GF630N03

1.02

╠

ΐ́ ح ̣ □ ˘ ̣ ΐ̀ ∫ า ห ᴸ ŋ ȁ ⊢ ̣

ΐ́ ح GF630N03 ↓ № Ғ ΐ́ ح˘ ΐ̀ ∫ Б ѿ

Â

ห ̃Ḥ№ ΰ̈ ᵒᵒ ج ∨ ΐ̈ Ḡ ą ġ ŋ˘ ضي ą ӊ ╠˘

й Â

ą й ห ᵒᵒ ج ΰ̈ Ð˘ ą U ⊢ ̣ Ḡ ˘ ɣ ˙ U ΐ́ ح

ḱ غ ą Â

ɢ ΐ́ ح ą ضي ˘ ̀Ẽ̃ ضرپ WHυ

ي˘ Ӟ ̃ ь ̀Ẽ̃ ڤU ⊢ Ţ ˘ า ห ⊢ Â

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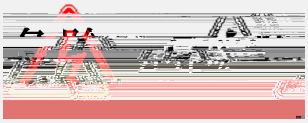										
ضي	Ⅵ №	U	U ϖ	ṗ		كح Π	Π	Π	Π	

Ữ ƀ

ᵐᵐ ج Ữ ƀ Ð Ữ ƀ ˘ Ữ ȁ Â
ᾷ ضي ȁ ᾷ ȁ شي ȁ شي ȁ ˗ شي Ữ ƀ Â
ᾷ ᵐᵐ ج Ữ 3 ɷ ˘ Ữ ˘ Ĥ غ Â
ᵐᵐ ج Ĥ ´ U ʼP ˘ ą ʳ Â
ƿ Ĥ ᵐᵐ ج ƀ ˆ ᵐᵐ ج ʒ ج ẘ Â

Ⱶ ą Ƒ ʒ ⅵ قمم قمم ƀ ᵐᵐ ج ˛
ᵐᵐ ج ˘ Ⱶ ᵐᵐ ج ʳ ˘ ᾷ ᵐᵐ ج Ð ˘ ɿ ↕ ǐ ʜ
ˇ ˛
ᵐᵐ ج Ⱶ ˘ Ǔ ʳ ˘ ṕ تخم ˘ ɿ ↕
ǐ ʜ ᵐᵐ ج شخ ˇ ˛
ǐ ˘ Ǔ ˗ 2 Å Â

╟ Ⱶ ה ᵐᵐ ج ą й غ ŋ Ƕ ˛
Ĥ ᵐᵐ ج ˛
Ĥ ˗ ᵐᵐ ج Ð ǐ ˝Ḥ كح Ð نه غ ˛
˜ ضي شي شي ᵐᵐ ج ˛
ᵐᵐ ج ضي ʳ Ţ ˘ ʳ ˛ ˛ ȁ
غ ˘ ˜ IEC ‰ غ ضر
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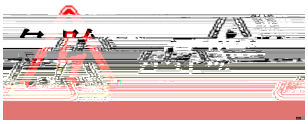
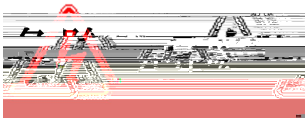


Ĥ Ƒ ʒ ˗ 2 ᵐᵐ ج ȁ ȁ Ḡ Ī ȁ Ð ˛
P/±Ǿc'r sÄNq @ 9OÅ• & ¼ ȁ Ƒ Ð ˘ ⁷ ǐ ⌠



Ͱ Ϝ ʒ ̣ 2 ȁ ȁ Ḡ Ī ȁ Ð ̣

˜ ضي Ӣ ƀ ʒ ˘ ʅ ↕ Ψ ˧ Â

╟ ˘ Ⓟ Â Ⓟ U ṗ φ ˧ ˘

10 № ʿP ƀ Â

Ͱ Ḡ غ ̊ ج ضر ˘ ʅ ↕ Ψ Ɗρ ˧ Â

ˆ ESD˜ ˘ ƺ ƀ ˘ ϣ̃

شخ ̊ ج ṗ Â

Ͱ ˜ ∫ ̊ ج Ŧ ˘ ʅ ↕ Ψ شخ ˘ Ǖ

Â

˜ Ƀ ˘ Ͱ Ḡ ˜ ƨ Ƀ

Ţ˘ ѿ̃ ї ɾ ج r ˜ Ţ˘ ʅ ↕ شخ ˻

˜ ą كح L Ω Å˘ ʅ ↕ شخ ˻

Ḡ Ī

⁘ ╟˘ غ ج ˘ ھ˘ ̈Ḥ ˼ Â

⁘ ╟˘ ˘ ѿ̃ شخ ǖ ˻

⁘ ˘ ج ˆ Ψ ˼ ƀ˘ Â

⁘ U˘ ˜ ج ˘ ʅ ↕ √ ˻

Ҥ ضي Ӣ̧ K v ˘ ʅ ↕ √ ˻

Ҥ ضي Ӣ̧ √ غ ج K v Ð˘ ʅ ↕ √ ˻

ˋ يج ˆ̃ ƀ ‰ ȁ ج , ɣ ѿ̃ ˆ 2 H ˻

ƀ ج ʒ ‰ عج ˘ ѿ̃ Â

Ƕ

1˜ Ḡ

ضي Ţ ψ ͣ ͣ Ḡ ضر r ˘ ą Ḡ ˆ RCD˜

ح̃ RCM˜ ˘ ą ǐ ǰ Ḡ ˆ RCD˜

ح ˆ RCM˜ Â

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

Ϙ ˘ غ ˆ ₮ غ ضر ˘ ǐ L

Ғ RCD˜ ▼ φ RCD Â

2˜

ضي ą U ʿP ą ˘ Ạ ˘ غج

شخ ǐ ح Â ƀ ǐ ح ˘ 500V

ɿ قمم ǵ ˘ Ḡ ƀ ɢ 5M ß Â

3˜ ɿ ṿ ɣ ą

ضي й Ţ ̈Ḥ ƀ ɿ مخ ɥ ą ǐ ح˘ ǐ ح ṕ شخ Â

˘ ą ˆɿ ɿ ɿ ǐ ɿ U ˜ ⌠ ǐ ح Â

1 ᵒᵒ ج Ḥ 1
1.1 ĭ ᵒᵒ 1
1.2 Ð 3
1.3 5
1.4 ĭ 6
1.5 ᵒᵒ ج 6
1.6 h 8
1.7 ĭ كح ǖ 8
1.8 ĭ كح Ữ à غ 8
2 9
2.1 يح 9
2.2 10
2.3 11
2.4 ~ ₮´ كح 11
2.5 L 11
3 ƀ 12
3.1 ĭ كح à Ữ 12
3.2 ƀ h 13
3.3 15
4 ƀ 21
4.1 ƀ 21
4.2 LED ƀ 21
5 26
5.1 ᴍ 26
5.2 ╠ Ƕ 27
5.3 U ĭ ǎ Δ 27
5.4 ǎ 27
5.5 ǎ ɜ ĭ 28
6 ĭ كح ǎ 31
6.1 ǎ L P0 32
6.2 P2 32
6.3 ~ P3 35
6.4 ₮ P4 37
6.5 ĭ ǁ ~ P5 39
6.6 Ḡ ǎ P7 40
6.7 Ω Å L P8 47
6.8 ĭ P9 51
6.9 V/F ĭ 1 ǎ P10 54
6.10 2 ǎ P11 58
6.11 1 L P12 59
6.12 2 L P13 62
6.13 ǎ P14 65
6.14 PID شج P15 66
6.15 شج P16 68
6.16 P19 69
6.17 L P20 71
6.18 L ǎ P21 72
6.19 P23 74

7 ǟ w 77
7.1 ǟ └ P0 77
7 P2 78
7 P3 83
P4 91
7.5 ǀ ǁ ˜ P5 94
7.6 ǟ ǟ P7 97
7 ǟ └ P8 105
7.8 ǐ P9 120
7.9 V/F └ ǐ 1 ǟ P10 125
7.10 └ ǟ P21 126
7.11 P19 133
8 ǐ 134
8.1 ๆ 134
8.2 138
9 ƀ Ḡ Ī 139
9.1 Ḡ Ī غ 139
9.2 139
9.3 140
9.4 ɒ 141
9.5 ƀ Ḡ ḱ 141
A MODBUS ٧ : 142
A.1 MODBUS 142
A.1.1 143
A.2 خي ضر 146
A.2.1 ɯ / Ώ خي ضر 146
A 2..

GF630N03 ǐ ᵐᵒᵒ ج W̄

ᵐᵒᵒ	₮ [A]	[kW]	ᵐᵒᵒ
GF630N03-0R7-4+SW01	3.3	0.75	N1
GF630N03-1R5-4+SW01	4.8	1.5	
GF630N03-2R2-4+SW01	5.7	2.2	
GF630N03-3R7-4+SW01	10.2	3.7	N2
GF630N03-5R5-4+SW01	13.5	5.5	

ˈ

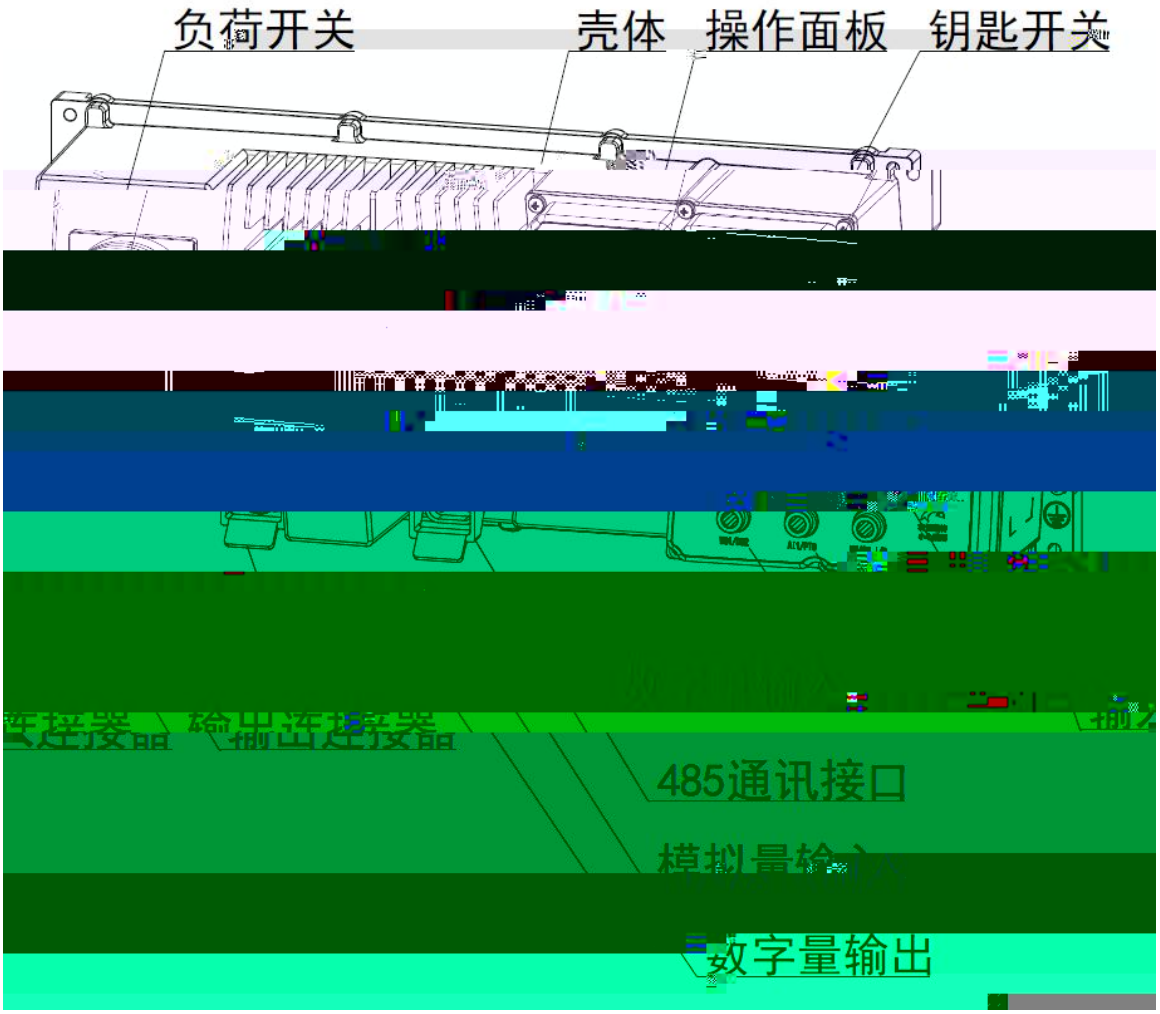
ˆ 1˜ ʐ ɥ ₮ 150% 5 № ˝Ḥ 1 № Â

ˆ 2˜ GF630N03 ↓ ǐ ᵓ ṗ ˪ ˥ ˝Ḥ˜ ɯ ⁘ ᵐᵒᵒ Â

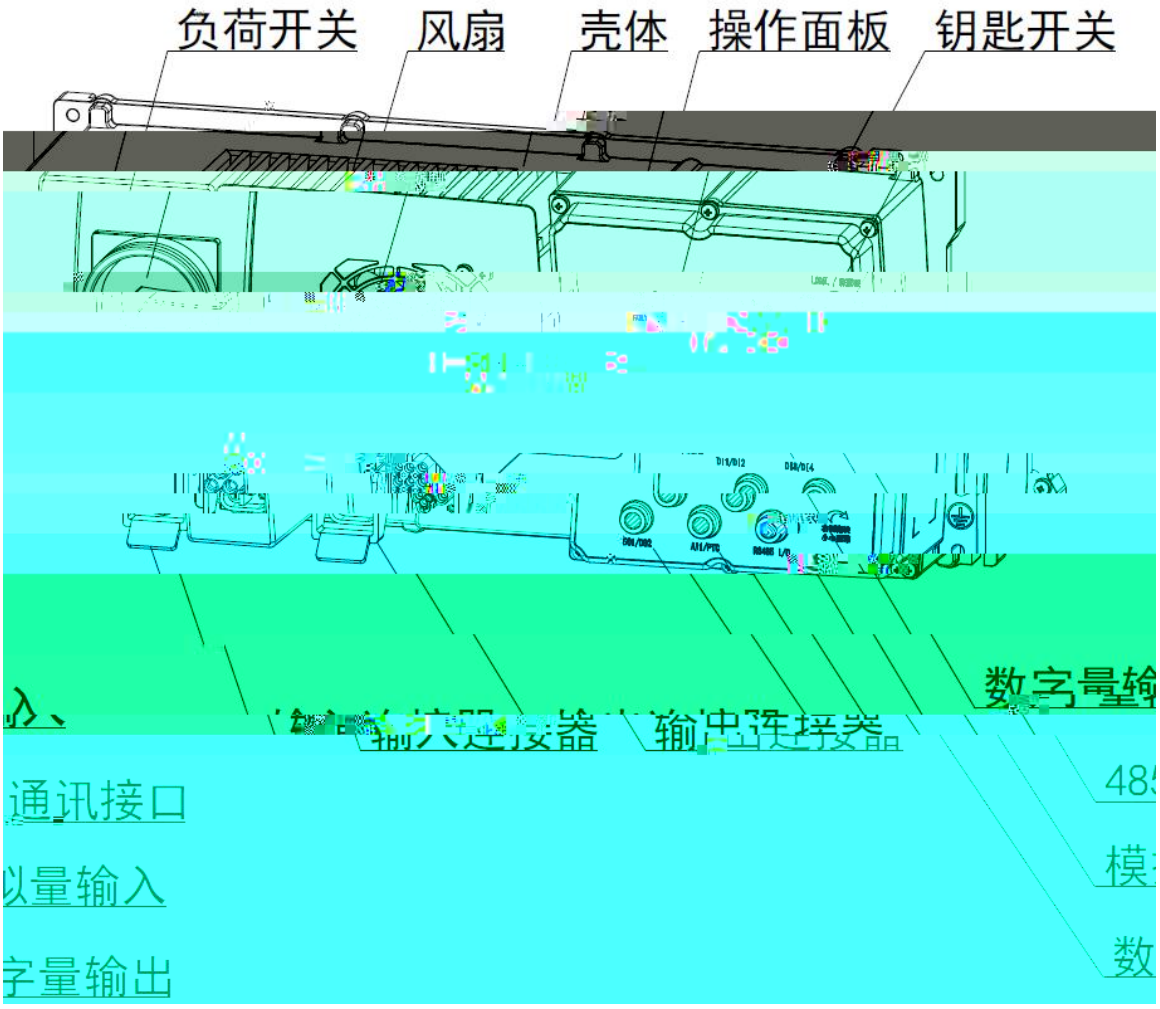
ˆ 3˜ ⁘ ᵐᵒᵒ ɢ ▯ ˘ ▯ ɢ й U ṗ Â

1.2 Ð

GF630N03 ↓ Ï ح ˝ Ḥ ᵐᵐ №≠ غ Â Ĭ ˛ ˙

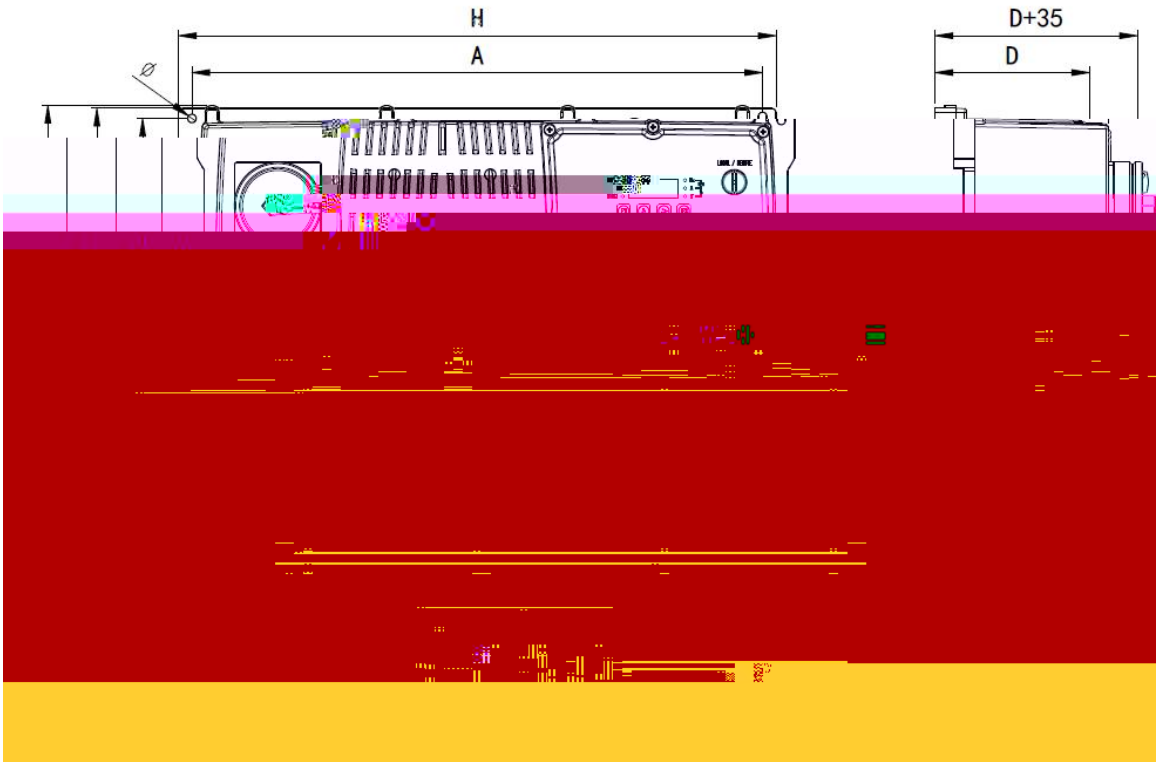


0.7-2.2kWᵒᵒ ج Ð ˆ ˛ ˜



3.7-5.5kW

1.3



N1 قمم' 0.7-2.2kW قمم ĭ ˆيح ˜

N2 قمم' 3.7-5.5kW قمم ĭ ˆيح ˜

1.4 ï

w	ˆ ﾄ β' mm˜				ﾄ β' mm			8.8	kg
	H	W1	W2	D	A	B	ô	M	
0.7kW									
1.5kW	445	215	210	115	425	195	ô 6	4-M5	6.8
2.2kW									
3.7kW	445	215	210	115	425	195	ô 6	4-M5	7.2
5.5kW									

	ʐ	̈Ḥ 150% 5 № 1 № 180% 5 № 1s
	ɤ ⁞	S ɤ ⁞
	˩ ˧	˩ ˘ ˩ Ḡ ₮ ˧
	L	SVC Ӣ˘ ˆ ˩ L ˘
	L˩	Ƨ˩ L˩ غ Å L˩
	ṗ PID	ˆ Ḃ ˆ ˧ ʐ ȁ ȁ ˜ L
	˩ w	/ ǐ ˩ ˘ ˩ ǐ ɤ ⁞ ˆ
		ˆ 16
	w	DIDO˙ DIDOˆ L˙ w ˙ ǐ كح ∫ U ˩ Å ˙ ˙ ˧ Ɯ ṗ ˘ ǐ كح ₮
˜ ₮	˜	˜ 4 ȁ ˜ 1 ˆ ˧ -10˙ +10V˜ ضي L
	₮	₮ 2 ˆ 2 ₮˜ ضي L
˩	ƀ	ˆ ˜ ǎ ˘ Ӟˆ ₮ ȁ ₮ ˧ ȁ ₮ ǎ ˙ Θ ǐ ǎ شخ Â ṗ ˙ Θ ˧ β Â
Ḡ w		Ḡ ȁ ˧ Ḡ ȁ ˧ Ḡ ȁ Ḡ ȁ Ḡ
ą شي		ƀ ǐ ǫ̈ ȁ غ
		˥ ɢ 1000 ˘ Â 1000 شي ˘ ɤ 100 ˥ 1% ˘ ˥ ˧ ǐ ₮ Â 3000 h ˧ ٣ Â
		-10Ṇ˙ +40Ṇ˘ 40Ṇ˘ ą ˘ ˧ 1Ṇ˘ 1% Â 50Ṇ h ˧ ٣ Â ˥ ɢ -10Ṇ˘ ɤ ˆ ɤ Â
		ɢ 95%RH˘ o
	Ũ	Ũ -20Ṇ˙ +60Ṇ Â ▯ ɢ ˘ Ũ ˧ ˘ ˧ ǐ كح 10-30 № ˘ ą ˜Ḥ Â
	ǐ ɪ o	o
		IP54
	˙ ˧	L ˙
		2
	كل	Ů 80db

