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´ í HF500LC ↓ ~
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í ð ´ í HF500LC ↓ ´ í

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1.	η	Η		
1.1		~		1
1.2				3
1.3		Η		3
2. ^α		,		
2.1				4
2.2 ^α		~	ĩ	4
2.3 ^α		↓	~	5
2.4 ^α		ĩ	ϣ Đ	7
2.5 ^α				9
2.6 ^α		ν _{II}	ι	10
2.7				12
2.8 ^α		W		12
2.9	ĩ	~	Đ	13
2.10	ĩ		ĩ	15
3.	ĩ	Ũ		
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3.4		∇		20
3.5		∇		21
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3.8	PGD1	∇		25
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5.1	ϑ			44
5.2		ϑ		45
5.3	∇			45
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7.12	1	L P12	 86
7.13	2	L P13	 87
7.14	3	L P14	 89
7.15	4	L P15	 90
7.16	1 ǎ	V/F P16	 92
7.17	2 ǎ	V/F P17	 95
7.18	3 ǎ	V/F P18	 98
7.19	4 ǎ	V/F P19	 101
7.20	1	L P20	 104
7.21	2	L P21	 109
7.22	3	L P22	 114
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8.1	ĩ		135
8.2	~		135
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10.	Ġ Ī		
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10.3			165
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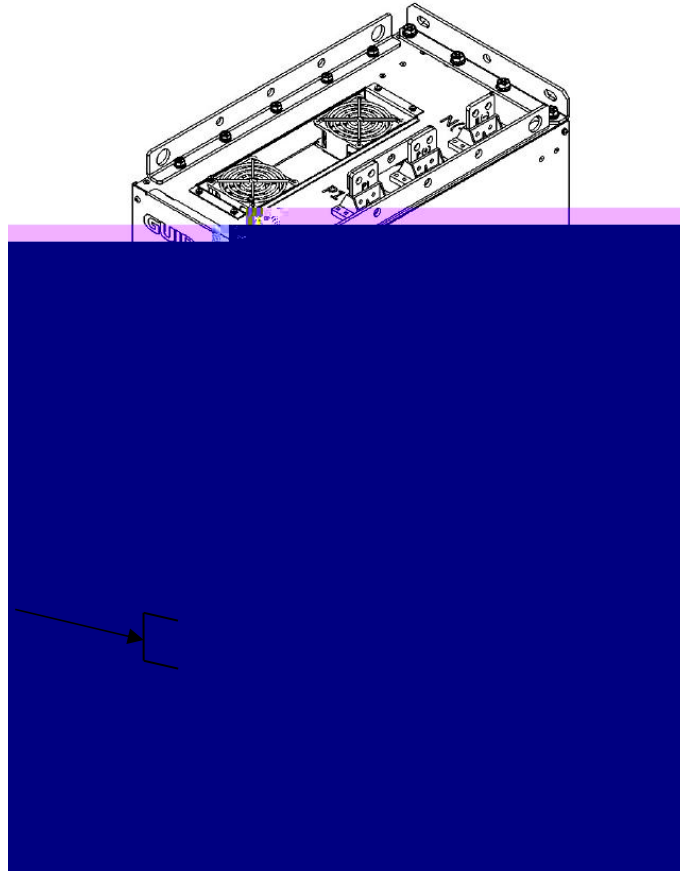
β

γ δ ε

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HF500LC-0355-6

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HF500LC 2-2 250kW

型号: HF500LC-250-6
额定功率: 250kW
额定电流: 290A
输入: 660V-690V 50/60Hz
输出: 0-690V 0-300Hz

变频器

Product ID.
MADE IN CHINA

E- STAND:V1.00

????????????

广东德力西电气股份有限公司

2-2

HF500LC-0250-6 HF500 250kW 690V
AC 3PH 660V-690V 50/60Hz 0-690V 0-300Hz

2.3

2-3 HF500LC

	1		2		~	
	[A]	[kW]	[A]	[kW]		
HF500LC-160-6	180	160	147	132	6 II 3	G2
HF500LC-200-6	220	200	180	160		
HF500LC-250-6	290	250	220	200		
HF500LC-280-6	320	280	290	250		
HF500LC-315-6	355	315	320	280		
HF500LC-355-6	390	355	355	315		

HF500LC-400-6	420	400	390	355		
HF500LC-450-6	472	450	420	400		
HF500LC-500-6	545	500	472	450		
HF500LC-560-6	610	560	545	500	12	II
HF500LC-630-6	675	630	610	560		
HF500LC-710-6	760	710	675	630		
HF500LC-800-6	810	800	760	710		
HF500LC-400-6-S	420	400	390	355		G3
HF500LC-450-6-S	472	450	420	400		
HF500LC-500-6-S	545	500	472	450		
HF500LC-560-6-S	610	560	545	500	6	II
HF500LC-630-6-S	675	630	610	560		
HF500LC-710-6-S	760	710	675	630		
HF500LC-800-6-S	810	800	760	710		
HF500LC-900-6-F	896	900	810			

2.4° ĩ ŷ ⅇ

HF500LC

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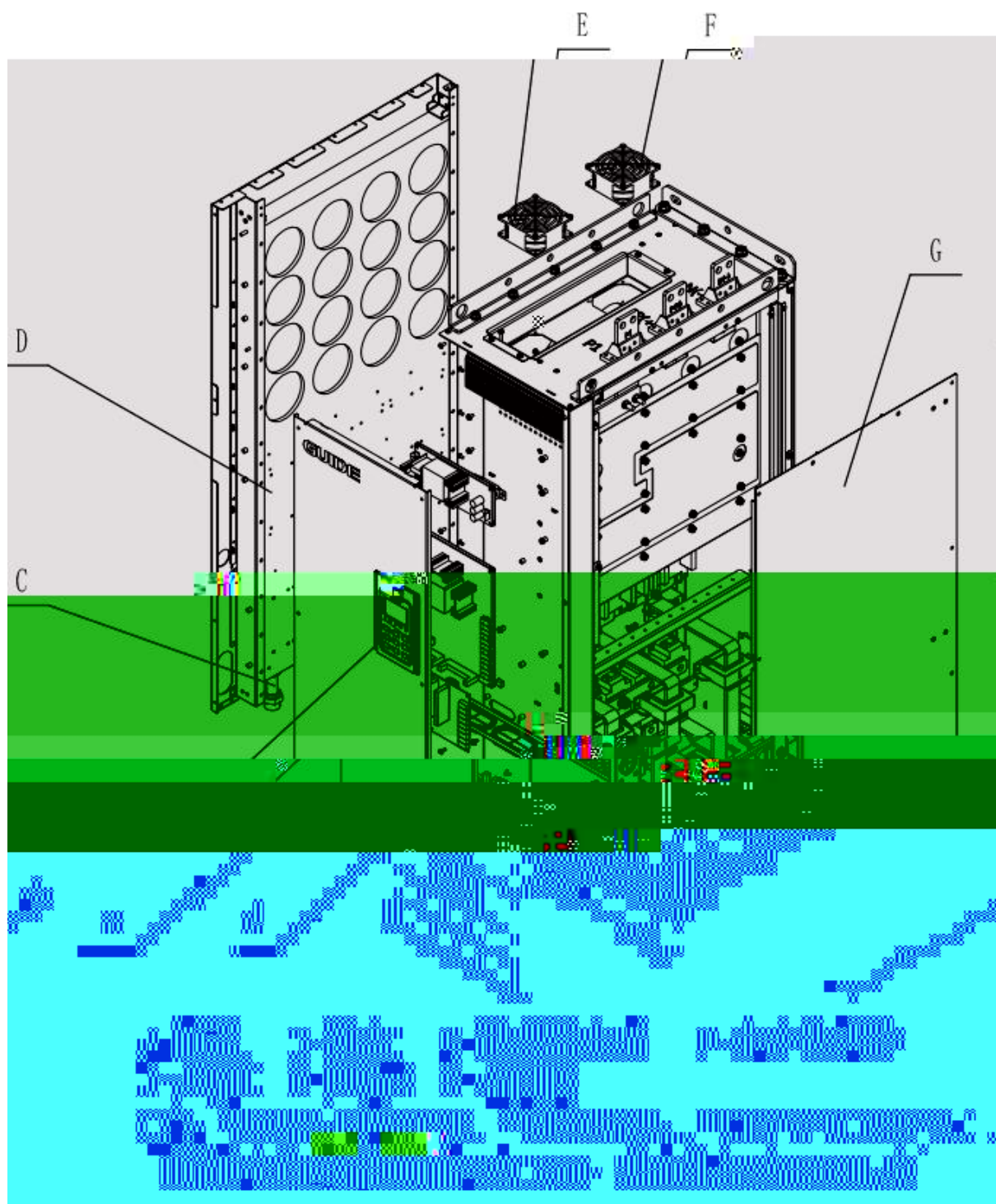
п

HF500LC-160-6

HF500LC-355-6

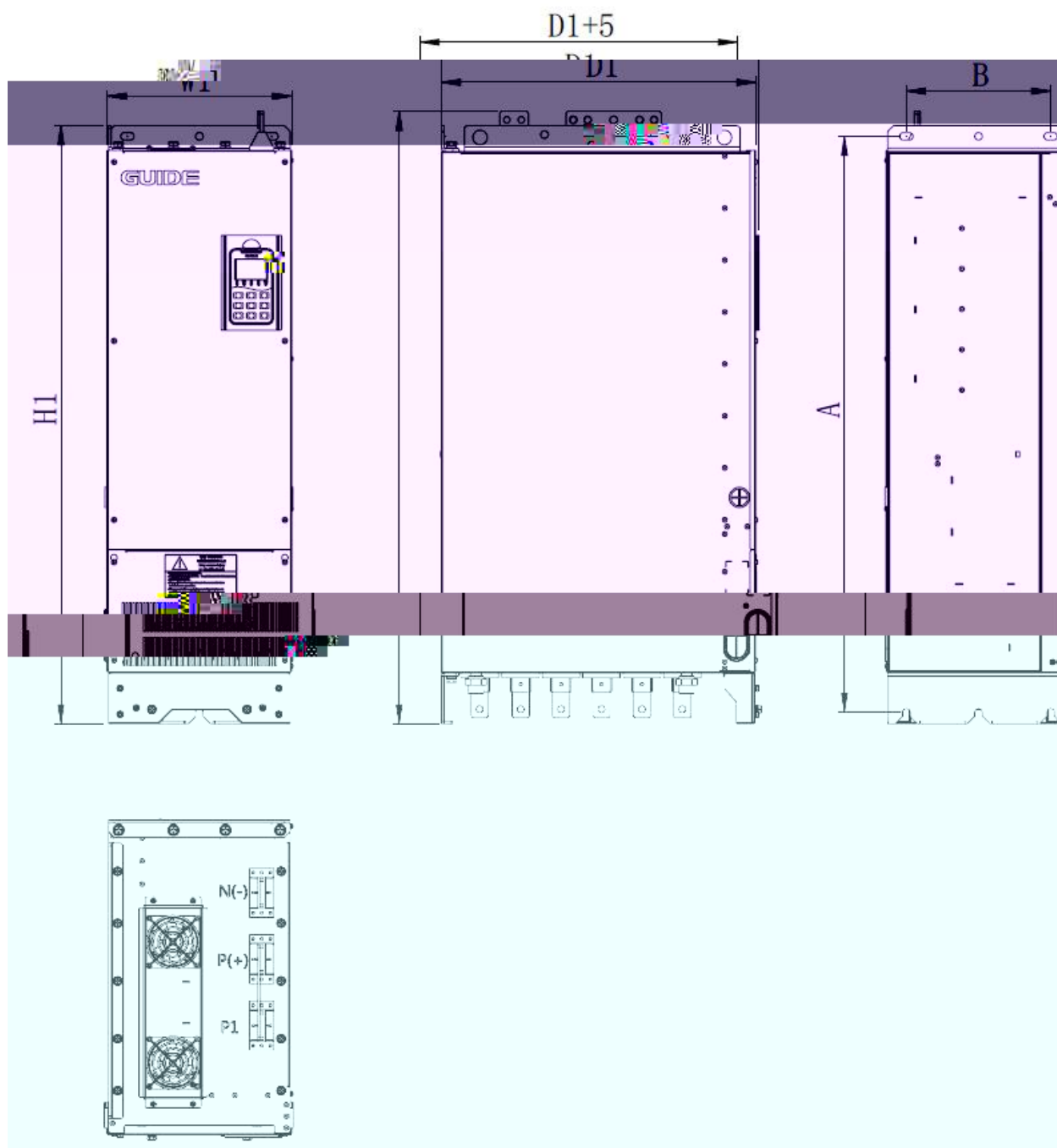


HF500LC-400-6 HF500LC-800-6

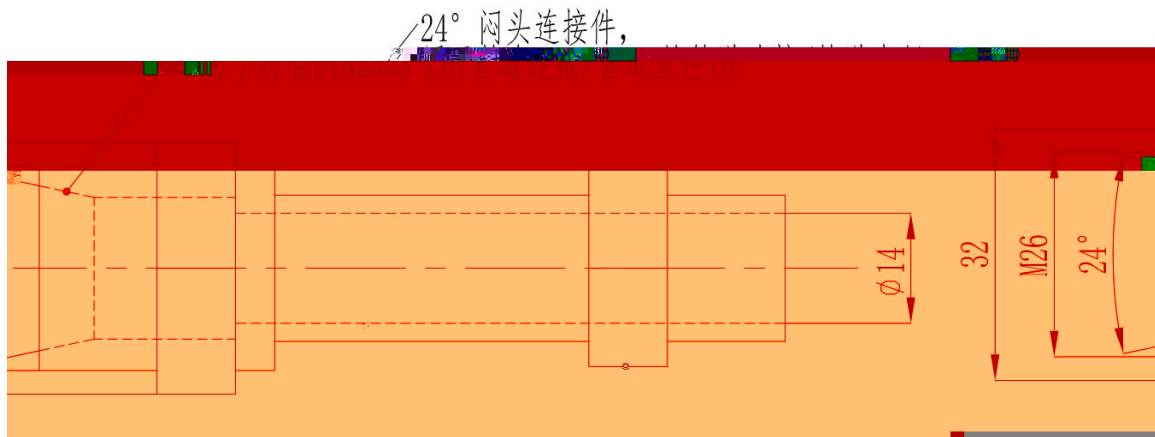


2.5^{ao}

1



		<5ms(SVC) <5ms(VC)
	L	± 5%(SVC) ± 3%(VC)
		1:500(SVC) 1:1000(VC)
		± 0.02% (VC) ± 0.2% (SVC) ± 0.5% (V/F)
	Z	5 No 150% 1 No 180% 5
	ẽ	ẽ w
	v :	
	1	G 1
	L	L Å L
	ρ PID	B 1 Z L
~ F	~	~ 8 ~ 2 1 -10V +10V 0mA/4mA 20mA
	F	F 5 3 F 2 F F 2 1 0 +10V 0mA/4mA 20mA
~	b LCD	~ ă ~ F F 1 F ă
G w		G 1 G 1 G G
a		ı ı
		Y G 1000m
		-10 +50 50 60 a .0 Y a " ' ↓
		G 95%RH o
	Ü	-20 +60
	b r	/ / H 6 4
	(L/min)	G2 22L/min,G3 24L/min
	()	55
	F o	5
	1 Z MPa	0.6
	F o 1 (Kpa)	80~150
	F o (mm)	
		/ PA PEX Teflon
	o β	
	o β	

