w̄ Hʊ 1
1.1 ŋ ˜ 1
1.2 ą 1
ʜ ˇ : 1
2.1 ˇ 1
2.2 2
ːːːː Ħ : 3
3.1 Ħ ʊ̆ 3
3.2 ʁ 4
3.3 Ħ ظ 8
ɔ ˚ ˛ : 8
4.1 ˩ ˛ 8
4.1.1 ˩ ˛ ڃ 8
4.1.2 ʁ 9
4.1.3 ƀ Ħ 9
4.2 9
4.2.1 ڃ ʊ̆ 10
4.2.2 ʁ 10
4.2.3 ƀ Ħ 11
4.3 LED ĩ 5X7 11
4.4 LED ĩ 16X16 11
ɲ ƀ ڜ ƀ ʊ̆ ĭ̆ 11
5.1 11
5.2 ƀ 12
5.3 ĭ̆ ʊ̆ 13
5.3.1 Ħ ٦ 13
5.3.2 13
5.3.3 ٦ ʊ̆ ĭ̆ ٦ 13
5.3.4 Ḡ ĭ̆ 17
5.3.5 17
Ɛ ƀ Ḡ Ī 18
6.1 ƀ Ḡ Ī ŋ Hʊ 18
6.2 18
6.3 Ḡ ḱ 18
ʿ ɳ 19

w̄ Hʊ

1.1 ŋ ˜

1. Ţ ⅃ ƀ ɦ ´ 220V/110V ⅃ ˜˘ ą ˘ ⊥Ḡ Â
2.

		3	
	Å	4	¬ ~ ˘ Å ˘ ¬ ~ ˘ Ч
Ł„		6	
	Å	7	¬ ~ ˘ Å ˘ ¬ ~ ˘ Ч

5) ŋ Ḡ ˅

a) ŋ ż Ḡ ˈ ˥ ƴ ℗ ŋ ż ˘ ą ⊥ Å ’

b) ˆ ֍ Ḡ ˈ ˥ h ż ֍ „ ƀ ` ˥ Â ǔ ˆ h Ƕ ~˜ ⊥ Å ’

c) Ḡ ˈ ֍ ˀ ƀ Ƕ ’

d) ¬ Ʊ ~ Ḡ ˈ w ˘ ¬ Ʊˆ ƀ Ʊ ǐ ~ ~ ˘ ₮ Â

2.2

ƴ Й ɒ˙

1. ŋ ż ˆ X7 ˛ ~ ;
2. ֍ ~ ˘ Å X9 ˛ ˘ X9 (Ƕ ǐ);
3. ˚ Ł„ ֍ ` ₮ Â

Ł„ ˅ Å Ł ˈ

ŵ Ł Ч‘

Ł„ ˈ Ł„ ₮5S Í ŕ Y0 à Y1 ₮ ŕ Ł„ ֍ à; Й ֍ à ֍ Í ŕ 4s Å ֍ Í ŕ Ł„ ֍ Å ˈ ֍ ш .(Y0 à Y1) ˘ Â

