GUIDE



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4. 17

5. 25

6. 28

7. 56

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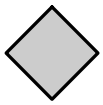
1.

1.1









1.2

(1) PLC DP

1.3

2. ج '

2.1

U ŭ ₮ └ كح 3

1. └ كح شخ شخ
2. ´ غ ١
3. └ كح ج

ŭ └ كح شخ ضر ـ يد

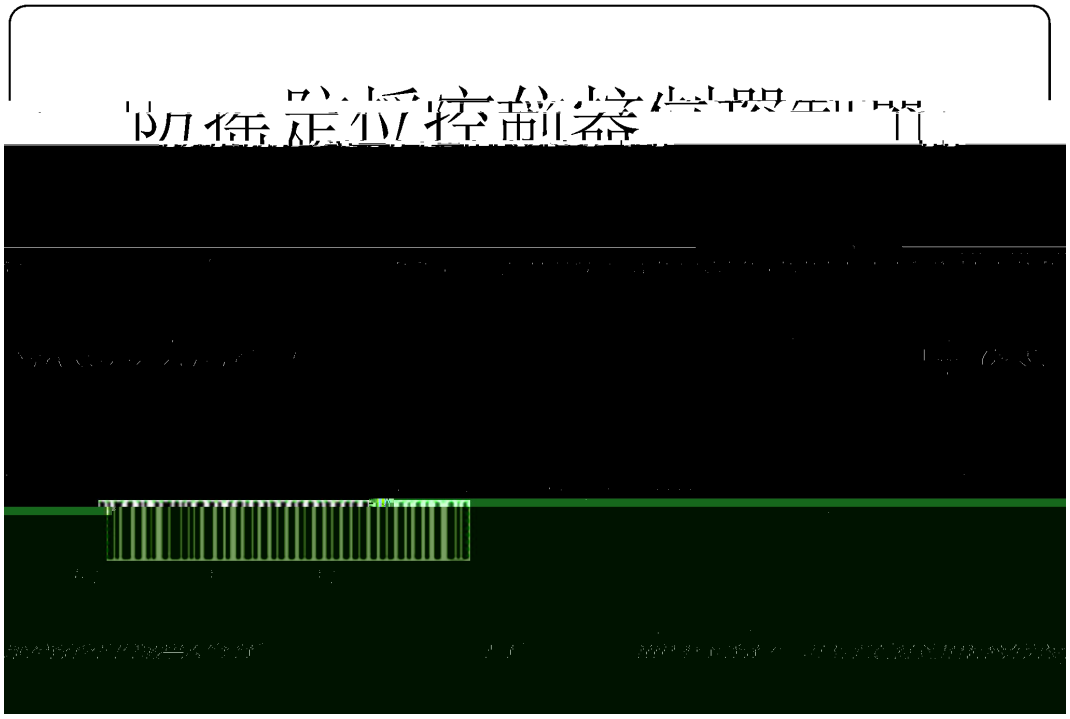
2.2 ج ّ ا

└ كح ّ ح

CrSCU 12

ج ↓	↓ ّ	١
CrSCU └ كح	100	AC220V

ك L يد 2-2



ممم CrSCU ك L

100 ╠ ↓

220AC 220V

2.3 ج

ا AC220V

ᅔ DP ᅔ

IP20

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2.7 :

GDHF-K6C1	GDHF-K6C1 LCD
GDHF-PN02	PROFINET TCP/IP IT GDHF-PN02 PROFINET
GDHF-PGD2 PG	GDHF-PGD2 PG 15V
GDHF-DP03	GDHF-DP03 Profibus

2.8

2.8.1

3

2.8.2

GDHF-DP03 J14 GDHF-DP03

- GDHF-DP03
- GDHF-DP03
- DP
- DP

EMC ï GDHF-DP03 ٧

DP ضر مخـيا ٱ نهـ

2.8.3

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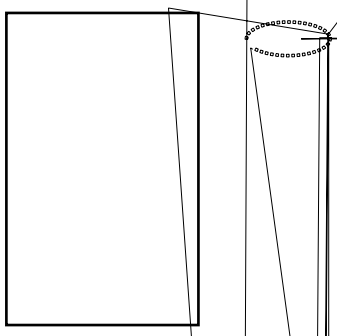
2.8.4 PROFIBUS

DP

№

B1	B
A1	A
PE	PROFIBUS
B2	B
A2	A
PE	PROFIBUS

A B



GDHF-PGD2 PG 10

B-

PG ٧ ّ ∫ آ ّ كج 2

ا PE كج L ضر كج 3

ضر آ ّ

قمم ٧ PGD2 ∓ كج مشي

قمم ١ قمم

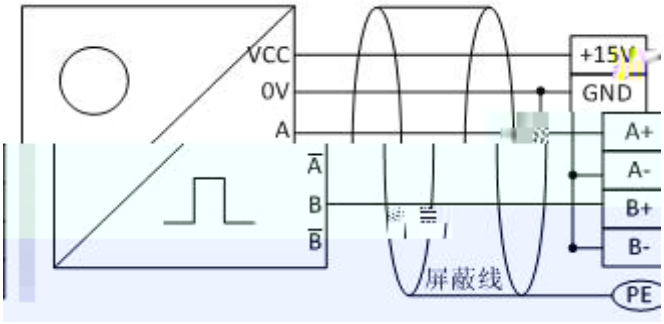
1 كج ∓ قمم ∓

a ـ

يد		
	ج	ّقمم كج
		HLE45-1024L-6F.AC
	٧	RHI90N-ONAK1R61N-1024
		EC120P45-H6PR-1024

b ١

يد



3 ר עך w :

ם

1	1ם	+10V	10V ₣
2	2ם	GND	₣ ضر , ١
3	3ם	AI1+/AV1	1 ~ 20mA 0/4 מח 1 ١ 10V -10 מח
4	4ם	AI1-	1
5	5ם	AI2+/AV2	2 ~ 20mA 0/4 מח 2 ١ 10V -10 מח
6	6ם	AI2-	2
7	7ם	AO1	1 ₣ ₣ 0/4 20mA J1 I עד a ₣ ١0 10V J1 V עד b ~ א p
8	8ם	AO2	2 ₣ ₣

