẏ	ǽ w
	ǽ	0.01mH˙ 655.35mHˆ ǐ ǩ w <=55kW˜ 0.001mH˙ 65.535mHˆ ǐ ǩ w >55kW˜	
P10.52	□ Q	ǂ ∧ ẏ	ǽ w
	ǽ	0.01mH˙ 655.35mHˆ ǐ ǩ w <=55kW˜ 0.001mH˙ 65.535mHˆ ǐ ǩ w >55kW˜	
P10.54	□ ǐ ˙ Ь	ǂ ∧ ẏ	ǽ w
	ǽ	0.1V˙ 6553.5V	

P10.50~10.54 □ ǎ ˘ ˚ □ ː Ψ ˪ № ǎ ˘ p №

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Ь ă ˘ ĭ ˗ ˘ ғ ľ

Ŀ Â ч ľ Ŀ P10.50~10.54 4 ɷ ă ˘ ľ

Ŀ ˗ P10.54 ĭ ɾ Ӣ'

1˜ ĭ ˗ Ƽ Ke˘ Ӣ' E=(Ke* *2*pi)/60

2) ĭ ˗ Ƽ E'(V/1000r/min)˘ Ӣ' E=E'* /1000

3) ɣ ɳ ɷ ă ˘ Ӣ' E=P/(1.65*I)

ì Ţ˘ ч (rpm)˘ P ч w (w)˘ I ч (A)

ľ Ŀ ₹‰ ĭ ˗ Ƽ A064 ҏ˘ Ӟ˜ ˗

Â

Ќ w ۸ ˘ ĭ ֆ Ψ ˗ Ќ P10.50~10.54 ă ų˘ ą

Ţ Â

ɣ ă ˘ ˝ ˜ ɣ ۸ ˪ w Â

P10.61	ֆ Ⅱ	₹۸ų	1024
	ѫ	1˙ 65535	

ABZ ֆ Ⅱ Â

ضِ D ֆ L Ӣ˘ ֆ Ⅱ ˘ Ղ ↕ Ь Â

P10.62	ֆ ҂	₹۸ų	0
	ѫ	0	ABZ ֆ
		1	Ḡ
		2	ĭ ۸ ֆ
		3	Ḡ
		4	Ḡ

GF630N ֆ ҂˘ Ь ֆ Ь PG ۷˘ ą PG ۷ Â ì Ţ˘ ˜ 2 ֆ Ţ к ₩ Â PG ۷ U˘ ’ P10.62˝ Ղ ↕ ĭ ֆ˜ Ь Â

Ŧ ʌ ų 0

0 ƀ

P10.71

11 ƀ

ƹ

P21.03	₰ 2	₹ ∧ ụ	20.0s
	₥	0. 0s˙ 6500.0s	
P21.04	⁞ 2	₹ ∧ ụ	20.0s
	₥	0. 0s˙ 6500.0s	
P21.05	₰ 3	₹ ∧ ụ	20.0s
	₥	0. 0s˙ 6500.0s	
P21.06	⁞ 3	₹ ∧ ụ	20.0s
	₥	0. 0s˙ 6500.0s	
P21.07	₰ 4	₹ ∧ ụ	20.0s
	₥	0. 0s˙ 6500.0s	
P21.08	⁞ 4	₹ ∧ ụ	20.0s
	₥	0. 0s˙ 6500.0s	

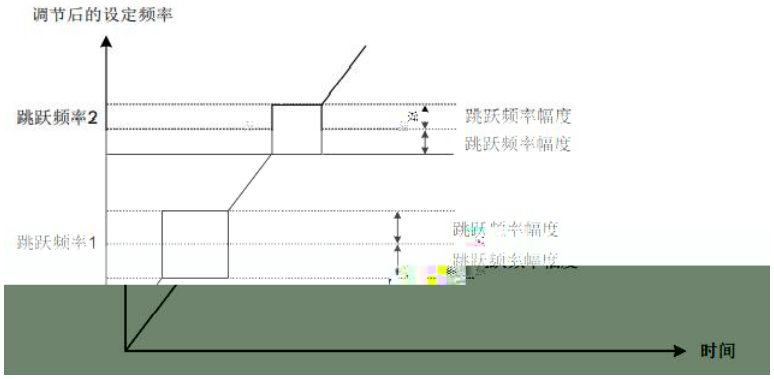
GF630N ᴸ 4 ₰ ⁞ ˇ №≠ ч P08.17\P08.18 ₿ 3 ₰ ⁞ Â
4 ₰ ⁞ ʯ ɳ ˇ ă P08.17 ɛ P08.18 ˜ Â w
~ DI Ь ˇ ˆ Ү ® 4 ₰ ⁞ ˇ ĺ ᵣ ą ă w
P03.01˙ P03.05 Ţ ˜ Â