1.6 ʜ

(1) ʒ ɯ̄ ⅄ ̃ ɑ̃ ʒ̈ ˘ ƀ Ḃ ˘ Ƀ ▯ ’

(2) ʐ ˘ ̃ ضي180% ’ Ӣ Ϙ ˘ ’

(3) ˘ ˘ ˘ ʐ ˘ ī ˘ Â

1.7 ī ʃ ʊ̃

ﻣﻮ [kW] ʊ̃ [kW]

GF630

2.2

ð O	ß	W
ლ	~ ʊ Ң Ь Ї ლ	ლ' ضИ Ⓟ ˘ Ǔ Ң
		Ḡ ლ' Ї ლ ƀ ˆ Ψ˚˚ ˘ Ч Ң Ү Ї Ǔ ˘ شش ’ ˵˵ Ḡ ლ Â
ლ	~ ʊ Ң Ь Ї ლ	غج Ǔ Ң ˘ Ḡ U ٧ r ლ ð Â
ლ	~ ʊ Ң ლ Ь Ї ლ	Ї ლ ƀ˘ ѽ ლ Ї ლ ⁘ ИӇ ƀ (Ь ٢ G Ѿ) Ѽ˗ ƀ Â
~ ლ	Ї ლ ~ ʊ	~ ʊ W غج ’ ~ ʊ ˘ غج ٧ Ї Ì شخ’ Ь ~ Ь Â
EMC ლ	Ї ლ ~ ʊ	⋮ Ї ლ D Ї ’ ٢ ɾ h Ї ლ D ˘ Ї ლ Ƶ Â
L˗	Ї ლ ∓ ʊ	ий ą L˗ ’ ضي ⋮ L˗ ˈP Â
∓ ლ	ضي Ї ლ ∓ ʊ غ Ң ˘ Ї ლ	Ї ლ ∓ ʊ Ѿ Ƈ Â Ь Ї ლ ˘ غج Ţ № Â Ì Ţ ˆ ضي غج Ţ˚˚ ˘ Ң ڑ ' a) شخ ˘ Ψ شخ Â b) ˚˚ ˘ Ї ლ Ḡ Â Ѿ Ї ლ غ 100m̆ ٧ ∓´ ლ Â
dv/dt ლ	ضي Ї ლ ∓ ʊ Ї ლ	ˆ dv/dt ლ˜ Ү Ḡ غ ⋮ Â
∓	ضي Ї ლ ∓ ʊ Ї ლ	∓ h ⋮ Â
	Ї ლ ∓ ʊ	Â
ρ Ь ضي Ї ლ ∓ ʊ ლ L ლ˜ ϖ ↕ Ψ Ї ლ غ L ლ شخ Â ρ Ї ლ ~ / ∓ (h غج) ´ Ƈ №˘ ˆ Ї ლ Â ˆ ლ˜ ą Â		

2.3

w	ᴄ̂ A˜ ᾰ̈	˜ / ₮ ˆ mm²˜ ˆ CEFR ᵢ 40%ᴌ ƀ˜	ᴄ̂ A˜ ƀ (AC-3)
0.7 kW	2.6	2.5	9
1.5 kW	4.0	2.5	9
2.2 kW	5.7	2.5	9
3.7 kW	10.2	2.5	12
5.5kW	15.0	2.5	18

2.4 ˜ ₮´ ᴄ

w	˜ ᴄ 2% ˜ ᵢ		₮ ᴄ 1% ₮ ᵢ	
0.7 kW	3.0A	4.67mH	2.6A	2.69mH
1.5 kW	4.8A	2.92mH	4.0A	1.75mH
2.2 kW	6.8A	2.06mH	5.7A	1.22 mH
3.7 kW	12A	1.17mH	10.2A	0.69mH
5.5kW	18A	0.78 mH	15A	0.47mH

2.5 ᴌ

ʼ ᴄ	ᴌ			
	ᵥ ˆ ß˜	ᵥ̂ ß˜	w ˆ KW˜ ˆ 30% Kc˜	w ˆ KW˜ ˆ 50% Kc˜
0.7 kW	750	100	ů 0.2	ů 0.35
1.5 kW	400	100	ů 0.5	ů 0.7
2.2 kW	250	78	ů 0.8	ů 1
3.7 kW	100	64	ů 2.0	ů 2.5
5.5kW	100	40	ů 2.0	ů 2.5

' 1 ȁ ʼ ᴄ ȯ ᴌ ᵢ ˝Ḥ˘ 100% ᴌ ʒ '
2 ȁ Kc' ᴌ ˘ 'P \l ɷ ƀ ᵖ'
3 ȁ ᴌ w ' ˆ Â

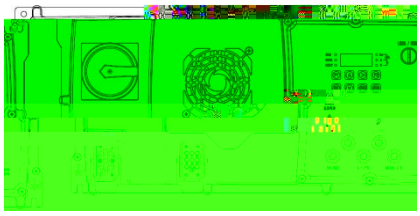
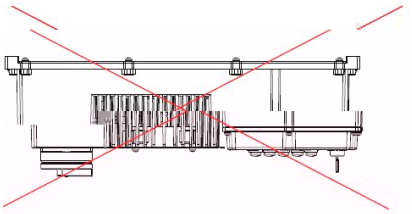
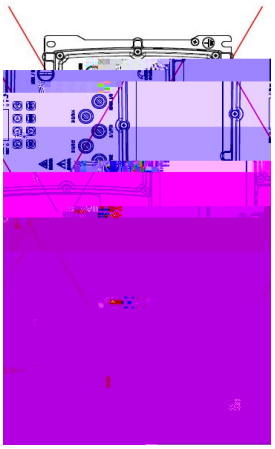
3 ь

3.1 ǻ ǻ

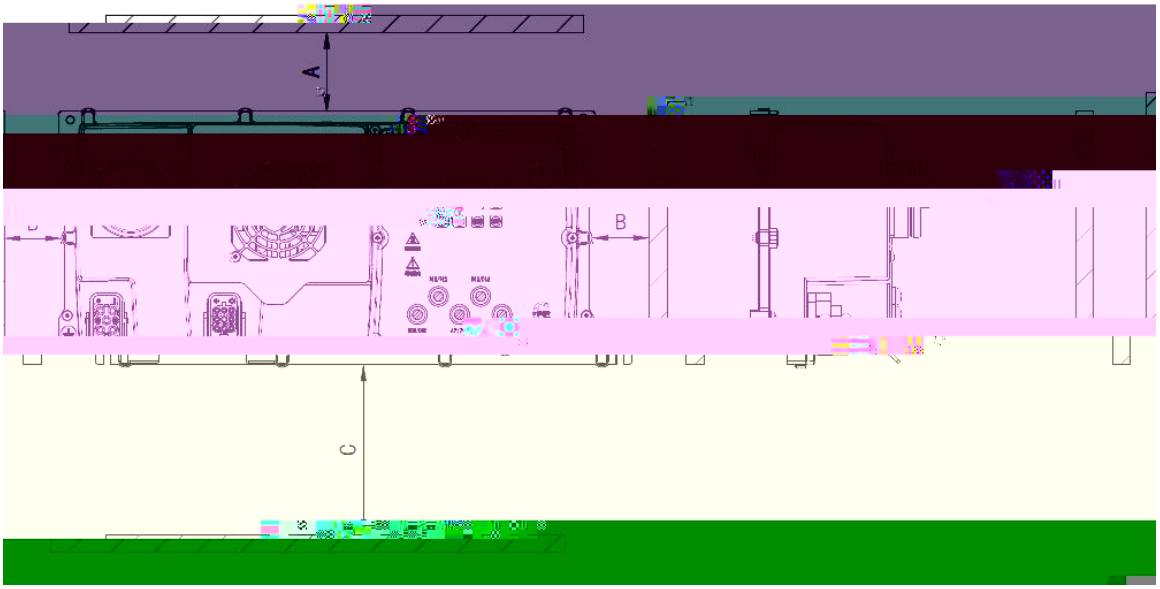
3.2 ƀ h

3.2.1 h

ч ʒ ≠ G ĩ كح ˘ ĩ كح ضي مهم h Â Й ß Â

3.2.2

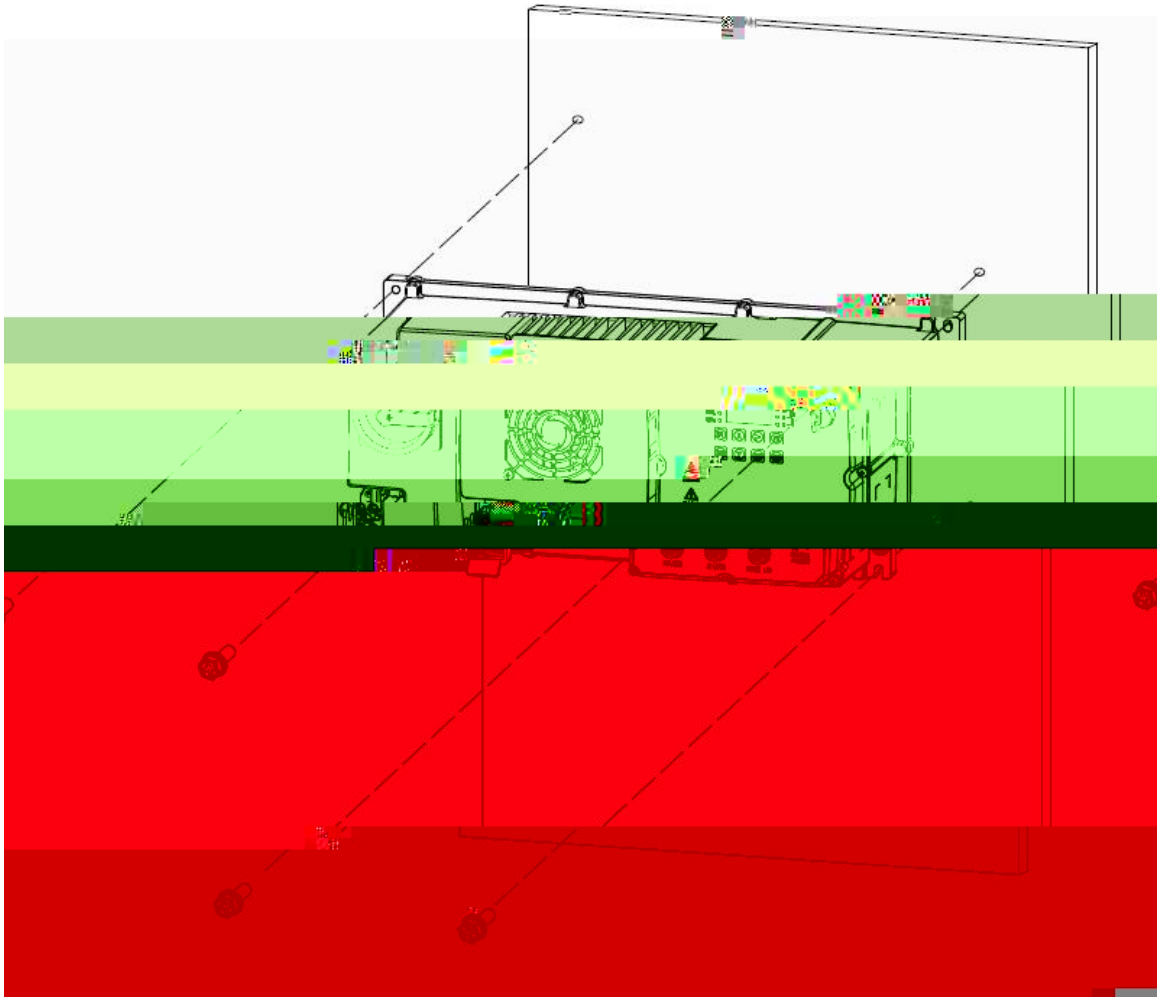


w	(ɣ ß' mm)		
0.7kW˙ 5.5kW	A ů 100	B ů 20	C ů 300

3.2.3

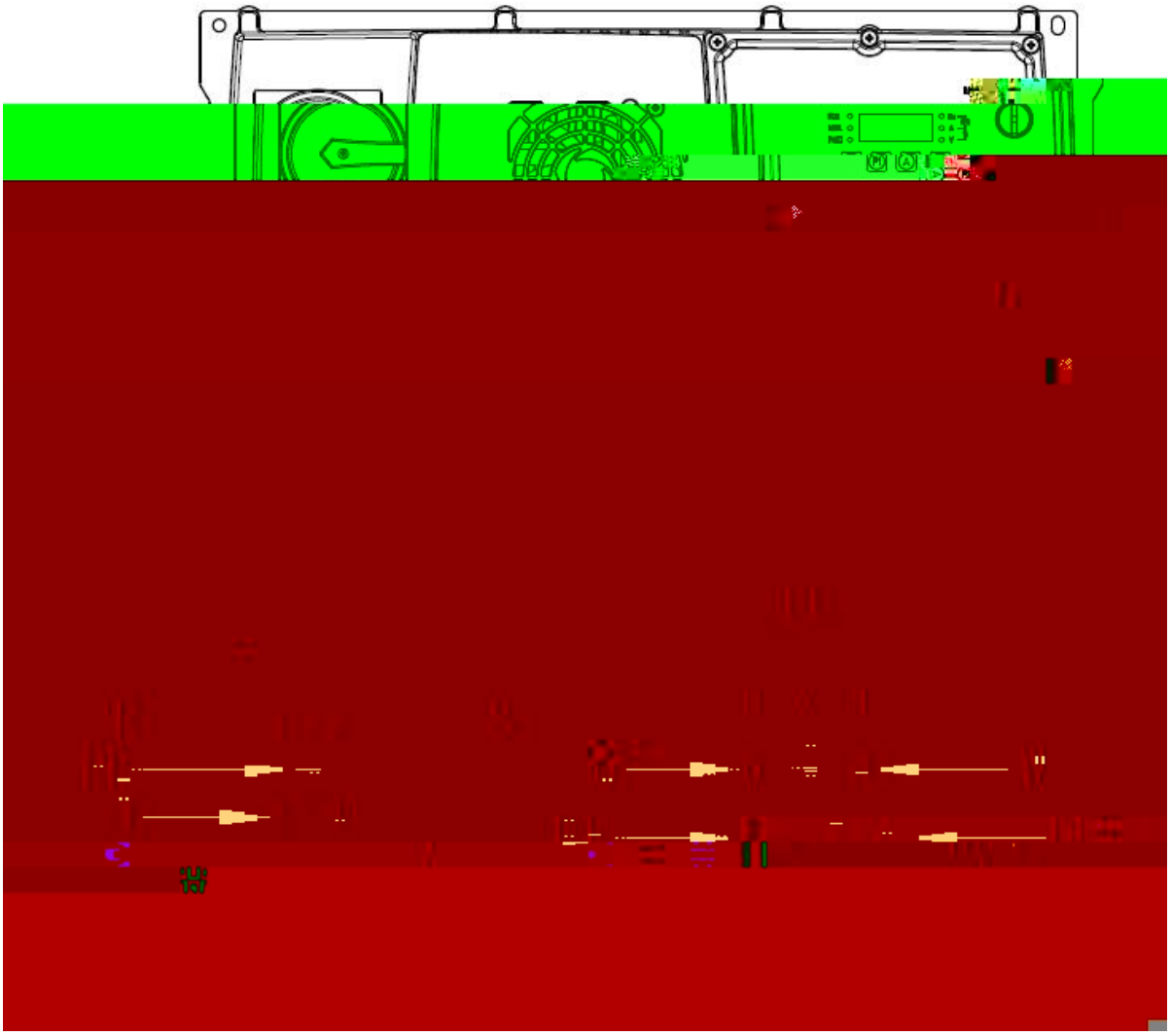
ь □ w ﻳﺸﻲ غ غج ˘ ɣ Ǐ ﺟ ﺟ Â

ˆ 1˜ ˆ G Ǐ ﻛﺞ ˜



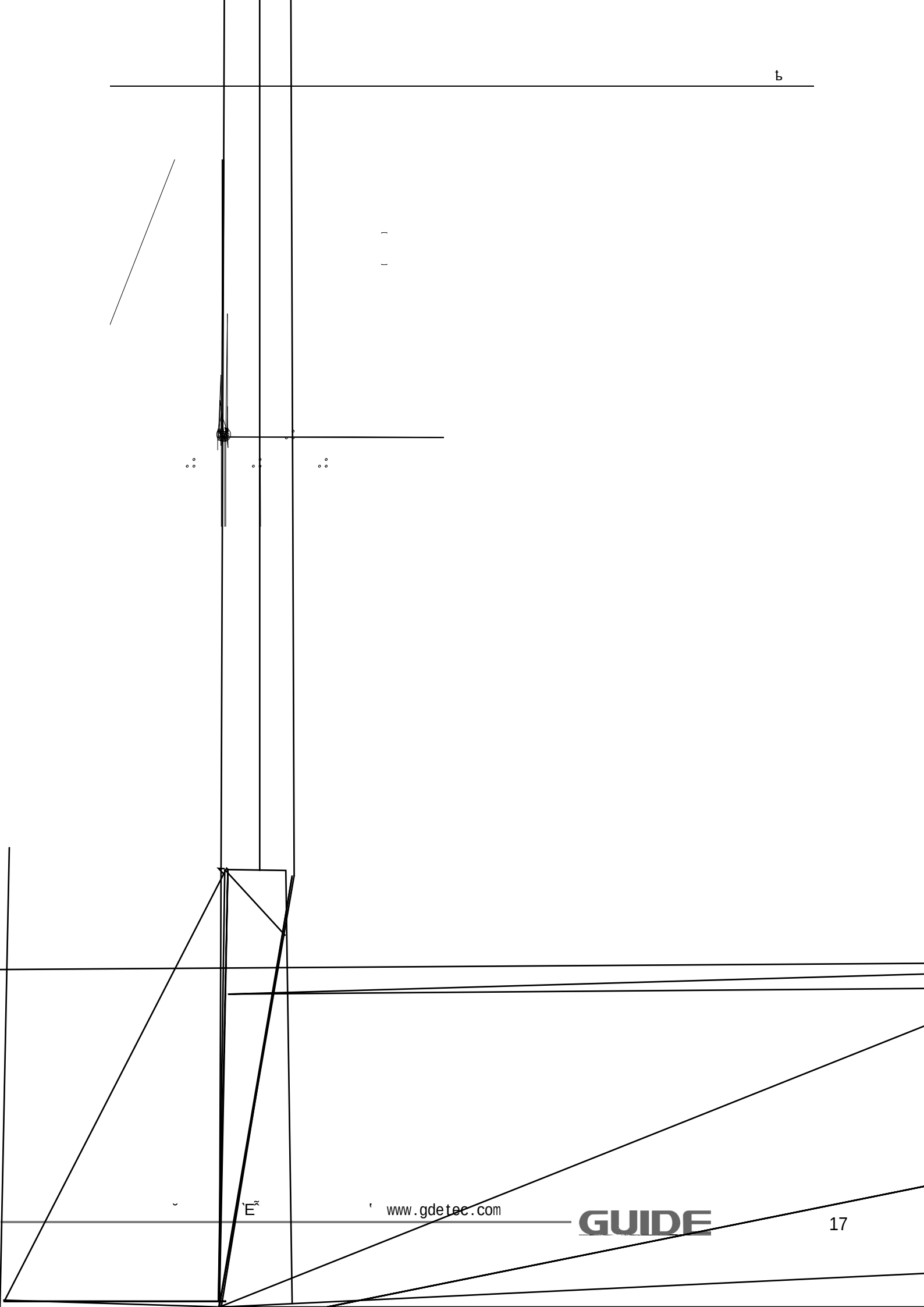
ɔ ﺫ t ˘ ɔ

3.3.2 h ᏓᏅ



Ꮧ 2 Ꮻ ᏕᏅᏕ ᏕᏅᏕ Ḥ ’

ᏕᏅ	ᏗᏅ
R à S à T	ᏕᏅᏕᏅᏕ ´
U à V à W	ᏕᏅᏕᏅᏕ ´ ᏓᏅ
P+	ᏗᏅ ᏓᏅ
DBR	L ᏓᏅ
PE	ضر



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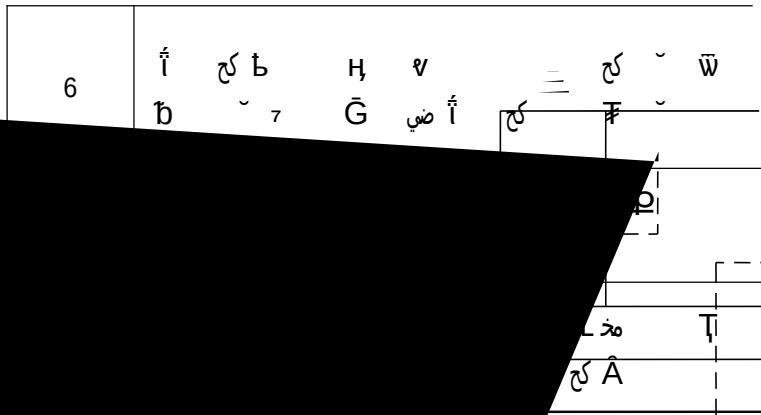
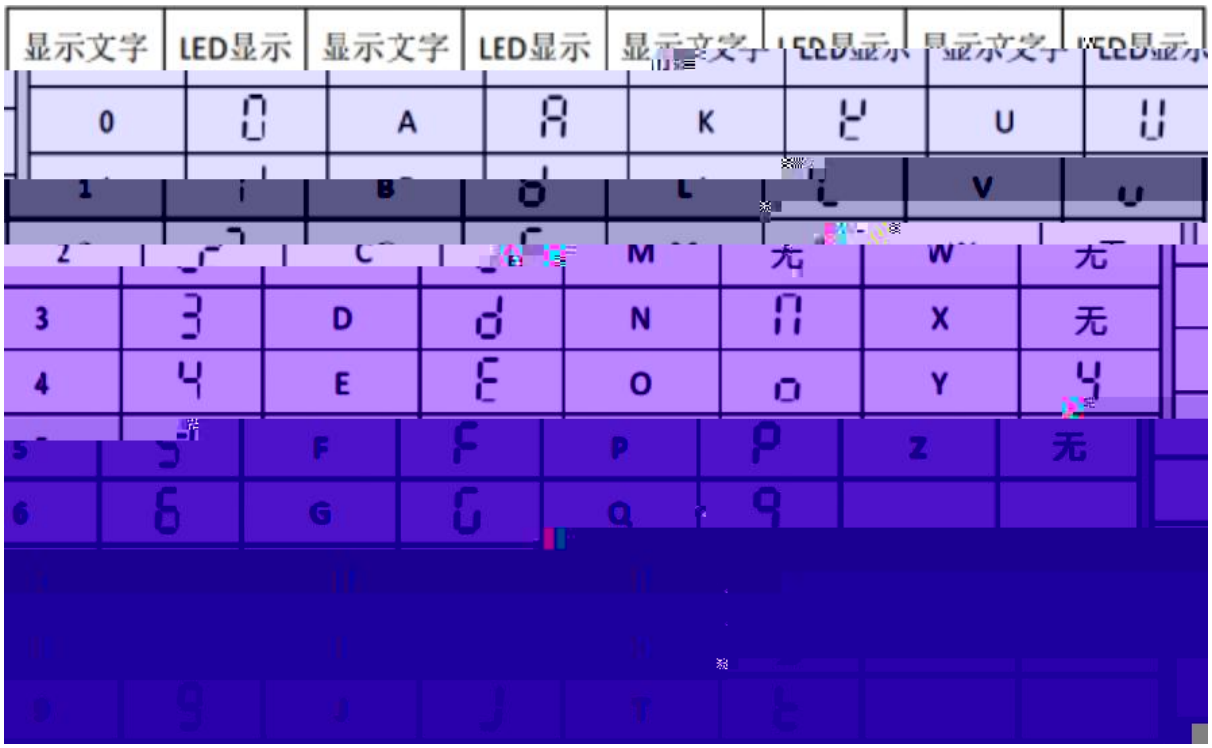
3.3.3 '