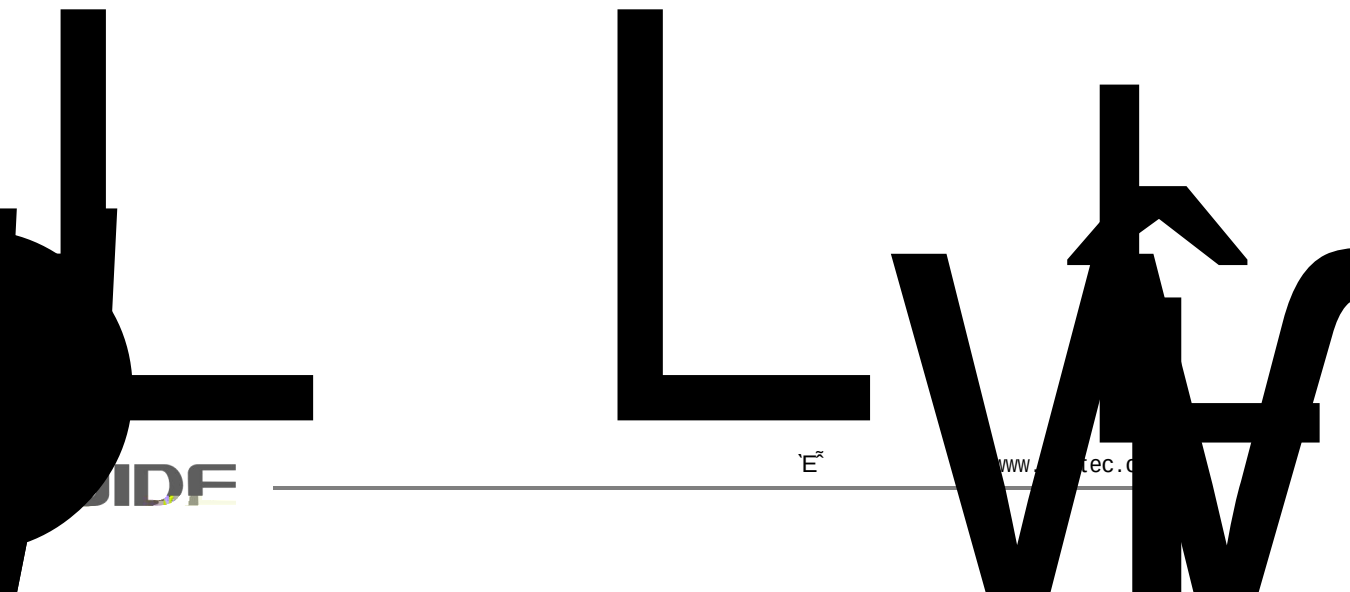


2.7

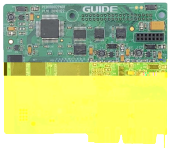
- (1) 200% 200%
- (2) 50% HF500LC 200%
- (3) HF500LC 200%

2.8

- 200%
- 200%
- 200%
- PID 200%



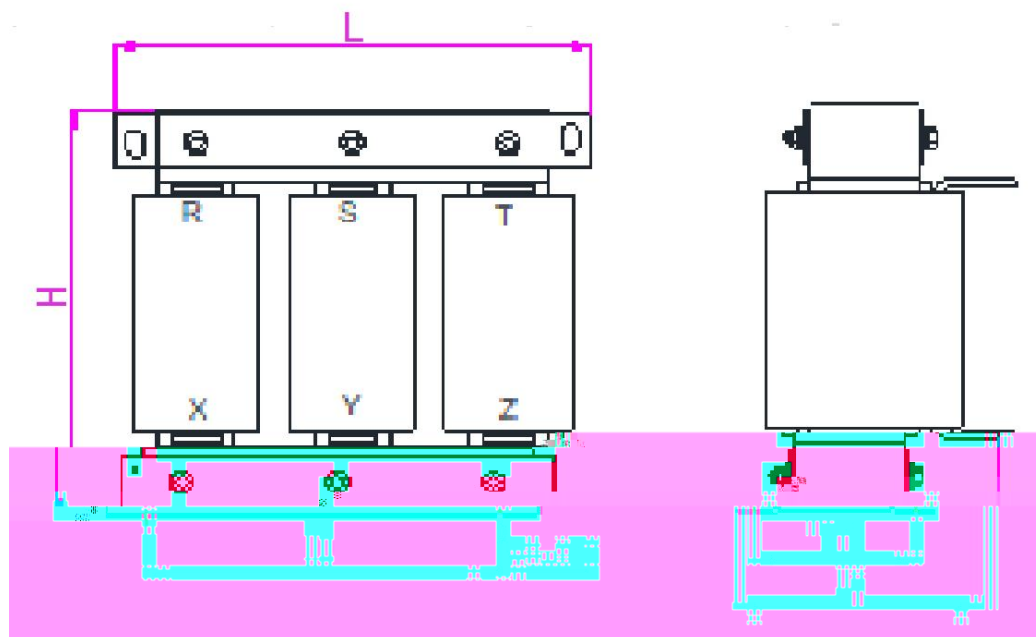
2.9 ටිබ්බ්

GDHF-DP02 ඛ		GDHF-DP02 ඛ බ්බ් Profibus බ්බ් HF500LC ඳ් ටිබ්බ් බ්බ්
GDHF-MB01 ඛ		GDHF-MB01 ඛ MODBUS-RTU උ ඛ RS485 බ්බ් RS232 බ්බ් උ RS485 RS232 MODBUS-RTU බ්බ් HF500LC ඳ් ටිබ්බ් බ්බ්
GDHF-PGC1 PG ඛ		GDHF-PGC1 PG ඛ බ්බ් බ්බ් HF500LC ඳ් ටිබ්බ් බ්බ් 15V
GDHF-PGD1 PG ඛ		GDHF-PGD1 PG ඛ බ්බ් බ්බ් HF500LC ඳ් ටිබ්බ් බ්බ් 15V
GDHF-KC2 බ්බ්		GDHF-KC2 බ්බ් බ්බ් බ්බ් HF500LC ඳ් ටිබ්බ් බ්බ්
GDHF-PN01 ඛ		GDHF-PN01 ඛ බ්බ් PROFINET ඛ බ්බ් PROFINET උ ඛ HF500LC ඳ් ටිබ්බ් බ්බ්

GDHF-MFB2 ပုံ		GDHF-MFB2 ပုံ HF500LC ↓ ဖို w 630kW~1120kW
GDHF-SFB ၂ ပုံ		GDHF-SFB ၂ ပုံ HF500LC ↓ ဖို ပုံ ၂ w 630kW~1120kW
GDHF-POF02 2 ပုံ		GDHF-POF02 ပုံ 2 စုံ ပုံ ၂ ပုံ 2 7 ပုံ
GDHF-POF03 3 ပုံ		GDHF-POF03 ပုံ 3 စုံ ပုံ ၂ ပုံ 3 7 ပုံ 2 ပုံ
GDHF-POF05 5 ပုံ		GDHF-POF05 ပုံ 5 စုံ ပုံ ၂ ပုံ 5 7 ပုံ 2 ပုံ

2.10 f

i



	L	± 5mm	W	H	D	W1	A*B
ACR-0200-0M14-0.7SC	290		220	260	214	122	11*18
ACR-0250-0M11-0.7SC	290		220	260	214	122	11*18
ACR-0290-096U-0.7SC	290		260	280	214	132	11*18
ACR-0330-085U-0.7SC	290		230	310	214	122	11*18
ACR-0390-072U-0.7SC	320		245	330	243	144	11*18
ACR-0490-057U-0.7SC	320		250	350	243	155	11*18
ACR-0600-047U-0.7SC	320		260	320	243	154	11*18
ACR-0680-042U-0.7SC	360		260	320	243	154	11*18
ACR-0810-035U-0.7SC	365		280	385	260	164	15*25

	W	W	W
ACR-0200-0M14-0.7SC	73	232.7	305.7
ACR-0250-0M11-0.7SC	86	221.4	307.4
ACR-0290-096U-0.7SC	95	240.3	335.3
ACR-0330-085U-0.7SC	100.8	265.72	366.52
ACR-0390-072U-0.7SC	112.6	266.37	378.97
ACR-0490-057U-0.7SC	126.3	326.9	453.2
ACR-0600-047U-0.7SC	152.4	360.1	512.5
ACR-0680-042U-0.7SC	170	410	580
ACR-0810-035U-0.7SC	210	461	671

3. İ Ü

⚠									
1.	Ψ	Ψ	H	Δ /	Δ	“	”	γ	~
2.	~	γ	“H	Δ /	Δ				
3.	Δ a İ	G	Δ	γ	.	~	Δ	Δ	
	-	R S T							
	-	U V W							
	-	P1 P N							
4.	γ			12 №	a İ	“H	Δ		
5.	r	G	G L						
⚠									
1.	γ	Δ	r	İ H	Δ				
2.				Δ					
3.	~	γ	İ	L	ρ	' Δ	a	o	G̃
	40	γ							
	G	Ψ	İ İ	Hu					

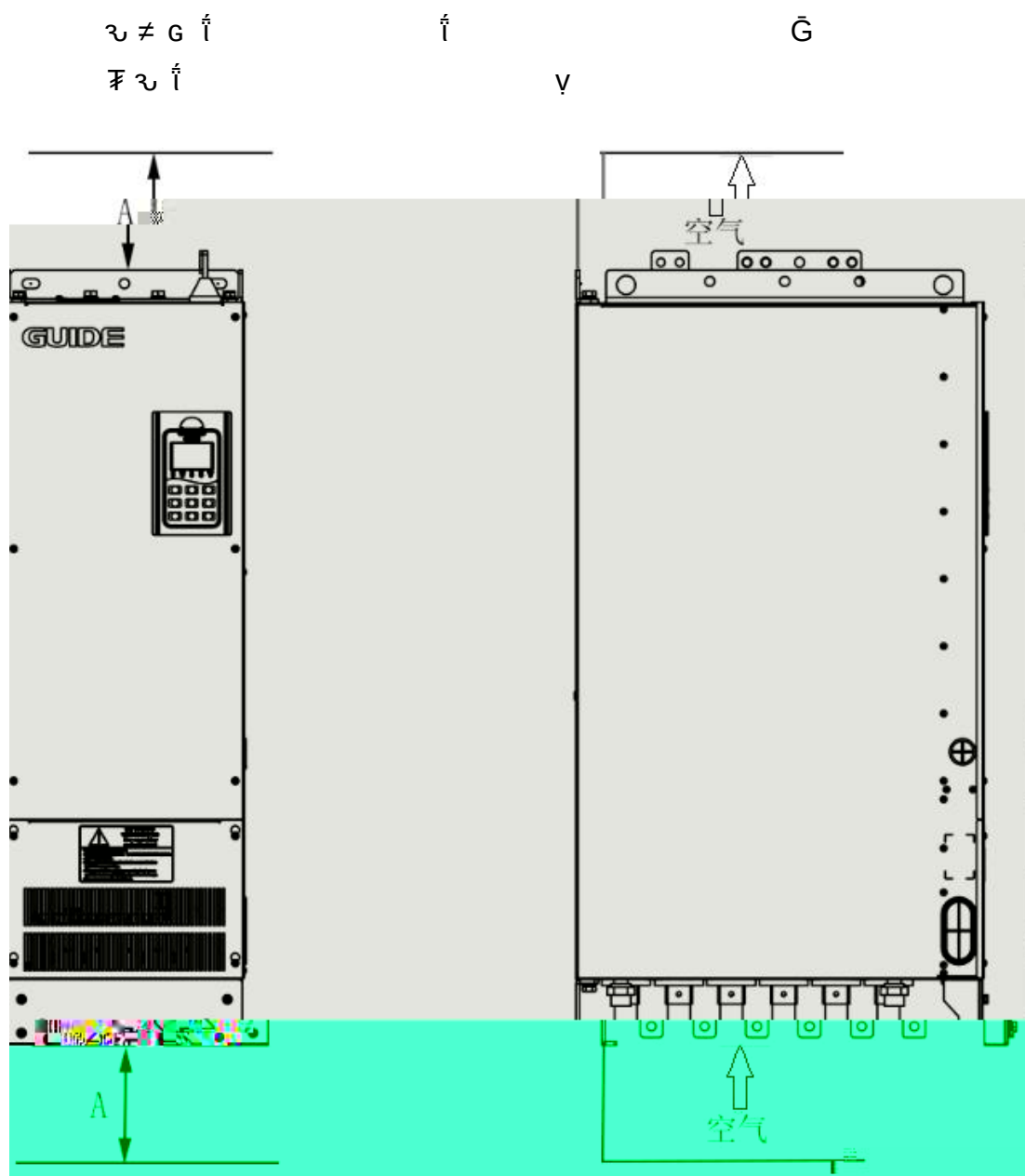
3.1 Ü

- G β
- Ü -20 | +60 ρ
- Ü 0% | 95% ρ
- Ü r
-
- İ Ψ ∅
- G̃ 1 ρ 5 γ ~ Δ
- Δ γ Δ γ

3.2

- $\dot{\rho}$ $\dot{\rho}$
- -10 +50 +50 +60 1 1
- $\mathbb{F}$ $\vdots$ 2%
- $\tilde{\omega}$ G 95%RH $^{\circ}\text{H}_2\text{O}$
- $\textcircled{P}^{\sim}$ r
- $\tilde{\omega}$
- r r
- $\tilde{\text{I}}$
-
- 1000 γ 1000 ν 100 γ 1%
- γ $\mathbb{F}$ $\sim$ 3000
- , $\tilde{\text{I}}$ a