P21.09	1	₹ ∧ ụ	0.00Hz
	₥	0.00Hz˙	
P21.10	2	₹ ∧ ụ	0.00Hz
	₥	0.00 Hz˙	
P21.11		₹ ∧ ụ	0.00Hz
	₥	0.00˙	

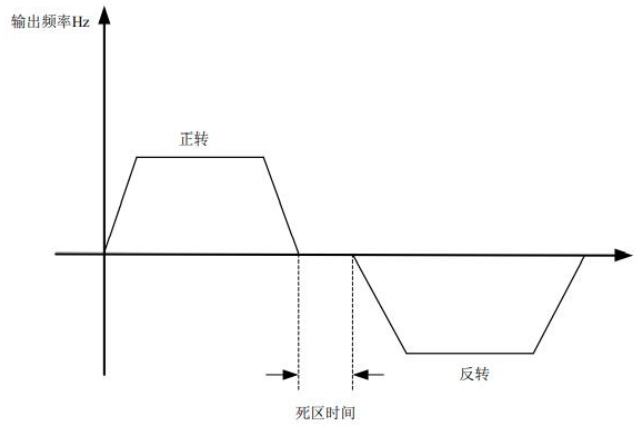
ضِ ₥ ṗ ˇ Ψ ضِ Â
ˇ ˆ Ү ą ĩ ح ¨ Â

GF630N ˆ ҥ ѡ ˇ ҥ ѡ ₺ ч Ơ ↕ w ŭ Â
ĭ ∧ ˇ ă Й ұ Â

ˇ ˋE˜ www.gdetec.com



P21.12	ǐ ٧	ǂ ٨ ٧	0.0s
	٭	0.00s˙ 3000.0s	



ǐ ڪ ǐ Ţ˘ ض ǂ 0Hz ˘ ٭ '