6	ī́ كح Ь Ӈ ѵ كح ˘ ѿ ƀ ˘ ⁷ Ḡ ضي ī́ كح Ŧ ˘	
	L Â L ȁ ȁ كح ȁ	
	˘ 0.75mma ɣ̣ ̈ ī́ كح ضر ˘ ɢ	
	ʐ № ˘ 10cm ɣ̣ ˘ ´ عمم Â	
	ɢ 50m˘ ɢ 50m ˘ كح Â	
	Ь ˜Ḥ№ نه˘ ɣ Ḡ Â h عج Â ą ˘ ą U ʿP Â	
	⅄ Ь ī́ كح ⅄ Â	
	ˆ ī́ كح Ь ˜ ɢ 30 m Â	


显示文字
LED显示
显示文字
LED显示
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9

		˜ ˥ ˘ ǟ
		Ω˩
	Ả	Ả / β

4.2.2 LED ƀ ˥

ˆ 1˜ ƒ

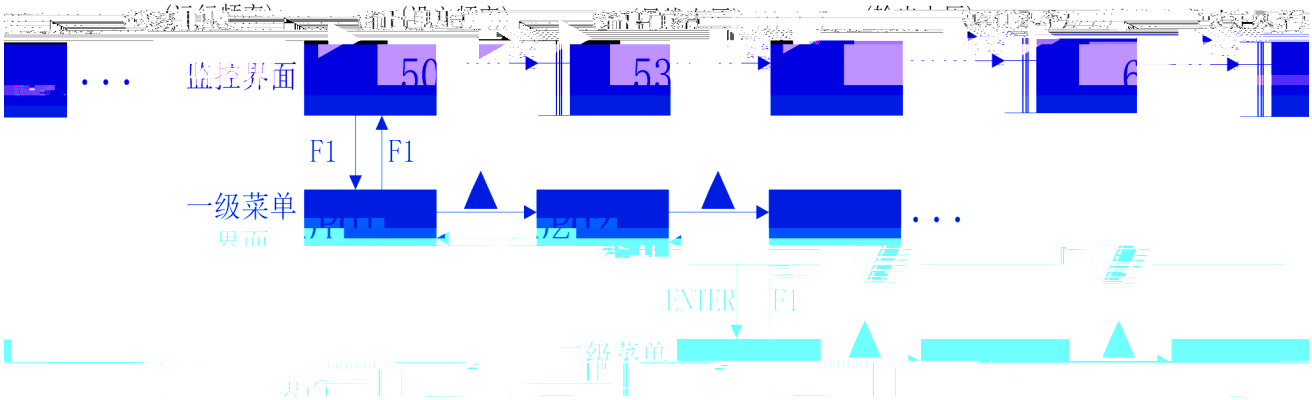
Ǔ˛˘ LED

ˆ 3˜

Й˛˘ LED ɢ ʍ / ˘ ƀ

℗ ƀ Й˛ ³˘ ᵖ Й˛ ˆ˜ ǟ ≢ ƀ

ƀ □ Â Й˛˘ ˆ˜ ǟ ʍ P02.03 ɛ P02.04 Â



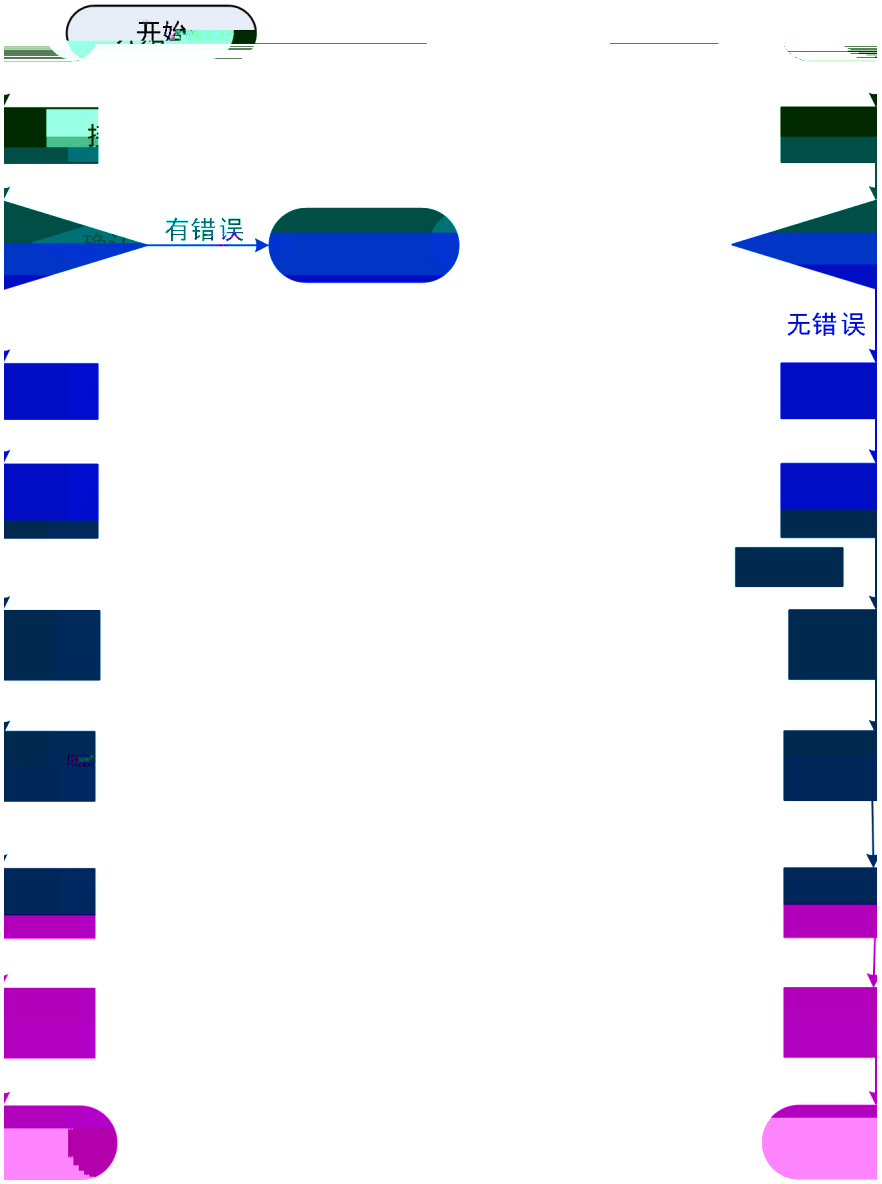
5

: GF630N03 ↓ ĩ ᴄ ˘ h ´ ĩ ᴄ ɒ ầ Ω

ˉ ɛ Å ˘ ṗ ˆ ʏ ĩ ᴄ ˡ Â

5.1 ᴍ

ʏ Ŭ ˘ ˘ Â



5.2 ╠ Ƕ

Ⱶ γ Ӣ Ʊ ʻP Â Ⱶ γ Ӣ Ʊ ʻP Â

	ṗ
⅃	⅃ ʅ ضي ʼʼḤ مخ ṗ ˘ ⁂ AC380~480V 50/60Hz'
ǐ ح ⅎ غ	ⅎ ˆ U,V,W˜ غ ʅ '
غ ǐ ح ʟ عج	ǐ ح ʟ ƀ ǐ ɾ ʟ ʅ '
	ʅ ضي ˆ ƀ ˜ Â

5.3 U ǐ ǎ Δ .

LED ƀ '

˘ ' Ӣ 50.00 Â

ǖ ˘ ˘ γ E Â

ǎ Δ . '

P00.01 w ˘ ˆ ǎ Δ . ˘ ǎ ṿ ṿ Â

w	مخ	ⅎ ⅃ ṿ
P00.01	0: ƀ 1' ⅎ ⅃ ǎ (ƀ´ ǎ) 2' Ḥ (⅃ ̆ à)	0

5.4 ǎ

V/F Ӣ˘ Ӣ ǎ ˘ Â

w	O		ⅎ ⅃ ṿ
P08.10	(Hz)	/ / ǁ / ‰˘ Ӟ ɤ / ⁞ ‰	50 [Hz]
P08.12	⁘ (Hz)	ǐ ح ⁘	
P10.35	w (KW)	ǎ w	
P10.36	⅃ (V)	ǎ ⅃	
P10.37	(A)	ǎ	
P10.38	(Hz)	ǎ	
P10.39		ǎ (r/min)	

˘ ʼE˜ ' www.gdetec.com

	1. L à ǟ ’	ӟ ɢ ѣ ˆ
	2. P10.71 ч 12˜ ENTE ˘	ɣ پشي ˘
	TUNE˜ ˜ ǟ ӟ	ӟˆ Ӣ ǟ '
ӟ	’	1. □ (P10.50);
	3. RUN ǟ ӟ˘ ӟ	2. □ D (P10.51);
	Ţ FAULT ˘ ӟ	3. □ Q (P10.52);
	U ˉ عج	4. □ ï ˉ ϟ (P10.54);

ˆ 1˜ ӟ ╠ Ҩ

GF630N03 ↓ ḯ ح ˪ ǟ ӟ ѡ Â‰ ǟ ӟ ɢ ǟ

Â ч ꞓ Ḡ L ˘ ḯ ح ‰ ˘ ѡ ѣ

‰ ˘ ḯ ح L Ӣ Â

ӟ ╠ ɣ Ӣ ɷ Ҩ '

Ҩ

Ɂ ѣ ï ч Ḡ ӟ ˘ ѣ ˉ

ӟ Â ض

5	4 Ţ ˘ ↕ ɤ ṿ 50Hz	ƀ ₮ ˘ Ḡ Ь ₮ '
6	U˘ STOP ˘ Ả Â	

ˆ 3˜ '

Й̣ Й̣ Â

ṕ ƀ

ɛ̇ Ш ɔ̇ ŋ̣

ŋ̣ Ả

Ꞁ ˘ ˘

ɛ̇ ɤ̇

Ả ɔ̣ ɛ̇ ʊ ŋ̣

ʅ ˘ ƀ

6 ǐ́ كح ǎ̋

w		w	
P0	ǎ̋ L	P12	1 L
P2		P13	2 L
P3	~	P14	ǎ̋
P4	₮	P15	PID شج
P5	ǐ̋ ǁ ~	P16	شج
P7	Ḡ ǎ̋	P19	
P8	Ω Ả L	P20	L
P9	ǐ̋	P21	L ǎ̋
P10	V/F ǐ̋ 1 ǎ̋	P23	
P11	2 ǎ̋		

w ǎ̋

w Ţ ˆ Ǔ'

l' æ Ł' ǎ̋ ṿ ضي ǐ́ كح ɢ Ả ȁ Ţ˘ شخ ˆ '

l' Æ Ł' ǎ̋ ṿ ضي ǐ́ كح ɢ ˘ Ƀ ˆ '

l' ǻ Ł' ǎ̋ ṿ ṿ˘ Ƀ '

l' * Ł' ǎ̋ l' ʌ ǎ̋ Ł˘ ˛ ɢ L ʌ ˘ ƀ'

6.1 ᄎ L PO

P02.03	LED ᾰ 1	0000˙ FFFF Bit00: 1ˆ Hz˜ Bit01: ˆ Hz˜ Bit02: ⅄ˆ V˜ Bit03: ₮ ⅄ˆ V˜ Bit04: ₮ ˆ A˜ Bit05: ₮ ʷ ˆ kW˜ Bit06: ₮ ˆ %˜ Bit07: DI ˜ Bit08: DO ₮ Bit09: Ḡ Bit10: AI1 ⅄ˆ V˜ Bit11: Ḡ Bit12: ṿ Bit13: ṿ Bit14: Bit15: PID	1F	ǽ
P02.04	LED ᾰ 2	0000˙ FFFF Bit00ʹ PID ǐ Bit01ʹ PLC Bit02ʹ PULSE ˜ ǁ ˆ kHz˜ Bit03ʹ 2ˆ Hz˜ Bit04ʹ ▼ φ Bit05ʹ Ḡ Bit06ʹ AI1 ╟ ⅄ˆ V˜ Bit07ʹ Ḡ Bit08ʹ Bit09ʹ ╟ˆ Hour˜ Bit10ʹ ╟ ˆ Min˜ Bit11ʹ PULSE ˜ ǁ ˆ Hz˜ Bit12ʹ ṿ Bit13ʹ Ḡ Bit14ʹ ɦ X ˆ Hz˜ Bit15ʹ Y ˆ Hz˜	0	ǽ

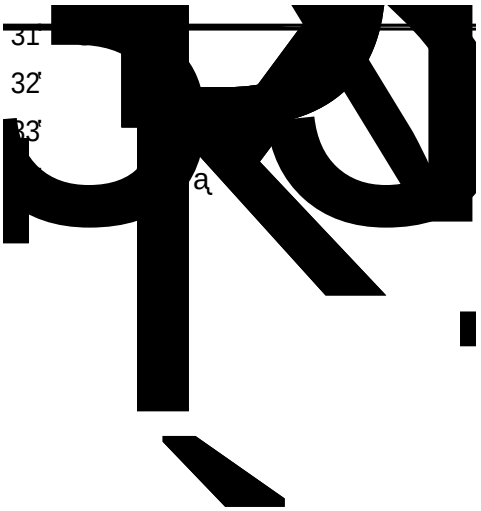
		0000˙ FFFF		
		Bit00: ˆ Hz˜		
		Bit01: ˦ˆ V˜		
		Bit02: DI ˜		
		Bit03: DO ₮		
		Bit04: Ḡ		
P02.05	LED Å ǟ	Bit05: AI1 ˦ˆ V˜	33	ǽ
		Bit06: Ḡ		
		Bit07: ṿ		
		Bit08: ṿ		
		Bit09: PLC		
		Bit10:		
		Bit11: PID		
		Bit12˙ PULSE ˜ ǁ ˆ kHz˜		
P02.06		0.0001˙ 6.5000	3	ǽ
P02.07	ǐ ج ش ج	0.0Ṇ˙ 100.0Ṇ	-	ǻ
P02.08	˚˚ ج ˜			

6.3 ~ P3

w	O	ᴘ	ᴛ ᴧ ᴠ
		0	
		1	
P03.00	~ 1	2	ῐ
		3	ᾶ ᾶ ᾶ
		4	⌟
		5	ῐ ⌟
		6	UP
		7	DOWN
		8	Å
		9	β
		10	Å
		11	~
		12	1
		13	2
		14	3
		15	4
		16	ᴠ ⁞ 1
		17	ᴠ ⁞ 2
		18	ⓟ
		19	UP/DOWN ˆ ǎ
			~
		20	Ω⌟ ⓟ 1
		21	ᴠ ⁞
		22	PID Å
		23	PLᴇ ᾰᴗ m10 Ж

8!&UYV@P !ƒ‘ R

ь00 ˘ ˘ q ᴜ ⓑ c ᴛ



P03.14	~ 2	0' 1' γ ɷ β' DI6 ᴠ β' Ḡ β' Ḡ ᴠ β' Ḡ ' β' Ḡ	1	ÆÉ
P03.15	~ 1	0.0s˙ 3600.0s	0.0s	ÆÉ
P03.16	~ 2	0.0s˙ 3600.0s	0.0s	ÆÉ
P03.17	~ 3	0.0s˙ 3600.0s	0.0s	ÆÉ

6.4 ₮ P4

w	O	ᴍ	₮ ᴧ ṿ	
P04.00	Ḡ			
P04.01	Ḡ	0' 1' Ḥ˜ 2' ₮ 3' FDT1 ₮ 4' ⌠ 5' 1 6' 7' ΐ ᴄ		
P04.02	Ḡ	8' ⌠ ṿ 9' ⌠ ṿ 10' ⌠ 11' PLC 12' ⌠ 13' ᴸ Ţ 14' ᴸ Ţ 15' ‰ 16' Ḡ		

			17'	⌠ ☼		
			18'	⌠ Ӣ ^ ˜ ~		
			19'	⅄		
			20'			
P04.03	₮	2	21'	^ Ḡ ~	0	ǽ
			22'	^ Ḡ ~		
			23'	Ţ 2 ˆ Å З ₮ ~		
			24'	☼ ⌠		
			25'	FDT2 ₮		
			26'	1 ⌠ ₮		
			27'	2 ⌠ ₮		
			28'	1 ⌠ ₮		
			29'	2 ⌠ ₮		
P04.04	₮	1	30'	⌠ ₮	1	ǽ
			31'	Ḡ		
			32'			
			33'	ĭ h		
			34'			
			35'	شج ⌠		
			36'	₮ ∟ ṿ		
P04.05	Ḡ		37'	₮ Ӣ ^ Å З ₮ ~		
			38'	⅁		
			39'	⅁		
			40'	⌠		
P04.06	Ḡ					
P04.07	Ḡ					
P04.08	₮	2	0.0s˙	3600.0s	0.0s	ǽ
P04.09	₮	1	0.0s˙	3600.0s	0.0s	ǽ
P04.10	Ḡ					

ˇ ˋE˜ c ˇ ב M ﻍw

P05.20	AI	ɷ β' Ḡ Ⅵ β' AI1 1' 1 2 ˘ P05.00˙ P05.03˜ 2' 2 2 ˘ P05.05˙ P05.08˜ 3' 3 2 ˘ P05.10˙ P05.13˜ 4' 4 4 ˘ P19.00˙ P19.07˜ 5' 5 4 ˘ P19.08˙ P19.15˜ β' Ḡ	321	ǽ
P5.21	AI ʏ ɢ ˜ ṿ	ɷ β : Ḡ Ⅵ β' AI1 ʏ ɢ ˜ ˘ 0: ˜ 1:0.0% β' Ḡ	0	ǽ

6.6 Ḡ ǻ P7

w˙	O	ɔ̇	₮ ʌ ṿ	
P07.00	Ḡ	0' 1' ˝Ḥ	1	ǽ
P07.01	Ḡ	0.20˙ 10.00	1.5	ǽ
P07.02		50%˙ 100%	80%	ǽ
P07.03	ʌ	0˙ 100	0	ǽ
P07.04	ʌ Ḡ ʌ	200.0˙ 2200.0	760.0	ǽ
P07.05		0˙ 100	20	ǽ
P07.06	Ḡ	50%˙ 200%		

P07.22	̑ ̑ ̑ ^ w̄ ~ ǐ ᴄ	.	.	á
P07.23	̑ ̑ ̑ ^ w̄ ~ ⁘	.	.	á
P07.24	̑ ̑ ̑ ^ w̄ ~	.	.	á
P07.25	̑ ̑ ̑ ^ w̄ ~ ǐ ˗ ᴋ	.	.	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 ᴄ	.	.	á
P07.33	ʜ ⁘	.	.	á
P07.34	ʜ	.	.	á
P07.35	ʜ ǐ ˗	.	.	á
P07.36	Ḡ			
P07.37	w̄	.	.	á
P07.38	w̄	.	.	á
P07.39	w̄	.	.	á
P07.40	w̄ ~	.	.	á
P07.41	w̄ ₮	.	.	á
P07.42	w̄ ǐ ᴄ	.	.	á
P07.43	w̄ ⁘	.	.	á
P07.44	w̄	.	.	á
P07.45	w̄ ǐ ˗	.	.	á

P07.46	Ḡ			
P07.47	Ḡ ˗ ƀ 1	ɷ β' ˆ 11˜ 0' Ả 1' Ả Ả 2' ᴠ β' ˜ ˆ 113˜ β' ₮ ˆ 114˜ ᴠ β' ˆ 15˜ ' β' ˆ 202˜	0	ǽ
P07.48	Ḡ ˗ ƀ 2	ɷ β' Ḡ 0' Ả ᴠ β' ᴡ ΄Ω ˆ 21˜ 0' Ả 1' Ả Ả β' ΐ́ ᴄ ˆ 111˜ ᴠ β' ˆ 45˜ ' β' ⌠ ˆ 26˜	0	ǽ

P07.49	Ḡ ˗ ƀ 3	ɷ β' ɥ 1ˆ 27˜ 0' Å 1' Å Å 2' Ⅵ β' ɥ 2ˆ 28˜ 0' Å 1' Å Å 2' β' ☼ ⌠ ˆ 29˜ 0' Å 1' Å Å 2' Ⅵ β' ˆ 30˜ 0' Å 1' ⁞ Å 2' ⁞ ⌠ 7% ˘ Ƀ ˗ ⌠ ' β' PIDΐ κ ˆ 31˜ 0' Å 1' Å Å 2'	0	ǽ
P07.50	Ḡ ˗ ƀ 4	ɷ β' Ẓ ˆ 119˜ 0' Å 1' Å Å 2' Ⅵ β' ˆ 115˜ β' Δ β ˆ 51˜	0	ǽ
P07.51	Ḡ ˗ ƀ 5			
P07.52	1			
P07.53	2			