Ŷ1 Ł Ч‘

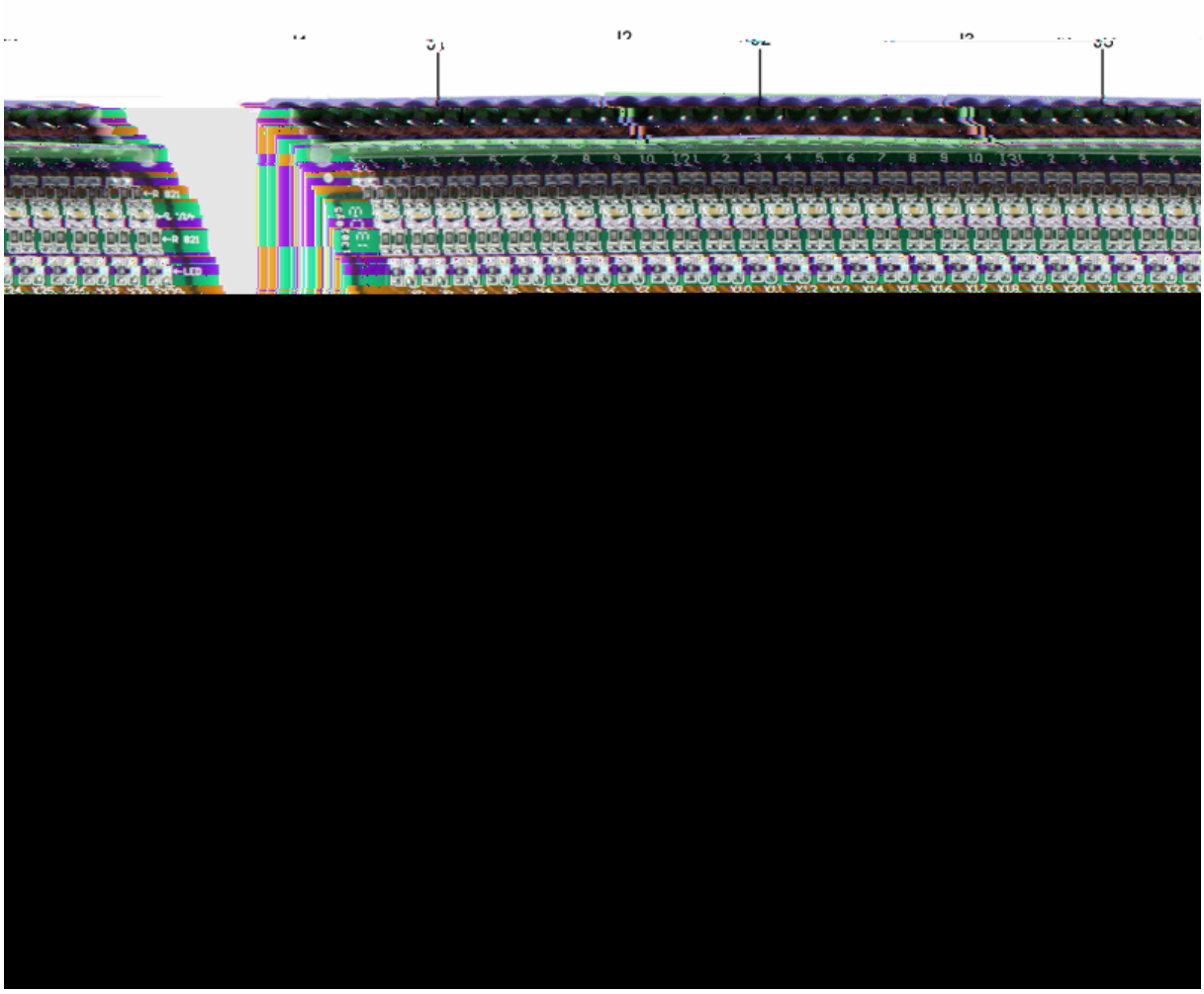
Ł„ ˈ h ֍ˆ ; ~ Í ŕ Ł„ ₮5S Í ŕ ˆ ֍ ₮ Í ŕ Ł„ Ʊ à ą Í ŕ Ḥ„ ż Ƶ ₮ Í ŕ ₮ Å ˈ ш à Ʊ à ą Í ŕ à ˆ ֍

ŷ Ł„ Ł Ч‘

Ł„ ˈ h ֍ˆ ; ~ Í ŕ Ł„ ₮5S Í ŕ ˆ ֍ ₮ Í ŕ Ł„ Ʊ à ą Í ŕ Ḥ„ ż Ƶ ₮ Í ŕ ₮ Í ŕ ą Í ŕ ˆ ֍ Í ŕ Ł„ ֍ Å ˈ ш à Ʊ à ą ä ֍ Í ŕ à ˆ ֍

h :

3.1 h ษ๊



ฬ 1 h BL2000-FTB-V3 ษ๊ ’



ظ2 h

3.2 Ђ

2 ~ Ђ

▪	▪	Ђ	
J1_1	X0	⁚ ѽ ~	
J1_2	X1	Ѝ ѽ ~	
J1_3	X2	1 ֍ Ң„ ~	
J1_4	X3	1 ֍ Ң„ ~	
J1_5	X4	֍ 1 ї ~ ң ֍ ї ұ ~	
J1_6	X5	⁚ ~	
J1_7	X6	Ѝ ~	
J1_8	X7	ŋ ֎ ֍ ї ~	
J1_9	X8 [5]	▪ / ќ^ ч ▪ ~	
J1_10	X9 [1]	Ћ ї 1 ^ ֍ ї	
J2_1	X10	▪ ~	
J2_2	X11	▪	X11-X28 [2]
J2_3	X12		ч ŋ ֎