3.3

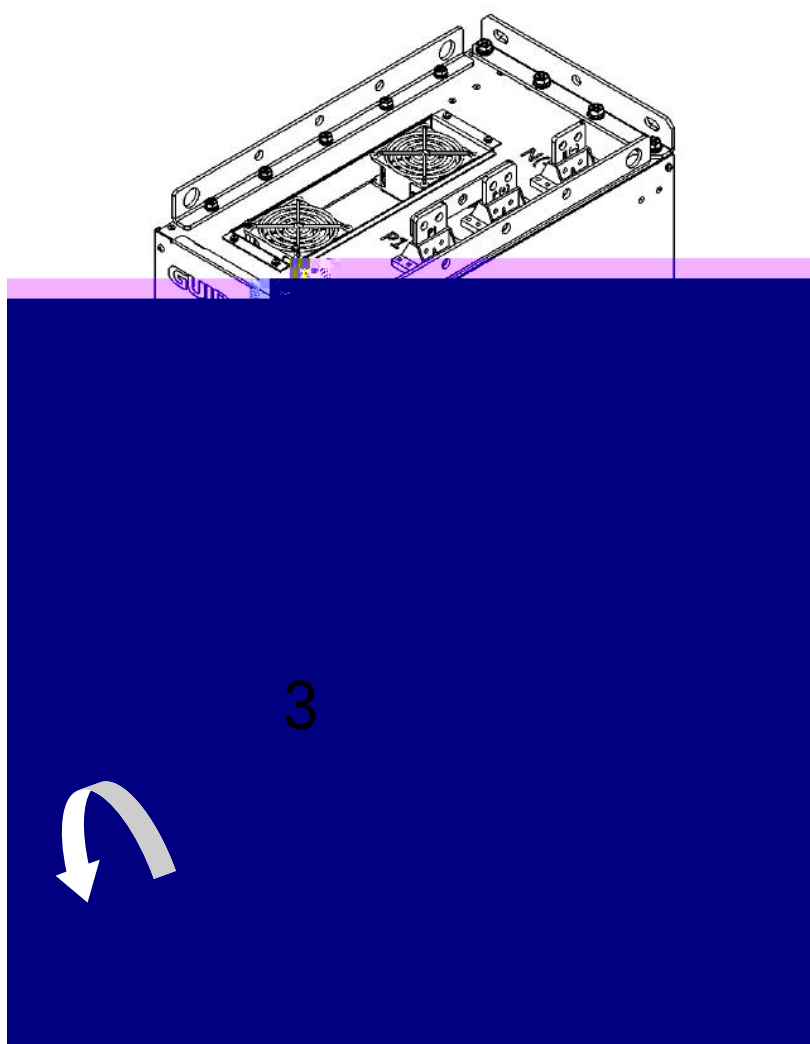


í	
	$A \geq 200\text{mm}$

3.4 ✓

✓

- | | | | | |
|---|---|-----|---|-----|
| 1 | 1 | Ö ƒ | 4 | 5mm |
| 2 | 2 | | | |
| 3 | 3 | Ü ƒ | | |
- İ



3-1 İ ✓

3.5 V

a Í GDHF-DP02 V

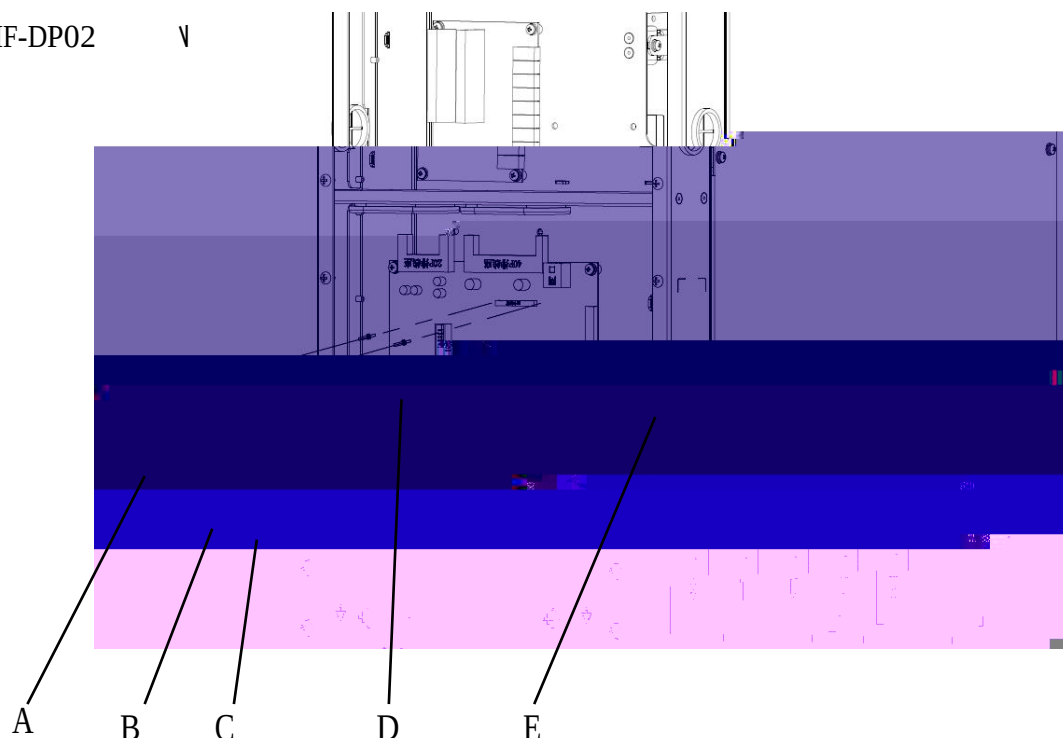
A—GDHF-DP02 V

B—

C—

D—PC

E— Í



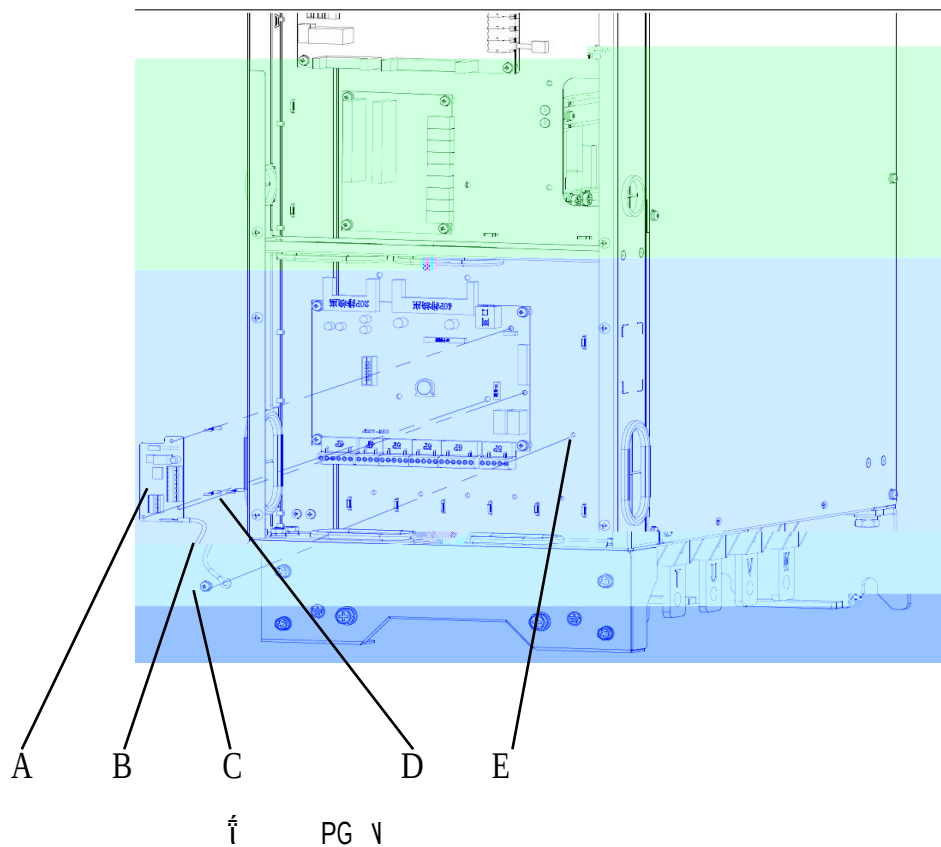
Í V

3.6 PG V

a Í GDHF-PGC1 PG V GDHF-PGD1 PG

V

- A—PG Ⅴ
- B—
- C—
- D—PC
- E— Ħ

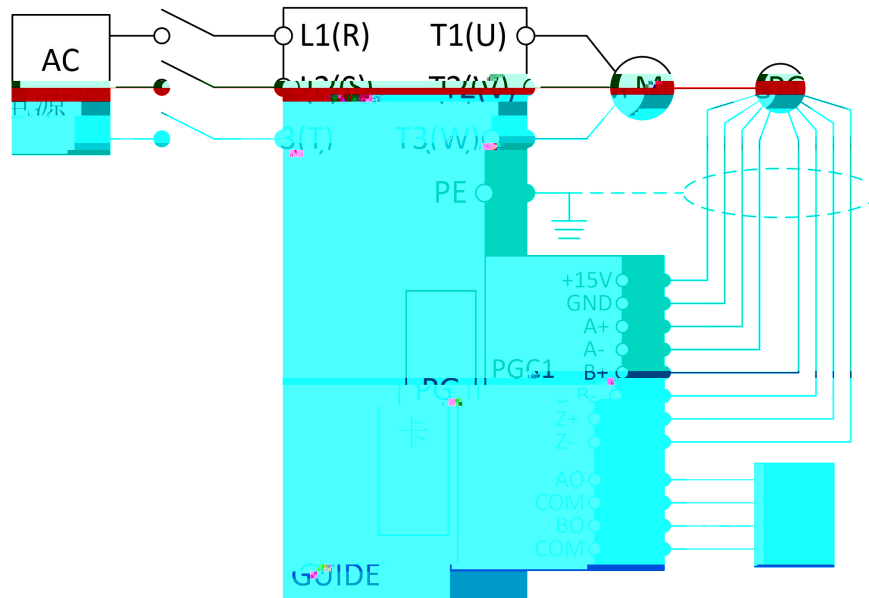


3.7 PGC1 Ⅴ

GDHF-PGC1		PG Ⅴ ~ 12					
+15V	GND	A+	A-	B+	B-	Z+	Z-
		AO	COM	BO	COM		

w	w			
	L	...	1	ƒ
+15V , GND		...	15V ± 5%	300mA
A+ , A- B+ , B- Z+ , Z-	H~ ~	0-80kHz	0-15V	...
AO , COM BO , COM	ƒ	0-50kHz	0-24V	...
PE	a		PE	

PGC1 V /

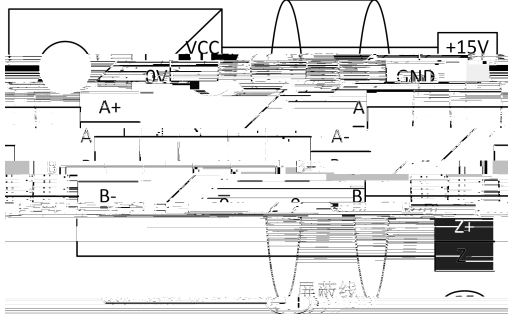


H₀

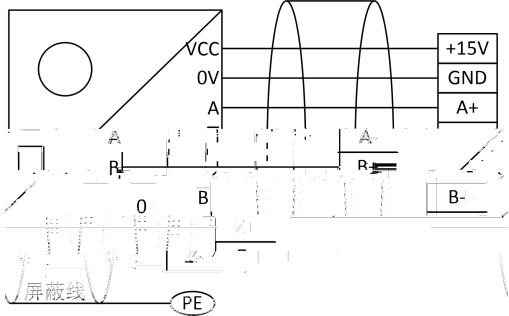
- 1 PG V H₀ z No ẽ
- 2 ẽ H₀ İ | PG V H₀
- 3 İ PE y
- 4 y No PG V A- B- Z- GND
- 5 PGC1 V / 15V RS-422 ƒ
- G a ẽ ƒ PGC1 V
- 1 15V

1 1 1

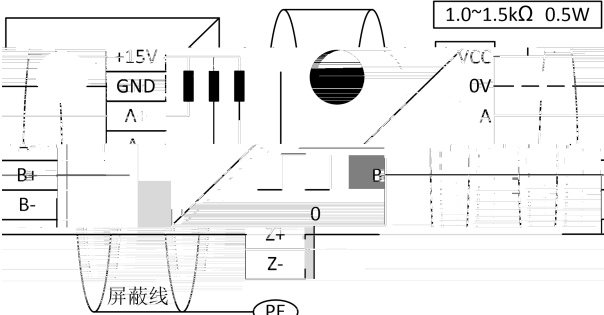
a 1

	D	
		
		HLE45-1024L-6F.AC
	0 1	RHI90N-ONAK1R61N-1024
		EC120P45-H6PR-1024

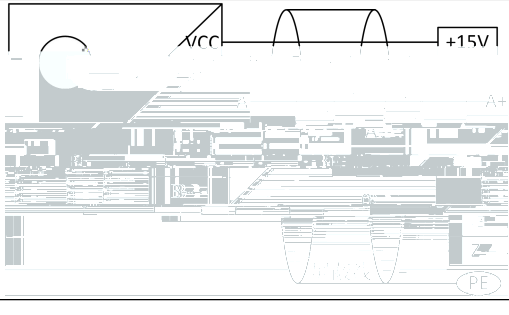
b 1

	D	
		
		HLE45-600L-3F.AC
	0 1	RV178N-10CALA31N-1024
		EC120P45-P6PR-1024

2 1 1

	D	
		
		HLE45-1024L-30C.AC
		EB38A6-C4PR-1024

3 1 1 1

	D	
		
		HLE45-600L-3R.AC
		EB50A8-N4PR-1024

- H₀
- 1 PG V H₀ z No 0
- 2 0 H₀ i | PG V H₀
- 3 i PE y
- γ 0 H₀ i
- G a 0 0 PGD1 V
- 1
- 1 0 0
- a -