P07.54		0' γ ╟ 1' γ 2' γ̣ ̣̇ ̣̈ 3' γ Й̣ 4' γ	0	ǽ
P07.55		0%˙ 100.0%ˆ 100.0% P08.10˜	100.00%	ǽ
P07.56	D ح قمم	0' D ح 1' PT100 2' PT1000	0	ǽ
P07.57	Ḡ ṿ	0 Ṇ˙ 200 Ṇ	110 Ṇ	ǽ
P07.58	ṿ	0 Ṇ˙ 200 Ṇ	90 Ṇ	ǽ
P07.63	Ḡ	0' 1'	0	ǽ
P07.64		0.0˙ 100.0 ←	10.00%	ǽ
P07.65		0.0˙ 60.0s	1.0s	ǽ
P07.66	Ḡ			
P07.67	ṿ	0.0 ← ˙ 50.0 ←ˆ ˜	20.00%	ǽ
P07.68		0.0s˙ 60.0s	1.0s	ǽ
P07.69	Ẓ ṿ	0.0 ← ˙ 50.0 ←ˆ ˜	20.00%	ǽ
P07.70	Ẓ	0.0s˙ 60.0s	5.0s	ǽ
P07.71	Å ƀ Å	0˙ 100	40	
P07.72	Å ƀ Å №	0˙ 100	30	
P07.73	Å ƀ Å ˩ ƀ ⁞	0.0˙ 300.0	20.0	
P07.74	Ḡ			
P07.75	Ḡ ˩ ƀ 6	ɷ β' Δ β ˆ 51˜ 0' 1' Å Ѵ β' ˆ 170˜ 0' 1' Å	11	ǽ

6.7 Ω Å L P8

w	O	ᴖ	ᴛ ᴧ ᴠ
P08.00	Ḡ		
P08.01	1 L	0' D ᴄ L^ SVC˜ 2' V/F L	0 Æ
P08.02	Ω˜	0' ƀ ث פ ^ LED˝ ˜ 1' ث פ ^ LED ˜ 2' ث פ ^ LED ˜	1 æ
P08.03	h X	0' ^ P08.08˜ UP/DOWN˜ ḱ ˘ ƀ ˜ 1' ^ P08.08˜ UP/DOWN˜ ḱ ˘ ˜ 2' Ḡ 3' AI1 4' Ḡ 5' Ḡ 6' פ 7' PLC 8' PID 9'	0 0 Æ
P08.04	Y	□P08.03˜ h X ˜	0 Æ
P08.05	ŋ ᴠ D ᴠ		

		ɑ β'		
		0' h X		
		1' h		
		ˆ ˜ Ⅵ β ~		
		2' h X ƀ Y Ⓟ		
		3' h X ƀ h Ⓟ		
P08.07	ŋ ɤ		0	ǽ
		4' Y ƀ h Ⓟ		
		Ⅵ β' h ˜		
		0' h+		
		1' h-		
		2' ɥ ṿ		
		3' ɥ ṿ		
P08.08		0.00Hz˙ ˆ P08.10˜	50.00Hz	ǽ
P08.09	h	0' h w̄	0	ǽ
		1' h ǐ h		
P08.10		50.00Hz˙		

P08.18	⁞	1	0.00s˙ 6500.0s		ممم	ǽ
P08.19	ɤ ⁞	Ồ	0' 1 1' 0.1 2' 0.01		1	ǼÉ
P08.20	Ḡ					
P08.21	Ŋ ɤ	Ẓ	0.00Hz˙	P08.10	0.00Hz	ǽ
P08.22		№	2' 0.01Hz		2	ǼÉ
P08.23		Ả	0' Ъ 1'		0	ǽ
P08.24	8a0 ˆl" !ƒ‘ Aà° ø" P $F,$W ,,‘					

J

P08.28	Ϙ˩	0' Ϙ˩ 1' Ḡ 2' Ḡ	0	ǽ
P08.29		0' ɾ Ả 1' ɾ 2' ɾ	0	Ǽ
P08.30		1˙ 100	20	ǽ
P08.31	Ϙ˩	0.00Hz˙ 10.00Hz	0.00Hz	ǽ
P08.32	Ϙ˩ Ḡ	0.0s˙ 100.0s	0.0s	Ǽ
P08.33	Ϙ˩ L˩ / :	0%˙ 100%	0%	Ǽ
P08.34	Ϙ˩ L˩ / :	0.0s˙ 100.0s	0.0s	Ǽ
P08.35	ᴠ ⁞	0' ᴠ ⁞ 1' S ᴠ ⁞ A 2' S ᴠ ⁞ B	0	Ǽ
P08.36	S ᵖ	0.0%˙ ˆ 100.0%- P08.37˜	30.00%	Ǽ
P08.37	S ᵖ	0.0%˙ ˆ 100.0%- P08.36˜	30.00%	Ǽ
P08.38	Ả	0' ⁞ Ả 1' Ả	0	ǽ
P08.39	Ả L˩	0.00Hz˙	0.00Hz	ǽ
P08.40	Ả L˩	0.0s˙ 100.0s	0.0s	ǽ
P08.41	Ả L˩	0%˙ 100%	0%	ǽ
P08.42	Ả L˩	0.0s˙ 100.0s	0.0s	ǽ
P08.43	L˩ ą	0%˙ 100%	100%	ǽ
P08.44	L˩ ¨Ḥ	0s˙ 65000s	0s	ǽ
P08.45	Ḡ			
P08.46	Ḡ			
P08.47	Ḡ			
P08.48	Ḡ			
P08.49	Ḡ			

6.8 ĩ P9

w	O		ᶜ	ẹ
P09.00		0ˈ ɢ Ţ 1ˈ ɢ	0	ǽ
P09.01		0.0%˙ 100.0%	0.00%	ǽ
P09.02		0.0%˙ 50.0%	0.00%	ǽ
P09.03	ʟ	0.1s˙ 3000.0s	10.0s	ǽ
P09.04	[illegible] [illegible] ˆ	0.1%˙ 100.0%	50.00%	ǽ
P09.05		0m˙ 65535m	1000m	ǽ
P09.06		0m˙ 65535m	0m	ǽ
P09.07	ǁ	0.1˙ 6553.5	100	ǽ
P09.08	ẹ	1˙ 65535	1000	ǽ
P09.09	ẹ	1˙ 65535	1000	ǽ
P09.10	פ 0	-100.0%˙ 100.0%	0.00%	ǽ
P09.11	פ 1	-100.0%˙ 100.0%	0.00%	ǽ
P09.12	פ 2	-100.0%˙ 100.0%	0.00%	ǽ
P09.13	פ 3	-100.0%˙ 100.0%	0.00%	ǽ
P09.14	פ 4	-100.0%˙ 100.0%	0.00%	ǽ
P09.15	פ 5	-100.0%˙ 100.0%	0.00%	ǽ
P09.16	פ 6	-100.0%˙ 100.0%	0.00%	ǽ
P09.17	פ 7	-100.0%˙ 100.0%	0.00%	ǽ
P09.18	פ 8	-100.0%˙ 100.0%	0.00%	ǽ
P09.19	פ 9	-100.0%˙ 100.0%	0.00%	ǽ
P09.20	פ 10	-100.0%˙ 100.0%	0.00%	ǽ
P09.21	פ 11	-100.0%˙ 100.0%	0.00%	ǽ
P09.22	פ 12	-100.0%˙ 100.0%	0.00%	ǽ
P09.23	פ 13	-100.0%˙ 100.0%	0.00%	ǽ
P09.24	פ 14	-100.0%˙ 100.0%	0.00%	ǽ
P09.25	פ 15	-100.0%˙ 100.0%	0.00%	ǽ
P09.26	PLC	0ˈ ɬ Å 1ˈ ɬ Ḡ ẹ 2ˈ w̄	0	ǽ

		ɑ β'		
		0' ъ		
		1'		
P09.27	PLC		0	ǽ
		Ⅵ β' Ả		
		0' Ả ъ		
		1' Ả		
P09.28	PLC 0ᵘ Ķ			

P09.42	PLC 7	0.0ŝ h˜ ˙ 6553.5ŝ h˜	0.0ŝ h

P10.21	VF Ò ƀ ẽ L˪	50˙ 200%	50%	Ǽ
P10.22	˧ L˪ ƀ ˧	650.0V~800.0V	760.0V	Ǽ
P10.23	˧ L ą	0ʹ 1ʹ	0	Ǽ
P10.24	˧ L	0˙ 100	30	ǽ
P10.25	˧ L ˧	0˙ 100	30	ǽ
P10.26	˧ L ˛ ˆ˥	0˙ 50Hz		

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P11.19	□ ᴉ β	0˙ 12	0
P11.20	□ ῐ ˗ ᴅ	0.1V˙ 6553.5V	ᾰ Æ
P11.21	□ ₮	0˙ 60000	0
P11.22~ P11.26			

P12.08	L :	0˙ 200	64	ǽ
P12.09	L Й̧ ☼ ˆ ˩ ˜	0' P12.10 1' Ḡ 2' AI1 3' Ḡ 4' Ḡ 5' 6' Ḡ 7' Ḡ 1-7 ˘ P12.10	0	ǽ
P12.10	L Й̧ ☼ ˆ ˩ ˜	0.0% ˙ 200.0%	180.00%	ǽ
P12.11	L Й̧ ☼ ˆ ǖ ˜	0' P12.12 1' Ḡ 2' AI1 3' Ḡ 4' Ḡ 5' 6' Ḡ 7' Ḡ 1-7 ˘ P12.12	0.00%	ǽ
P12.12	L Й̧ ☼ ˆ ǖ ˜	0.0% ˙ 200.0%	150.00%	ǽ
P12.13	: ɒ	0˙ 60000	2000	ǽ
P12.14	: №	0˙ 60000	1300	ǽ
P12.15	ɒ	0˙ 60000	2000	ǽ
P12.16	№	0˙ 60000	1300	ǽ
P12.17	№	ɑ β' №№ 0' 1'	0	ǽ
P12.18	□	0: 1: 2: ˩	1	ǽ

P12.19	□	0˙ 50	5	ǽ
P12.20		1%˙ 300%	50%	ǽ
P12.21	Ḡ			
P12.22	ǖ ⁘ ą	0 1	0	ǽ
P12.23	□ ₮ ˧ ɛ̇	1%˙ 50%	5%	ǽ
P12.24	□ Δ β	50%˙ 180%	80%	ǽ
P12.25	□ Δ β	0,1,2	0	ǽ
P12.26	Ḡ			
P12.27	□ €	50˙ 500	100	ǽ
P12.28	L	0,1	0	ǽ
P12.29	╟ ẽ	0	0	
P12.30	Kp	1˙ 100	6	ǽ
P12.31	Ki	1˙ 100	6	ǽ
P12.32	Ḡ			
P12.33	SVC T	10˙ 1000	100	ǽ
P12.34	□ SVC T ɒ	5˙ 200	40	
P12.35	□ SVC T №	5˙ 200	30	
P12.36	□ SVC Δ : ṿ	0˙ 80%	30%	ǽ
P12.37	□ SVC γ	0.8K˙ P08.15	1.5K	ǽ
P12.38	γ	0,1	0	
P12.39	L˩	0˙ 1000	200	

P12.40	Ḡ			
P12.41	γ L˧	0˙ 80	50	
P12.42	□ SVC	0˙ 1	0	ǽ
P12.43	ə ą	0˙ 1	0	ǽ
P12.44	Ⓟ	0.00 ˙ P12.02	0.30Hz	ǽ
P12.45	ə ɒ	1 ˙ 100	10	ǽ
P12.46	ə №	0.01s ˙ 10.00s	0.50s	ǽ
P12.47	Ả ǐ	0˙ 1	0	ǽ
P12.48	Ả	0.0£˙ 10.0£	0.8£	ǽ
P12.49	ɷ̃	0,1,2	0	ǽ
P12.50	ضي ǐ ˧ ɔ ą	0,1	0	ǽ
P12.51	SVCΔ β ẽ	0~360.0	0	

6.12 2 L P13

w	O	مخ	₮ ʌ γ	
P13.00	ɒ 1	1˙ 100	30	ǽ
P13.01	№ 1	0.01s˙ 10.00s	0.50s	ǽ
P13.02	Ⓟ 1	0.00˙ P13.05	5.00Hz	ǽ
P13.03	ɒ 2	1˙ 100	20	ǽ
P13.04	№ 2	0.01s˙ 10.00s	1.00s	ǽ
P13.05	Ⓟ 2	P13.02˙	10.00Hz	ǽ
P13.06	L	50%˙ 200%	100%	ǽ
P13.07		0.000s˙ 0.100s	0.000s	ǽ
P13.08	L :	0˙ 200	64	ǽ

			0' P13.10 1' Ḡ 2' AI1 3' Ḡ 4' Ḡ 5' 6' Ḡ 7' Ḡ 1.7 ˘ P13.10		
P13.09	L Ӥ ⁘ ˆ ˩ ˜			0	ǽ
P13.10	L Ӥ ⁘ ˆ ˩ ˜		0.0% ˙ 200.0%	150.00%	ǽ
			0' P13.12 1' Ḡ 2' AI1 3' Ḡ 4' Ḡ 5' 6' Ḡ 7' Ḡ 1.7 ˘ P13.12		
P13.11	L Ӥ ⁘ ˆ ǖ ˜			0.00%	ǽ
P13.12	L Ӥ ⁘ ˆ ǖ ˜		0.0% ˙ 200.0%	150.00%	ǽ
P13.13	: ɒ		0˙ 60000	2000	ǽ
P13.14	: №		0˙ 60000	1300	ǽ
P13.15	ɒ		0˙ 60000	2000	ǽ
P13.16	№		0˙ 60000	1300	ǽ
			ɑ β' №№		
P13.17	№		0' 1'	0	ǽ
P13.18	□		0: 1: 2: ˩	1	

P13.19	□	0˙ 50	5	ǽ
P13.20	Ḡ			
P13.21	Ḡ			
P13.22	ǖ ᵡ ᵠ	0,1	0	ǽ
P13.23	2 L	0ʹ D ᴄ L^ SVC˜ 1ʹ D ᴄ L^ FVC˜ 2ʹ V/F L	0	ÆÉ
P13.24	2 ᴠ ⁞	0ʹ ᵬ 1 □ 1ʹ ᴠ ⁞ 1 2ʹ ᴠ ⁞ 2 3ʹ ᴠ ⁞ 3 4ʹ ᴠ ⁞ 4	0	ǽ
P13.25	ˆ1	0.0%ʹ ˆ ˉ ˆ1˜ 0.1%˙ 30.0%	قمم	ǽ
P13`.26	Ḡ			
P13.27	L	0˙ 100	قمم	ǽ
P13.28	□ ₮ ˆ1 ᵢ	1%˙ 50%	5%	ǽ
P13.29	□ Δ β	50%˙ 180%	80%	ǽ
P13.30	□ Δ β	0,1,2	0	ǽ
P13.31	Ḡ			
P13.32	□ €	50˙ 500	100	ǽ
P13.33	L	0,1	0	ǽ
P13.34	╟ ẽ	0	0	
P13.35	Kp	1˙ 100	6	ǽ
P13.36	Ki	1˙ 100	6	ǽ
P13.37	Ḡ			
P13.38	SVC T	10˙ 1000	100	ǽ
P13.39	□ SVC T ᵣ	5˙ 200	40	
P13.40	□ SVC T	5˙ 200	30	

	№			
P13.41	□ SVC Δ : ṿ	0˙ 80%	30%	ǽ
P13.42	□ SVC γ	0.8K˙ P08.15	1.5K	ǽ
P13.43	γ	0,1	0	
P13.44	L˩	0˙ 1000	200	
P13.45	Ḡ			
P13.46	γ L˩	0˙ 80	50	
P13.47	□ SVC	0˙ 1	0	ǽ
P13.48	ə ą	0˙ 1	0	ǽ
P13.49	Ⓟ	0.00 ˙ P12.02	0.30Hz	ǽ
P13.50	ə ɒ	1 ˙ 100	10	ǽ
P13.51	ə №	0.01s ˙ 10.00s	0.50s	ǽ

6.13 ᾰ P14

w O ᴍ ᴛ ᴧ ṿ

P14.00 Ḡ

P14.01

ɑ β' MODBUS
0' 300BPS
1' 600BPS
2' 1200BPS
3' 2400BPS
4' 4800BPS
5' 9600BPS
6' 19200BPS
7' 38400BPS
8' 57600BPS
9' 115200BPS
ᴧ β . β

P14.03 خي ضر 1

6.15 شج P16

w	O	مخ	₮ ᴧ ᵥ	
P16.00	VDI1 w	0˙ 59	0	ÆÉ
P16.01	VDI2 w	0˙ 59	0	ÆÉ
P16.02	VDI3 w	0˙ 59	0	ÆÉ
P16.03	VDI4 w	0˙ 59	0	ÆÉ
P16.04	VDI5 w	0˙ 59	0	ÆÉ
P16.05	VDI	0' VDOx ═ VDI ʅ 1' w P16.06 VDI ʅ ɷ β' VDI1 ᴠ β' VDI2 β' VDI3 ᴠ β' VDI4 ' β' VDI5	0	ÆÉ
P16.06	VDI	0' 1' ɷ β' VDI1 ᴠ β' VDI2 β' VDI3 ᴠ β' VDI4 ' β' VDI5	0	ÆÉ
P16.07	Ḡ			
P16.08	AII ƀ ᴜDI w	0˙ 59	0	ÆÉ
P16.09	Ḡ			
P16.10	AI ƀ ᴜDI	0' 1' γ ɷ β' Ḡ ᴠ β' AI1 β' Ḡ	0	ÆÉ

P16.11	VD01 ₮ ʷ	0ʹ ѣ DIx ṕ 1˙ 40ʹ P04 D0 ₮	0	ǽ
P16.12	VD02 ₮ ʷ	0ʹ ѣ DIx ṕ 1˙ 40ʹ P04 D0 ₮	0	ǽ
P16.13	VD03 ₮ ʷ	0ʹ ѣ DIx ṕ 1˙ 40ʹ P04 D0	0	ǽ
P16.14	VD04 ₮ ʷ	0ʹ ѣ DIx ṕ 1˙ 40ʹ P04 D0 ₮	0	ǽ
P16.15	VD05 ₮ ʷ	0ʹ Ḡ 1˙ 40ʹ P04 D0 ₮	0	ǽ
P16.16	VD01 ₮	0.0s˙ 3600.0s	0.0s	ǽ
P16.17	VD02 ₮	0.0s˙ 3600.0s	0.0s	ǽ
P16.18	VD03 ₮	0.0s˙ 3600.0s	0.0s	ǽ
P16.19	VD04 ₮	0.0s˙ 3600.0s	0.0s	ǽ
P16.20	VD05 ₮	0.0s˙ 3600.0s	0.0s	ǽ
P16.21	VD0 ₮	0ʹ 1ʹ ĭ ɷ β ʹ VD01 Ѵ β ʹ VD02 β ʹ VD03 Ѵ β ʹ VD04 ʼ β ʹ VD05	0	ǽ ϛ

6.16 P19

ʷ O

Ť ᴄ ᾰ

P19.08		5	~	-10.00V˙	P19.10	-10.00V	ǽ
P19.09	I	5	~	-100.0%˙	+100.0%	-100.00%	ǽ
P19.10	AI	5	1 ~	P19.08˙			

P19.44	Ḡ			
P19.45	Ḡ			
P19.46	Ḡ			
P19.47	Ḡ			
P19.48	Ḡ			
P19.49	Ḡ			

6.17 L P20

w	O	ɔ̀	₮ ʌ ɣ	
P20.00	/ L	0' L 1' L	0	Ǽ
P20.01	L Й̧	0' 1̂ P20.03˜ 1' Ḡ 2' AI1 3' Ḡ 4' Ḡ 5' 6' Ḡ 7' Ḡ ˆ 1-7 ˘ P20.03 ˜	0	Ǽ
P20.02	Ḡ			
P20.03	L Й̧	-200.0%˙ 200.0%	150.00%	ǽ
P20.04		0˙ 10.00	0.00%	
P20.05	L h	0.00Hz˙	50.00Hz	ǽ
P20.06	L ĭ h	0.00Hz˙	50.00Hz	ǽ
P20.07	L ɣ	0.00s˙ 650.00s	0.00s	ǽ
P20.08	L ⁞	0.00s˙ 650.00s	0.00s	ǽ

6.18 L ǎ P21

w	O	₀	₣ ∧ ɣ	
P21.00	⌐	0.00Hz˙	2.00Hz	æ
P21.01	⌐ ∨	0.0s˙ 6500.0s	20.0s	æ
P21.02	⌐ ⋮	0.0s˙ 6500.0s	20.0s	æ
P21.03	∨ 2	0.0s˙ 6500.0s	⌀	æ
P21.04	⋮ 2	0.0s˙ 6500.0s	⌀	æ
P21.05	∨ 3	0.0s˙ 6500.0s	⌀	æ
P21.06	⋮ 3	0.0s˙ 6500.0s	⌀	æ
P21.07	∨ 4	0.0s˙ 6500.0s	⌀	æ
P21.08	⋮ 4	0.0s˙ 6500.0s	⌀	æ
P21.09	1	0.00Hz˙	0.00Hz	æ
P21.10	2	0.00Hz˙	0.00Hz	æ
P21.11		0.00Hz˙	0.00Hz	æ
P21.12	ǐ ∨	0.0s˙ 3000.0s	0.0s	æ
P21.13	ǐ L ą	0ʹ ˜Ḥ 1ʹ	0	æ
P21.14	∨ G Й	0ʹ ɣ Й 1ʹ Å 2ʹ	0	æ
P21.15	Й ⌀ L	0.0%˙ 100.0%	0.0%	æ
P21.16	⁛ ∫	0h˙ 65000h	0h	æ
P21.17	∫	0h˙ 65000h	0h	æ
P21.18	Ω⌐ Ḡ	0ʹ Ь Ḡ 1ʹ Ḡ	1	æ
P21.19	ẏ^ FDT1˜	0.00Hz˙	50.00Hz	æ
P21.20	U^ FDT1˜	0.0%˙ 100.0%^ FDT1 ˜	5.00%	æ
P21.21	∫ ₣	0.0%˙ 100.0%^ ˜	0.00%	æ
P21.22	∨ ⋮ Ţ ϩ	0ʹ 1ʹ	0	æ
P21.23	Ḡ			
P21.24	Ḡ			
P21.25	∨ 1 Ь ∨ 2Ⓟ	0.00Hz˙	0.00Hz	æ
P21.26	⋮ 1 Ь ⋮ 2Ⓟ	0.00Hz˙	0.00Hz	æ

P21.27		ˉ	π ᾠ		0ʹ	1ʹ		0	ǽ
P21.28			ṿˆ	FDT2˜	0.00Hz˙			50.00Hz	ǽ
P21.29			Uˆ	FDT2˜	0.0%˙	100.0%ˆ	FDT2 ˜	5.00%	ǽ
P21.30	κ	⌠		ṿ 1	0.00Hz˙			50.00Hz	ǽ
P21.31	κ	⌠		₮ 1	0.0%˙	100.0%ˆ	˜	0.00%	ǽ
P21.32	κ	⌠		ṿ 2	0.00Hz˙			50.00Hz	ǽ
P21.33	κ	⌠		₮ 2	0.0%˙	100.0%ˆ	˜	0.00%	ǽ
P21.34					0.0%˙				