~

J2_5	X14		
J2_6	X15		
J2_7	X16		
J2_8	X17		
J2_9	X18		
J2_10	X19		
J3_1	X20		
J3_2	X21		
J3_3	X22		
J3_4	X23		
J3_5	X24		
J3_6	X25		
J3_7	X26		
J3_8	X27		
J3_9	X28		

J5_2	L1	ŋ ☓ ₋ ₮ g ^ ☬ Ẽ ₮˜	ᒣ
J5_3	L2	ŋ ☓ ₋ ₮ f ^ ☬ Ẽ ₮˜	20mA
J5_4	L3	ŋ ☓ ₋ ₮ e ^ ☬ Ẽ ₮˜	
J5_5	L4	ŋ ☓ ₋ ₮ d ^ ☬ Ẽ ₮˜	
J5_6	L5	ŋ ☓ ₋ ₮ c ^ ☬ Ẽ ₮˜	
J5_7	L6	ŋ ☓ ₋ ₮ b ^ ☬ Ẽ ₮˜	
J5_8	L7	ŋ ☓ ₋ ₮ a ^ ☬ Ẽ ₮˜	
J5_9	L8	⁛ Ъ ₮^ ☬ Ẽ ₮˜	
J5_10	L9	Ѝ Ъ ₮^ ☬ Ẽ ₮˜	
J6_1	COM7	L0-L9 ₮ ‘E ”	
J6_2	COM7	L0-L9 ₮ ‘E ”	
J6_3	Y0	KMC h ⍥ ₮(ı ⍥ ╠)	⍥ ₮
J6_4	Y1	KDY ^ ⍥ ₮^ ╠ ˜	
J6_5	Y2	⍥ 1 ₮	
J6_6	Y3	⍥ 2 ₮^ Ь₋ ч⁛ ⍥˜	
J6_7	COM1	Y0 à Y1 à Y2 à Y3 ₮ ‘E ”	
J6_8	Y4	ı ⍥ ą ₮^ ⁻ ⁛ ч ⍥ ₮˜	
J6_9	Y5	ı ⍥ ₮^ ⁻ ⁛ ч⁛ ⍥ ₮˜	
J6_10	Y6	ı ⍥ ΐ ₮^ ⁻ ⁛ ч Ѝ ⍥ ₮˜	
J7_1	COM2	Y4 à Y5 à Y6 ₮ ‘E ”	
J7_2	Y7 [3]	ı ⍥ 0 ₮(⁛ ч⁛ ⍥ ₮)	
J7_3	Y8 [3]	ı ⍥ 1 ₮	
J7_4	COM3	Y7 à Y8 ₮ ‘E ”	
J7_5	Y9	⁼ ₮	
J7_6	COM4	Y9 ₮ ‘E ”	
J7_7	Y10	Ь₋ ˇ ₮ ^ ˊ ˛ ~	
J7_8	COM5	Y10 Ь₋ ₮ ‘E ”	
J7_4	Y11 [4]	⁼ Ь₋ ⍥ ₮ ^ ˊ ˛ ~	
J7_5	COM6	Y11 ⁼ Ь₋ ⍥ ₮ ‘E ”	