3

3.2 ㄴ ㄱ ㅂ

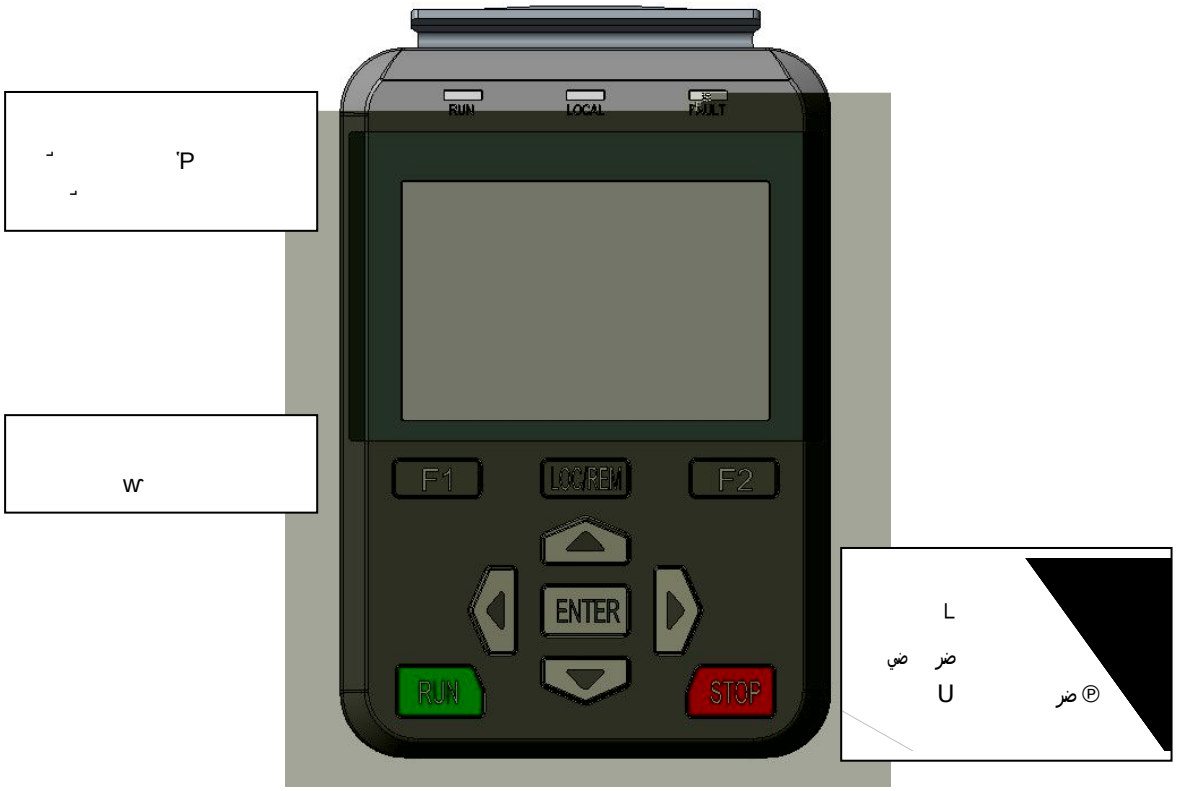
4.