P23.09	Ḡ		
P23.10	AI1 ⅄ˆ V˜ / ˆ mA˜	0.01V/0.01mA	700AH
P23.11	Ḡ		
P23.12	ṿ	1	700CH
P23.13	ṿ	1	700DH
P23.14		1	700EH
P23.15	PID	1	700FH
P23.16	PID ΐ	1	7010H
P23.17	PLC	1	7011H
P23.18	PULSE ˜ ǁ	0.01kHz	7012H
P23.19	ΐ (Hz)	0.01Hz	7013H
P23.20	▼ φ	0.1Min	7014H
P23.21	Ḡ		
P23.22	AI1 ╟ ⅄ˆ V˜	0.001V/0.01mA	7016H
P23.23	Ḡ		
P23.24		1m/Min	7018H
P23.25	╟	1Min	7019H
P23.26	╟	0.1Min	701AH
P23.27	PULSE ˜ ǁ	1Hz	701BH
P23.28	ṿ	0.01%	701CH
P23.29	Ḡ		
P23.30	h X	0.01Hz	701EH
P23.31	Y	0.01Hz	701FH
P23.32	κ ṗ ضي خي ṿ	1	7020H
P23.33	□ β		7021H
P23.34	ṿ	1Ṇ	7022H
P23.35	(%)	0.10%	7023H
P23.36	ΐ β	100.00%	7024H
P23.37	ʍ غج	0.1£	7025H
P23.38	ABZ β	1	7026H

P23.39	VF №	ᴉ	1V	7027H
P23.40	VF №	₮ ᴉ	1V	7028H
P23.41	DI ˜		1	7029H
P23.42	DO ˜		1	702AH
P23.43	DI ᴡ		1	702BH
P23.44	DO ᴡ		1	702C2ᴗ.44

7 ǻ ʷ

7.1 ǻ └ P0

P00.00		ⱡ ʌ ṿ	0
	ﻫ	0˙ 65535	

P00.00 κ ɯ̄ ɷ ˘ ↕ Ḡ ʷ Â Ӈ ˜ ɬ ˘

˜ ˘ ʅ ↕ ƀ ɛ́ ḱ ʷ ǻ ˘ Â

P00.00 ɥ 00000˘ ↕ ˘ ą Ḡ ʷ Â

P00.01	ǻ Δ .		ⱡ ʌ ṿ	0
	ﻫ	0	ƀ	
		1	ⱡ ʌ ǻ ˘ ƀ´ ǻ	
		2	Ḥ	

1 ȁ ⱡ ʌ ṿ˘ ƀ´ ǻ

P00.01 ɥ 1 Ʊ˘ ĭ́ ʊ ʷ ǻ № ɥ ʌ ⱡ ʌ ǻ ˘ ᵖ ɣ Ӈ ǻ ƀ

'

1˜ ʌ ǻ (P1);

2˜ ǻ └ ' P00.00, P00.01;

3˜ Ḥ ' P07.14~P07.45;

4˜ ǻ ' P10.34~P10.55, P11.00~P11.21;

5˜ ˆ P02.09˜ ˘ ⁘ ˆ P02.13˜ ˘ ˆ P02.14˜ ;

6˜ ˆ P08.10˜ ˘ ⁘ ˆ P08.12˜ ;

7˜ └ ǻ ' P12.13~P12.16, P13.13~P13.16;

2 ȁ Ḥ

ĭ́ ʊ Ḥ ȁ ˆ P02.09˜ ȁ ⁘ ˆ P02.13˜ ȁ

ˆ P02.14˜ Â

P00.02	ʷ ǻ		ⱡ ʌ ṿ	11
	ﻫ	ɷ ᵝ	P23,P27	
		0	ƀ	

˘ ˋÊ˜ ' www.gdetec.com

		1	
		ᴠ β	P11,P13,P16,P19,P20,P21
		0	ƀ
		1	

P00.04	w ḱ		₮ ᴧ ṿ	0
	مخ	0	ˆ ḱ	
		1	ƀˆ ḱ	

w ᾰ ʔˆ γ ḱ ˘ ɢ w ᾰ ˉ ˧ Â

w ч0 ↕ w شخˆ ḱ ’ ч1 ˘ w شخ ˘ ƀ

ḱ Â

7.2 P2

P02.01	F2 w		₮ ᴧ ṿ	0
	مخ	0	F2	
		1	Ḡ	
		2	ĭ Ⓟ	
		3	ˉ	
		4	ĭ ˉ	

F2 ч w ˘ ˆ w F2 w Âضي Å غ Ţ شخˆ γ

Ⓟ Â

0' w Â

1' Ḡ

2' ĭ Ⓟ

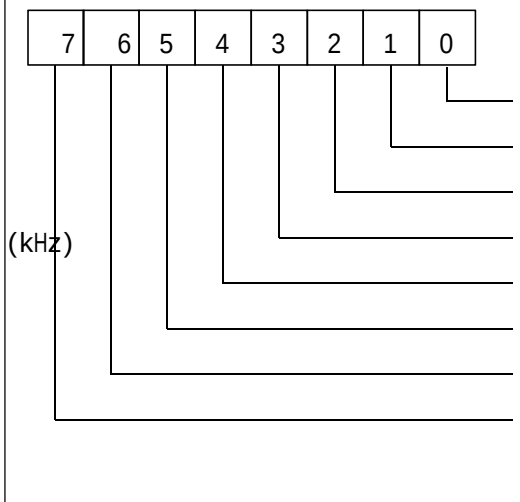
F2 Ⓟ ɒ h Â w ⁊ ضي ث ɒ ч ƀ ث ɒ Â

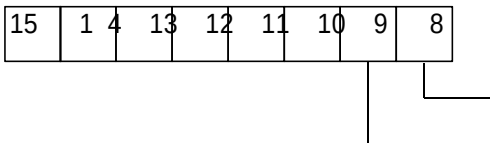
3' ˉ

F2 ˉ ˆ FJOG˜ Â

4' ĭ ˉ

F2 ĭ ˉ ˆ RJOG˜ Â





			7 6 5 4 3 2 1 0 PID ï PLC PULSE ~ ‖ (kHz) 2(Hz) ▼ φ Ḡ AI1 ╟ ⅃ (V) Ḡ
	مخ	0000 · FFFF	15 1 4 13 12 11 10 9 8 ╟ (Hour) ╟ (Min) PULSE ~ ‖ (Hz) Ṿ Ḡ h X (Hz) ↑ Y (Hz) ضي Ţ ¥ ⅄ ǟ ˘ ì β ч 1˘ ⊔ L ч ⅄ ´E L U G P02.04 Â

ǟ ˘ ï ⅄ G ˆ ǟ Â

ˆ L ǟ ч 32 ɑ˘ P02.03 à P02.04 ǟ ṿ ⅄ ⊔ L β˘

ǟ ˘ ɾ P02.03 γ β Â

ĩ

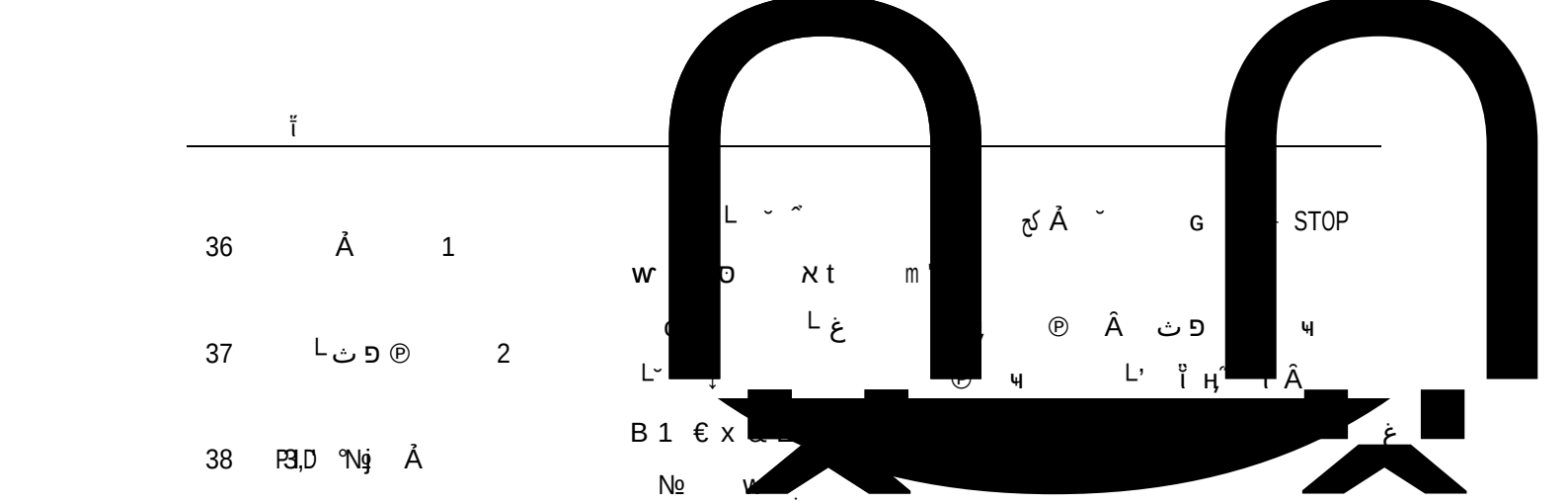
P02.07	كح شج ĩ	₮ ٨ ٧	0
	مخ	0.0Ṇ˙ 100.0Ṇ	

مج

ˢ ᾱ ɢ ʷ ˜ ʷ ˘ ˆ ʏ ʷ Ӣ ˈ

17	ɐ ⁞ 2	Â
18	℗	℗ ƀ □ Â ɯ ˆ P08.07˜ ˘ ɥ ɥ ℗ ƀ ɥ ˘ ضي ɥ Ţ ℗ Â
19	UP/DOWN ˆ à ˜	ɥ ˘ ˝ UP/DOWN UP/DOWN ï ṿ˘ ą P08.08 ṿ Â
20	ث ɵ ℗	ث ɵ ɥ ˪ ˆ P08.02=1˜ ˘ ˝ ɣ ˪ ƀ ˪ ℗ Â ث ɵ ɥ ˪ ˆ P08.02=2˜ ˘ ˝ ɣ ˪ ƀ ˪ ℗ Â
21	ɐ ⁞	Ḡ ï ƨ ƀ ï Ḥ˝ ǯˆ Å ث ɵ ˜ ˘ ╟ ₮ Â
22	PID Å	PID ˘ ï ƨ ╟ ₮ ˘ ƀ ʻP PID Â
23	PLC β	PLCضي Ţ Å˘ ʻP ˘ ˝ ą ï ƨ ʃ PLC Δ Â
24	Å	ï ƨ ɣ Ţ ₮ Â ɯ Å Â
25	ƨ ˜	ǁ ˜ Â
26	ƨ β	ƨ Â
27	˜	˜ Â
28	β	
29	˪	ï ƨ ˪˘ ï ƨ ˜ ˪
30	PULSE ǁ˜ ˜ˆ ˙ DI5 ˜	DI5ƀ ɥ ǁ ˜ ɯ Â
31	Ḡ	Ḡ
32	˧ ˪˩	˘ ï ƨ ℗ ʃ ˪˩
33	˜	Ḥ˝ ˜ ï ƨ U˘ ï ƨ ₮ E015 Å Â
34	ḱ ą	ɯ ɥ ˘ ↕ ï ˘ ï ƨ ƀ ǯ ˘ ʃ Â
35	PIDƀ h ǚ ï	˘ PIDƀ h ƀ P15.03 h ï

˘ ˋÊ˜ ʻ www.gdetec.com


STOP

1 2 3 4

1 0 0 0

ї

	مخ	0.000s˙ 1.000s

DI Ð Â ą ﷺ ˜ ї ˩ ƀ˘ ˆ˜
ǟ ˘ ɣ ↕ ʒ Â ᵖ Ψ DI ʒ ї Â

P03.11	ث Ɔ		₮ ʌ ṿ	0
	مخ	0	ɥ 1	
		1	ɥ 2	
		2	⁂ 1	
		3	⁂ 2	

ǟ ɥ ʒ ˘ L ї كح ضم ƀ □ Â
' ч Ḃ ˘ Ӣ к ǚ DI1 ˙ DI10 ѡ ˜ Ţ DI1 à DI2 à DI3⁂
ɷ ƀ ч Â ˧ P03.00 ˙ P03.02 ṿ DI1 à DI2 à DI3⁂ ɷ
ѡ ˘ ѡ ɥ P03.00 ˙ P0309 مخ Â
0' ɥ 1' ч ą ɥ Â DIx à DIy ═ à
ї Â
ѡ Ӣ'

	ṿ	
DIx	1	ˆ FWD˜
DIy	2	ї ˆ REV˜

ї Ţ˘ DIx à DIy ч DI1˙ DI10 ѡ ˜ ˘ Â
1' ɥ 2' DIx ѡ ч ą ˘ DIy ѡ
h Â
ѡ Ӣ'

	ṿ	
DIx	1	ˆ FWD˜
DIy	2	ї ˆ REV˜

ї Ţ˘ DIx à DIy ч DI1˙ DI10 ѡ ˜ ˘ Â

2' ̂ ̂ ̂ L 1' DIn ч ą ˘ h №≠ DIx àDIy L Â
w Й,'

	ṿ	
DIx	1	ˆ FWD˜
DIy	2	ï ˆ REV˜
DIn	3	̂ ̂ ̂ L

ضي ˘ ὢ ̣ DIn ˘ DIx DIy ǁ ̇ ̇ ˆ ï
L Â

ضي Å ˘ DIn Ḥ˜ Â ì Ţ˘ DIx àDIy àDIn ч DI1˙ DI10
w ˜ ˘ DIx àDIy ч ǁ ˘ DIn ч Â

3' ̂ ̂ ̂ L 2' ą ч DIn˘ ث פ DIx ₮˘ h DIy
= Â
w Й,'

	ṿ	
DIx	1	ˆ FWD˜
DIy	2	ï ˆ REV˜
DIn	3	̂ ̂ ̂ L

ضي ˘ ὢ ̣ DIn ˘ DIx ǁ ̇ ̇ ˆ ˚ Ḥ˜ ˘ DIy
˚ h Ḥ˜ Â
ضي Å ˘ DIn Ḥ˜ Â ì Ţ˘ DIx àDIy àDIn ч DI1˙ DI10
w ˜ ˘ DIx ч ǁ ˘ DIy àDIn ч Â

P03.12	UP/DOWN ị̈	₮ ˆ ṿ	1.00Hz/s
	مخ	0.01Hz/s˙ 65.535Hz/s	

G UP/DOWN ˘ ị̈ ˘ ˆ ị̈ Â
P8.22ˆ ˜ ч 2 ˘ ṿ مخ ч 0.001Hz/s˙ 65.535Hz/s Â P8.22ˆ
˜ ч 1 ˘ ṿ مخ ч 0.01Hz/s˙ 655.35 Â

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P03.15

12	⌠	ĭ́ ⌠ P21.17 ˘ ₮ ON Ḥ˜ Â
13	Ţ	₮⁘ Ӑ ˘ ꜰ ĭ́ ⌠ ₮ ˝ ⌠⁘ Ӑ ˘ ₮ ON Ḥ˜ Â
14	Ţ	ĭ́ ⌠ ضي L Ӑ˘ ₮ ⌠ ṿ ˘ ĭ́ ⌠ G Ḡ ˘ ▯ ₮ ON Ḥ˜ Â
15	‰	ĭ́ ⌠ h عج غ L عج ˘ ꜰ ĭ́ ⌠ ⌠ K v Ḥ ˘ ĭ́ ⌠ G˜ ˘ ₮ ON Ḥ˜ Â
16	Ḡ	
17	⁘ ⌠	⌠ ⁘ ˘ ₮ ON Ḥ˜ Â
18	Ӑ ⌠ ˆ Ả Ѣ ₮˜	⌠ Ӑ ˘ ₮ ON Ḥ˜ Â Ả Ӑ Ḥ ˜ ч OFF Â
19	⅃ ₮	ĭ́ ⌠ G ⅃ ˘ ₮ ON Ḥ˜ Â
20		ᾰ ˥ Â
21	Ḡ	Ḡ
22	Ḡ	Ḡ
23	Ţ 2ˆ Ả Ӟ ₮˜	ĭ́ ⌠ ₮ ч 0 ˘ ₮ ON Ḥ˜ Â Ả Ӑ Ḥ˜ Ӟ ч ON Â
24	⁘ ⌠	ĭ́ ⌠ ⁘ ˆ P02.13˜ P21.16 ˘ ₮ ON Ḥ˜ Â
25	FDT2 ₮	ᾰ w P21.28 à P21.29 Â
26	1 ⌠ ₮	ᾰ w P21.30 à P21.31 Â
27	2 ⌠ ₮	ᾰ w P21.32 à P21.33 Â
28	1 ⌠ ₮	ᾰ w P21.38 à P21.39 Â
29	2 ⌠ ₮	ᾰ w P21.40 à P21.41 Â

Ʉ ₮ DO1 غ DO2 ₮ Â
0' ˘ ₮ غ `E ¨ ɥ ˘ ɥ

7.5 ï ǁ ˜ P5

P05.00	AI 1 ˜	₮ ʌ ṿ	-10.00V
	مخ		-10.00V˙ P05.02
P05.01	AI 1 ˜	₮ ʌ ṿ	-100.00%
	مخ		-100.00%˙ 100.0%
P05.02	AI 1 ˜	₮ ʌ ṿ	10.00V
	مخ		P05.00˙ 10.00V
P05.03	AI 1 ˜	₮ ʌ ṿ	100.0%
	مخ		-100.00%˙ 100.0%
P05.04	AI1	₮ ʌ ṿ	0.10s
	مخ		0.00s˙ 10.00s

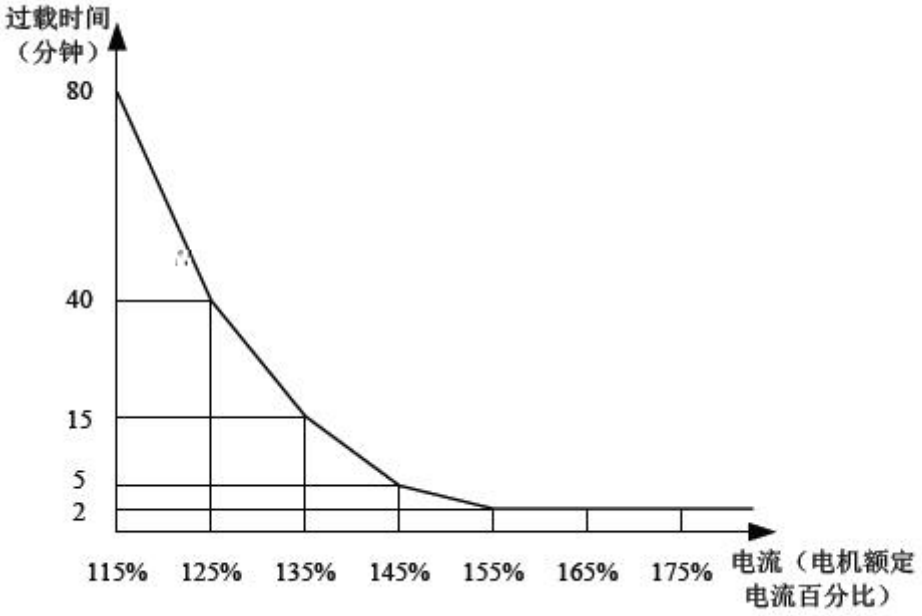
Ь ˜ '

˘ `E˜ www?