ɢ № ~ ₮ ‘

1. ~ X9 ⁝⁝ ㄱ ч ₃ ɢ ⑉(⁘ Й ą à ⑉ à ⁝⁝ ⑉) Ю ĭ ^ Å Ю ~ ي ɢ ^ ⑉ ĭ ˇ ɢ ⑉ ˇ З ㄱ ч Ь Â

2. X11~X28 ~ ч ŋ ج ˀ ~˘ ì Ţ X11 à X12 à X13(⑊ , ⑊ , ⑊ ⅄) ~ ˇ ˚ ⑊ ⑉ ⑊ Ъ˘ β ˇ ㄱ № ⁝⁝ ~ Ь ì ı ~ ㄱ≠ Â

3. ₮ ‘

	1 ⑉ 0 ₮ (Y7)	**1 ⑉ ″ ₮ (Y8)**
ќ	″	0
ɣ	°	1
	″	1

Ь Ƣ1 ⑉ ˇ ĭ ˇ 1 ⑉ ĭ Â

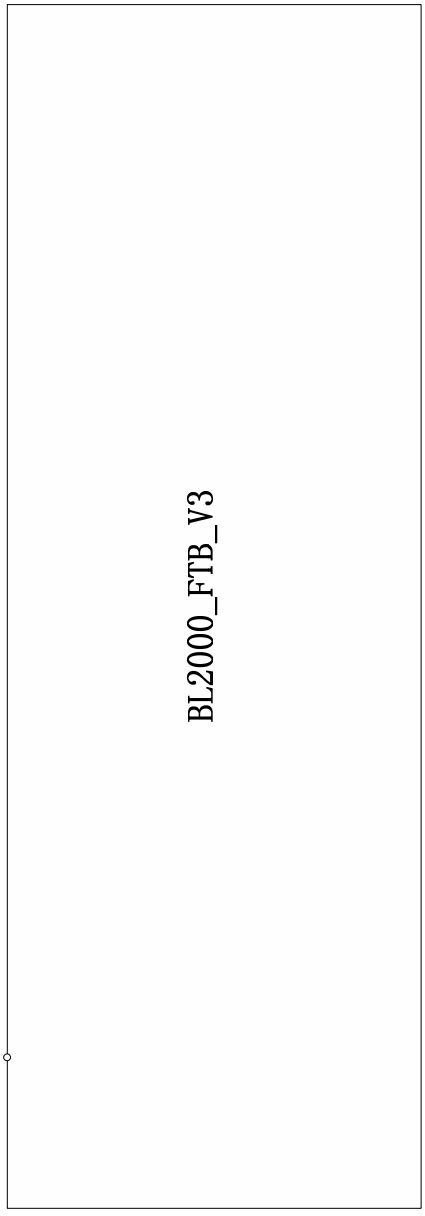
= * *3.14* ⁞ ƒ 60*1000* ~

4. ˚ ⑊ ⑉ Y11 ₮

Y11 ₮ ج ĭ ˚ ⑊ ⑉ Ъ Â ч OFF ˇ ⁘ Ƶ ˚ ⑊ ⑉ ^ Y11˜ ㅅ ₮˘ ŭ à ŋ ج ⁞⁞ ɢ ^ X11-X13 ~ ˜ ˚ ⑊ ⑉ Y11˜ Å ₮’ ч ON ⁘ Ƶ ˚ ⑊ ⑉ Y11˜ ₮˘ ŋ ج ⁞⁞ ɢ ^ X11-X13 ~ ˜ ˚ ⑊ ⑉ Y11˜ ₮ Â ч ON, ⁘ ŭ ˇ Ь ˇ β Ƶ Â

5. ي L Ţ˘ ㄱ Å ^ ˇ Å ~ Ɣ ي ќ / ⑊ ˜^ X8˜ ج Ţ˘ ي Й ˇ ~ ќ ˇ ɢ ќ ч ⑊ ˇ ي Ъ ~ ’ Й˜ Å ˇ ˇ ~ ⑊ ˇ Ъ ~ ˇ Â