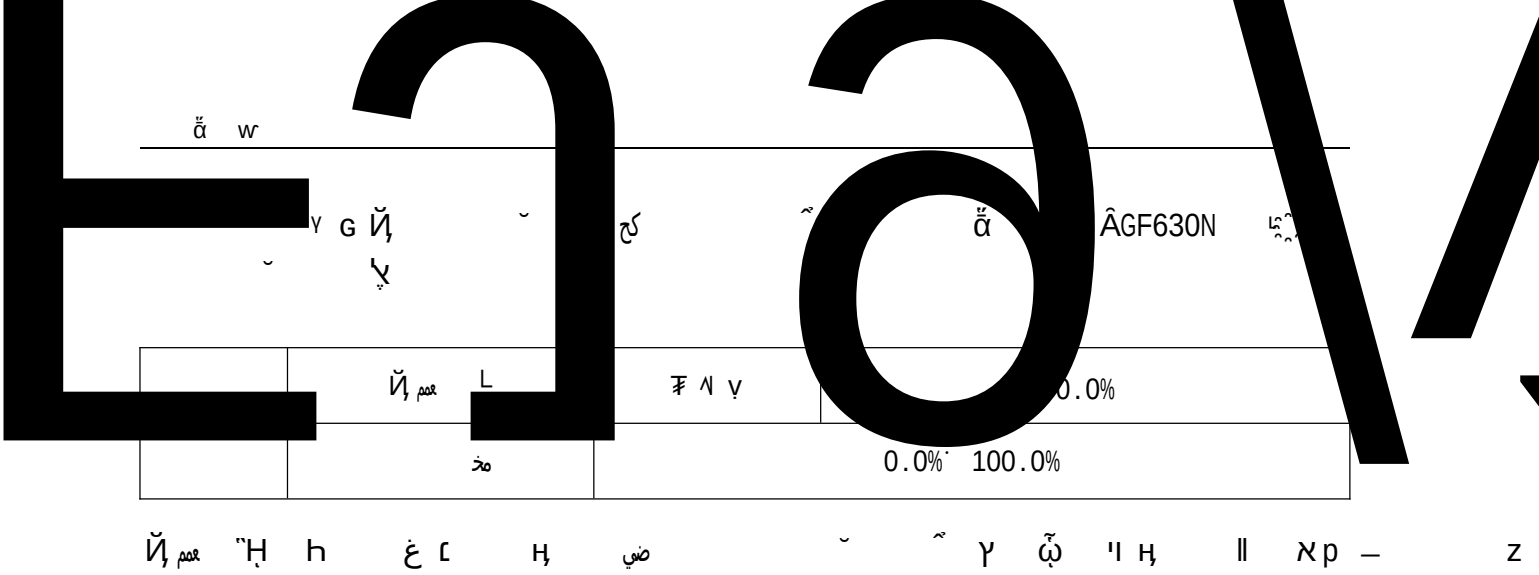
P21.13	ǐ └ą		ǂ ٨ ٧	0
	٭	0	¯Ḥ	
		1		

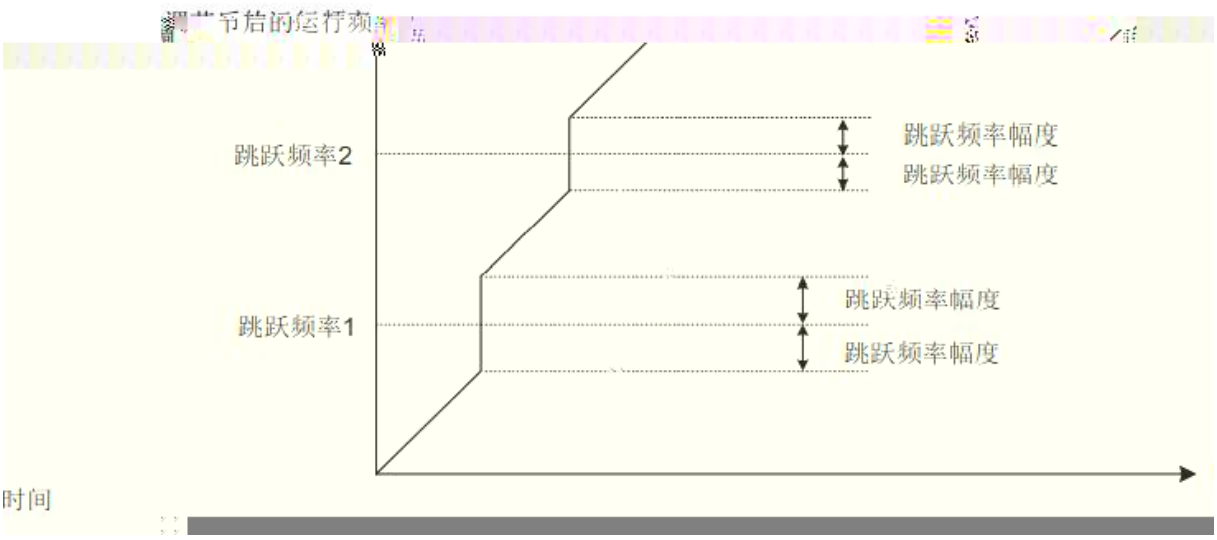
ǎ ǐ ڪ Ղ¯Ḥ ض ǐ ˘ ض Ь¯Ḥ ǐ ۺ ˘

P21.13=1 Â

P21.14	٧ ɢ Й		ǂ ٨ ٧	0
	٭	0	٢ Й	
		1	Å	
		2		

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P21.25	४ 1 Ь ४ 2 Ⓟ	₹ ∧ ṿ	0.00Hz
	ॐ	0.00Hz˙	
P21.26	⋮ 1 Ь ⋮ 2 Ⓟ	₹ ∧ ṿ	0.00Hz
	ॐ	0.00Hz˙	

W ضي ч 1˜ ғ DI Ⓟ ४ ⋮ Á ~ Ⓟ

↕ ⋮ 2 $#Ÿ`Ô — $#• Ñ ø$ Ê

P21.31	κ ⌠ ₣ 1	₣ ∧ ỵ	0.0%
	مخ	0.0% 100.0% ~	
P21.32	κ ⌠ ỵ 2	₣ ∧ ỵ	50.00Hz
	مخ	0.00Hz	
P21.33	κ ⌠ ₣ 2	₣ ∧ ỵ	0.0%
	مخ	0.0% 100.0% ~	

Ĩ ح ₣ ˘ ضي κ ⌠ ỵ ₣ مخ ṗ ˘ w DO

		2	AI2
		3	AI3
		~ 100% P21.44	
P21.44		₣ ∧ ų	0.0Min
	₰	0.0Min˙ 6500.0Min	

ă ĭ ↄ w Â

P21.42 w ˘ ĭ ↄ Ω˗ ˘ ⌡ U˘ ĭ ↄ ˗ Å ˘ □ w DO ₣ ON Ḥ˝ Â ĭ ↄ Ω˗ ˘ ɾ 0 ˘ ▼ φ ˝ P23.20 Â P21.43 à P21.44 ˘ ∨ β ч № Â