D	
	~
	HLE45-1024L-6F.AC
Ö v	RHI90N-ONAK1R61N-1024
	EC120P45-H6PR-1024

b y

D	
	~
	HLE45-600L-3F.AC
Ö v	RVI78N-10CALA31N-1024
	EC120P45-P6PR-1024

2 0 0

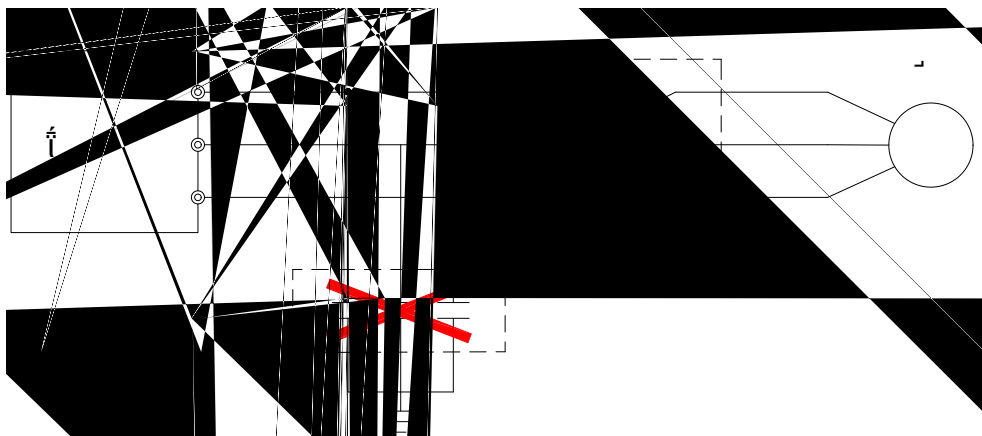
D	
	~
	HLE45-1024L-30C.AC
	EB38A6-C4PR-1024

3 ₺ 1 7 v æ ₺

4. İ

4.1 H

1 12 No b
2 12 No γ ↓ √
3 U V W
4 İ η
5 G İ L γ Ÿ İ H
6 İ v G b 7 G
İ ƒ b
7 İ U V W ƒ ~ γ v İ 4-1

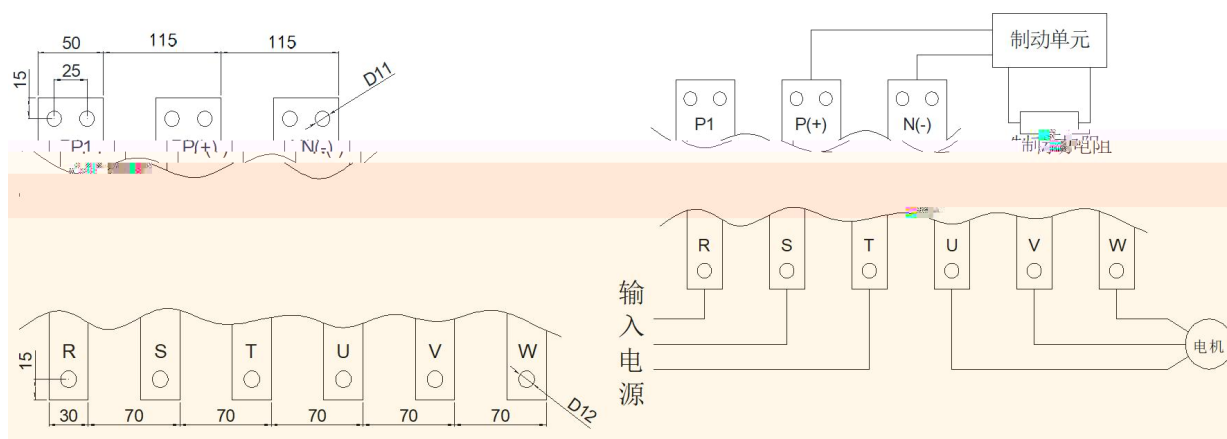


14 a 1 a ' 1 'P
15 1 1 1 G 30 m

4.2

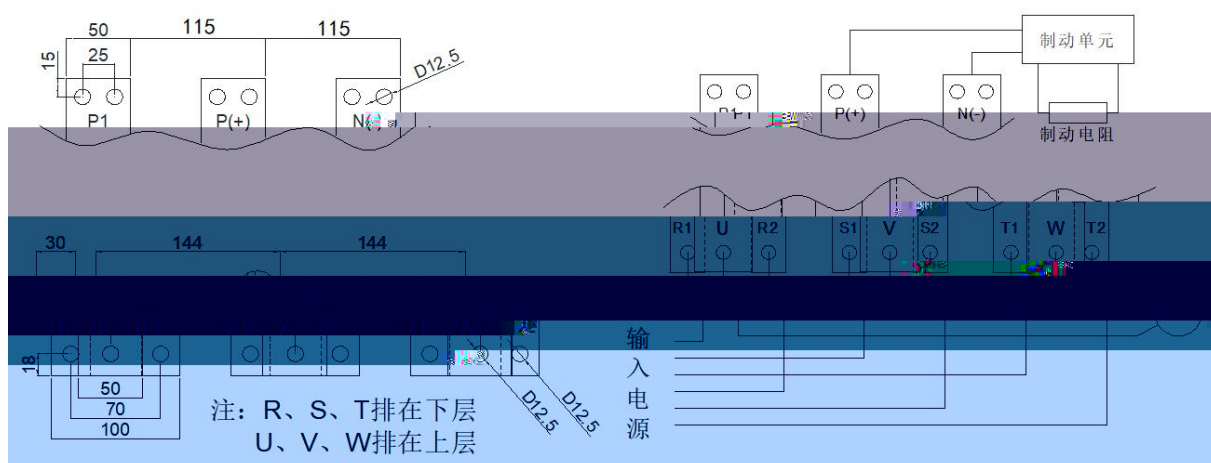
160kW ~355kW w †

G2



400kW ~800kW w †

G3



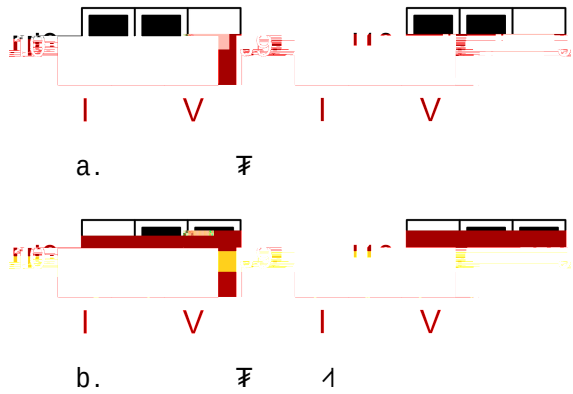
~	W
P +	u 1
P1	
N -	u 1
R S T	'
U V W	' -
	1

4.3 L

1 L

~	1	2	3	4	5	6	7	8
	+10V	GND	AI1+	AI1-	AI2+	AI2-	A01	COM
~	9	10	11	12	13	14	15	16
	A02	COM	DI1	DI2	DI3	DI4	COM	DI5
~	17	18	19	20	21	22	23	24
	DI6	DI7	DI8	COM	+24V	D01	+24V	D02
~	25	26	27	28	29	30	31	
	+24V	D03	D04A	D04C	D04B	D05A	D05C	

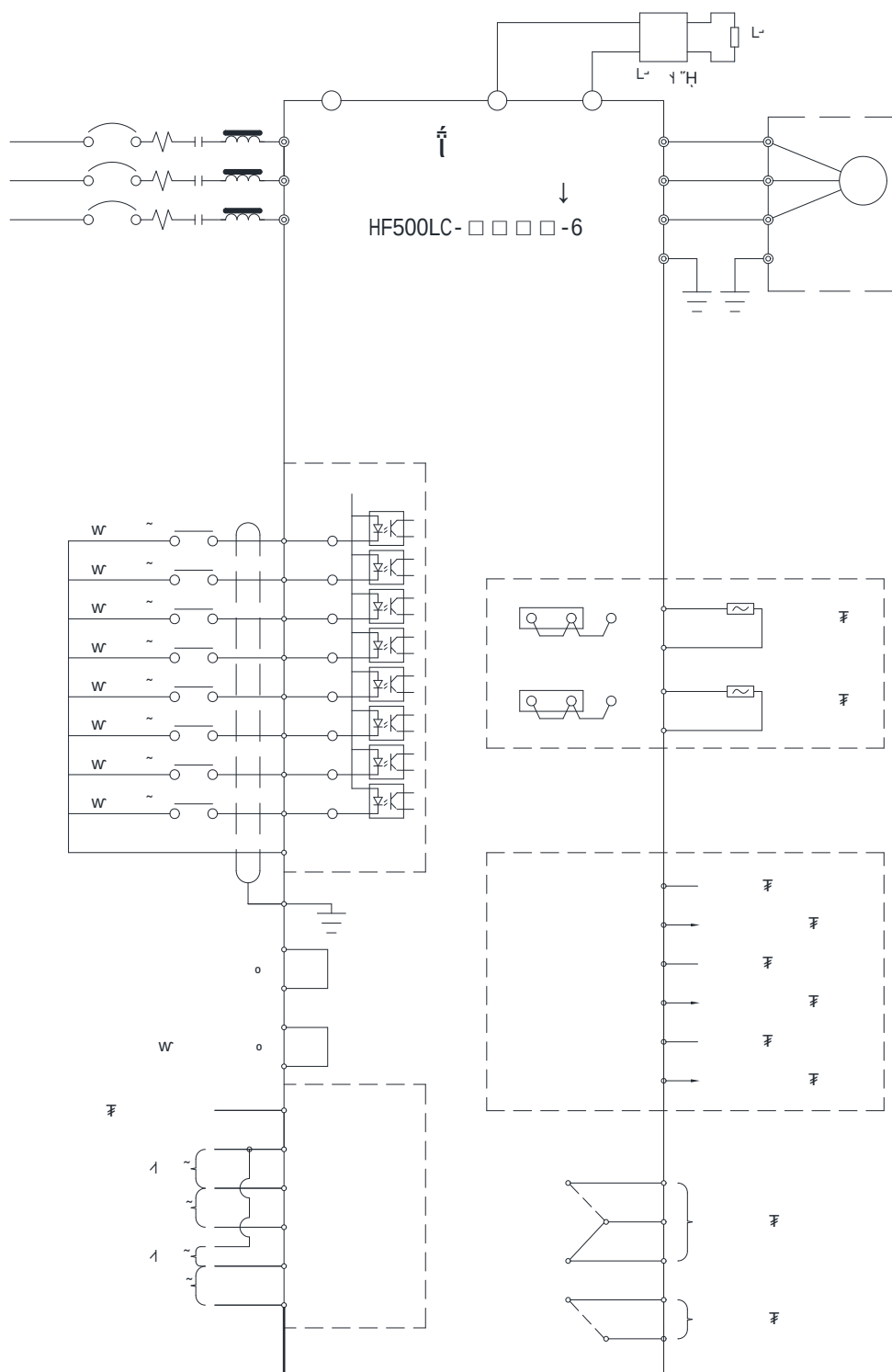
2 1



23 [~]	+24V	24V	Ꝥ		
24 [~]	D02		Ꝥ	2	Ꝥ DC24V 50mA γ
25 [~]	+24V	24V	Ꝥ		
26 [~]	D03		Ꝥ	3	Ꝥ DC24V 50mA γ
27 [~]	D04A		Ꝥ	4	Ꝥ
28 [~]	D04C		Ꝥ	4 'E "	
29 [~]	D04B		Ꝥ	4	Ꝥ
30 [~]	D05A		Ꝥ	5	Ꝥ
31 [~]	D05C		Ꝥ	5 'E "	

4.4 †

6 †

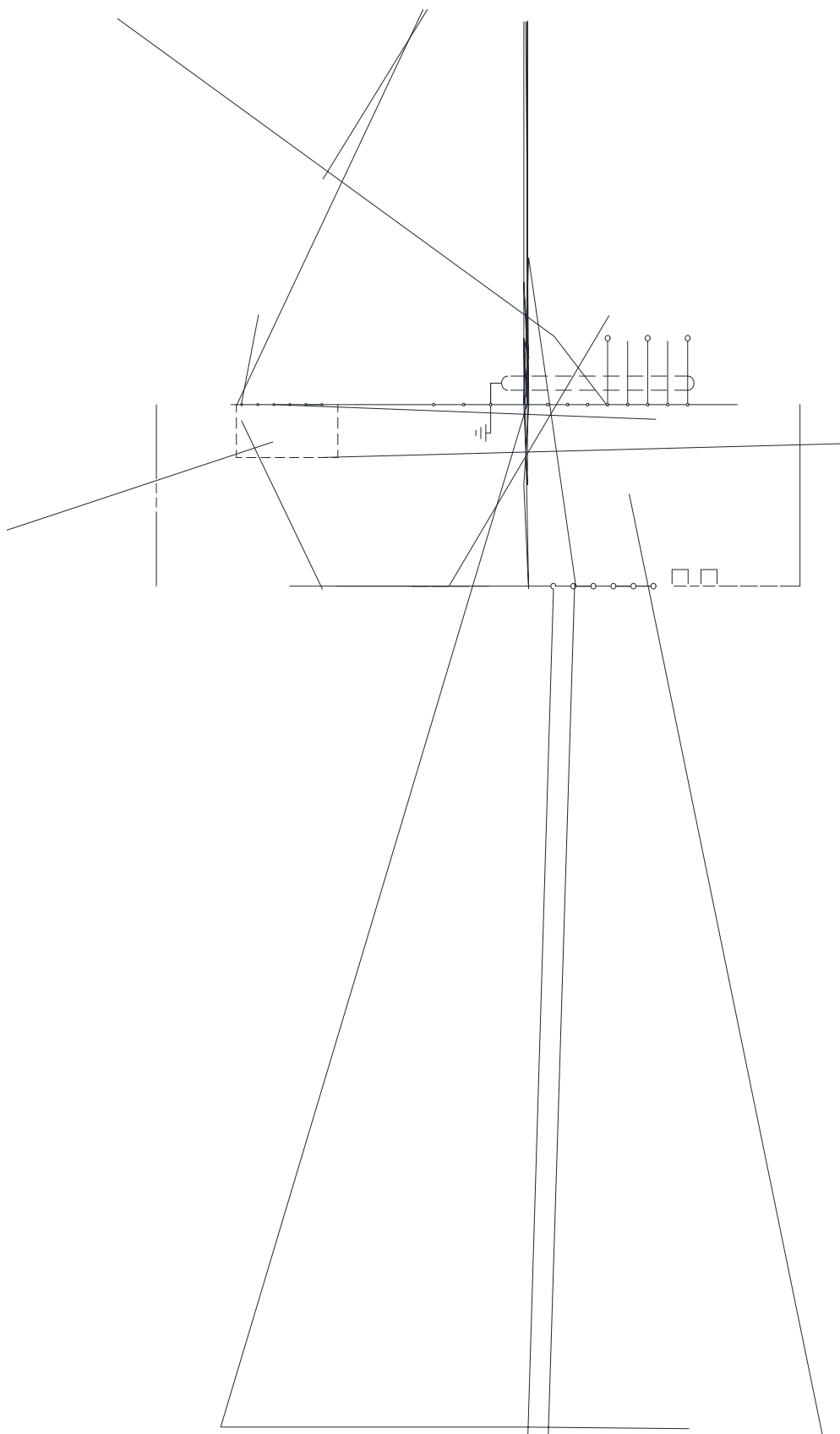




4.5

1

1



4.6

G2 ↓
6 ||

G2
6

"H Đ	
	u a 'Y ~ L
İ 1	L 3 β
	1 İ k a İ 2 İ ~ u 1 Y ~ G
	B L İ
	İ F İ G
AC	1 w 2 v İ ~ 3 J 1
L	g 'P L Ÿ 1