3.3 h طي



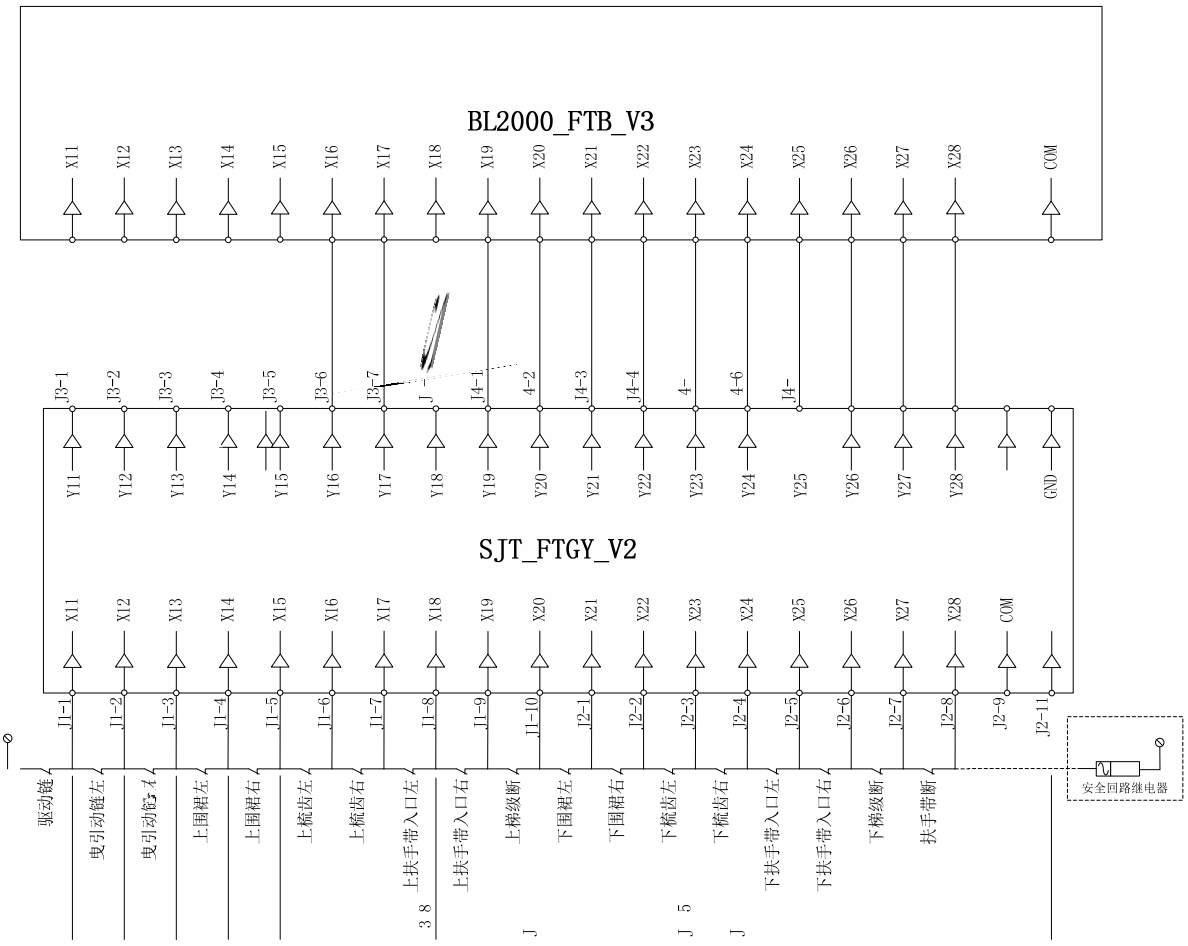
ي 4 ل ’ ŭ ’

4.1.2 Ɥ

4 ل ’ Ɥ

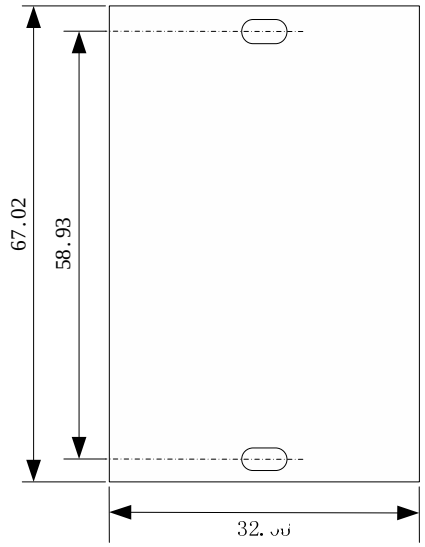
‒	Ɥ	
COM	X11-X28 ˜ ‘E ”	
X11-X28	18 ŋ ڊ ˝ ل ˜	‘ r Ɥ 2
GND	Y11-Y28 ₮ ‘E ”	Ɦ COM
Y11-Y28	18 ŋ ڊ ˝ ₮	X11-X28 ₮

4.1.3 Ƅ Ɦ



4.2.1

طﻲ 6



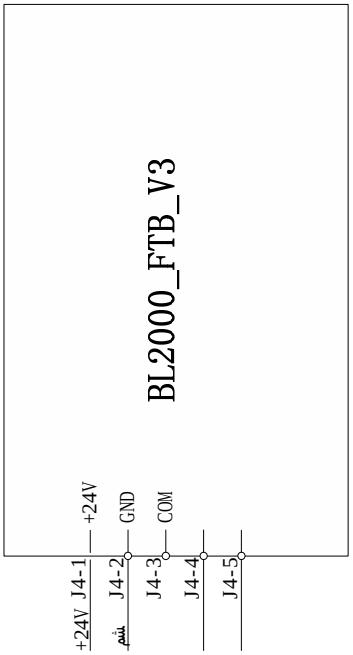
طﻲ 7

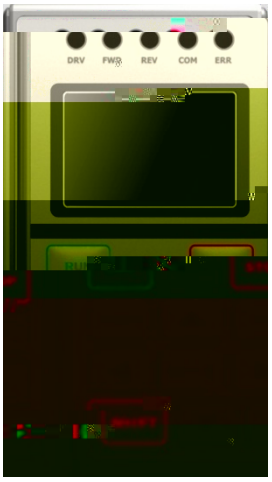
4.2.2 Ђ

5 Ђ

‑	Ђ	
J1-1	β b à c ~	
J1-2	γ β g ~	
J1-3	γ β f ~	
J1-4	γ β e ~	
J1-5	γ β d ~	
J1-6	γ β c ~	
J1-7	γ β b ~	
J1-8	γ β a ~	
J2-1	Й Ъ ~	
J2-2	Ъ ~	
J2-3	+24V ~	
J2-4	+24V ~	