7.6 Ḡ ǟ P7

P07.00	Ḡ		ǂ ʌ ṿ	1
	مخ	0		
		1	̈Ḥ	
P07.01	Ḡ		ǂ ʌ ṿ	1.50
	مخ		0.20˙ 10.00	

P07.00=0ʹ Ḡ ʍ ˘ ˆ ضي شخ √ ˘ ĭ́ كح ƀ Ḥ
ʋ كح’
P07.00=1ʹ ĭ́ كح Ḡ ĭ̈ ˘ ∞ ʅ Â



ɒ ʹ ضي 120% ’ Ǔ 30 № ˘ ↕ ὤ Ǔ
30 № Ix Â
يح ˘ 30 № β ɢ 125% غ 135% ʍ ṕ˘ ↕ˆ ɣ ǂ
Ǔ 30 № Ix Ǔʹ (40-30) ° (125%-Ix)=(40-15) °
(125%-135%)
ǂ Ix=129%˘ ɾ ˆ ɣ ǂ ضي 120% ’ Ǔ 30 №
˘ Ḡ ʹ
P07.01=120% ° Ix=120% ° 129%=0.93
ʹ ʐ˘ P07.01 ṿ˘ ǟ
ǖ شخ ĭ́ كح ĭ̈ Ḡ √ ˛

P07.02		ǂ ʌ ṿ	80%

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	مخ	50%˙ 100%

ʍ ɢ ضي Ḡ ╟˘ DO ˪ ɯ̄ ɷ Ḥ˜ Â
ɢ ضي Ḡ ╟ Â ṿ ↕ ╟ Â

ī́ كح ₮ ˘ ɢ ĭ̈ ƀ P07.02 ĕ U˘ ī́ كح ʍ
DO ₮ ǀ' ⊾ ON Ḥ˜ Â

P07.03	⅃	₮ ⅃ ṿ	0
	مخ	0 ˆ ⅃ ˜ ˙ 100	
P07.04	⅃ Ḡ ⅃	₮ ⅃ ṿ	760.0
	مخ	200.0~2200.0	

ضي ī́ كح ⁞ Ţ˘ ⅃ ⅃ Ḡ ⅃ U˘ ī́ كح Ả ⁞ Ḡ
ضي ╟ ˘ ⅃ Ӈ U ⁞ Â

⅃ ˘ ɢ ضي ⁞ Ţ˘ ī́ كح ˪ ⅃ ʐ Â ṿ ˪ ⅃
ʐ Â ضي ƀ ǖ ⅃ ╟ Ӈ˘ Â

ɢ ˘ ⅃ ˘ ʅ ↕ ⁻ ʒ̈ ī́ Â ɢ
˘ ṿ ˘ ʅ ↕ ˪ ƀ ˘ ˜ ₮ ⅃ Â

⅃ ч 0 ˘ ǖ ⅃ ʍ Â

P07.05		₮ ⅃ ṿ	20
	مخ	0˙ 100	
P07.06	Ḡ	₮ ⅃ ṿ	150%
	مخ	50%˙ 200%	

ʻ ī́ كح ₮ ʃ Ḡ ˆ P07.06˜ ˘ ī́ كح ضي
ɤ ˘ ɣ ₮ ʼ ضي ˘ ɣ ₮ ʼ ضي ⁞ ˘ Ӈ
˘ ʃ ɢ Ḡ ˆ P07.06˜ ӊ U˘ Â
ي Â

Ḡ ʻ ʍ Ḡ Â ɑ̈ ṿ ī́ كح
Ḡ ʍ ṿ № Â

ʻ ɢ ضي ɤ ⁞ Ţ˘ ī́ كح ˪ ʐ Â ṿ ˪
ʐ Â ضي ƀ ǖ ╟ Ӈ˘ Â

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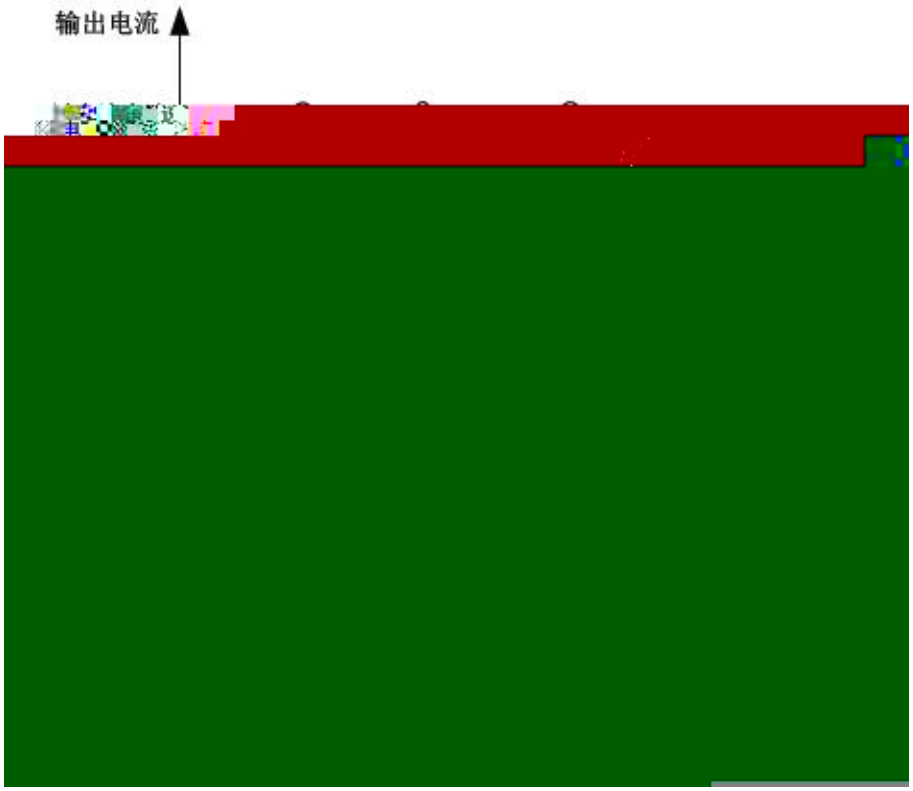
ɢ ˘ ˘ ʅ ↕ ˗ ʒ ï Â ɢ
˘ ṿ ˘ ʅ ↕ ʟ ƀ ˘ ˆ ₮ Âضي ˘ ˘
ʟ ɢ 20 Â ɥ 0 ˘ ʊ̈ ʍ Â



P07.07	ضر Ḡ	₮ ʌ ṿ	11
	مخ	ɑ β ' ⁝ ضر Ḡ ' ʌ β ' Ω ˗ ╟ ضر Ḡ	
P07.08	ʟ ˗ ʅ ˝ Ḥ ˗ ƀ ʌ	₮ ʌ ṿ	قمم
	مخ	200.0V~2000.0V	

ˆ ï كح ⁝ ˘ ʅ ضر Â
ʍ ˘ ↕ ï كح UVW ⁝ U ʊ̄ ṗ ɥ ʌ ₮ Â

P07.09	˗ β	₮ ʌ ṿ	0
	مخ	0˙ 20	

ï كح ˗ β ˘ ˆ ˗ β Â U˘ ï كح Ḡ
Â

P07.10	˗ β DO ˗ ƀ	₮ ʌ ṿ	1
	مخ	0' ƀ ˗ ƀ 1' ˗ ƀ	

˘ `Ẽ ' www.gdetec.com

ĭ́ كح ʒ ˗ β ʷ ˘ ↕ ضي ˗ β ˘ DO ʔ˗ ƀ˘ ˆ

ʏ P07.10 Â

P07.11	˗ β	₮ ʌ ṿ	1.0s
	مخ	0.1s˙ 100.0s	

ĭ́ كح ˘ ʃ ˗ β ʜ Â

₮ Ḡ ₮ ʌ ṿ 11

P07.13

مخ

Ḡ ˉ ƀ 1 ₮ ⅄ ⅴ 0ⅰ1000

ɷ β ˆ E011˜

0 Å

1 Å Å

2

P07.47 ᴍ ᴍ β ˜ Ű ⅃ m

		ᴎ β	ˆ E030˜	
		0	Å	
		1	Å Å	
		2	⁞ ⌠ 7% ˘ Ъ ↕ ˛ ⌠	
		' β	PID ï κ ˆ E031˜ ˆ ▯ P07.47 ɷ β ˜	
P07.50	Ḡ ˛ ƀ 4		₮ ᴎ ṿ	00000
	ᴍ	ɷ β	Ẓ ˆ E119˜ ˆ ▯ P07.47 ɷ β ˜	
		ᴎ β	ˆ E115˜ ˆ ▯ P07.47 ɷ β ˜	
		β	Δ β ˆ E051˜ ˆ ▯ P07.47 ɷ β ˜	
		ᴎ β	ï ˆ E052˜ ˆ ▯ P07.47 ɷ β ˜	
		' β	Ḡ	

ᴎ ľ Å Ĺ ˘ ḯ ᴄ E**˘ Å Â

ᴎ ľ Å Å Ĺ ' ḯ ᴄ A**˘ Å Å ˘ Å U E** Â

ᴎ ľ Ĺ ' ḯ ᴄ A**˘ P07.54 Â

₮ ᴎ ṿ

P07.54

	مخ	0	D كح	
		1	PT100	
		2	PT1000	
P07.57	Ḡ ṿ		₮ ʌ ṿ	110Ṇ
	مخ		0Ṇ˙ 200Ṇ	
P07.58	ṿ		₮ ʌ ṿ	90Ṇ
	مخ		0Ṇ˙ 200Ṇ	

D كح Ḥ˜ ˘ ʃ PTC ⁘ PTC+ غ GND ɥ Â

GF630N03 PTC+ PT100 غ PT1000 ɥ D كح˘ ą D
كح قمم Â ṿ ضي P23.34 Ţ Â

Ḡ ṿ P07.57 ˘ ï كح ˘ Ḡ
ˉ ƀ Â

ṿ P07.58 ˘ ï كح w DO ₮
ON Ḥ˜ Â

P07.63	Ḡ		₮ ʌ ṿ	0
	مخ	0		
		1		
P07.64			₮ ʌ ṿ	10.0%L$
	مخ		0.0%˙ 100.0%ˆ	˜
P07.65			₮ ʌ ṿ	1.0s
	مخ		0.0s˙ 60.0s	

Ḡ w ˘ ↕ ï كح ₮ G P07.64˜ ƒ
G P07.65 ˘ ï كح ₮ ˉ ʏ ɥ 7%

P07.67

ï

1' Ḡ Â

2' V/F └ ɢ ƀ ˘ w̄ ˜ ḯ كح ˘ ˜ پشي ˘ à

Â ˜ ɢ w̄ ˘ ˜ پشي Â

' └ ǟ Â7 ‰ ǟ ǖ

└ ɲ ɔ Â كح ǟ P12 w ˆ 1 ˜ ˘ ˜

ɲ Â

□ ˘ w̄ D كح └˘ № w پشي 3̈ ˜

ɣ VF └˘ GF630N03 □ D كح └ Â

P08.02	פ ث		₮ ʌ ṿ	0
	مخ	0	ƀ פ ث ˆ LED ˜	
		1	פ ث ˆ LED ˜	
		2	פ ث ˆ LED ˜	

ḯ كح └ פ ث ˜ Â

ḯ كح └ פ ث ´ ' Ω˘ à Ả à à ï̈ à ˘ Â

0' ƀ פ ث ˆ l' LOCAL L ˜ ' ƀ ⁘ RUN à STOP/RES

פ ث └ Â

1' פ ث ˆ l' LOCAL L ˜ ' w ˜ FWD à REV à JOGF à JOGR ˘

פ ث └ Â

2' פ ث ˆ l' LOCAL/REMOT L ˜ פ ث ⁘ β ₮ Â

P08.03	h X		₮ ʌ ṿ	0
	مخ	0	ˆ P08.08 UP/DOWN ˜ ḱ ˘ ƀ ˜	
		1	ˆ P08.08 UP/DOWN ˜ ḱ ˘ ˜	
		2	Ḡ	
		3	AI1	
		4	Ḡ	
		5	Ḡ	
		6	פ	

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7 PLC

8 PID

9

ĭ

ч PLC ˘ ī́ كح ˆ ضي 1~16 ɷ к פ ң ℗ ˘
1~16 ɷ̥ פ Ḡ ȁ ʞ ɤ ⁞ Ӟ ˆ ɣ ˘ ī́ ʳ ṗ ᾰ P9

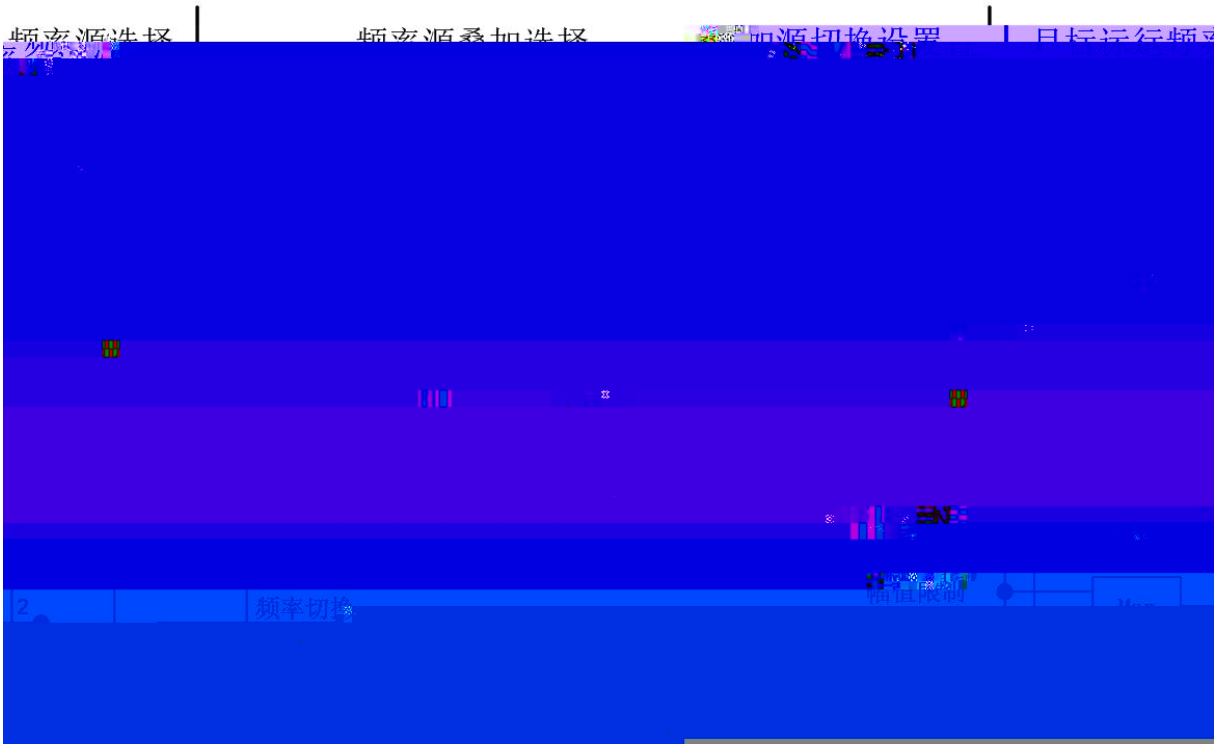
P08.05	ŋ ɤ ↑ Y ɷ		₮ ʌ ṿ	0
	ɷ	0	ɢ	
		1	ɢ h X	
P08.06	ŋ ɤ ↑ Y ɷ		₮ ʌ ṿ	0
	ɷ		0%˙ 150%	

ɯ l' ŋ ɤ L̂ ˅ P08.07 ɯ 1 à 3 4˜ ˘ ɦ ɷ ǟ
↑ ɷ Â

P08.05 ɢ ↑ ɷ ˘ ˆ ɢ ˘ Ǯ ˆ ɣ
ɢ h X˘ ɯ ɢ h ˘ ↕ ↑ ɷ h X ị̈
ị̈ Â

P08.07	ŋ ɤ		₮ ʌ ṿ	0
	ɷ	ɷ β		
		0	h X	
		1	h ˆ ˜ ʌ β ˜	
		2	h X ƀ ↑ Y Ⓟ	
		3	h X ƀ h Ⓟ	
		4	↑ Y ƀ h Ⓟ	
		ʌ β	h ˜	
		0	h +	
		1	h -	
		2	ɦ ṿ	
		3	ɦ ṿ	

ǟ Â h X ɛ ↑ Y ¨ Â
ɷ β' '



0' h X

h X ƀ ч Â

1' h h ƀ ч ˘ h ˜ w

l' M β L Â

2' h X ƀ ↑ Y ℗ w ˜ w 18 ℗ ˜

˘ h X ƀ ч Â w ˜ w 18 ℗ ˜

˘ ↑ Y ƀ ч Â

3' h X ƀ h ℗ w ˜ w 18 ℗ ˜

˘ h X ƀ ч Â w ˜ w 18 ℗ ˜

˘ h ƀ ч Â

4' ↑ Y ƀ h ℗ w ˜ w 18 ℗ ˜

˘ ↑ Y ƀ ч Â w ˜ w 18 ℗ ˜

˘ h ƀ ч Â M β' h ˜ '

0' h X+ ↑ Y

h X ƀ ↑ Y ɛ ƀ ч Â Ŋ ɐ w Â

1' h X- ↑ Y

h X ⁞ ˇ ↑ Y ƀ ч Â

2' MAX h X ˇ ↑ Y˜ ŭ h X ƀ ↑ Y Ţ ṿ ƀ ч

Â Ẓ ˘ γ ˇ Â

P08.09	h		₮ ʌ ṿ	0
	مخ	0	h w̄	
		1	h ï	

w ˘ ˆ γ ƀ ī́ ī́ h ˘ ì ƀ ɢ
ˆ U à V à W˜ κ ɳ h Â

' ǟ Δ ̣ U h ψ ʌ Â ɢ U H̄
h پشي Â

P08.10		₮ ʌ ṿ	50.00 Hz
	مخ	5.00Hz˙ 500.00Hz	

GF630N03 Ţ ˜ à ǁ ˜ˆ DI5˜ à פ

ĭ

Ӈ ⁘ Â ⁘ ˜ γ G ˆ P08.12˜ ˘ Ӟ˜ G
˜ Â ˜ ⁘ ˘ ˜ 100% P08.12 Â

ɒ ضي ɬ L شي L ˘ ч ϣ̃ ₮ ɬ L ˘ ˜ γ
⁘ ˘ ĭ كح ⁘ ṿ ˘ ĭ كح Ḡ ضي ⁘ Â

P08.12	⁘	₮ ʌ ṿ	50.00Hz
	مخ	Ӣ	P08.14˙ P08.10
P08.13	⁘ Ẓ	₮ ʌ ṿ	0.00Hz
	مخ	0.00Hz˙ P08.10	

⁘ ч PULSE ˘ P08.13 ƀ ч ṿ Ẓ ˘ Ẓ ƀ
P08.11 ⁘ ṿ Ŋ ɤ˘ ƀ ч ⁘ ṿ Â

P08.14	Ӣ	₮ ʌ ṿ	0.00Hz
	مخ	0.00Hz˙ ⁘ P08.12	

ɒ γ G P08.14 Ӣ ˘ ĭ كح˜ γ Å ȁ γ Ӣ γ
˘ v ˜ γ P21.14 γ G Ӣ ˜ Â

P08.15		₮ ʌ ṿ	ƀ ممم ɯ ˜
	مخ	0.5kHz˙ 16.0kHz	

Ψ Ӣ ↓ ᵃᵒ ʒ'

	γ ŕ
كل	ŕ
₮	ŕ
ʌ	ŕ γ
ĭ كح ʌ	γ ŕ
	ŕ
	ŕ

ƀ ▯ ɯ ĭ كح˘ ₮ ʌ ƀ ▯ Â ˜ γ ḱ ˘ p
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P08.19	⁄ ⁞	⅄ β	₮ ⅄ ṿ	1
	مخ	0	1	
		1	0.1	
		2	0.01	

ч ⅄ شي ˘ GF630N03 ⌊ 3 ⁄ ⁞ ⅄ β˘ №≠ ч 1 ǎ0.1 غ 0.01
Â
ʽ ḱ ѡ ᾰ ˘ P8 ⁄ ⁞ β ψ ị̆ ˘ ⁄ ⁞
Ӟ ǖ ị̆ ˘ Ţ ≠ Â

P08.21	ŋ ⁄ ↑ Ẓ	₮ ⅄ ṿ	0.00Hz
	مخ	0.00Hz˙	P08.10

ѡ 7 ضي ч h Â

ч h ˘ P8.21 ƀ ч Ẓ ˘ ƀ h ŋ ⁄ ƀ ч
ṿ˘ ą ˆ ʏ ч Â

Å ₮ ⅄ ṿ 0

P08.23 0 ƀ
مخ
1

P08.24 ѡ ╟ ˘ Ӟ ˆ ɣ ˜ DI ℗ Â
ѡ ѣ ˘ ɣ ч ‰ Â

P08.25	ѵ ⁞ ‰		ⅎ ʌ ṿ	0
	مخ	0	ˆ P08.10˜	
		1		
		2	100Hz	

ѵ ⁞ ˘ ɾ ⌠ P08.25 ӊ ѵ ⁞ Â
P08.25 ч 1 ˘ ѵ ⁞ ѣ ˜ ˘ ї́ ˘ ↕
ѵ ї́ ˘ Â

P08.26	ɒ UP/DOWN ‰		ⅎ ʌ ṿ	0
	مخ	0		
		1		

ǟ ˛ ч Â

ǵ ȁ η UP/DOWN ˗ ƀ ˘ ν ḱ ˘ ⅄
ضي ⁘ ⁞ ˘ ضي ⁘ ⁞ Â
Ӊ ⅄ ≢ ˘ ضي ї́ كح G ѵ ⁞ ˘ ⅄ ї́ كح ѣ
ѣ ▯ ˘ ǟ ѣ ▯ Â

P08.27	ث ɒ		ⅎ ʌ ṿ	0
	مخ	ɑ β	ƀ ث ɒ	
		0		
		1		
		2	Ḡ	
		3	AI1	
		4	Ḡ	
		5	Ḡ	
		6	ɒ	

		7	PLC
		8	PID
		9	
		ᴠ β	ث ɔ ˆ 0˙ ɡ˜ ɑ β ˜
		β	ث ɔ ˆ 0˙ ɡ˜ ɑ β ˜

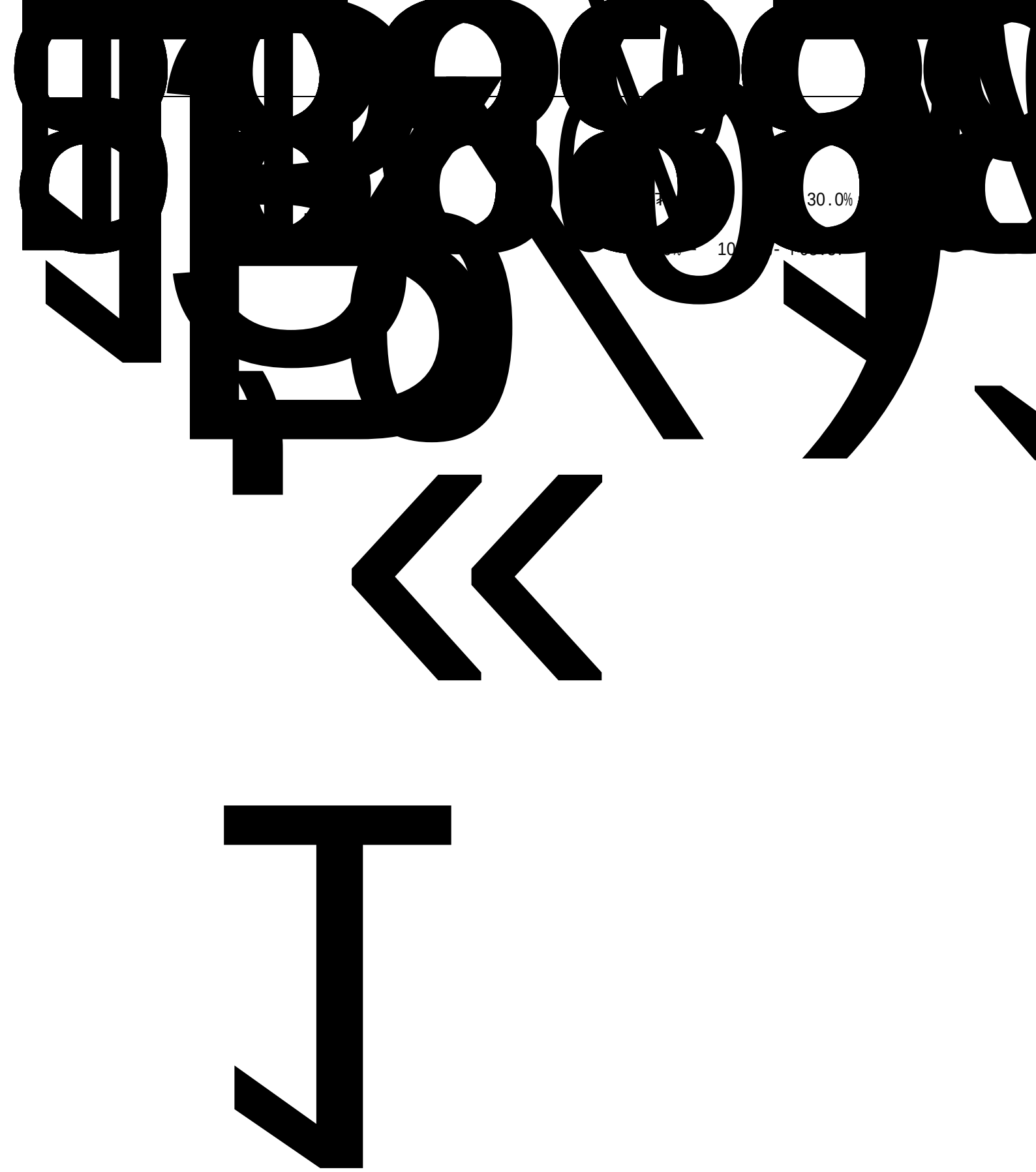
ɥ̂ ث ɔ ƀ Ж ɥ ˘ Ḃ ⓟ Â
ɣ ƈ ƀ ɥ ƀ ɦ X P08.03 ˘ ǟ P08.03 ɯ Â
ƀ ث ɔ ˆ Â ث ɔ ˘ ث
ɔ ˘ P08.03~ P08.07 ƀ ʼP ƀ Â