4.7

		~ / ƒ mm²		A	
†	~	A	CEFR †	40%	b (AC-3)
		α		b	
HF500LC-160-6		220		70	200
HF500LC-200-6		260		95	240
HF500LC-250-6		350		120	320
HF500LC-280-6		384		150	350
HF500LC-315-6		426		2*70	390
HF500LC-355-6		468		2*95	430
HF500LC-400-6		2*250		2*95	2*230
HF500LC-450-6		2*285		2*95	2*260
HF500LC-500-6		2*327		2*120	2*300
HF500LC-560-6		2*360		2*150	2*330
HF500LC-630-6		2*400		4*70	2*360
HF500LC-710-6		2*435		4*70	2*400
HF500LC-800-6		2*460		4*95	2*430
HF500LC-400-6-S		500		2*95	430
HF500LC-450-6-S		570		2*95	520
HF500LC-500-6-S		654		2*120	600
HF500LC-560-6-S		720		2*150	66

HF500LC-800-6-S	920	4*95	845
HF500LC-900-6-F	1075	2*120	986
HF500LC-1000-6-F	1210	4*120	1108
HF500LC-1120-6-F	1335	4*150	1223
HF500LC-1200-6-F	1465	4*150	1344
HF500LC-1400-6-F	1640	4*185	1502
HF500LC-1600-6-F	1750	4*240	1603

4.8 ƒ

~	(KW)	ƒ	
HF500LC-160-6	160	200A	0.07 mH
HF500LC-200-6	200	250A	0.055 mH
HF500LC-250-6	250	290A	0.048 mH
HF500LC-280-6	280	330A	0.042 mH
HF500LC-315-6	315	390A	0.036 mH
HF500LC-355-6	355	390A	0.036 mH
HF500LC-400-6	400	490A	0.028 mH
HF500LC-450-6	450	490A	0.028 mH
HF500LC-500-6	500	600A	0.023 mH
HF500LC-560-6	560	600A	0.023 mH
HF500LC-400-6-S	400	490A	0.028 mH

WIND



WIND

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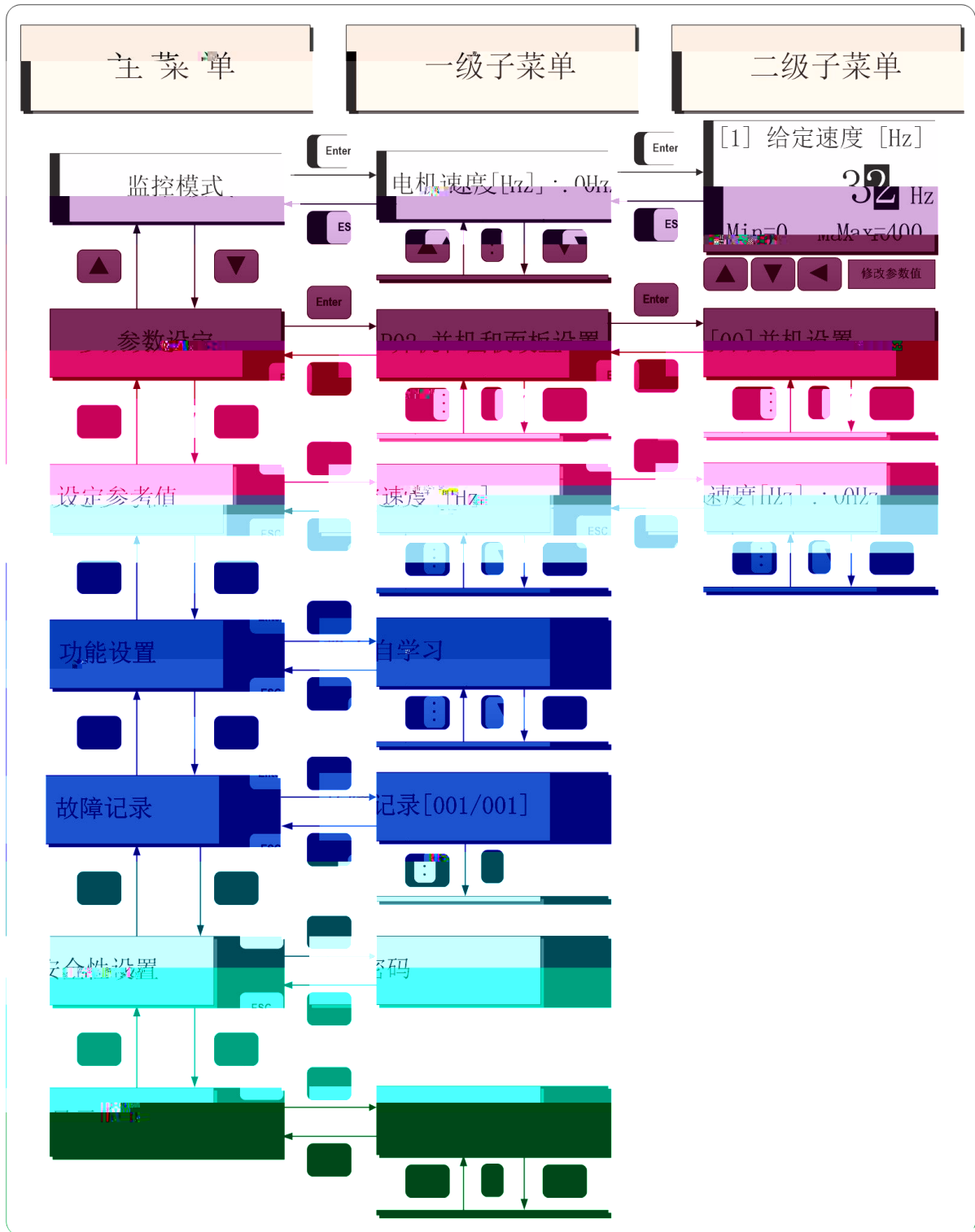
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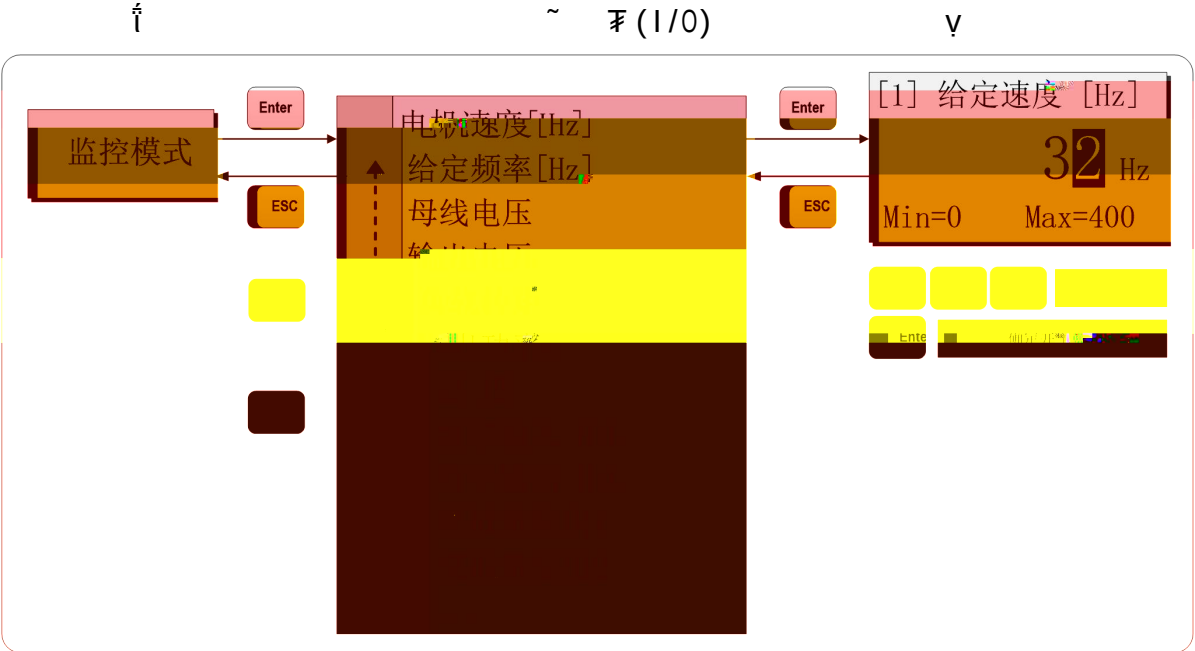
5.2 b

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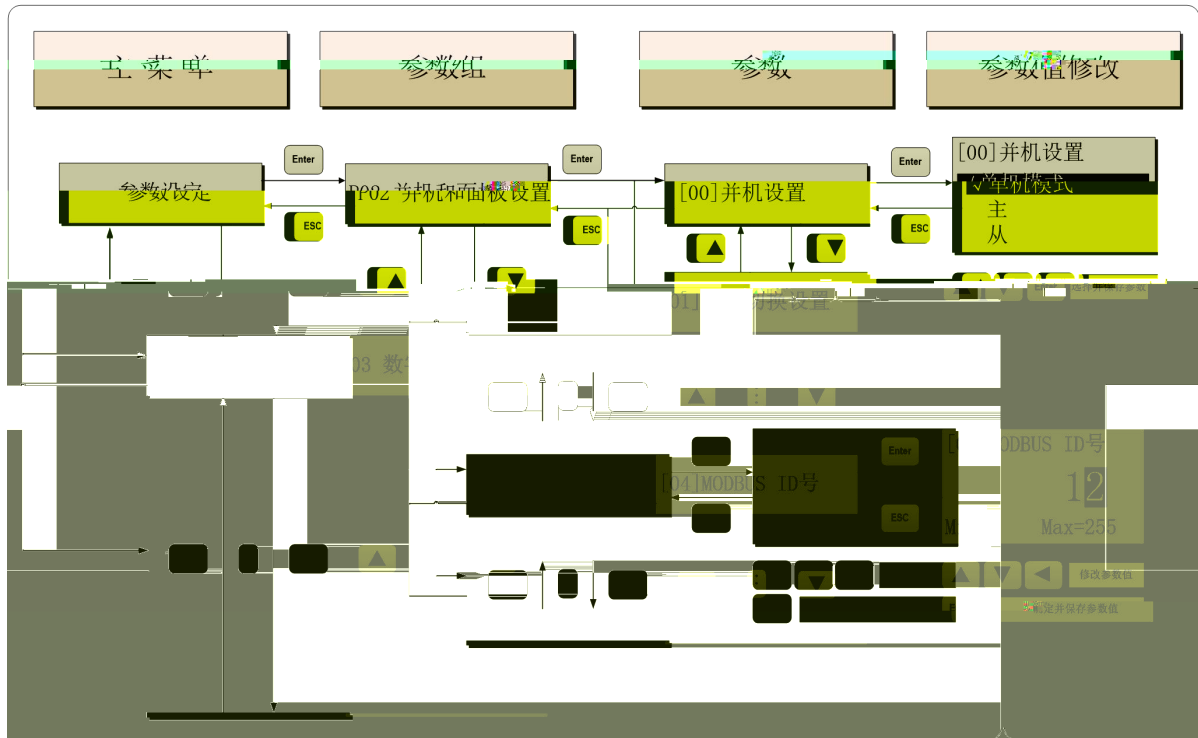
5.4 1

1 Drive Monitor

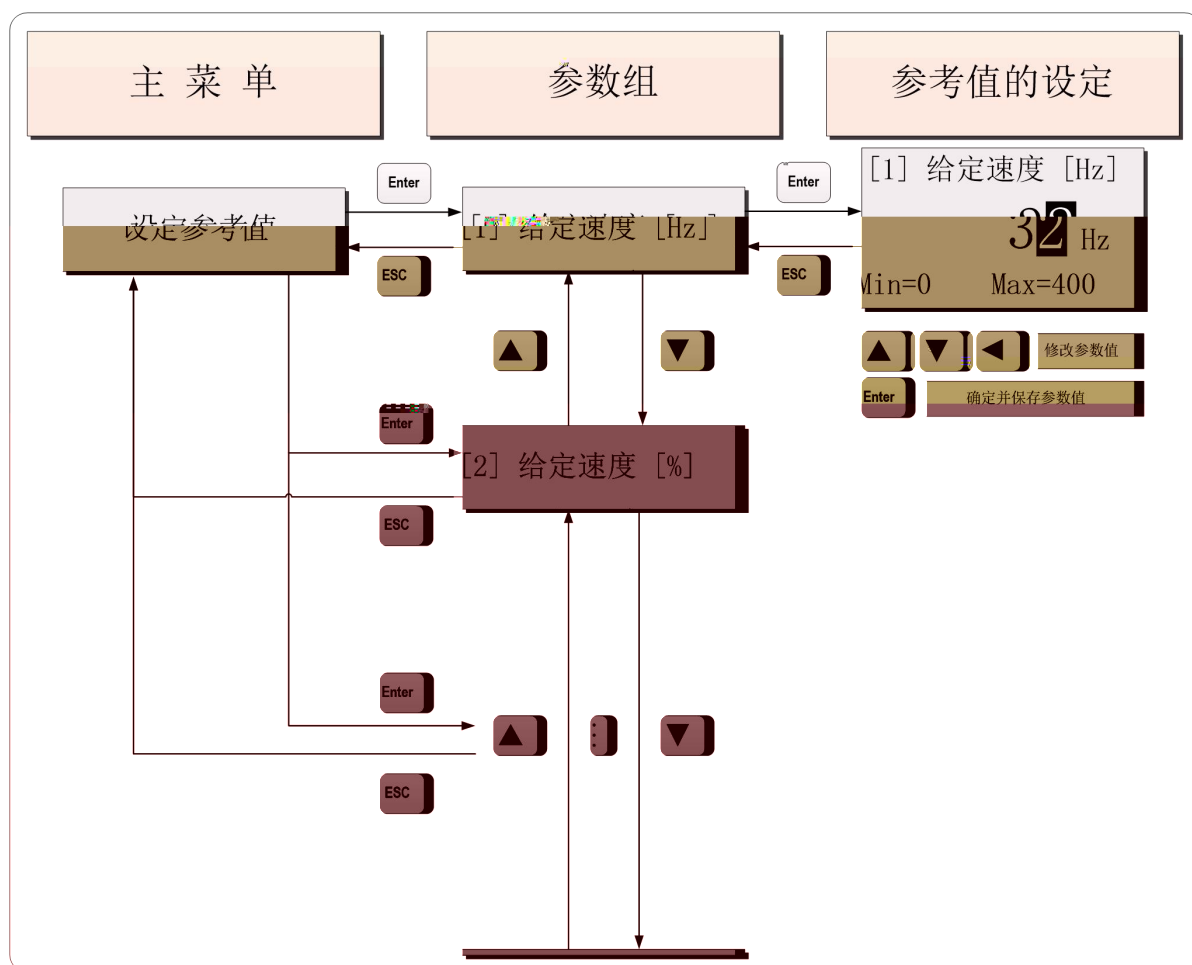


No	γ β	ǎ
[Hz]	Hz	
1	V	1
1	V	1
	A	v
	%	
w	kW	w
		IGBT
[Hz]	Hz	
~ H:L		L β ~
1 H:L		L β ~
1	%	1
2	%	2
~ 1 1	V	~ 1 1
~ 1	A	~ 1
~ 2 1	V	~ 2 1
~ 2	A	~ 2
	rpm	
AFE	Hz	
1 v AFE	V	1 v
A	A	A v
B	A	B v
C	A	C v
	A	Ä