4.2.3 Ь Ь





طِ 9 ђ ڜ

ђ ڜ ٦ ٫ ЙҐ

ˆ 1˜ ˈ w à ќ ’

ˆ 2˜ ˈ à I/O ˈ à Ң ’

ˆ 3˜ ў ˈ ў à ў à ў ’

ˆ 5˜ Ḡ ў ’

ˆ 6˜ Â

ṗ ң ɷ ˈ ŵ ɷ ˘ ќ “J”, Ъ ˇ ڍ ṗ “P”˘

ỉ ɪ “—” ң ɷ Â ˘ ˘ Ḃ ɢ

ќ Â

№ ң ˈ

A à Ь ˆ ŋ ڊ ў ˚ 1-3ـ ђ˘ ˜ ˜˜ ß Â

B à ỉ ɪ ч 2 Â

5.2 ђ

ڜ Ҋ 11 ɷ ˘ ˘ ą MENUˆ ٦˜ à ▲ˆ ˜ à ▼ˆ Ҋ ˜ à ►ˆ ˜ à ENTERˆ ˜ à ESCˆ ₹˜ Ѓ ɷ ˘ ң Ҋ˙

6 ڜ

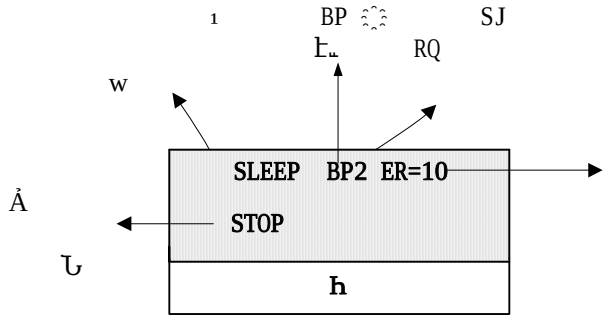
	˃

ƶ6+Å Ã ►

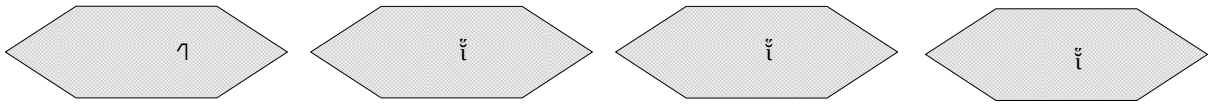
[MENU] [ ]	
▲ [ ]	
▼ [ ]	
► [ ]	
[ENTER] [ ]	
[ESC] [ ]	

5.3

5.3.1



INSP AUTO


า
ั
ั
ั



1

16	Ł ₪ ℗ 3	RQD Time3	5000ms*	0-9999ms	Ł ₪ Ł ₪
17	₸ Ł ₪ ₡ ą	Vice Brake Enable	Yes*		` ₸ Ł ₪ ₡
18	Y11 ₹ ₦	Y11 Output Type	ON*		Ţ :

9

₪	Ţ		₹ ł ų	₥	
1	Ł	Control Mode	0*	0-5	‘ ₶ Ţ :
ˇ	X9 ₡	X9 Function Set	1*	0-2	ч Å Ƕ ı ^ ₡ ₤