4.1

ك ل ك ي ح F1 LOCAL/REMOTE

F2 RUN STOP /RESET غ ENTER ≠

ك ل ك ق غ ل



4

4.2

▼ ا ∫ ا ا غ ا

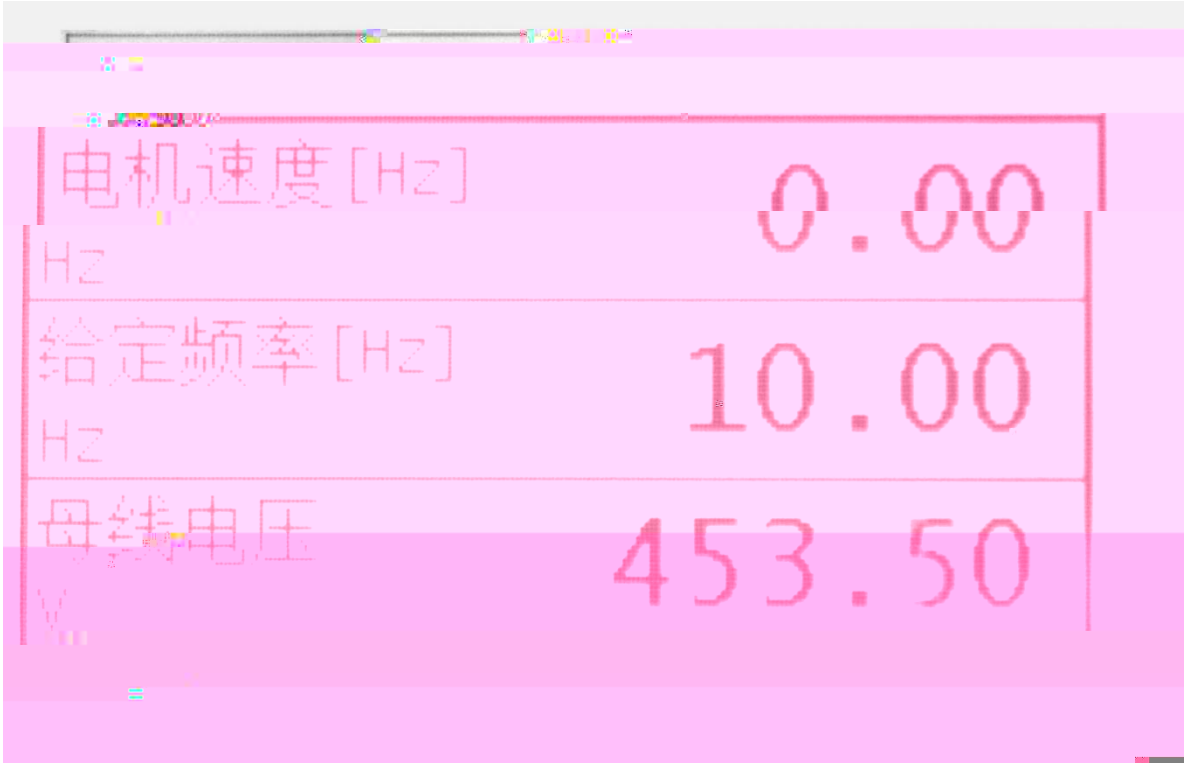
⋮ ٧ ▲ ا ∫ ا غ ا

ENTER ق U

ﺮﺘﻛ ﻞ RUN ﻎ STOP ﻎ ﻮﻟ ﺮﺘﻛ ﻞ ﷺ

ﺽ ﻂ ﺽ LOCAL/REMOTE ﺽ /

4.3 ﻎ ﺍ ﻳﺪ



4

ﺭ ﺠ o ﺍ w ﻯ

h ﻓ

ﺾ ﻝ

	w
h	FWD REV ﻲ
	ﻠ ﻓ ﺍ :HZ
ﻓ	ﻠ ﻓ ﺍ A
ﺾ ﻝ	ﺾ ﺾ N ﻝ N ﺾ W E ﺾ ﻓ

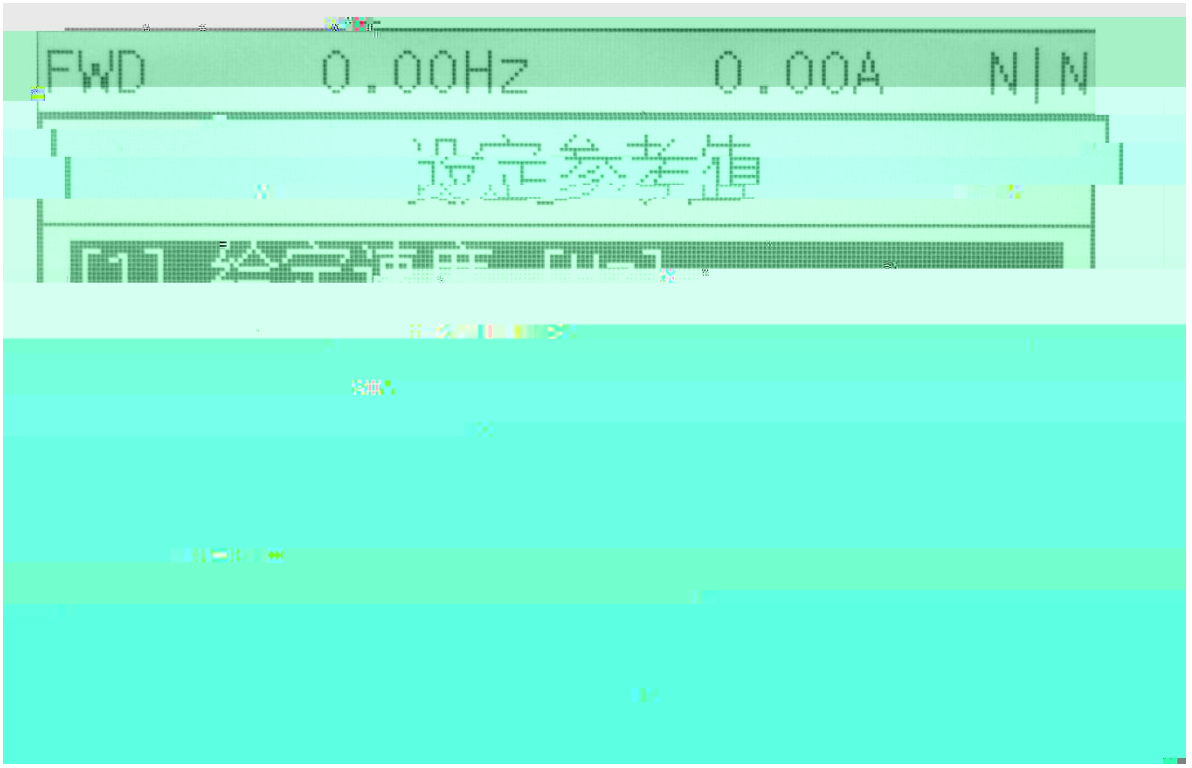
5	Reset Error	╠
6	Monitor Setting	
7	Firmware Version	L ع
8	Menu Language	۱



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1	Parameter Setting	
2	Function Setng	

4.4 ۱



1 ăĕ Reference Set

└ح ۱ٍ

	№	۱	ăĕ
Reference Set ăĕ	Speed	[Hz]	۱ Hz
		[%]	۱ %
	Torque	[%]	۱ %
	Torque limiter L	[%]	L %
	₹1	[%]	1 ₹
	₹2	[%]	2 ₹

2 h Change Direction

۱ h

3 ╠ Current Error

╠ └ح ۽

4 ╠ ɒ Current Warnning

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5 Reset Error

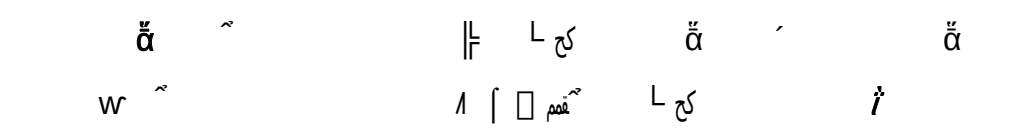
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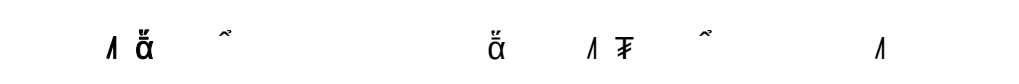
6 Monitor Setting

o ɑ̈ ﻡﻤ

7 ɯ Firmware Version

11	Compare Parameter	

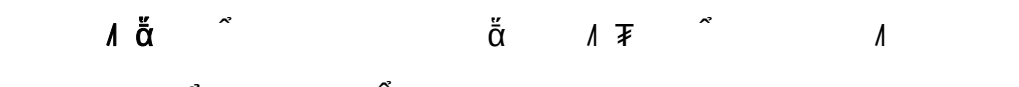


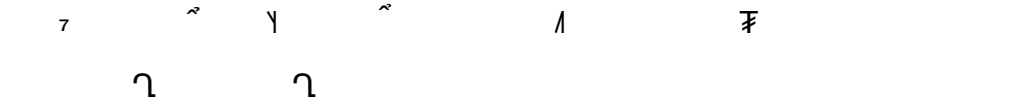


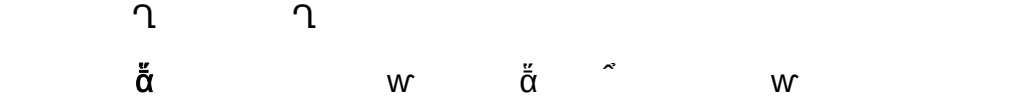










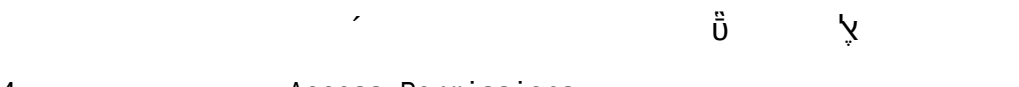


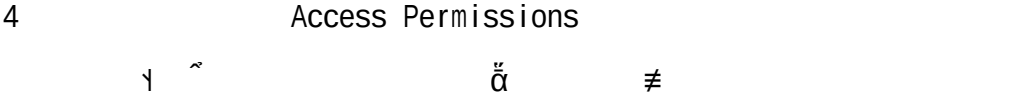


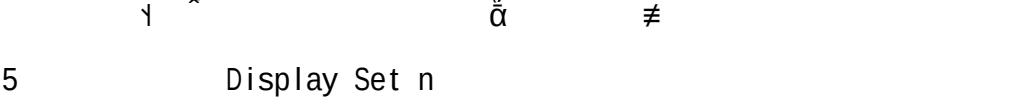














3 Fault Record

4 Access Permissions

5 Display Set n

5. ᒪᓕ

5.1 ᒪᓕ

1 ˜

2 ᒪ ₇ V/F ᒪ

5.2 ᒪᓕ

5.2.1

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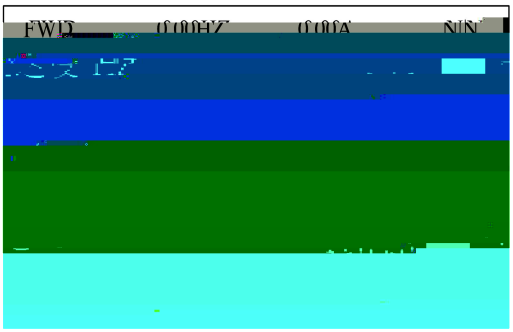
1 ᐧ ᖁ ضي ᔆ ṕ

AC220V 50Hz

2 ᒪᓕ ᒪ ᐞ ᒪ ᖁ

3 PG ᓕ ᐯ PG ᓕ ᐯ ᓕ ᖁ

5.2.2



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5.2.3 ǎ Δ .