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3 $\check{\alpha}$ $\check{\nu}$ Reference Set



	No	γ β	$\check{\alpha}$
Reference Set $\check{\alpha}$ γ	Speed	[Hz]	γ β Hz
		[%]	γ β %
	Torque	[%]	γ β %
	Torque limiter L	[%]	L γ %
	$\neq 1$	[%]	1 $\neq$
	$\neq 2$	[%]	2 $\neq$

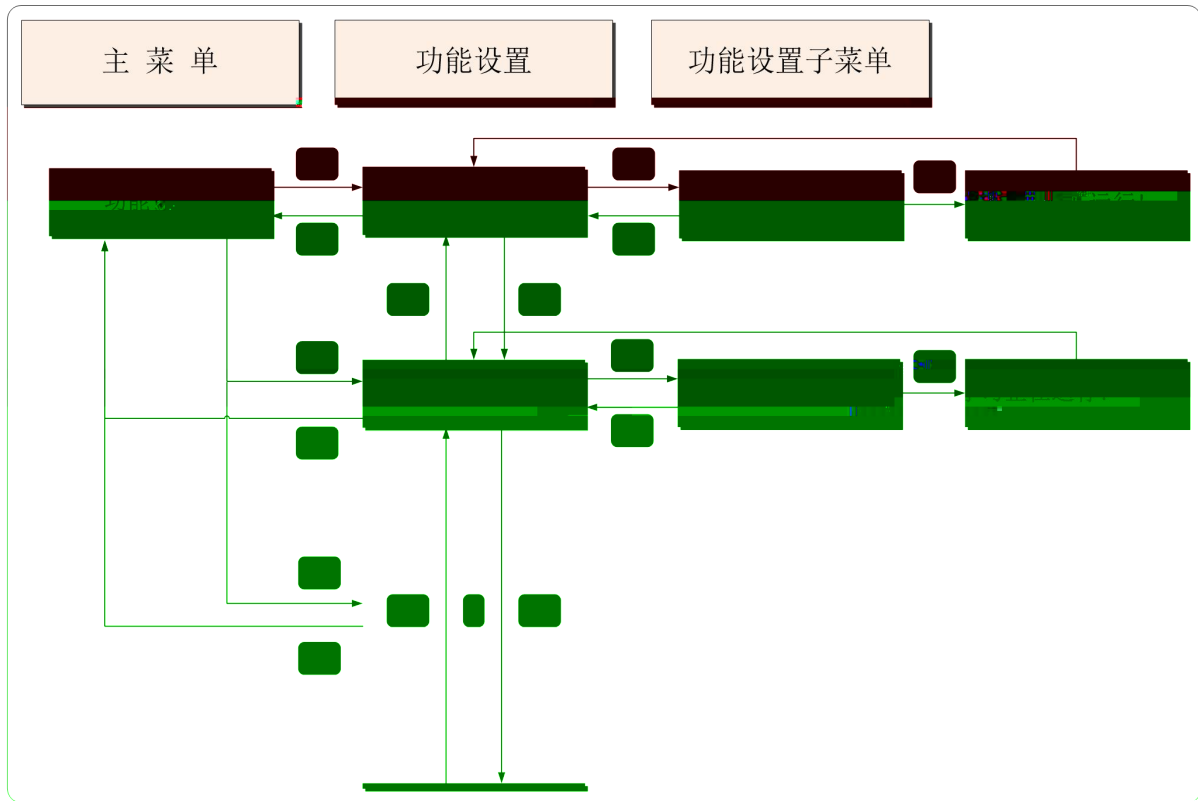
4 w Function Set

w Function Set

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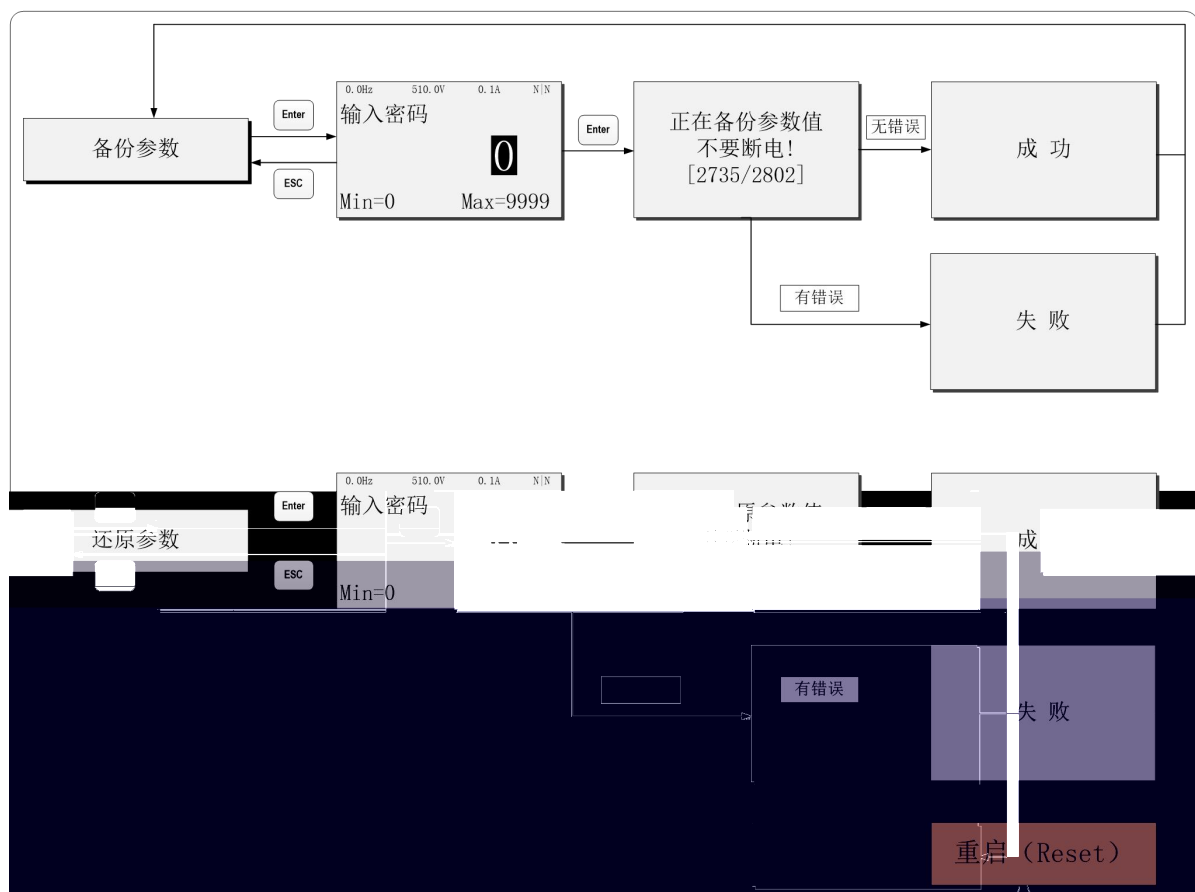
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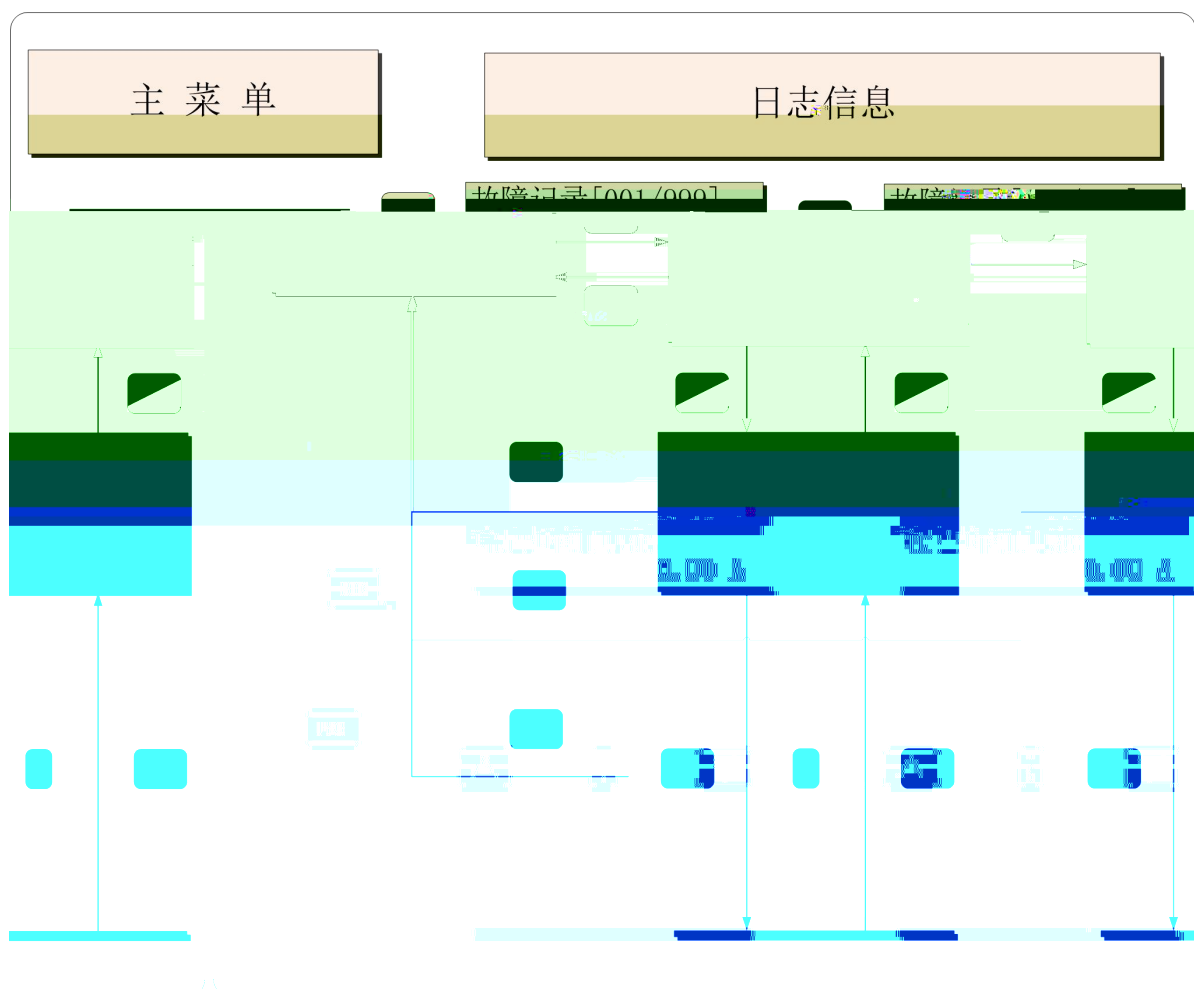
5

Error Event Log

~ γ

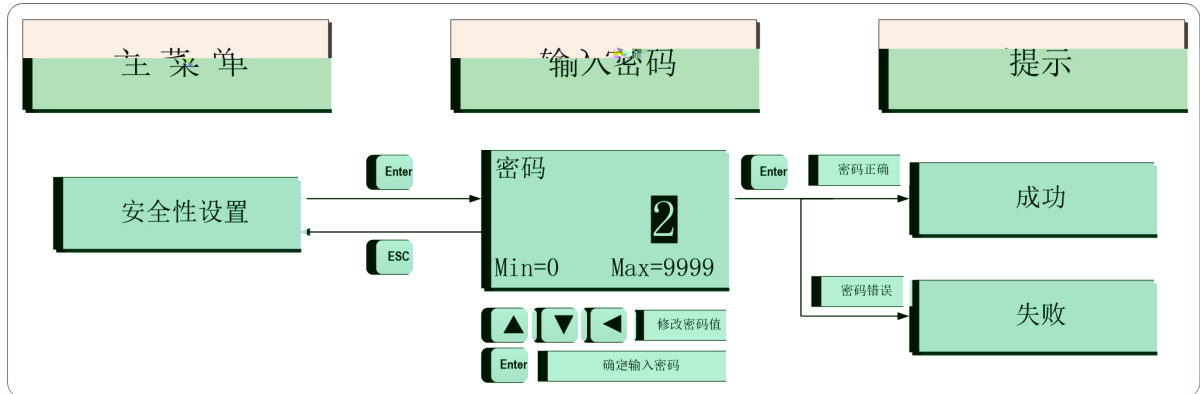
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6 Security