10

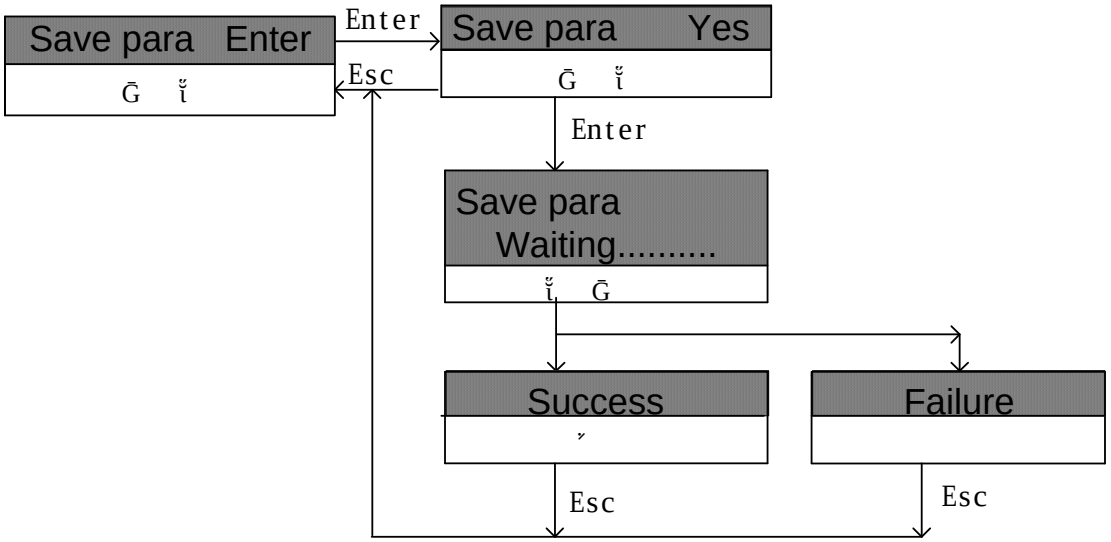
₪	Ţ		₹ ł ų	₥	
1	₹ ł ų	Factory para	NO		₹ ł ₤ ų
2	₤	Read Para			ɾ ₤ ⌡ ₡
3	Ω ₤	Write Para			ɾ ₡ Ʊ Ω ₤
4	Y10 ₹	Y10 Function	0*	0-11	ì ɪ ₹’ ₥ ₧ ₥
5	Y11 ₹	Y11 Function	0*	0-11	₹’ ₡

‘

1. ⁋ ‘ ; * ₪ ₹ ł ₤ ₧ Δ ı ˇ ₹ ł ų ƀ Ƶ ₹ ł ų Â

2. ₤ Ƶ ˇ Ḡ ₤ ˇ ` ↕ Ƶ ˇ ₤ ų ⅄ ų Â

5.3.4 Ḡ ĭ̆



طي 12 Ḡ ĭ̆ ƀ

˜ Ḡ ĭ̆ ٦ Ƶ Yesˇ ˘ ˛ Ḡ ḱ ĭ̆ Â Ḡ ĭ̆ ˊ

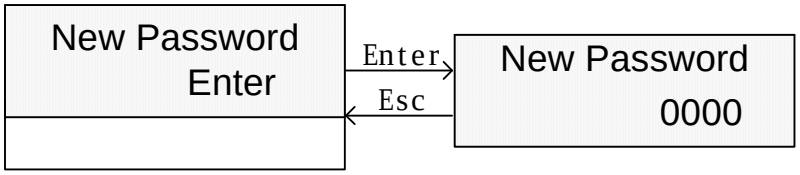
Successˇ Ḡ ĭ̆ Failureˇ Ḡ ĭ̆ ƀ ٤ Â

ˆ ˋ ٦ ĭ̆ ḱ Ƶ ٨ Â ᵖ ḱ ĭ̆ Ƶ Ḡ ƀˇ

Ƶˇ ĭ̆ ẏ ٨ ẏ Ã

5.3.5

ŭ̆ ḱ ˇ ғ Ḡ ƀ Â



طي 13 ƀ

′E Ь Ḡ Ī

6.1 Ь Ḡ Ī ŋ ʜʊ

危险
Ǹ ي ~ Ƶ Ъ
Ǹ Ţ ɹ ~˘ ~ ỉ Â
Ǹ Ь ŋ
Ǹ ʜʊ F ʒ¬ ᵇ à ɒ Â
Ǹ ¬ ᵇ Ъ ʒ ╠˘ Ӣ ⁘ ^ à ˜˜ Ъ ʒ ą ʜʊ ŭ ৳ ĺ Â
Ǹ Ţ˘ ~ ˅ ۱ ŭ ๓ Â
Ǹ ќ Ƶ˘ ⁻ Ƙ ﻩ ŭ ๓ ﻩ Â
注意
Ǹ ~ Ꮮ ⁘ ˘ ą ৳ CMOS ˅ ⁻ Â