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5.2.4 ǎ

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w	O		
P1.1	۱	۱ ۱ 485V └ كح	-500
P7.14			1000
P7.15			1000
P7.59	∓	∓ ∓	0

5.2.5 ∓ ǎ

1 DP ∓

w	O		
P33.0	Profibus	/ Profibus	1
P33.1	خي ضر	└ كح ضي PLC خي ضر	
P33.21	[W4]	PLC └ └ كح	1 └ 0
P33.22	[W4]		0 1
P33.23	[W5]	PLC └ └ كح	2 └ 1
P33.24	[W5]		0 1
P33.53	∓ [W4]	└ كح ǐ	1 0

P33.54	₹ [W4]		0 1
P33.55	₹ [W5]	└ ح ₹	19 ₹
P33.56	₹ [W5]		2 100
P33.57	₹ [W6]	└ ح ï	2 1
P33.58	₹ [W6]		0 1

2 ₹

w	O		
P6.0	AO 1 ₹	₹	1 ~ ₹
P6.2	AO 1 ₹	AO1 ₹	-100.0
P6.3	AO 1 ₹	AO1 ₹	100.0

5.2.6 ă

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23 └ ~ w

24 ~ w

25 FUNC 25

26 - └ ~ └ ↕ └

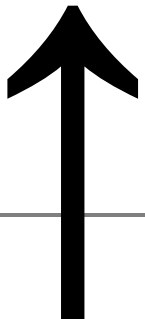
27 FUNC 27



11	h	h	
12	ɒ	ɒ	
13	ɒ		
14	ɒ		ɒ
15	ɒ		ɒ
16	FUNC 16		
17	0	1	
18	1	2	
19	2	3	
20	3	4	
21 31	FUNC 21 FUNC 31		
32		AFE └	
33 48	FUNC 33 FUNC 48		
49	PROFIBUSw 1	PROFIBUSw 1 ₮1	
50	PROFIBUSw 2	PROFIBUSw 2 ₮1	
51	PROFIBUSw 3	PROFIBUSw 3 ₮1	
52	PROFIBUSw 4	PROFIBUSw 4 ₮1	
53	PROFIBUSw 5	PROFIBUSw 5 ₮1	
54 56	FUNC 54 FUNC 56		







6.5 P5

w	O			مخ	
P5.0	AI1	قمم	[0] [1]0 +10V [2]-10 +10V [3]0 20mA	0 3	1
P5.1	AI1		AI1 مخ ا ا ا	0.0 1000.0 [ms]	25.0 [ms]
P5.2	AI1	ا	AI1 ا	-10.00 10.00 [V]	0.000 [V]
P5.3	AI1		AI1	-20.00 20.00 [mA]	0.000 [mA]
P5.4	AI1	ا	AI1 ا	-10.00 10.00 [V]	0.000 [V]
P5.5	AI1		AI1	0.00 20.00 [mA]	0.000 [mA]
P5.6	AI1		AI1	-300.0 300.0 [%]	0.0 [%]
P5.7	AI1	ا	AI1 ا	-10.00 10.00 [V]	10.000 [V]
P5.8	AI1		AI1	0.00 20.00 [mA]	20.000 [mA]
P5.9	AI1		AI1	-300.0 300.0 [%]	100.0 [%]
P5.18	AI2	قمم	[0] [1]0 +10V [2]-10 +10V [3]0 20mA	0 3	3

		AO1	( )	0.0	0.0	[%]
P6.8	AO1			0.0	10.0	[ms]
P6.14	AO2		7-1	0	4	
P6.16	AO2					

4	₹	₹
5	~	~
6	~	~
7		
8	۱ (%)	۱ (№ ₹)
9	₹ w	₹ w
10	₹ ۱	₹ ۱
11	└ ح (%)	└ ح (150 № ₹)
12	DP	Profibus
13	ă	ă P6.7 P6.21 ₹
14	ض	₹

6.7 ă P7

w	O		مخ	
P7.14			60.0 100.0 [ ]	87.5 [ ]
P7.15			50.0 100.0 [ ]	80.0 [ ]
P7.19	[1]	1	100.0 720.0 [%]	120.0 [%]
P7.20	[2]	2	100.0 720.0 [%]	120.0 [%]
P7.21	[3]	3	100.0 720.0 [%]	120.0 [%]
P7.22	[4]	4	100.0 720.0 [%]	120.0 [%]
P7.59	₹	[0] [1]	0 1	1
P7.60	₹		0.10 3.00 [s]	0.30 [s]

6.8 1 Ω └ P8

w	O			مخ	
		[0]			
		[1]			
P8.0 Ω		[2]DP		0 4	0
		[3]MODBUS			
		[4] w	شجـ		

P8.3

P8.23	٧	٧ 5	٧	0.0 [%]	300.0 [%]	300.0 [%]
P8.24	٧	5	P8.21 ٧	⌠ P8.23	0.0 [s]	300.0 [s]	10.00 [s]
P8.25	٧	٧ 6	٧		0.0 [%]	300.0 [%]	300.0 [%]

[٩]

00 0 0

w detec.com

P8.42 ⋮ ٧5

P12.26	h	h	0.00 2.00 [s]	0.00 [s]
P12.27	ĭ h	ĭ h	0.00 2.00 [s]	0.00 [s]
P12.28	h └	h	0.00 2.00 [s]	0.07 [s]
P12.29	ĭ h └	ĭ h	0.00 2.00 [s]	0.07 [s]
P12.32	h	h	0.0 20.0 [%]	0.0 [%]
P12.33	ĭ h	ĭ h	0.0 20.0 [%]	0.0 [%]
P12.34	h	h	0.00 2.00 [s]	0.00 [s]
P12.35	ĭ h	ĭ h	0.00 2.00 [s]	0.00 [s]
P12.36	h	h	0.00 2.00 [s]	0.50 [s]
P12.37	ĭ h	ĭ h	0.00 2.00 [s]	0.50 [s]

6.10 1 ď V/F P16

w	O		مخ	
P16.0	۱	۱	320 460 [V]	380 [V]
P16.2	w	ď	0.0 4000.0 [kW]	ههم [kW]
P16.3	۱	ď	320 460 [V]	380 [V]
P16.4		ď	0.0 6500.0 [A]	ههم [A]
P16.5		ď	0.0 300.0 [Hz]	50.0 [Hz]
P16.6		ď	0 6000 [rpm]	1465 [rpm]
P16.7		ď	2 12 [pole]	4 [pole]
P16.9	□	ď	0 7200 [rpm]	1500 [rpm]

	[0]V/F └		
	[1]		
P16.11 └	[2]	0 4	0
	[3]		
	[4]		
P16.12		1.00 10.00 [kHz]	3.00 [kHz]
	[0] V/F		
P16.14 V/F	[1] V/F		
	[2] 0 в	א	