P21.61	ą		₣ ∧ ų	1
	₰	0	Ь ą	
		1	ą	

Ω w ˘ ⋮ ĭ ↄ ₣ ˘ Ḡ ĭ ↄ Ь Â ĭ ↄ ɢ ˘ ĭ ↄ ˝ ₣ ₰˘ ’ Ь ¨Ḥ ˘ ϒ ĭ ↄ E040˘ ĭ ↄ Å Â

7.12 P19

P19.30	AI1 ∧ 1	₣ ∧ ų	₣ ∧
	₰	-10.000V˙ 10.000V	
P19.31	AI1 ∧ 1	₣ ∧ ų	₣ ∧
	₰	-10.000V˙ 10.000V	
P19.32	AI1 ∧ 2	₣ ∧ ų	₣ ∧
	₰	-10.000V˙ 10.000V	
P19.33	AI1 ∧ 2	₣ ∧ ų	₣ ∧
	₰	-10.000V˙ 10.000V	
P19.34	AI2 ∧ 1	₣ ∧ ų	₣ ∧

	ض	-10.000V 10.000V	
P19.35	AI2 ا 1	∓ ∧ ụ	∓ ∧
	ض	-10.000V 10.000V	
P19.36	AI2 ا 2	∓ ∧ ụ	∓ ∧
	ض	-10.000V 10.000V	
P19.37	AI2 ا 2	∓ ∧ ụ	∓ ∧
	ض	-10.000V 10.000V	
P19.38	AI3 ا 1	∓ ∧ ụ	∓ ∧
	ض	-10.000V 10.000V	
P19.39	AI3 ا 1	∓ ∧ ụ	∓ ∧
	ض	-10.000V 10.000V	
P19.40	AI3 ا 2	∓ ∧ ụ	∓ ∧
	ض	-10.000V 10.000V	
P19.41	AI3 ا 2	∓ ∧ ụ	∓ ∧
	ض	-10.000V 10.000V	

w ˇ ~ AI ˇ ץ AI ~ο Ẓ Ь ڑ Â
w ă ∓ ∧ ˇ ∓ ∧ ụ ˇ Ψ ч ∓ ∧ U ụ Â ŵ ضي
شي Ь Â

ا ˇ ' ת כ ∓ ا ˇ ا ĭ כ ∓
ا ụ ˇ P23 AI ╠ ا ^ P23.21 à P23.22 à P23.23 ~ Â

ˇ ضي ɷ AI ~ ο Ɣ ~ ң ɷ ا ụ ˇ №≠ ' ụ Ь P23
ŭ ụ ˇ ‰ ~ ; ; w Ţ ˇ ↕ ĭ כ Ψ ˉ AI Ẓ Ь Â
G ا ė ĭ כ ا Ь ا ,,شي ˇ ^ ץ شي ˇ ą ĭ
כ ụ Ь ụ ŵ ˇ ץ AI1 ч ο ˇ شي Ѝ'
AI1 ا Ḥ ^ (2V ˇ)
AI1 ا ụ ˇ ~ w ă P19.30
P23.21 ụ ˇ ~ w ă P19.31
AI1 ا Ḥ ^ (8V ˇ) AI1 ا ụ ˇ ~ w ă P19.32
P23.21 ụ ˇ ~ w ă P19.33

AI2 ė AI3 ˘ ∕ β №≠ ч P23.22 à P23.23
-8V ė 8V ң ƀ ч

A01 ∕ 1 ₹ ∧ ų ₹ ∧
P19.42
ض 0-.4ض ه9

8 ï

ЧЭG ˘ ï ⅀ ˘ ⅂

ï ح Ð	E022	1 à ض ۱ 2 à ض	1 à ۱ 2 à
⌠	E026	1 à ⌠ v	1 à ą ă Δ . w Ḥ
ч 1	E027	1 à w DI ~ ч 1 Ḥ 2 à IO w ~ ч 1 Ḥ	1 à β 2 à β
ч 2	E028	1 à w DI ~ ч 2 Ḥ 2 à IO w ~ ч 2 Ḥ	1 à β 2 à β
⌠	E029	1 à ⁘ ⌠ v	1 à ą ă Δ . w Ḥ
	E030	1 à ï ح G P07.64	