6.2

ŕ Ӣ ₃

1˜ ⁘ LED Ḥ„ ˅ LED Â

2˜ ` ھ à ˫ ˅ ع Â

3˜ ŭ Â

4˜ خ ﺵ ` Ʉ ﺱ Ъ Â

6.3 Ḡ ќ

ي ą ’ Ӣ˘ ŭ ﺡ˘ ۱ Ḡ ќ ṗ Ḡ ќ˘ ﺍ ﺱ Ḡ ќ ч Ŧ ۱ ң

ˆ ŕ ˜ 18 ɕ ṗ˘ Ḡ ќ Ʊ Ʉ ќ Â

ي Ḡ ќ ṗ˘ ﺥ Ӣ ۱ ﺥ ﺡ ӟ ẽ ќ'

1. ӥ ą ¨Ḥ ќ Â

2. Ŧ ‰ ą Â

3. ⌡ Ƶ ŭ ŭ ﺡ Â

4.ﺥ Ь ٦ ʜˆ à à ﺵ à Ɗ ŭ ỉ ᵉ ۱ ﺥ˜ ﺡ Â

ʿ ҕ

ҕ		
01	ҍ	~ ˘ ҍ № Â ҍ ˘ ҍ
02	ҍ	~ ˘ ҍ Ð˘ ѻѻ
03	ҍ ҟ	~ ˘ ҍ ҟ Ð˘ ѻѻ
04	ҁ ѽ	~ ҁ ѽ Ð˘ ѻѻ Â
05	ҁ ѽ ҟ	~ ҁ ѽ ҟ Ð˘ ѻѻ
06	ҁ	~ ҁ Ð˘ ѻѻ
07	ҁ ҟ	~ ҁ ҟ Ð˘ ѻѻ
08	ҁ ~ʾ	~ ҁ ~ʾ Ð˘ ѻѻ
09	ҁ ~ʾ ҟ	~ ҁ ~ʾ ҟ Ð˘ ѻѻ
10	ҁ	~ ҁ Ð˘ ѻѻ
11	Ӣ ѽ	~ ˘ Ӣ ѽ Ð˘ ѻѻ
12	Ӣ ѽ ҟ	~ ˘ Ӣ ѽ ҟ Ð˘ ѻѻ
13	Ӣ	~ ˘ Ӣ Ð˘ ѻѻ
14	Ӣ ҟ	~ ˘ Ӣ ҟ Ð˘ ѻѻ
15	Ӣ ~ʾ	~ ˘ Ӣ ~ʾ Ð˘ ѻѻ
16	Ӣ ~ʾ ҟ	~ ˘ Ӣ ~ʾ ҟ Ð˘ ѻѻ
17	Ӣ	Ӣ
18		
19	ҟ	ҟ
20-31	ṗ	ѶE„
30	ŋ ҙ ҷ ي Ь ĭ Ь w̄	~ ѡ˘ ~ ˘ ŋ ҷ˘ ҷ ѻ˘ Â
31	ŋ ҙ	~ ˘ ŋ ҷ˘ ҷ ѻ˘ Â
32	Ь ì ҍ Ь Ь w̄	~ ѡ˘ ˇ ŭ ˘ ˇ ĭ ą ^ Break˘ Feedback˜ ч OFF Â
34	Ћ ĭ ~	~ ѡ˘ ~ Ь ҷ, ҷ ѻ˘ ҷ Â
35	Ҷ	ҁ Ҷ ˇ Ӣ Ҷ ~
36	¹ ҷ	¹ ҷ Ҷ à ą Ḥ„ ŭ Ḥ„ Ŧ ҙ ˘ ¹ ҷ ˇ ĭ Â ч Ĺ~ Â
37	¹ ҷ	¹ ҷ ҁ ˘ ʎ ҙ Â ŭ ¹ ҷ ˘ ¹ ҷ ß 2 ˘ ˘ ¹ h ҷ Â
38	X29 ~	ŋ Ḡ SJT_APE_V2 ` ⌡ ˘

		SJT_APE_V2 Ŧ˘ ך Â
40	w w	w
41-49	ṗ	̀E„
50	1 ˆ ზ ь ǐ ˍ ъ ь w̄ ˆ ч Ʊ ǐ ~	~ ь ზ, ~ ॼ ზ ॼ ზ Â
51-57	ṗ	̀E„
58	˚ Ꮮ ზ ь ì ǐ ь w̄	~ ॼ ~ ˇ ˚ Ꮮ ზ Â