P16.64	V/F	V/F	0.0 1000.0 [%]	100.0 [%]
P16.66	└	V/F └	0.0 1000.0 [%]	100.0 [%]
P16.67	Ω˙ └˙	Ω˙ └˙	0.0 1000.0 [%]	100.0 [%]
P16.68	Ω˙ └˙ №	Ω˙ └˙ №	0.0 1000.0 [%]	100.0 [%]
P16.69	└˙	└˙	0.0 1000.0 [%]	100.0 [%]
P16.70	└˙ №	└˙ №	0.0 1000.0 [%]	100.0 [%]

6.11 Position Control P29

w	O		مذ	
P29.0	Pos Ctrl Type	[0] No Pos Control [1] DI Pos Control [2] PB Pos Control [3] MB Pos Control	0 3	0
P29.1	Pos Ctrl Gain	└	0.0 5000.0	100.0
P29.2	Transation Speed		0.00 200.00 [m(rad)/min]	1.00 [m(rad)/min]
P29.3	Pulses perMM/MRad	/ Ⅱ	0.00 650.00	30.00
P29.4	Pos Reach Bandwidth	ضر	0.00 100.00 [mm(mrad)]	10.00 [mm(mrad)]
P29.5	Pos Reach Time	ضر	0.0 20.0 [s]	0.5 [s]
P29.7	Crane Part Select	[0] Hoist [1] Slew [2] Luff	0 2	0
P29.8	OutPosCorct_Enable	[0] Disable [1] Enable	0 1	0
P29.10	OutPosCorct_Type	[0] IO [1] Data	0 1	0
P29.16	Base Point 1		0.0 65535 [mm(mrad)]	0 [mm(mrad)]

P29.18	Target Point 1		0.0 65535 [mm(mrad)]	1000 [mm(mrad)]
P29.37	POS Feedback Mode	[0] Normal FCK [1] AI FCK [2] Integral FCK	0 2	0

6.12 DP P33

w O			مخ
P33.0 Profibus	[0] [1]	0 1	0
P33.1 ضي خ	PLC	1 255	1
P33.2 مم	[0]PPO 1 [1]PPO 2 [2]PPO 5 [3]GUIDE	0 3	2
P33.3 ρ ٧	١	0 16	14
P33.4 ρ ٧ ₣	[o ١	0 16	14
3Ƨ٭ ب	[0] [1] [2] [3]	0 3	0
P33.5 "خ v ـ ƧϑƧƧ .			

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		[0] × 1 [1] × 10			
P33.30	[W8]	[2] × 100 [3] × 1000 [4] × 10000	0	4	1
P33.31	[W9]	7-2	0	37	0
		[0] × 1 [1] × 10			
P33.32	[W9]	[2] × 100 [3] × 1000 [4] × 10000	0	4	0
P33.33	[W10]	7-2	0	37	0
		[0] × 1 [1] × 10			
P33.34	[W10]	[2] × 100 [3] × 1000 [4] × 10000	0	4	0
P33.35	[W11]	7-2	0	37	0
		[0] × 1 [1] × 10			
P33.36	[W11]	[2] × 100 [3] × 1000 [4] × 10000	0	4	0
P33.37	[W12]	7-2	0	37	0
		[0] × 1 [1] × 10			
P33.38	[W12]	[2] × 100 [3] × 1000 [4] × 10000	0	4	0
P33.39	[W13]	7-2	0	37	0
		[0] × 1 [1] × 10			
P33.40	[W13]	[2] × 100 [3] × 1000 [4] × 10000	0	4	0
P33.41	[W14]	7-2	0	37	0
P33.42					

P33.43		[W15]	7-2 [0] × 1 [1] × 10 [2] × 100 [3] × 1000 [4] × 10000	0	37	0
P33.44		[W15]		0	4	0
P33.45	∓	[W0]	7-3 [0] × 1 [1] × 10 [2] × 100 [3] × 1000 [4] × 10000 [5] [%] × 1 [6] [%] × 10 [7] [%] × 100	0	48	0
P33.46	∓	[W0]		0	7	0
P33.47	∓	[W1]	7-3 [0] × 1 [1] × 10 [2] × 100 [3] × 1000 [4] × 10000 [5] [%] × 1 [6] [%] × 10 [7] [%] × 100	0	48	0
P33.48	∓	[W1]		0	7	0
P33.49	∓	[W2]	7-3 [0] × 1 [1] × 10 [2] × 100 [3] × 1000 [4] × 10000 [5] [%] × 1 [6] [%] × 10 [7] [%] × 100	0	48	0
P33.50	∓	[W2]		0	7	0
P33.51	∓	[W3]	7-3			

6

P33.53	₹ [W4]	7-3	0 48	1	
P33.54	₹ [W4]	[0] × 1 [1] × 10 [2] × 100 [3] × 1000 [4] × 10000 [5] [%] × 1 [6] [%] × 10 [7] [%] × 100	0 7	0	
P33.55	₹ [W5]	7-3	0 48	19	
P33.56	₹ [W5]	[0] × 1 [1] × 10 [2] × 100 [3] × 1000 [4] × 10000 [5] [%] × 1 [6] [%] × 10 [7] [%] × 100	0 7	2	
P33.57	₹ [W6]	7-3	0 48	26	
P33.58	₹ [W6]	[0] × 1 [1] × 10 [2] × 100 [3] × 1000 [4] × 10000 [5] [%] × 1 [6] [%] × 10 [7] [%] × 100	0 7	6	
P33.59	₹ [W7]	7-3	0 48	30	
P33.60	₹ [W7]	[0] × 1 [1] × 10 [2] × 100 [3] × 1000 [4] × 10000 [5] [%] × 1 [6] [%] × 10 [7] [%] × 100	0 7	1	
P33.61	₹ [W8]	7-3	0 48	14	

P33.70	₣ [W12]	[0] × 1 [1] × 10 [2] × 100 [3] × 1000 [4] × 10000 [5] [%] × 1 [6] [%] × 10 [7] [%] × 100	0 7	0	
P33.71	₣ [W13]	7-3	0 48	0	
P33.72	₣ [W13]	[0] × 1 [1] × 10 [2] × 100 [3] × 1000 [4] × 10000 [5] [%] × 1 [6] [%] × 10 [7] [%] × 100	0 7	0	
P33.73	₣ [W14]	7-3	0 48	0	
P33.74	₣ [W14]	[0] × 1 [1] × 10 [2] × 100 [3] × 1000 [4] × 10000 [5] [%] × 1 [6] [%] × 10 [7] [%] × 100	0 7	0	
P33.75	₣ [W15]	7-3	0 48	0	
P33.76	₣ [W15]	[0] × 1 [1] × 10 [2] × 100 [3] × 1000 [4] × 10000 [5] [%] × 1 [6] [%] × 10 [7] [%] × 100	0 7	0	

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	w	
CW0.0	RUN	h ~ ‘ 0 ’ ‘ 1 ’ h