L¬ E061 1à L¬ v G P08.44 1à ˜ L¬ P08.44 ч 0 ٨ ٮ

ٷ ٨ E100

		1 à ï ر ⌠ Ь	1 à ﻫ
		2 à ï ر	2 à Ղ
₣	E114		
		3 à ¯	3 à
		4 à ﺷ	4 à
		1 à ر ă Ь	1 à ر ă
		2 à ă	2 à ă
	E115	3 à ă P07.67 à	3 à '
		P07.68 Ь	ă
		ώ≠ β˘ P23.45	
		₰ Ḥ ˘ P19.45 1 ⌠ 7 ɣ ï	
		11 ɹ 12 ¨ 9 ' ˘	
		1 à P23.45=1˝ ر	
		ر ɹ PG ١ ﺷ Ь	
		2 à P23.45=3˝ ر Z Ḥ˝	
		3 à P23.45=5˝ ر Z Ḥ˝	
	E118	ﺷ	
		3 à P23.45=6˝ Z Ḥ˝ ï ɾ א o ɾ	

E202	1à¸ ß Ъ Ь	1à ß
	2à Ь	
	3à \ P14.00 Ь	
	3à ǎ P14 Ь	

$\frac{1}{n}$

9 Ь Ḡ Ī



1. ˜ f̈ ᴄᴋ ˇ ⁘ ⅄ Â
   ⅄ Â
2. ⊩ˇ Ⱶ ˇ ⅄ ˇ ₩ Â
   ⅄ Â
3. Ⓟ Ⱨ ᵡ ˇ ΰ ᷉ ʜ Uˇ ˆ Ḡ Ī à Â
   ⁘ φ ⅄ ⅄ Â
4. Ғ ʒ ¬ 2ˇ ˜ Ḡ Ī à ƀ Â
   ⅄ Â



1. ƀ à L à ¬ ⁘ ᴝ CMOS ˇ ą ≠ Â
   ˇ ˆ Ψ ᵡ ⁘ Â
2. Ţˇ ˜ f̈ ï̈ ⅄ Â
   ⅄ Â
3. Ţˇ ˜ Ḥˆ Â
   Ψ ᵡ Â

9.1 Ḡ Ī ɇ

ɢ f̈ ᴄᴋ ʐ Ь ... ĩ ᵐᵐ ჯˇ ʏ ί̈ ʒ Ь
ï̈ Â f̈ ᴄᴋ ą ị̈ ˇ à à ɔˇ ʏ ï̈ f̈
ᴄᴋ ṗ ˝Ḥᴄᴋ Ð . ᵡ ˇ ˆ Ψ f̈ ᴄᴋ ΰ Ɣ Âᵡ ˇ ч ą ᵐᵐ ჯ
ˇ ض à ą Ţ f̈ ᴄᴋ ɇ ˆ Ɛ ɷ ₩ ˜ Ḡ
Ī ⅄ № Â

9.2

ч ᴝ f̈ ᴄᴋ ΰ ˇ Ḡ ˇ f̈ ᴄᴋ ą ث ˇ f̈ ᴄᴋ
ˇ ṗ Й ˈ

	ṕ	∞≠ ‰
	1. à 2. à r	1. > 40Ņ Å ٧ < 95%˜ o 2. ٤˘ à r
' ↓	1. 2. Ǐ ح r	1. ˘ 2. r ˘ كل
Ǐ ح r	1. ˉ à ٦ 2. كل 3. à	1. ˉ à ∓ o 2. كل à ٤ 3. ھ ˉ
	1. ˉ à ٦ 2. كل	1. à 2. à Ь ش˜ كل
˜ à ∓ ă	1. ˜ ١ 2. ∓	1. ˜ ١ ض ڂ ṕ 2. ∓ ض ٧ ٢ Ѝ

9.3

ч ↄ Ǐ ح Ŭ ˘ Ḡ ỉ ˘ ^ ٦ ٢ ṕ˜

Ǐ ح ˘ ṕ Ѝ '

	ṕ	
К	К ٦ ˉ	
w ¨Ḥ ح Ð	à	١ ŋ
ح	à	١ ŋ
	٦ Ǐ à ٤	
	كل ٤ ˉ ٦ 2'	1¨ 2¨
PCB	à	١ ŋ

9.4 Ð

Ǐ ح Ţ ٤ ڂ Ð˘ ỉ ث Ь ą Ǐ Ḡ Ī ' ℗

˜ Â ح Ð ₩ ث Ѝ'

' ą 5 U Â Ǐ ح G ˜ β˘ Ꮋ ض ↕

Ŭ كل Ǐ Â м È˜ ʟ Ð Â

˘ È˜ ' www.gdetec.com

' ą 5 U Â Ї ŗ ƀ ˘ м

ˋE˜ ˘ ˜ ŋ ﻳﺠ ₩ Ⱶ (400-0077-570) Â

' ﺙ ч ﺽ Й ↓ ƀ Й ą Â

^ 1˜ ' 40 Ņ'