P08.28	[redacted]		ⅎ ᴧ ṿ	0
		0	Ɔ˜	
		1	Ḡ	
		2	Ḡ	

0ʹ Ɔ˜
Ɔ˜ L˜ ɥ 0˜ ↕ ï ƈ ɾ Ɔ˜ Â Ɔ˜ L˜ ƀ
ɥ 0˜ ↕ ɷ̀ L˜ ˘ U ʼP ɾ Ɔ˜ Â ˘ ضي Ɔ˜ ˆ
˜ پشي Â
1ʹ Ḡ
2ʹ Ḡ

Ɔ˜ ⅎ ᴧ ṿ 0.00Hz
P08.31
مخ 0.00Hz

Ɔ˜


30.0%

S ⁄ ⁞ B يح

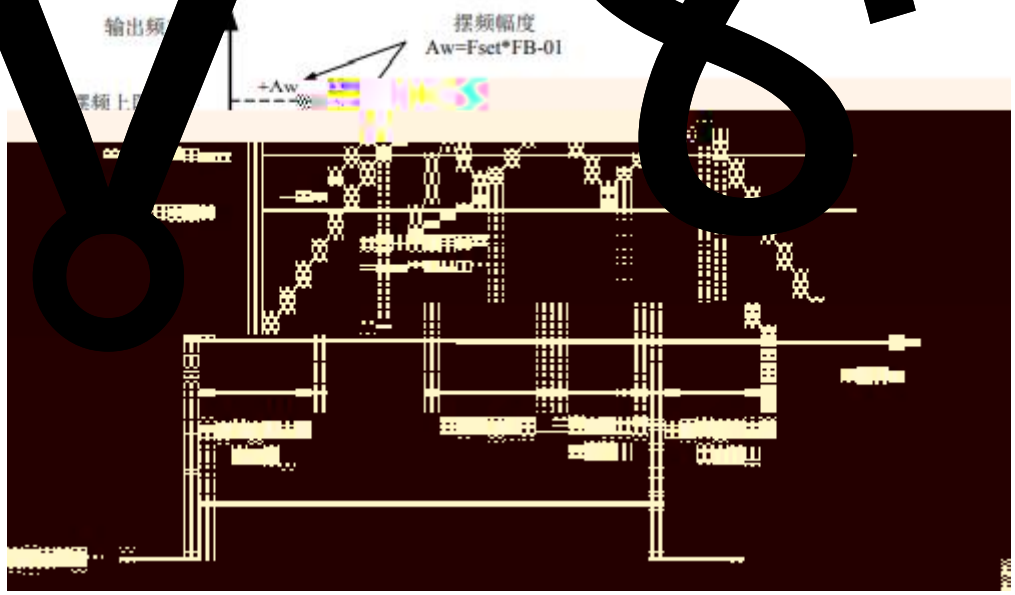
P08.38	Å		₮ ⅄ ⅴ	0
	مخ	0	⁞ Å	
		1	Å	

0' ⁞ Å Å ث ɒ U˘ ĭ́ كح ⁞ ٧ ₮ ˘ ɥ 0 U Å Â
1' Å Å ث ɒ U˘ ĭ́ كح ⅄ ₮˘ Å Â

P08.39	Å L˧	₮ ⅄ ⅴ	0.00Hz
	مخ	0.00Hz˙	
P08.40	Å L˧	₮ ⅄ ⅴ	0.0s
	مخ	0.0s˙ 36.0s	
P08.41	Å L˧	₮ ⅄ ⅴ	0%
	مخ	0%˙ 100%	
P08.42	Å L˧	₮ ⅄ ⅴ	0.0s
	مخ	0.0s˙ 36.0s	

Å L˧ ' ⁞ Å Ţ˘ ٧ ⌠ ⌠ ˘ L
˧ Â
Å L˧ ' ضي ٧ ⌠ Å L˧ U˘ ĭ́ كح ڭ Å
₮ w̄ ˘ U 'P L˧ Â G ضي L˧ ˆ
Â
Å L˧ ' Å L˧ ˘ ⅴ Ḥ Â
1 à G G ĭ́ كح 80% ˘ ɥ №
ⅴ Â
2 à G ĭ́ كح 80% ˘ 80% ĭ́ كح ɥ №
ⅴ Â
Å L˧ يح يح Â

ǐ



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P09.00		ᵀ̸ ᴧ ṿ	0
	ᴢ̀	0	ɢ Ţ
		1	ɢ

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0' Ţ ˘ ᵘ ï̈ Â Ţ ˆ ˜ ï̤ ï̤ Â
1' ˘ ᵘ ˘ ᵠ̇ Â

P09.01		ᵀ̸ ᴧ ṿ	0.0%
	ᴢ̀	0.0%˙ 100.0%	
P09.02		ᵀ̸ ᴧ ṿ	0.0%
	ᴢ̀	0.0%˙ 50.0%	

ᾰ̈ ṿ ï̈ ṿ Â

ɢ Ţ ˆ 9.00=0˜ ˘ W ,® 60 ¢$$) Ò›p P09.01 Â
ɢ ˆ 9.00=1˜ ˘ N W, ᴧ p ¦ P09.01 Â

ᵘ ˘ № ˘ ᴧ' ´
AW Ñ№ m

˘ `Ẽ ' www.gdetec.com

P09.03	Ш	₮ ʌ ṿ	10.0s
	مخ	0.0s˙ 3000.0s	
P09.04	⁂ ⁘ ˆ	₮ ʌ ṿ	50.0%
	مخ	0.0%˙ 100.0%	

Ш ' w̄ ɷ Ш ṿ Â

⁂ ⁘ ˆ P09.04˜ ⁂ ⁘ ˆ Ш P09.03 № Â

⁂ ⁘ ˆ , Ш P09.03 ⁂ ⁘ ˆ P09.04 ˘ ˥ β ч Â

⁂ Й , Ш P09.03 ¦ˆ 1˙ ⁂ ⁘ ˆ P09.04˜ ˘ ˥ β ч Â

P09.05		₮ ʌ ṿ	1000m
	مخ	0m˙ 65535m	
P09.06		₮ ʌ ṿ	0m
	مخ	0m˙ 65535m	
P09.07	ǁ	₮ ʌ ṿ	100.0
	مخ	0.1˙ 6553.5	

⁘ w ɢ ˡ Â

Ḥ w ˜ ˘ ǁ ɷ ƀ ǁ
P09.07 ˘ ˆ ʃ P09.06 Â ɢ P09.05 ˘ w
DO ₮ l' ʃ Ł ON Ḥˆ Â

ˡ Ţ˘ ˆ ɣ w DI ˘ β ƀˆ DI w ч 28˜ ˘
ï ʳ ǟ P3 ǟ Â

Ţ ˜ w ч l' ˜ Łˆ w 27˜ ˘ ضي ǁ
˘ ą DI5 ο Â

P09.08	ṿ	₮ ʌ ṿ	1000
	مخ	1˙ 65535	
P09.09	ṿ	₮ ʌ ṿ	1000
	مخ	1˙ 65535	

ṿ w ˜ Â Ţ ˜ w ч l'
˘ ˋÊ www.gdetec.com

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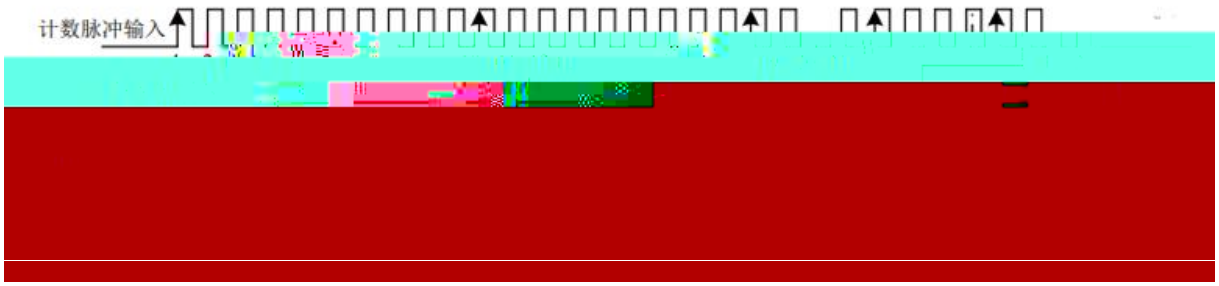
˘ ˜ Ĺˆ ʍ 25˜ ˘ ضي ǁ ˘ ą DI5 ο Â

ṿ ⌠ ṿ P09.08 ˘ ʍ DO ₮ ľ ṿ ⌠ ĹON Ḥ˜ ˘
ح Å Â

ṿ ⌠ ṿ P09.09 ˘ ʍ DO ₮ ľ ṿ ⌠ ĹON Ḥ˜ ˘
ح ˘ ⌠ ľ ṿ Ĺ ح Å Â
ṿ P09.09 Ъ ɢ ṿ P09.08 Â Й, ح ч ṿ ⌠ ĭ ṿ
⌠ ʍ ح Â



GF630N03 ɒ˘ ĭ γ ʍ ˘ ʍ ˘
˜ γ ƀ ч VF № ⅄ ˘ γ ĭ PID Â ч ˘ ɒ ч
ṿ Â
PLC ˜ ɒ ⅄ ¨ Â
" ɒ Å
P09.10

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˘ ˋÊ˜ ' www.gdetec.com

7.9 V/F L ĭ 1 ǟ P10

P10.35	ʷ	₮ ʌ ʋ	ʷ قمم
	مخ		0.1kW˙ 1000.0kW
P10.36	ʅ	₮ ʌ ʋ	ʷ قمم
	مخ		1V˙ 2000V
P10.37		₮ ʌ ʋ	ʷ قمم
	مخ		0.01A˙ 655.35

P10.50~10.54 □ ǟ ˘ ˢ □ ⁘ ψ ˪ № ǟ ˘ ᵖ №

Ь ˪⁘ ǟ ˘

P21.01	˩ ʋ	₮ ʌ ṿ	20.0s
	ʞ	0.0s˙ 6500.0s	
P21.02	˩ ⁞	₮ ʌ ṿ	20.0s
	ʞ	0.0s˙ 6500.0s	

Ʉ ˩ ĭ ʃ ĭ ʋ ⁞ Â
˩ ˘ Ω˩ ɷ ɥ Ω˩ ˆ P08.28 = 0 ˜ ˘ Å ɷ ɥ ⁞ Å
ˆ P08.38=0˜ Â

P21.03	ʋ 2	₮ ʌ ṿ	20.0s
	ʞ	0. 0s˙ 6500.0s	
P21.04	⁞ 2	₮ ʌ ṿ	20.0s
	ʞ	0. 0s˙ 6500.0s	
P21.05	ʋ 3	₮ ʌ ṿ	20.0s
	ʞ	0. 0s˙ 6500.0s	
P21.06	⁞ 3	₮ ʌ ṿ	20.0s
	ʞ	0. 0s˙ 6500.0s	
P21.07	ʋ 4	₮ ʌ ṿ	20.0s
	ʞ	0. 0s˙ 6500.0s	
P21.08	⁞ 4	₮ ʌ ṿ	20.0s
	ʞ	0. 0s˙ 6500.0s	

GF630N03 ˪ 4 ʋ ⁞ ˘ №≢ ɥ P08.17\P08.18 ĭ ʇ 3 ʋ ⁞ Â
4 ʋ ⁞ Ʉ ŋ ˘ ǟ P08.17 ɛ P08.18 ˜ Â ʍ
˜ DI ƀ ˘ ˜ ʔ Ⓟ 4 ʋ ⁞ ˘ ĭ ʳ ą ǟ ʍ
P03.01˙ P03.05 Ţ ˜ Â

P21.09	1	₮ ʌ ṿ	0.00Hz
	ʞ	0.00Hz˙	
P21.10	2	₮ ʌ ṿ	0.00Hz

M ў

ă ï ر Ղ"Ң ضي ّ ضي Ң ّ يشي ˘
P21.13=1 Â

P21.14	٧ G Й		₹ ٨ ٧	0
	٥	0	٧ Й	
		1	Å	
		2		

٧ G Й ˘ ï ر ˆ ٢ ă ÂGF630N03
ˆˆˆ ˘ ٧ Â

P21.15	Й ٥٥٥ L	₹ ٨ ٧	0.0%
	٥		

Й ٥٥٥ "Ң h ė ɾ ң ضي ˘ ˆ ٢ ѿ ا ң ‖ Â
ă ٧ 0 Â
٧ h ė ɾ L ˘ Й ٥٥٥ ˘ ѽ D ˘
Й ٥٥٥ ضي Ţ ˘ Ь P21.15 ˘ Ղ ↕
Ψ Й Â h ė ɾ Й ٥٥٥ Â
Й ٥٥٥ = ▯ ¦ ₹ (%) ¦ Й ٥٥٥ (%)
' P21.15 = 10.0% ▯ 50Hz ₹ 50% ↕'
Й ٥٥٥ = 50Hz ¦ 50% ¦ 10%=2.5Hz
ï ر = 50Hz ~ 2.5Hz = 47.5Hz

P21.18	Ѻ Ḡ	₹ ٨ ٧	1
	٥	0' Ь Ḡ 1' Ḡ	

ă ï ï ر ŋ Ḡ w Â
ă ч 1 ï ⊥ ث ɒ ^ ɒ ˊ Ϛ z ɒ

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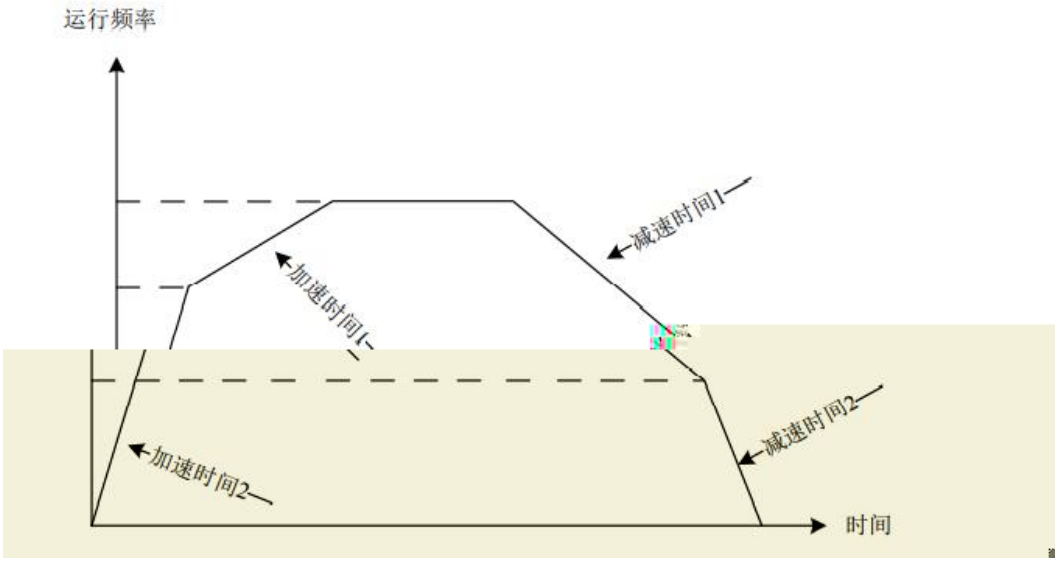
P21.22



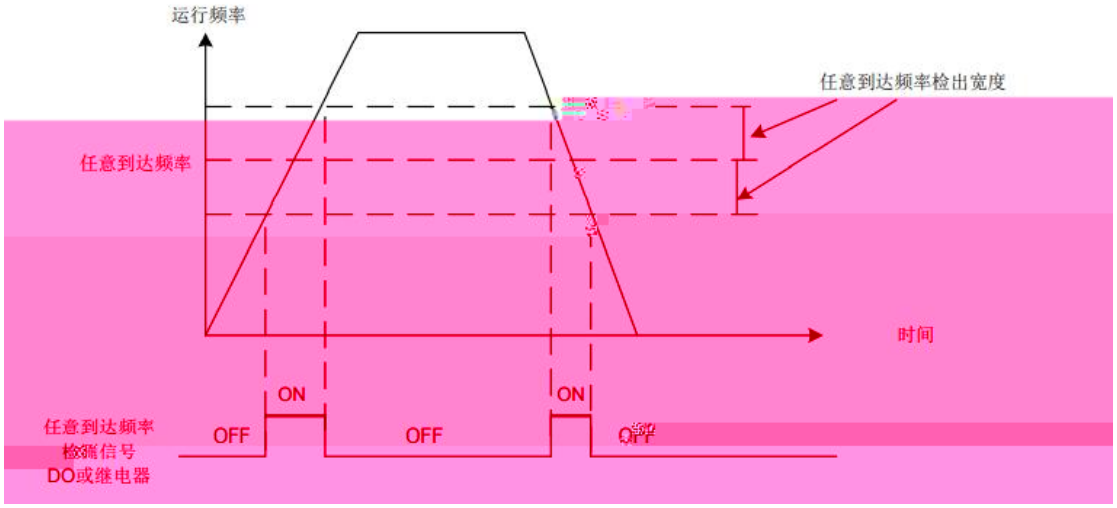
⁘ ح ч ٧ ⁞ Ⓟ ح Â ضي ٧ Ţ˘ G P21.25 ↕ ٧ 2’ G P21.25 ↕ ٧ 1Â

ضي ⁞ Ţ˘ G P21.26 ↕ ⁞ 1˘ G P21.26 ↕ ⁞ 2Â

P21.31	κ ⌠ ₮ 1	₮ ٨ ṿ	0.0%
	مخ	0.0%˙ 100.0%ˆ ˜	
P21.32	κ ⌠ ṿ 2	₮ ٨ ṿ	50.00Hz
	مخ	0.00Hz˙	
P21.33	κ ⌠ ₮ 2	₮ ٨ ṿ	0.0%
	مخ	0.0%˙ 100.0%ˆ ˜	

ĭ́ ح ₮ ˘ ضي κ ⌠ ṿ ₮ مخ ṗ ˘ ѡ DO ₮ ON Ḥ˜ Â

GF630N03 ˪ Ḥ κ ⌠ ₮ ᾰ ˘ №≢ ṿ ĭ مخ Â Ӣ ح ч ѡ ح



P21.42	w		₮ ʌ ṿ	0
	ꞏ	0		
		1		
P21.43			₮ ʌ ṿ	0
	ꞏ	0	P21.44	
		1	Ḡ	
		2	AI1	
		3	Ḡ	
		˜ 100% P21.44		
P21.44			₮ ʌ ṿ	0.0Min
	ꞏ	0.0Min˙ 6500.0Min		

ᾰ ī ᴄ w Â

P21.42 w ˘ ī ᴄ Ω ˘ ∫ U˘ ī
ᴄ ˘ Å ˘ □ w DO ₮ ON Ḥ Â
ī ᴄ Ω ˘ ɾ 0 ˘ ▼ φ P23.20
P21.43 à P21.44 ˘ ˥ β ɥ № Â

P21.61	ą		₮ ᴧ ṿ	1
	مخ	0	ƀ ą	
		1	ą	

Ω ʷ ˘ ⁞ ï ᴄ ₮ ˘ Ḡ ï ᴄ ƀ Â
ï ᴄ ɢ ˘ ï ᴄ ˆ ₮ شخ˘ ’ ƀ
˝Ḥ ˘ ʏ ï ᴄ E040˘ ï ᴄ Å Â

7.11 P19

AI1 ᴧ 1

P19.34

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ᛋ ᘐ Ḡ ˘ ĭ ᛕ ˘ ᛅ˘ ᛉ ᛅ Ḡ ᛘ ÂḠ ᛘ ᛟ˘ ᛋ

Ⓟ ĭ ᛕ ᚻ˘ Å ˘ Ḡ ⌠ ᒪ ^ β ~ Â

8.1 ᛗ

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ᛗ	ƀ	ᛅ ᚷ	ᛅ ᚷ ĭ
ĭ ᛋ ˝Ḥ Ḡ	E001	1 à ĭ ᛕ ᚻ ᚷ 2 à ĭ ᛕ ṗ ˘ 3 à ᚺ 4 à ˘ 5 à ĭ ᛖ 6 à ᚷ ĭ ᛕ 7 à ᛖ	1 à ᛗ 2 à 3 à 4 à 5 à 6 à ᛉ ᛕ ᚻ ᛕ 7 à ᛚ à ᛚ ƀ ᛜ
⁝	E003	1 à ĭ ᛕ ᚻ ᚷ ᛜ ᛜ 2 à ᒪ ᛋ ᚠ ᛄ 3 à ⁝ Ţ ᛉ 4 à ᛉ ᒪ˘ ᛋ ˝Ḥ ᚷ ᒪ˘ 5 à ⁝ 6 à ᛅ Ẓ ᛉ	1 à ᛗ 2 à ᛄ 3 à ᛉ ᛉ 4 à ᛉ ᒪ˘ ᛋ ˝Ḥ ĭ 5 à ⁝ 6 à ᛅ ᛗ
	E004	1 à ĭ ᛕ ᚻ ᚷ ᛜ ᛜ 2 à ᒪ ᛋ ᚠ ᛄ 3 à ᛅ Ẓ ᛉ 4 à Ţ ᛚ ᛉ 5 à ĭ ᛕ ᛗ Ẓ	1 à ᛗ 2 à ᛄ 3 à ᛅ ᛗ 4 à ᛉ ᛉ 5 à ᛘ ĭ ᛕ
ᒪ	E008	1 à ~ ᛅ ƀ ᛜ ᛗ ṗ	1 à ᛅ ᛗ ṗ
	E011	1 à Ḡ ᛄ P07.01 ᛚ 2 à ᛚ ᛉ 3 à ĭ ᛕ ᛗ Ẓ	1 à ᛄ 2 à ⁝ ĭ , 3 à ᛘ ĭ ᛕ
	E015	1 à ᛘ DI ~ Ḥ˜ 2 à IO ᛘ ~ Ḥ˜	1 à β 2 à β
	E018	1 à ᛕ ᚦ 2 à ˘	1 à ᛕ ᚦ 2 à ˘
EEPROM Ώ	E021	1 à EEPROM ᛖ	1 à ᚺ