CW0.1	RUN@REV	‘0’ ‘1’
CW0.2	REQUEST_INFO	‘0’ ‘1’
CW0.3	RESET	‘0’ ‘1’
CW0.4	External FAULT	‘0’ ‘1’ Profibus
CW0.5	External ALARM	‘0’ ‘1’ Profibus
CW0.6	DRIVE ENABLE	‘0’ ‘1’
CW0.8	SPD/TRQ Switch	‘0’ ‘1’
CW0.9	HOOK	‘0’ ‘1’
CW0.10	Anti Crab Open	‘0’ ‘1’
CW0.11	Torque_Limit_Ctrl	‘0’ ‘1’ PROFIBUS
CW0.12 CW0.13	MOTION_CTRL	‘00’ 1 ‘01’ 2 ‘10’ 3 ‘11’ 4
CW0.14	TORQUE_ZERO	‘0’ ‘1’
CW0.15	FREE_RUNNING_STOP	‘0’ ‘1’

└ 1

CW1.0	ANTI_SWAY	‘ 0 ’ ‘ 1 ’
CW1.1	UP_LMT_SW	‘ 0 ’ ‘ 1 ’
CW1.2	POSITION_CTRL_ENABLE	‘ 0 ’ ‘ 1 ’
CW1.3	BASE_POINT_1	‘ 0 ’ ‘ 1 ’
CW1.4	ANTI_SWAY_MEC	‘ 0 ’ ‘ 1 ’
CW1.5	POS_AI_HOISTRUN	
CW1.6	Soft_Landing	‘ 0 ’ ‘ 1 ’
CW1.10	AUTO_SEMI_START	‘ 0 ’ ‘ 1 ’

6

2

0

	w	
SW0.0	READY	‘ 0 ’ ‘ 1 ’
SW0.1	RUN	‘ 0 ’ ‘ 1 ’
SW0.2	FAULT	‘ 0 ’ ‘ 1 ’
SW0.3	MOTOR BRAKE	‘ 0 ’ ‘ 1 ’
SW0.4	WARNING	‘ 0 ’ ‘ 1 ’
SW0.5	DIRECTION	‘ 0 ’ ‘ 1 ’

SW0.6	M_STEP0	1 ‘0’ 1 ة ‘1’ 1 ة
SW0.7	M_STEP1	2 ‘0’ 2 ة ‘1’ 2 ة
SW0.8	M_STEP2	3 ‘0’ 3 ة ‘1’ 3 ة
SW0.9	M_STEP3	4 ‘0’ 4 ة ‘1’ 4 ة
SW0.10	Reserved	
SW0.11	Reserved	
SW0.12	REMOTE/LOCAL	ض/ ‘0’ ‘1’ ض
SW0.13	Reserved	ا
SW0.14 SW0.15	MOTION SEL	‘00’ 1 ‘01’ 2 ‘10’ 3 ‘11’ 4

1

4	└ 3	20	[%]
5	└ 4	21	[%]
6	[32]	22	└ [%]
7	[32]	23	└ [Hz]
8	32_MSW	24	w
9	32_LSW	25	w
10	∓	26	∓ 1[%]
11	ğ └	27	∓ 2[%]
12	ğ 0 @32bit	28	v └
13	ğ 1 @32bit	29	⋮ └
14	ğ 2 @32bit	30 37	SET_W12 19
15	ğ 3 @32bit		

∓

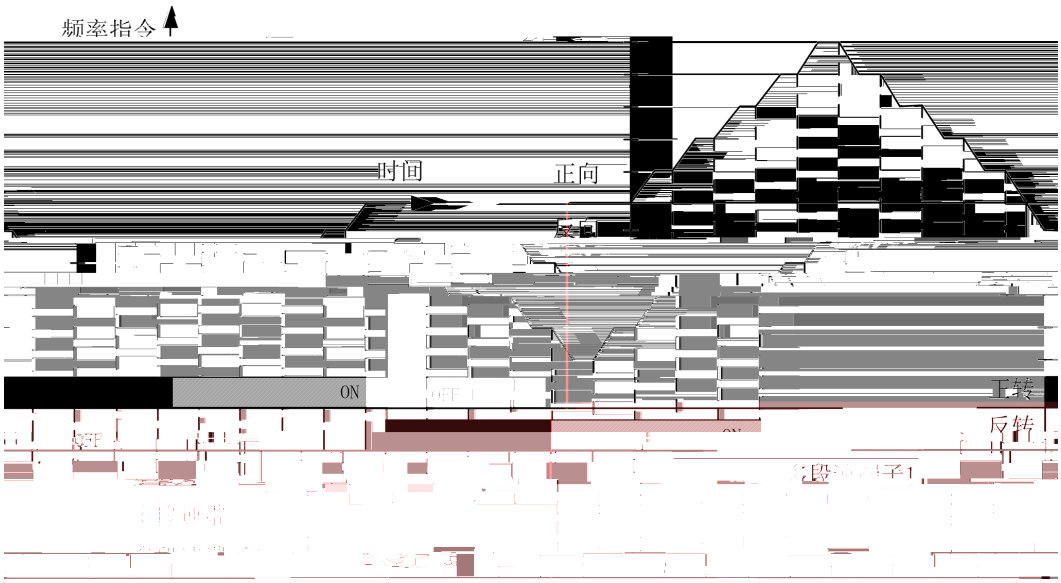
0		23	ı
1	0	24	
2	1	25	
3	2	26	
4	3	27	A
5	4	28	B
6	5	29	C
7	ğ 0 @32bit	30	
8	ğ 1 @32bit	31	∓ ı
9	ğ 2 @32bit	32	
10	ğ 3 @32bit	33	1
11	ğ 4 @32bit	34	2
12	ğ 5 @32bit	35	∓ w
13	[32]	36	
14	[32]	37	
15	32bit_MSW	38	
16	32bit_LSW	39	

17		40	
18	₹	41	Mwh ⌟
19	₹	42	Kwh ⌟
20	[rpm]	43	Mwh ŭ
21	[rpm]	44	Kwh ŭ
22	∧	45 48	AW26 29