^ 2˜ ' 80%'

^ 3˜ ' 24 / Â

9.5 Ь Ḡ ќ

Ї ᄀ ȳ U Ь ˘ ɣ Й Ң '

^ 1˜ ѿ Ї ᄀ ɢ à ˫ à ﺽ ˘ Ḡ Â

^ 2˜ Ї ᄀ Ь ˘ ∀ ₩ ɣ ᄀ ˘ □ Ї ᄀ

w Â ₩ ɷ Ї ∧ ᄀ ∧˘ ғ Ь ɢ 5 Â

ﺽ Ḡ ќ ṗ˘ ɣ Й ∧ ﻍ ˘ ǔ ₩ ќ '

ŵ Ь ƀ Ύ ą ₹ ‰ ą ǔ Â

Ŷ ¨Ң ˘ ќ à Â

ŷ ɢ Ḡ Ь ˛ ǔ Â

Ÿ Ї ᄀ ɢ w ǔ Â

Ź ɢ à à ŗ à ﺽ à à à à ∧ ï Ь ̂

ȥ ᄀ ﺵ Â

∧ ą Ḡ ќ ˘ ˋE˜ ˝ ʟ ẽ ќ Ⱶ Â

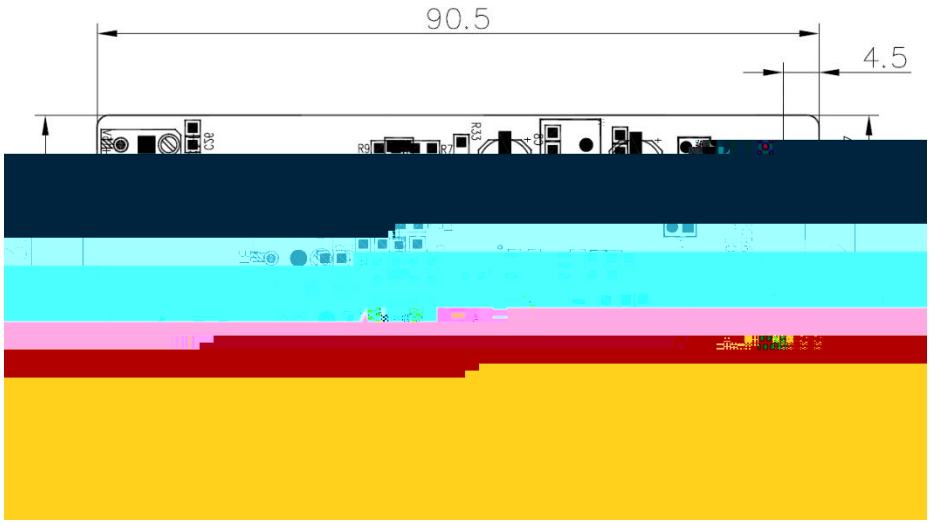
B1 PG ٧

B1.1

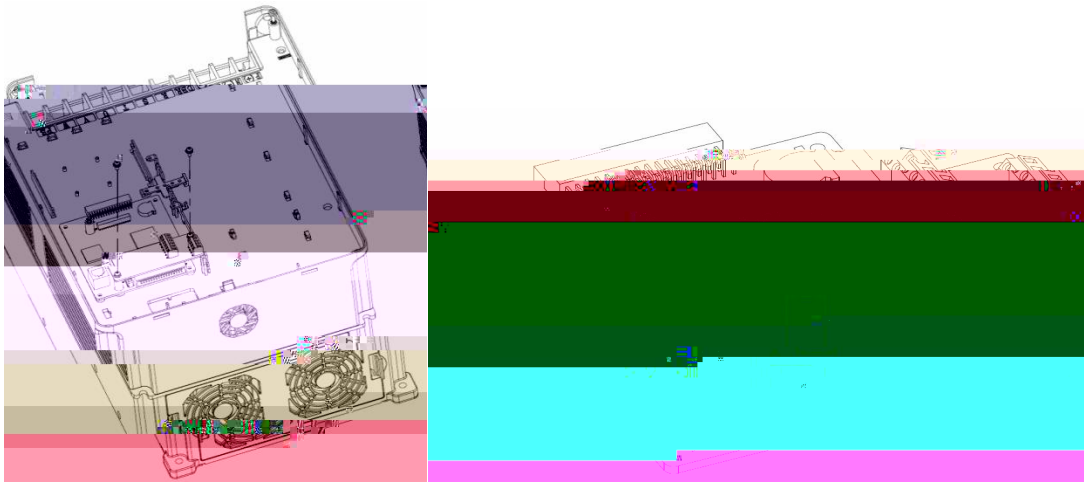
1.1.1

PG ٧ GDHF-BPGX1 Â

1.1.2



PG ٧



PG ٧

Hu

1>.PG

2>.