Security Settings

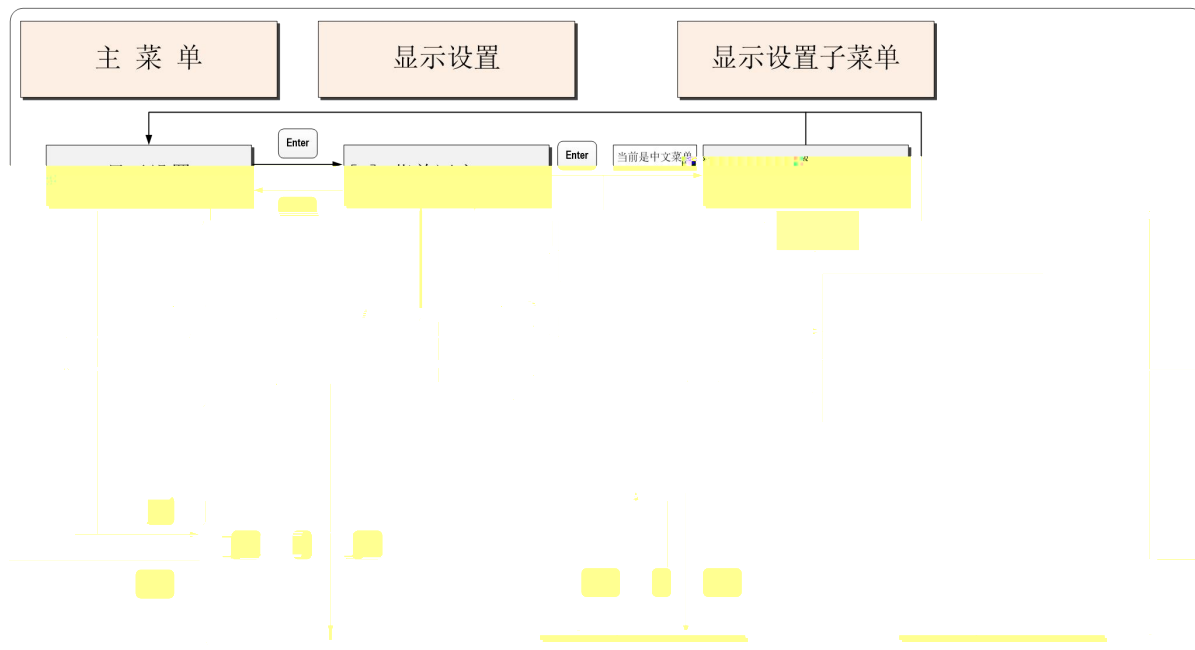


	No	Yes
Security Settings	Yes	Security Settings

7 Display Setting

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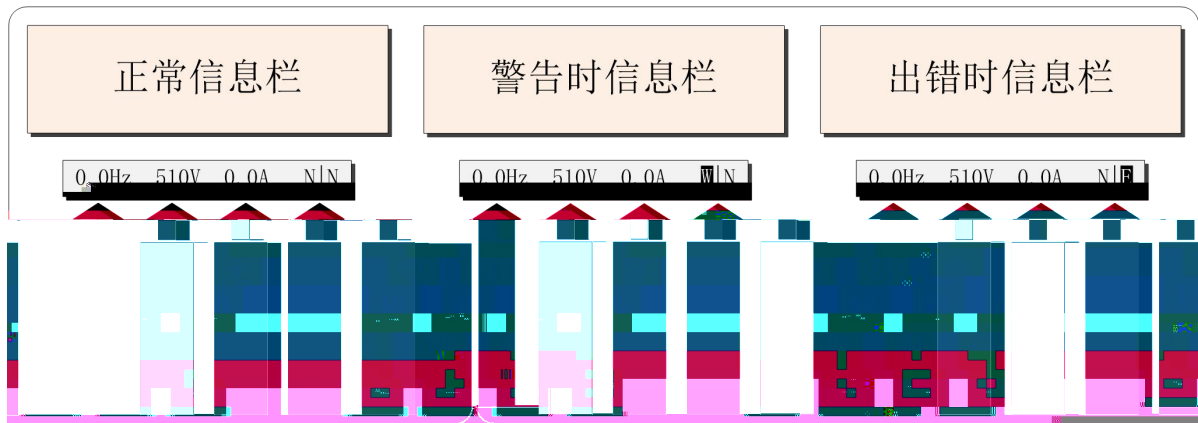
b



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Display Set	ı	ı
	ı	~ γ ı " 4 4 1 4 ı 5 8 γ ǎ " "
		No≠ No
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	β	b Ĝ w
		~ γ β " " ₣ 'P β

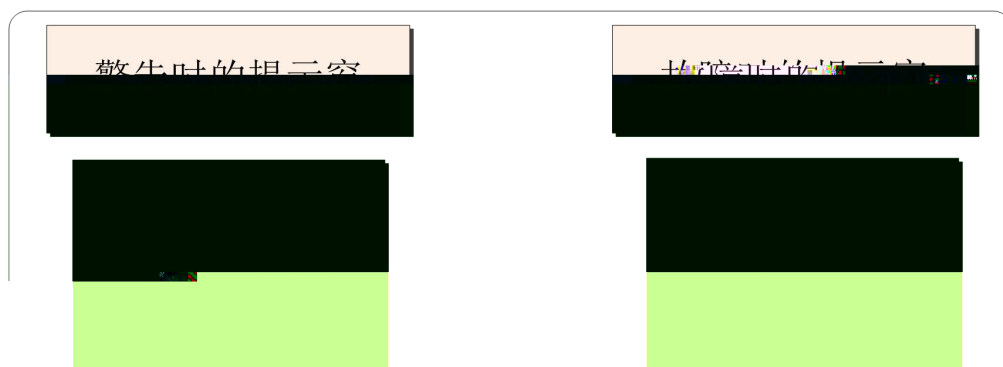
8 H Information Bar

H ψ ψ 𐀀 𐀁 H
H 𐀂 γ 𐀃 𐀄



9 Warning and Error

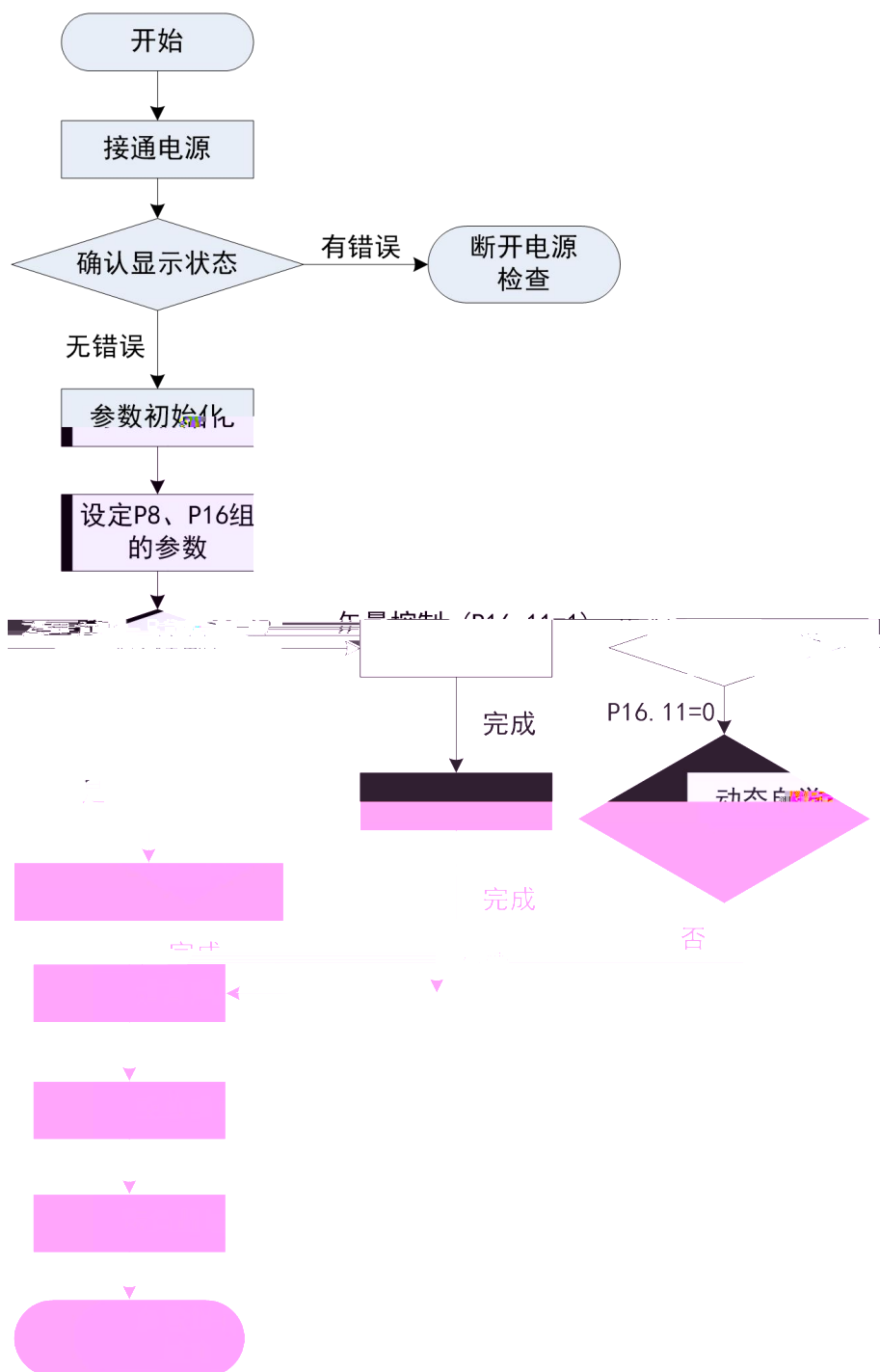
𐀅 𐀆 H
𐀇 γ a “RESET” β 𐀈 γ a “ESC”
H 𐀉 ψ
𐀊 “RESET” β
𐀋 “RESET” β 15 𐀌
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6. 1

6.1 1

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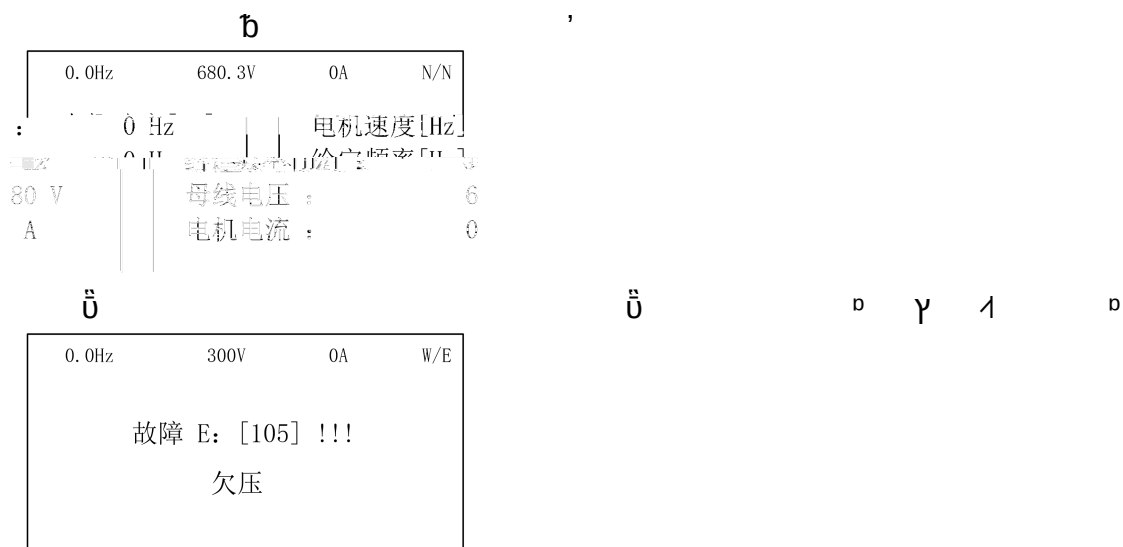
a b A || F /
 L Δ v V/F L P16.11=0 3 | L V/F
 L A
 L No L P16.11=2 L P16.11=1
 L - ä G L
 D "H A -

6.2 1 b

6.2.1

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 AC660~690V 50/60Hz
 2 7 U,V,W
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 4 a PG V PG V
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6.2.2



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ă Δ . ă v v İ r 5.4 “ w ”

6.2.4 ă

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w			v
P8.0	-	[0] ~ [1] b [2] DP [3] MODBUS [4] w	1
P8.3	Ă	[0] Ă [1] Ă	1
P8.6		0 300s	0
P8.7	Ĝ	Ă Ĝ	0
P8.10		[0] I/O [1] ~ 1 [2] ~ 2 [3] b [4] DP [5] MODBUS [6] w	3
P8.14	v Ő	0.1 10.0	1
P8.15	v M 1	v	100
P8.16	v 1	ĉ Ă Ĵ P8.15 v v	3
P8.17	v M 2	H v	200
P8.18	v 2	ĉ P8.15 v Ĵ P8.17 v v	4
P8.33	İ Ő	0.1 10.0	1
P8.34	İ M 1	İ	100
P8.35	İ 1	ĉ P8.34 v Ĵ Ă İ	3
P8.36	İ M 2	H İ	200
P8.37	İ 2	ĉ P8.34 v Ĵ P8.36 v İ	4

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w	ǎ	y
P16.0	~ 1	380V
P16.2	w	ǎ
P16.3	1	ǎ
P16.4		ǎ
P16.5		ǎ
P16.6		ǎ
P16.7		120 × P16.5 / P16.6 ů
P16.9		120 × P16.5 / P16.7
P16.11	L	[0]V/F L [1] [2]

6.2.5 ǎ

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P16.11 y

[1] [2] †

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P20.74 P20.78 P20.79 P20.84

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⌘ P20.85~P20.97 ǎ

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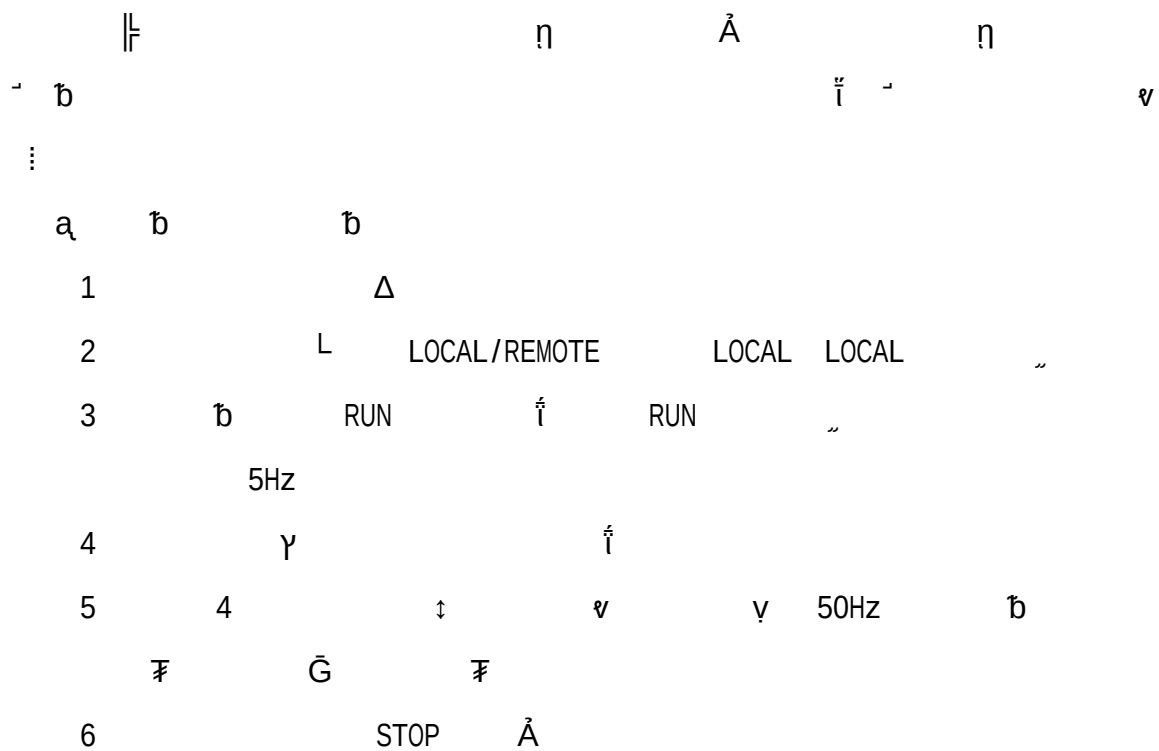
4
 L
 50%
 P20.98
 P20.98 a
 L