B. [1] L

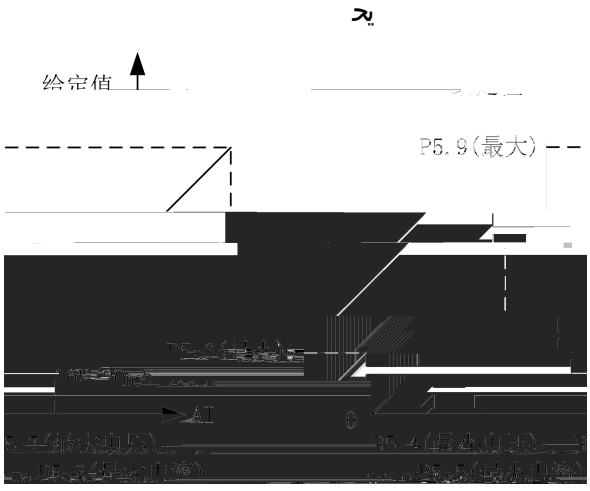
4 16 ɔ̈ (8421) 7

(FORWARD) ĭ (REVERSE) ˜ ǎ P12.2(1) ɛ



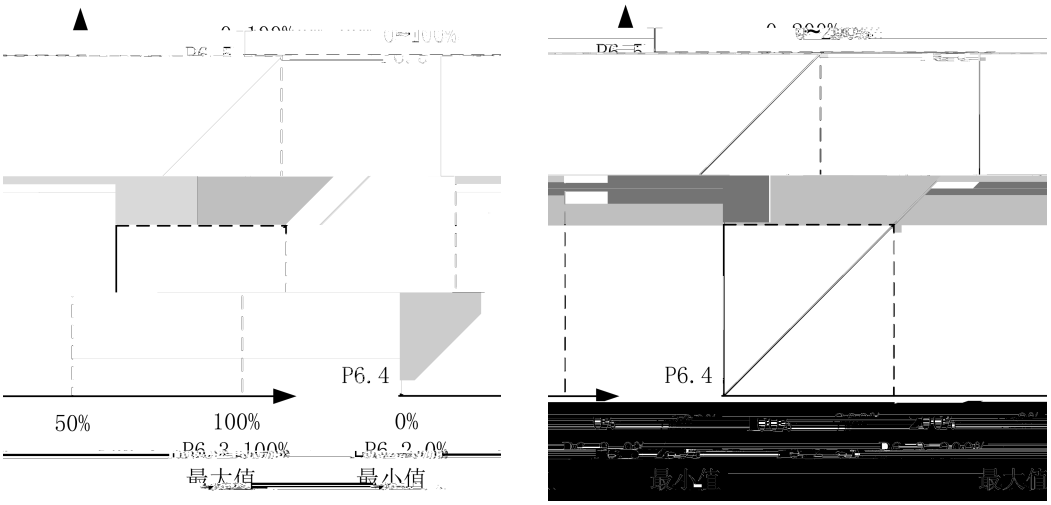
7

7.2

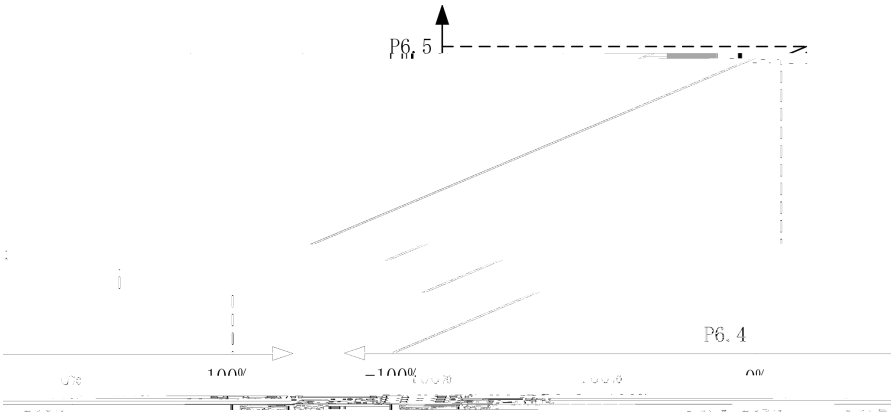


7.3 ∓

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(a) ∓ مذ 0~100% b ∓ مذ 0~200%



c ∓ مذ -100~100%

7

7.4 Ω └ă

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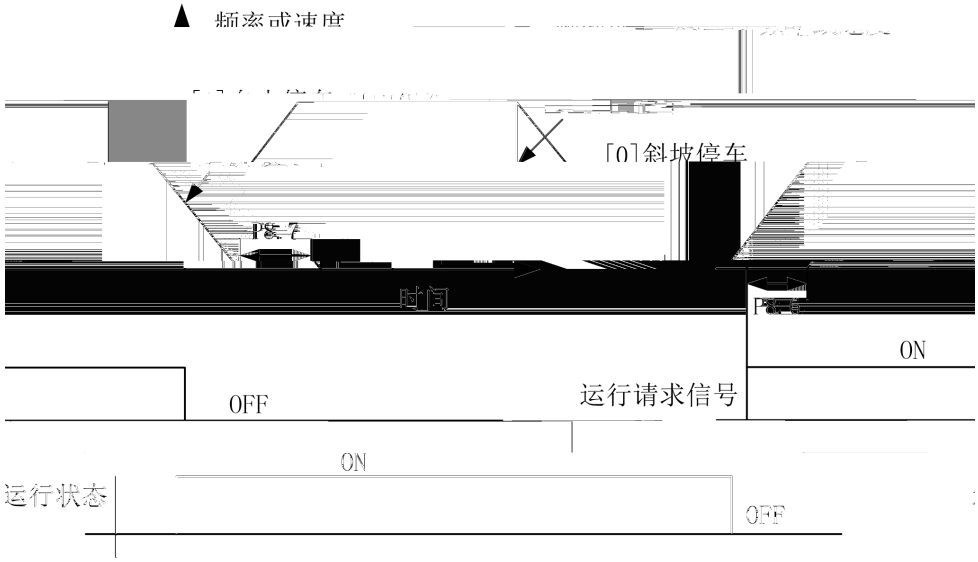
P8.3 ⋮ ă ىد

[0] تمد ⋮ ⋮ ⌠

P8.6 └ ك ŭ ∓ Ω ⊥ ضي P8.6 ṗ

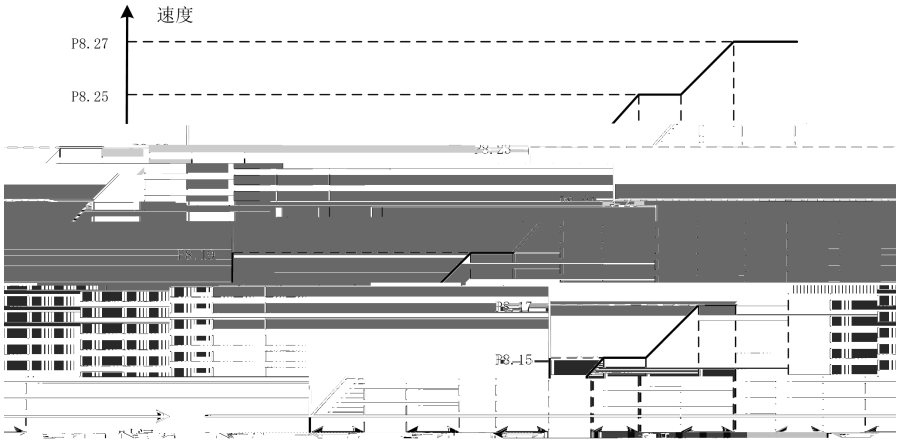
U Ω ă ىد

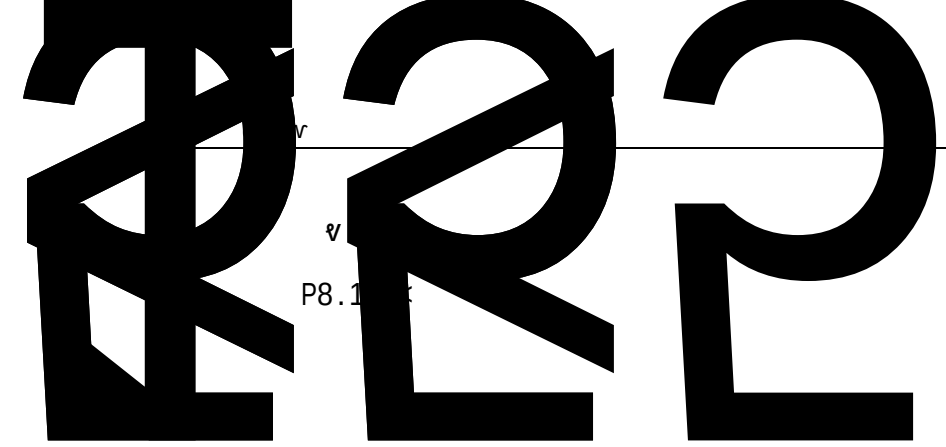
P8.7 U ۱ ĭ ضي ă ṗ └ ك



2 P8.14 P8.33

速度





ѵ Ѵ 1 ѵ =P8.14 × P8.16 × (ѵ × 0.001)