3>.

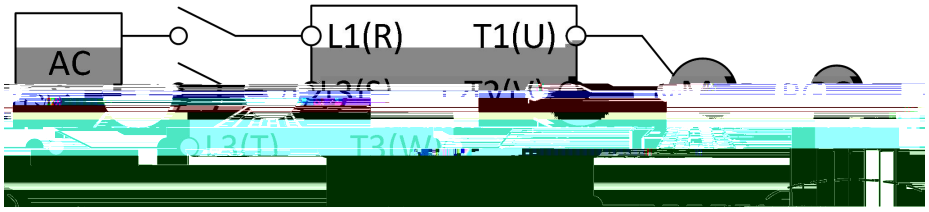
4>.

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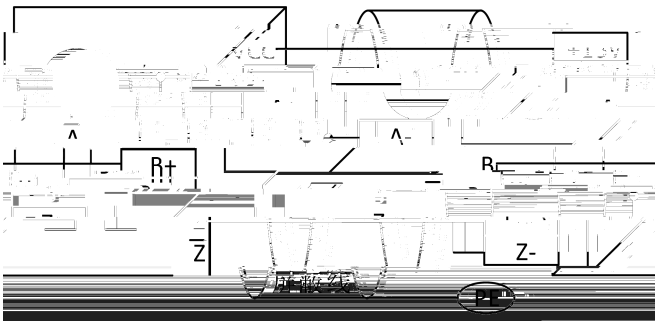
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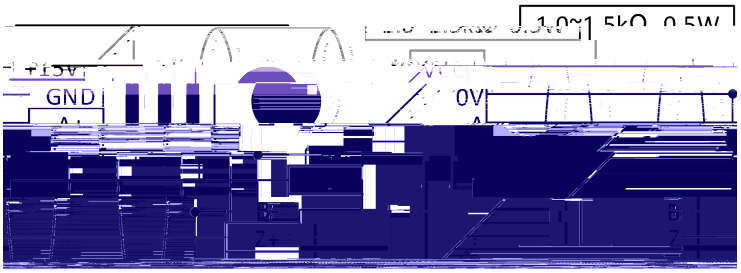
1.2.4 ﺪ ﺪ



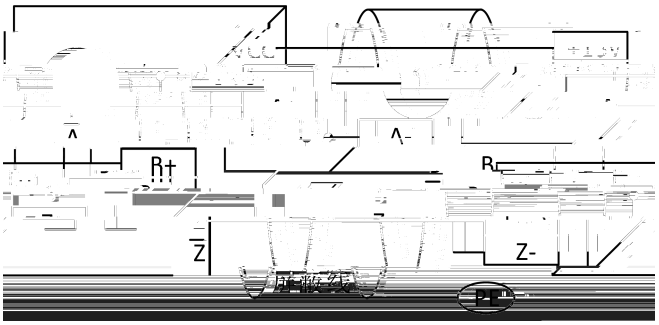
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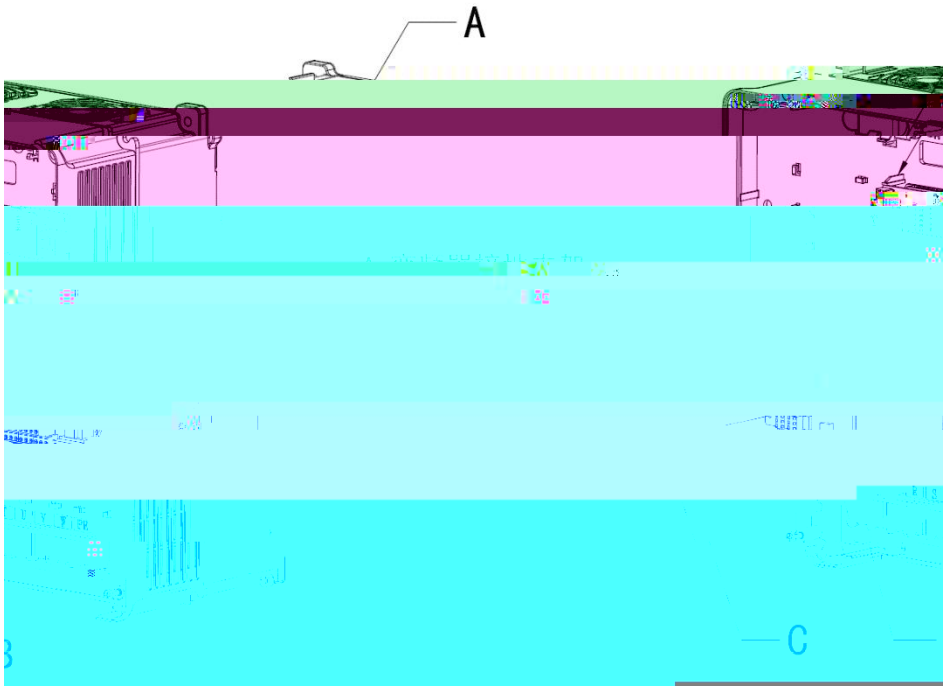
1.3.2