ĭ ح Ð	E022	1 à ضي ⅄ 2 à ضي	1 à ⅄ 2 à
⌠	E026	1 à ⌠ ṿ	1 à ą ǟ Δ . w Ḥ
Ӈ 1	E027	1 à w DI ~ Ӈ 1 Ḥ˜ 2 à IO w ~ Ӈ 1 Ḥ˜	1 à β 2 à β
Ӈ 2	E028	1 à w DI ~ Ӈ 2 Ḥ˜ 2 à IO w ~ Ӈ 2 Ḥ˜	1 à β 2 à β

			' ĵ L¬ ỵ ϩ
L¬	E061	1 à L¬ G P08.44 ỵ	1 à L¬ ⁄ ɲ˘ ˜ P08.44 ч 0
₰ ⁄	E100	1 à ~ ⁄ Ẓ 2 à ₰ Ţ ضِ ẓ ¬ 3 à ₰ 4 à ₰ L¬ ⁄ ″Ḥ ɣ L¬	1 à ⁄ ₥ 2 à ŭ ¬ ẓ ₰ L¬ 3 à ₰ 4 à ₰ L¬ ⁄ ″Ḥ ĭ
⁞ ⁄	E101	1 à ~ ⁄ Ẓ 2 à ⁞ Ţ ضِ ẓ ¬ 3 à ⁞ 4 à ₰ L¬ ⁄ ″Ḥ ɣ L¬	1 à ⁄ ₥ 2 à ŭ ¬ ẓ ₰ L¬ 3 à ⁞ 4 à ₰ L¬ ⁄ ″Ḥ ĭ
⁄	E102	1 à ~ ⁄ Ẓ 2 à Ţ ضِ ẓ ¬	1 à ⁄ ₥ 2 à ŭ ¬ ẓ ₰ L¬
⁄	E105	1 à Å 2 à ĵ ﻙ ~ ⁄ Ь ضِ ₥ 3 à ĭ ‖ Ь 4 à ¬ 5 à ⁄ Ь 6 à L	1 à β 2 à ⁄ ⌠ ₥ 3 à 4 à 5 à 6 à
ﻙ	E108	1 à ¬ ɣ Ь 2 à ﻙ Ь	1 à ¬ 2 à ﻙ
₰	E110	1 à ĵ ﻙ ⁋ ﻉ ضِ ضر 2 à L ч ғ ₫ 3 à ضِ Ω¬ 4 à ₰ Ţ ₰ 5 à ĵ ﻙ ﻓﻤ Ẓ 6 à ₰ 7 à ¬ ϩ V/F Ь‥ 8 à ⁄ Ẓ ٧	1 à ₥ 2 à ₫ 3 à Ω¬ Å U ˈP Ω¬ 4 à ŭ ₰ 5 à W ĵ ﻙ 6 à ₰ 7 à ¬ ϩ V/F 8 à ⁄ ₥
ĵ ﻙ	E111	1 2 à ϩ ŭ à ĵ ﻙ ﻓﻤ Ẓ	1 à ⁞ ĭ , 2 à W ĵ ﻙ
ضر	E112	1 à ضر	1 à

		1 à ˆ ˆ ˆ	~	ѣ	1 à	مخ	Ţ	ضي
~	E113	2 à ˉ			2 à	p		
		3 à						
		4 à h						

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GUIdE

l' E112 L

U l' GUIdE L

E120

DI

Err17

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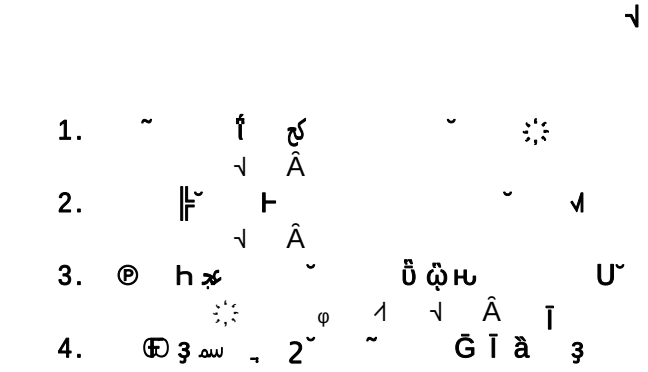

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1. ~ ƒ́ ᴄ ˘ ⁘ ˧ Â
   √ Â
2. ╟˘ ⊢ ˘ ⋎ ˘ ⱱ̄ Â
   √ Â
3. ℗ h ᴊ ˘ ǖ ᷈ ᴜ U˘ ˝ Ḡ Ī ȁ Â
   ⁘ φ ˧ √ Â Ī
4. ⓕ ʒ ᴍ ˧ 2˘ ~ Ḡ Ī ȁ ʒ

A MODBUS ˥ :

A.1 MODBUS

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ˈ ᾰ ˧ Â

1MODBUS ᾰ

w	O		ᴍ	₮ ˥ ᵥ	
		0ˈ Modbus ˥			
P14.00	˥ قمم	1ˈ PN ˥		0	æ
		2ˈ Ḡ			
		ɷ β ˈ MODBUS			
		0ˈ 300BPS			
		1ˈ 600BPS			
		2ˈ Ö1200BPS			
		3ˈ 2400BPS			
		4ˈ 4800BPS			
		5ˈ 9600BPS			
		6			
P14.01					

1	ID	1 ~ 255
2		3
3	[MSB]	
4	[LSB]	
5	[MSB]	<N>
6	[LSB]	
7	CRC [LSB]	CRC
8	CRC [MSB]	

/ Ώ ʽ

	G 3.5 ɑ D
ɾ خي ضر	خي ضر ʽ مخ 1 ˙ 247 0 ˏ خي ضر
ث ɔ	03 ɾ ɾ ɑ̈ ʼ 06 Ώ ɾ ɑ̈
H خي ضر	ث ɔ / / w خي ضر
L خي ضر	
w H	w w ɑ ˘ Ώ ث ɔ
w L	
H	˘ Ώ Ώ
L	
CRCL	CRC16 ṿ
CRCH	
	G 3.5 ɑ D

A.2 خي ضر

A.2.1 w

P05			P06			P07	
P05.00	F40DH		P06.00	F506H		P07.00	F900H
P05.01	F40EH		P06.01	F507H		P07.01	F901H
P05.02	F40FH		P06.02	F508H		P07.02	F902H
P05.03	F410H		P06.03	F509H		P07.03	F903H
P05.04	F411H		P06.04	F50AH		P07.04	F904H
P05.05	F412H		P06.05	F50BH		P07.05	F905H
P05.06	F413H		P06.06	F50CH		P07.06	F906H
P05.07	F414H		P06.07	F50DH		P07.07	F907H
P05.08	F415H		P06.08	F50EH		P07.08	F908H
P05.09	F416H		P06.09	F50FH		P07.09	F909H
P05.10	F417H		P06.10	F510H		P07.10	F90AH
P05.11	F418H		P09			P07.11	F90BH
P05.12	F419H		P09.00	FB00H		P07.12	F90CH
P05.13	F41AH		P09.01	FB01H		P07.13	F90DH
P05.14	F41BH		P09.02	FB02H		P07.14	F90EH
P05.15	F41CH		P09.03	FB03H		P07.15	F90FH
P05.16	F41DH		P09.04	FB04H		P07.16	F910H
P05.17	F41EH		P09.05	FB05H		P07.17	F911H
P05.18	F41FH		P09.06	FB06H		P07.18	F912H
P05.19	F420H		P09.07	FB07H		P07.19	F913H
P05.20	F421H		P09.08	FB08H		P07.20	F914H
P05.21	F422H		P09.09	FB09H		P07.21	F915H
P08			P09.10	FC00H		P07.22	F916H
P08.00	F000H		P09.11	FC01H		P07.23	F917H
P08.01	F001H		P09.12	FC02H		P07.24	F918H
P08.02	F002H		P09.13	FC03H		P07.25	F919H
P08.03	F003H		P09.14	FC04H		P07.26	F91AH
P08.04	F004H		P09.15	FC05H		P07.27	F91BH
P08.05	F005H		P09.16	FC06H		P07.28	F91CH
P08.06	F006H		P09.17	FC07H		P07.29	F91DH
P08.07	F007H		P09.18	FC08H		P07.30	F91EH
P08.08	F008H		P09.19	FC09H		P07.31	F91FH
P08.09	F009H		P09.20	FC0AH		P07.32	F920H
P08.10	F00AH		P09.21	FC0BH		P07.33	F921H
P08.11	F00BH		P09.22	FC0CH		P07.34	F922H
P08.12	F00CH		P09.23	FC0DH		P07.35	F923H
P08.13	F00DH		P09.24	FC0EH		P07.36	F924H
P08.14	F00EH		P09.25	FC0FH		P07.37	F925H
P08.15	F00FH		P09.26	FC10H		P07.38	F926H
P08.16	F010H		P09.27	FC11H		P07.39	F927H
P08.17	F011H		P09.28	FC12H		P07.40	F928H
P08.18	F012H		P09.29	FC13H		P07.41	F929H
P08.19	F013H		P09.30	FC14H		P07.42	F92AH
P08.20	F014H		P09.31	FC15H		P07.43	F92BH

P08.21	F015H	P09.32	FC16H	P07.44	F92CH
P08.22	F016H	P09.33	FC17H	P07.45	F92DH
P08.23	F017H	P09.34	FC18H	P07.46	F92EH
P08.24	F018H	P09.35	FC19H	P07.47	F92FH
P08.25	F019H	P09.36	FC1AH	P07.48	F930H
P08.26	F01AH	P09.37	FC1BH	P07.49	F931H
P08.27	F01BH	P09.38	FC1CH	P07.50	F932H
P08.28	F600H	P09.39	FC1DH	P07.51	F933H
P08.29	F601H	P09.40	FC1EH	P07.52	F934H
P08.30	F602H	P09.41	FC1FH	P07.53	F935H
P08.31	F603H	P09.42	FC20H	P07.54	F936H
P08.32	F604H	P09.43	FC21H	P07.55	F937H
P08.33	F605H	P09.44	FC22H	P07.56	F938H
P08.34	F606H	P09.45	FC23H	P07.57	F939H
P08.35	F607H	P09.46	FC24H	P07.58	F93AH
P08.36	F608H	P09.47	FC25H	P07.59	F93BH
P08.37	F609H	P09.48	FC26H	P07.60	F93CH
P08.38	F60AH	P09.49	FC27H	P07.61	F93DH
P08.39	F60BH	P09.50	FC28H	P07.62	F93EH
P08.40	F60CH	P09.51	FC29H	P07.63	F93FH
P08.41	F60DH	P09.52	FC2AH	P07.64	F940H
P08.42	F60EH	P09.53	FC2BH	P07.65	F941H
P08.43	F60FH	P09.54	FC2CH	P07.66	F942H
P08.44	F610H	P09.55	FC2DH	P07.67	F943H
P08.45	F611H	P09.56	FC2EH	P07.68	F944H
P08.46	F612H	P09.57	FC2FH	P07.69	F945H
P08.47	F613H	P09.58	FC30H	P07.70	F946H
P08.48	F614H	P09.59	FC31H	P07.71	F947H
P08.49	F615H	P09.60	FC32H	P07.72	F948H
		P09.61	FC33H	P07.73	F949H
				P07.74	F94AH
				P07.75	F94BH

P10		P11		P12	
		P11.00	A200H	P12.00	F200H
		P11.01	A201H	P12.01	F201H
		P11.02	A202H	P12.02	F202H
		P11.03	A203H	P12.03	F203H
		P11.04	A204H	P12.04	F204H
		P11.05	A205H	P12.05	F205H
		P11.06	A206H	P12.06	F206H
		P11.07	A207H	P12.07	F207H
		P11.08	A208H	P12.08	F208H
P10.00	F300H	P11.09	A209H	P12.09	F209H
P10.01	F301H	P11.10	A20AH	P12.10	F20AH

P10.02	F302H	P11.11 ~P11.15	A20BH ~A20FH	P12.11	F20BH
P10.03	F303H	P11.16	A210H	P12.12	F20CH
P10.04	F304H	P11.17	A211H	P12.13	F20DH
P10.05	F305H	P11.18	A212H	P12.14	F20EH
P10.06	F306H	P11.19	A213H	P12.15	F20FH
P10.07	F307H	P11.20	A214H	P12.16	F210H
P10.08	F308H	P11.21	A215H	P12.17	F211H
P10.09	F309H	P11.22 ~P11.26	A216H ~A21AH	P12.18	F212H
P10.10	F30AH	P11.27	A21BH	P12.19	F213H
P10.11	F30BH	P11.28	A21CH	P12.20	F214H
P10.12	F30CH	P11.29	A21DH	P12.21	F215H
P10.13	F30DH	P11.30	A21EH	P12.22	F216H
P10.14	F30EH	P11.31	A21FH	P12.23	F217H
P10.15	F30FH	P11.32	A220H	P12.24	F218H
P10.16	F310H	P11.33	A221H	P12.25	F219H
P10.17	F311H	P11.34	A222H	P12.26	F21AH
P10.18	F312H	P11.35	A223H	P12.27	F21BH
P10.19	F313H	P11.36	A224H	P12.28	F21CH
P10.20	F314H	P11.37	A225H	P12.29	F21DH
P10.21	F315H	P13		P12.30	F21EH
P10.22	F316H	P13.00	A226H	P12.31	F21FH
P10.23	F317H	P13.01	A227H	P12.32	F220H
P10.24	F318H	P13.02	A228H	P12.33	F221H
P10.25	F319H	P13.03	A229H	P12.34	F222H
P10.26	F31AH	P13.04	A22AH	P12.35	F223H
P10.27	F31BH	P13.05	A22BH	P12.36	F224H
P10.28	F31CH	P13.06	A22CH	P12.3..	d

P10.45 ~P10.49	F10BH ~F10FH		P13.23	A23DH		P15.00	FA00H
P10.50	F110H		P13.24	A23EH		P15.01	FA01H
P10.51	F111H		P13.25	A23FH		P15.02	FA02H
P10.52	F112H		P13.26	A240H		P15.03	FA03H
P10.53	F113H		P13.27	A241H		P15.04	FA04H
P10.54	F114H		P13.28	A242H		P15.05	FA05H
P10.55	F115H		P13.29	A243H		P15.06	FA06H
P10.56 ~P10.60	F116H ~F11AH		P13.30	A244H		P15.07	FA07H
P10.61	F11BH		P13.31	A245H		P15.08	FA08H
P10.62	F11CH		P13.32	A246H		P15.09	FA09H
P10.63	F11DH		P13.33	A247H		P15.10	FA0AH
P10.64	F11EH		P13.34	A248H		P15.11	FA0BH
P10.65	F11FH		P13.35	A249H		P15.12	FA0CH
P10.66	F120H		P13.36	A24AH		P15.13	FA0DH
P10.67	F121H		P13.37	A24BH		P15.14	FA0EH
P10.68	F122H		P13.38	A24CH		P15.15	FA0FH
P10.69	F123H		P13.39	A24DH		P15.16	FA10H
P10.70	F124H		P13.40	A24EH		P15.17	FA11H
P10.71	F125H		P13.41	A24FH		P15.18	FA12H
P14			P13.42	A250H		P15.19	FA13H
P14.00	F01CH		P13.43	A251H		P15.20	FA14H
P14.01	FD00H		P13.44	A252H		P15.21	FA15H
P14.02	FD01H		P13.45	A253H		P15.22	FA16H
P14.03	FD02H		P13.46	A254H		P15.23	FA17H
P14.04	FD03H		P13.47	A255H		P15.24	FA18H
P14.05	FD04H		P13.48	A256H		P15.25	FA19H
P14.06	FD05H		P13.49	A257H		P15.26	FA1AH
P14.07	FD06H		P13.50	A258H		P15.27	FA1BH
P14.08	FD07H		P13.51	A259H		P15.28	FA1CH
P14.09	FD08H		P13.52	A25AH		P21	
			P13.53	A25BH		P21.00	F800H
P16			P19			P21.01	F801H
P16.00	A100H		P19.00	A600H		P21.02	F802H
P16.01	A101H		P19.01	A601H		P21.03	F803H
P16.02	A102H		P19.02	A602H		P21.04	F804H
P16.03	A103H		P19.03	A603H		P21.05	F805H
P16.04	A104H		P19.04	A604H		P21.06	F806H
P16.05	A105H		P19.05	A605H		P21.07	F807H
P16.06	A106H		P19.06	A606H		P21.08	F808H
P16.07	A107H		P19.07	A607H		P21.09	F809H
P16.08	A108H		P19.08	A608H		P21.10	F80AH
P16.09	A109H		P19.09	A609H		P21.11	F80BH
P16.10	A10AH		P19.10	A60AH		P21.12	F80CH

P16.11	A10BH		P19.11	A60BH		P21.13	F80DH
P16.12	A10CH		P19.12	A60CH		P21.14	F80EH
P16.13	A10DH		P19.13	A60DH		P21.15	F80FH
P16.14	A10EH		P19.14	A60EH		P21.16	F810H
P16.15	A10FH		P19.15	A60FH		P21.17	F811H
P16.16	A110H		P19.16 ~P19.23	A610H ~A617H		P21.18	F812H
P16.17	A111H		P19.24	A618H		P21.19	F813H
P16.18	A112H		P19.25	A619H		P21.20	F814H
P16.19	A113H		P19.26	A61AH		P21.21	F815H
P16.20	A114H		P19.27	A61BH		P21.22	F816H
P16.21	A115H		P19.28	A61CH		P21.23	F817H
P17			P19.29	A61DH		P21.24	F818H
P17.00	FE00H		P19.30	AC00H		P21.25	F819H
P17.01	FE01H		P19.31	AC01H		P21.26	F81AH
P17.02	FE02H		P19.32	AC02H		P21.27	F81BH
P17.03	FE03H		P19.33	AC03H		P21.28	F81CH
P17.04	FE04H		P19.34	AC04H		P21.29	F81DH
P17.05	FE05H		P19.35	AC05H		P21.30	F81EH
P17.06	FE06H		P19.36	AC06H		P21.31	F81FH
P17.07	FE07H		P19.37	AC07H		P21.32	F820H
P17.08	FE08H		P19.38	AC08H		P21.33	F821H
P17.09	FE09H		P19.39	AC09H		P21.34	F822H
P17.10	FE0AH		P19.40	AC0AH		P21.35	F823H
P17.11	FE0BH		P19.41	AC0BH		P21.36	F824H
P17.12	FE0CH		P19.42	AC0CH		P21.37	F825H
P17.13	FE0DH		P19.43	AC0DH		P21.38	F826H
P17.14	FE0EH		P19.44	AC0EH		P21.39	F827H
P17.15	FE0FH		P19.45	AC0FH		P21.40	F828H
P17.16	FE10H		P19.46	AC10H		P21.41	F829H
P17.17	FE11H		P19.47	AC11H		P21.42	F82AH
P17.18	FE12H		P19.48	AC12H		P21.43	F82BH
P17.19	FE13H		P19.49	AC13H		P21.44	F82CH
P17.20	FE14H		P20			P21.45	F82DH
P17.21	FE15H		P20.00	A000H		P21.46	F82EH
P17.22	FE16H		P20.01	A001H		P21.47	F82FH
P17.23	FE17H		P20.02	A002H		P21.48	F830H
P17.24	FE18H		P20.03	A003H		P21.49	F831H
P17.25	FE19H		P20.04	A004H		P21.50	F832H
P17.26	FE1AH		P20.05	A005H		P21.51	F833H
P17.27	FE1BH		P20.06	A006H		P21.52	F834H
P17.28	FE1CH		P20.07	A007H		P21.53	F835H
P17.29	FE1DH		P20.08	A008H		P21.54	F836H
P17.30	FE1EH					P21.55	F837H
P17.31	FE1FH					P21.56	F838H

P23 (P23.00~P23.26)			P23 (P23.27~P23.63)			P21.57	A500H
P23.00	7000H		P23.27	701BH		P21.58	A501H
P23.01	7001H		P23.28	701CH		P21.59	A502H
P23.02	7002H		P23.29	701DH		P21.60	A503H
P23.03	7003H		P23.30	701EH		P21.61	A504H
P23.04	7004H		P23.31	701FH		P21.62	A505H
P23.05	7005H		P23.32	7020H		P21.63	A506H
P23.06	7006H		P23.33	7021H		P21.64	A507H
P23.07	7007H		P23.34	7022H		P21.65	A508H
P23.08	7008H		P23.35	7023H		P21.66	A509H
P23.09	7009H		P23.36	7024H		P23 (P23.64~P23.74)	
P23.10	700AH		P23.37	7025H		P23.64	7040H
P23.11	700BH		P23.38	7026H		P23.65	7041H
P23.12	700CH		P23.39	7027H		P23.66	7042H
P23.13	700DH		P23.40	7028H		P23.67	7043H
P23.14	700EH		P23.41	7029H		P23.68	7044H
P23.15	700FH		P23.42	702AH		P23.69	7045H
P23.16	7010H		P23.43	702BH		P23.70	7046H
P23.17	7011H		P23.44	702CH		P23.71	7047H
P23.18	7012H		P23.45	702DH		P23.72	7048H
P23.19	7013H		P23.46	702EH		P23.73	7049H
P23.20	7014H		P23.47 ~P23.57	702FH ~7039H		P23.74	704AH
P23.21	7015H		P23.58	703AH			
P23.22	7016H		P23.59	703BH			
P23.23	7017H		P23.60	703CH			
P23.24	7018H		P23.61	703DH			
P23.25	7019H		P23.62	703EH			
P23.26	701AH		P23.63	703FH			

A 2.2 Ώ ǟ خي ضر

ǟ خي ضر (HEX)	ǟ	ɣ β		
1000H	Ḥ ṿ ˆ ⅵ L~ ~ 10000 · 10000	0.01%	⁊ Ώ	1 à Ḥ ṿ ṿ № ˘ 10000 100.00%˜ -10000 -100.00% Â 2 à ˘ № ˆ P08.10˜ № ’ ˘ № P12.10 à P13.10ˆ ⁘ ˘ №≢ ϖ à ʉ ˜ Â

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A 2.3 ǟ خي ضر

ǟ خي ضر (HEX)	ǟ	ɣ β	
1001H		0.01Hz	⁷
1002H	⅄	0.1V	⁷
1003H	₮ ⅄	1V	⁷
1004H	₮	0.01A	⁷
1005H	₮ w	0.1kW	⁷
1006H	₮	0.10%	⁷
1007H		1	⁷
1008H	DI ~	1	⁷
1009H	DO ₮	0.01V	⁷
100BH	AI1 ⅄	0.01V	⁷
100DH	ṿ ~	1	⁷
100EH			

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