⋮ Ѵ 1 ⋮ =P8.33 × P8.35 × (⋮ × 0.001)

7.5 ė └ └

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P12.2 P12.17 └ ر ă

P12.0=[1] └ ₹

	1	2	3	4
1	0	0	0	0
2	1	0	0	0
3	0	1	0	0
4	1	1	0	0
5	0	0	1	0
6	1	0	1	0
7	0	1	1	0
8	1	1	1	0
9	0	0	0	1
10	1	0	0	1
11	0	1	0	1
12	1	1	0	1
13	0	0	1	1
14	1	0	1	1
15	0	1	1	1
16	1	1	1	1

0 OFF 1 ON

7.6 ă ė V/F └ ă

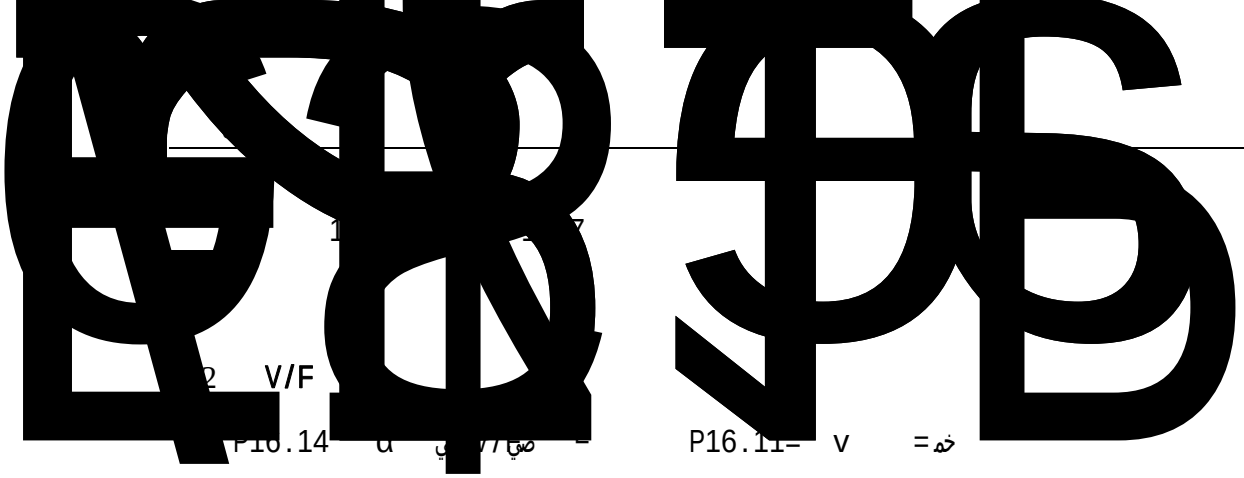
1 ă

P16.0 P16.9 ă ر └ ر ă

⌠ └ ر ă ă ~ └ ر

P16.7 120 × P16.5/P16.6 ŭ P16.9 □

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և $L = T^2 \frac{g}{(2\pi)(2\pi)} = T^2 \ 0.2485$ ∫

և ∫ h ٧

և ŭ 5 և ﺵ և g=9.8

∫ Ω P8.59.

Ⅱ

1) ” ” ă 101.64 ‘ ﻁ 2 32

LSW ’ ė ă 101.65 ‘ ﻁ 2 32 MSW ’

2) ٦ ĩ ﻁ 1m ă

101.64 ė 101.65 U ă 101.64 x ă

101.65

8. ï

8.1 ÞÞ

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ÞÞ	ÞÞ	ÞÞ / غج	
W01	‰ SYS_NOT_RDY	‰ ⌠ كج ⌡ (Ready)	ă P1.1 ١ -500
W02	ـ ـ NO_DRV_ENABLE	[ـ ì ⌡] ـ ⌡	ă P3 ă ï كج ⌡
W03	ÞÞ ضر LOCAL_EM	[ضر ì ⌡]	ă P3 ă ï كج
W04	ÞÞ REMOTE_EM	[ì ⌡]	ă P3 ă ï كج
W09	DP ÞÞ P/B ALARM	DP ١ ÞÞ	DP ⌡
W10	MODBUS ÞÞ MODBUS ALARM	Modbus ÞÞ	Modbus ⌡
W15	ă PARAMETER ERROR	ă	ă ٦ ₣ مذ
W18	Temp_Sensing Fail	ÞÞ	
W20	‰ SLV_NOT_RDY	ŭ	⌡ ٦
W21	1 SLV1_CAN_ERR	1	1 ٦

8.2

[E114]	₣ MOP	P7.59 ₣
[E115]	OS	ắ P7.19 ắ P7.19 ک شخ ï ٦
[E118]	ک PG ERROR	ک غ ắ P20.14 P20.15 ٦
[E119]	SPEED ABNORMAL	ک غ ắ P20.14 P20.15 ٦ ắ P7.31 P7.32
[E138]	TEMP_SENSING FAIL	
[E162]	1 CAN SLV1_CAN_ERR	1 ٦
[E167]	CAN CAN_ERR	ک ٦
[E180]	DP P/B ERROR	٧ ٦ ٦
[E181]	DP ₱ P/B_EM	CW0.4
[E200]	ض LOCAL_EM	[ض] ắ P3 ắ ک ï
[E201]	REMOTE_EM	[ ] ắ P3 ắ ک ï
[E202]	Modbus MODBUS EMERGENCY	Modbus CW0.4 ì
[E203]	DRIVE DISABLED	DP
[E210]	ک Panel Error	٦
[E220]	ک CRC MEMORY CRC ERR	
[E221]	ắ PARAMETER ERROR	ắ ٦

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9.2

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1. > 40 < 95% o 2. ء	1. 2.	
1. 2. كل	1. 2. ك└	' ا
1. ـ ٦ ٣ o 2. ء كل 3. ـ نھ	1. ـ ٦ 2. كل 3.	ك└
1. 2. كل ~شخ	1. ـ ٦ 2. كل	
1. ρ مخ ض ١ 2. ٣ ض	1. ١ 2. ٣	٣ ă

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9.3

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		PCB

9.4

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