1.3.3



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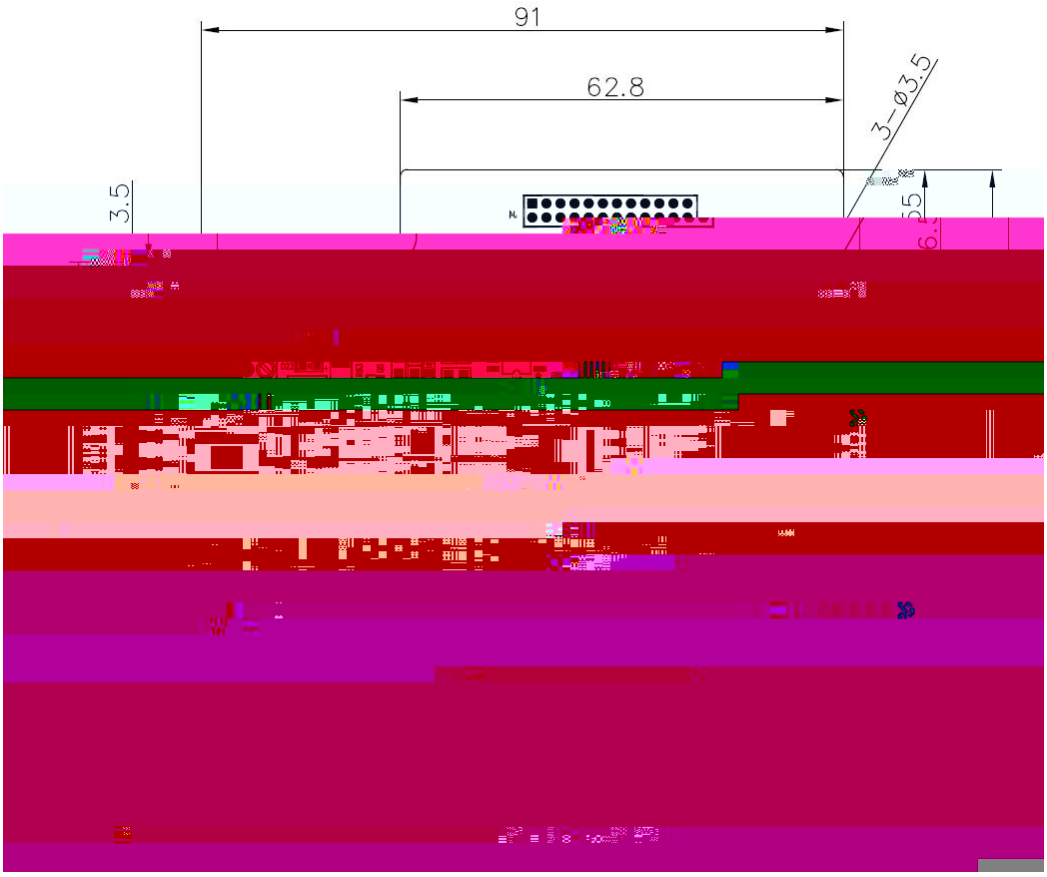
B2.1 IO \ o

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	DI7-PW	~ 7	
	DI8-PW	~ 8	
	DI9-PW	~ 9	
	DI10-PW	~ 10	
∓	DO2-PW	∓ 2	ώ ˘ ǐ ∓ ∓ ∧ مخ' 0V~24V ∓ مخ' 0mA~50mA
	DO3- PW	∓ 3	
~	AI3-GND	~ 3	~ ∧ مخ' DC 0V~10V ~ ' 22k ß

˘ PW Ь 24V ;

B2.2



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