6.2.6

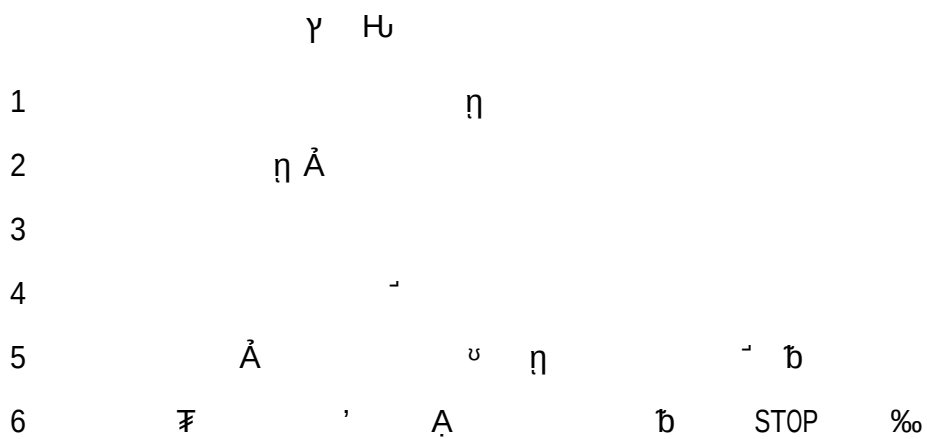
HF500LC
 7.5%
 50%
 50%
 1/5
 P16
 1
 V/F

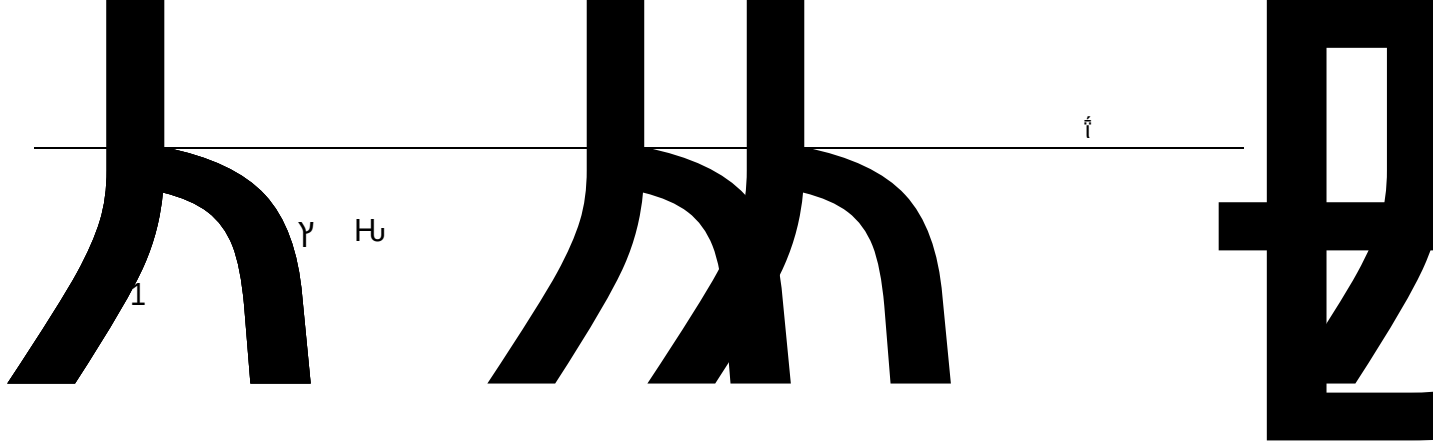
	H
İ	7.5% 50% 50% w
İ	w 1/5 P16 1 V/F
İ	w 1/5 P16 1 V/F
İ	w 1/5 P16 1 V/F

6.2.7



6.2.8





7. ĩ ã

7.1 P1

w				v	
P1.21	' ↓ a	[0] ; [1] a ;	0 1	0	

7.2 ĩ P2

w				v	
P2.0		[0] † b † a [1] b a [2] c b c a	0 2	0	8.1
P2.1	Ⓟ	[0] ~ L Ⓟ [1] DP L Ⓟ	0 1	0	
P2.2		[0] [1]	0 1	0	
P2.3	c	' c	0 5	1	

7.3 ~ P3

w				v	
P3.0	~ 1	~ w	0 32	1	
P3.1	~ 2	~ w	0 32	2	
P3.2	~ 3	~ w	0 32	5	
P3.3	~ 4	~ w	0 32	6	
P3.4	~ 5	~ w	0 32	7	
P3.5	~ 6	~ w	0 32	8	
P3.6	~ 7	~ w	0 32	0	
P3.7	~ 8	~ w	0 32	0	
P3.12	- L	[0] [1] a	0 1	0	

24	Å	H~ w a
25	FUNC 25	
26	L	H~ L † L
27	FUNC 27	
28	H~	H~
29	FUNC 29	

7.4 P4

w				y	
P4.0	1	w ~	0 64	0	
P4.1	2	w ~	0 64	0	
P4.2	3	w ~	0 64	0	
P4.3	4	w ~	0 64	0	
P4.4	5	w ~	0 64	0	
P4.16	w 1	w	0 500	0	
P4.17	w 2	w	0 500	0	
P4.18	w 3	w	0 500	0	
P4.19	w 4	w	0 500	0	

w ~	w	
y	w	
0		K v W
1	H~	8.3
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3	L~	L~ Ð 8.3
4		~ H~
5	%o	İ %o
6	1	[6] [9] ~ Ð
7	2	
8	3	
9	4	
10	FUNC 10	
11		~ H~

10

ENI i v b + 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 10

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7.5 ~ P5

w				v	
P5.0	AI1	[0] [1]0 +10V [2]-10 +10V [3]0 20mA	0 3	1	
P5.1	AI1	AI1 v í a v ↑ ψ p ψ í	0.0 1000.0 [ms]	25.0 [ms]	
P5.2	AI1 1 Z	AI1 1 Z	-10.00 10.00 [V]	0.000 [V]	8.4
P5.3	AI1 Z	AI1 Z	-20.00 20.00 [mA]	0.000 [mA]	8.4
P5.4	AI1 1	AI1 1	-10.00 10.00 [V]	0.000 [V]	8.4
P5.5	AI1	AI1	0.00 20.00 [mA]	0.000 [mA]	8.4
P5.6	AI1 v	AI1 v	-300.0 300.0 [%]	0.0 [%]	8.4
P5.7	AI1 1	AI1 1	-10.00 10.00 [V]	10.000 [V]	8.4
P5.8	AI1	AI1	0.00 20.00 [mA]	20.000 [mA]	8.4
P5.9	AI1 v	AI1 v	-300.0 300.0 [%]	100.0 [%]	8.4
P5.18	AI2	[0] [1]0 +10V [2]-10 +10V [3]0 20mA	0 3	3	

A12

P5.19 A12

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P6.6	A01 Z v	A01 Z v	-100.00 100.00 [%]	0.00 [%]	
P6.7	A01 ¢	A01 ¢ (P6.0 [13] v)	0.0 100.0 [%]	0.0 [%]	
P6.8	A01	A01 ¢ v ï ï - a v † ¢ ¢ v - p ¢ í	0.0 1000.0 [ms]	10.0 [ms]	
P6.14	A02 ¢	7-1	0 14	4	
P6.15	w ¢ 2	w ¢ v	0 1000	0	
P6.16	A02 ¢ v	A02 ¢ v	-300.0 300.0 [%]	0.0 [%]	
P6.17	A02 ¢ v	A02 ¢ v	-300.0 300.0 [%]	100.0 [%]	
P6.18	A02 ¢ [mA V]	A02 ¢	0.0 100.0 [%]	0.0 [%]	
P6.19	A02 ¢ [mA V]	A02 ¢	0.0 100.0 [%]	100.0 [%]	
P6.20	A02 Z v	A02 Z v	-100.00 100.00 [%]	0.00 [%]	
P6.21	A02 ¢	A02 ¢ (P6.14 [13] v)	0.0 100.0 [%]	0.0 [%]	
P6.22	A02	A01 ¢ v ï ï - a v † ¢ ¢ v - p ¢ í	0.0 1000.0 [ms]	10.0 [ms]	

7-1 Ȣ

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2	˜	˜
3	˜	˜
4	Ȣ	Ȣ
5	˜	˜
6	˜	˜
7		
8	1 (%)	1 (№ Ȣ)
9	Ȣ w	Ȣ w
10	Ȣ 1	Ȣ 1
11	ĩ (%)	ĩ (150 № Ȣ)
12	DP	Profibus
13	ă	Ÿ ă P6.7 P6.21 Ÿ Ȣ
14		β Đ Ÿ Ȣ

7.7 Ģ ă P7

w				Ÿ	
P7.0	L Ÿ [1]	1 L Ÿ	0.0 300.0 [%]	180.0 [%]	8.6
P7.1	L Ÿ [2]	2 L Ÿ	0.0 300.0 [%]	180.0 [%]	8.6
P7.2	L Ÿ [3]	3 L Ÿ	0.0 300.0 [%]	180.0 [%]	8.6
P7.3	L Ÿ [4]	4 L Ÿ	0.0 300.0 [%]	180.0 [%]	8.6
P7.4	Ģ [1]	1 Ģ Ÿ	0.0 300.0 [%]	235.0 [%]	8.6
P7.5	Ģ [2]	2 Ģ Ÿ	0.0 300.0 [%]	235.0 [%]	8.6
P7.6	Ģ [3]	3 Ģ Ÿ	0.0 300.0 [%]	235.0 [%]	8.6
P7.7	Ģ [4]	4 Ģ Ÿ	0.0 300.0 [%]	235.0 [%]	8.6

					í	ã	
P7.8	[1]	1		0.0 100.0	20.0		8.6
				[%]	[%]		
P7.9	[2]	2		0.0 100.0	20.0		8.6
				[%]	[%]		
P7.10	[3]	3		0.0 100.0	20.0		8.6
				[%]	[%]		
P7.11	[4]	4					

P7.32				$\tilde{G}$	0.00 5.00 [s]		
P7.33					0.0 1000.0 [s]	360.0 [s]	
P7.47				$\tilde{H}$ $\vee$	0.0 300.0 [%]	100.0 [%]	8.6
P7.48	1			1 $\vee$	0.0 300.0 [%]	150.0 [%]	8.6
P7.49	1			$\tilde{H}$ 1	0.00 60.00 [s]	60.00 [s]	8.6
P7.50	2			2 $\vee$	0.0 300.0 [%]	200.0 [%]	8.6
P7.51	2			$\tilde{H}$ 2	0.00 5.00 [s]	5.00 [s]	8.6
P7.55	~	$\tilde{G}$	a	[0] [1] a	J_0 0 1	0	
P7.56	~				0.0 200.0 [%]	120.0 [%]	
P7.57	~	u			0.0 12.0 [s]	5 [s]	
P7.59	$\mathcal{F}$	$\tilde{G}$	a	[0] [1] a	0 1	1	
P7.60	$\mathcal{F}$	u			0.10 3.00 [s]	0.30 [s]	
P7.64	L^-			[0] [1] a	0 1	0	8.6
P7.65	L^-	$\cdot$	Z	$\cdot$ L^- $\cdot$ $\cdot$ Z $\vee$	-25 100 [V]	0 [V]	8.6
P7.66	L^-	b	Z	$\vee$ L^- $\tilde{G}$ $\cdot$ Z	-25 100 [V]	0 [V]	8.6
P7.69	$\cdot$	L	a	[0] [1] a	0 1	0	8.6
P7.70	$\cdot$	L	Z	$\vee$			

P7.77	1 v		0.0 200.0 [%]	15.0 [%]	
P7.94	ñ	[0] L [1] 1 L	0 1	1	
P7.95	τ _H	AFE L τ _H	0.0 3000.0 [s]	15.0 [s]	
P7.96	τ	τ	0.00 300.00 [s]	0.00 [s]	

7.8 1 Å L P8

w				v	
P8.0	ñ	[0] ~ [1] ñ [2] DP [3] MODBUS [4] w	0 4	0	
P8.1	ñ	ñ w			
P8.2		w			
P8.3	Å	[0] Å [1] Å	0 1	0	8.7
P8.6			0.00 300.00 [s]	0.00 [s]	8.7
P8.7	Ĝ	Å Ĝ	0.00 300.00 [s]	0.00 [s]	8.7
P8.10		[0] I/O [1] ~ 1 [2] ~ 2 [3] ñ [4] DP [5] MODBUS [6] w	0 6	0	
P8.11		w			
P8.13	v L	[0] [1] PROFIBUS [2] MODBUS [3]	0 3	0	8.7

				í	ã		
P8.34	∴	¶ 1	∴	0.0	300.0	100.0	8.7
				[%]		[%]	
P8.35	∴	1	∴ P8.34 ∴	0.0	300.0	3.00	8.7
				[s]		[s]	
P8.36	∴	¶ 2	∴	0.0	300.0	200.0	8.7
				[%]		[%]	
P8.37	∴	2	∴ P8.34 ∴ P8.36 ∴	0.0	300.0	4.00	8.7
				[s]		[s]	
P8.38	∴	¶ 3	∴	0.0	300.0	240.0	8.7
				[%]		[%]	
P8.39	∴	3	∴ P8.36 ∴ P8.38 ∴	0.0	300.0	7.00	8.7
				[s]		[s]	
P8.40	∴	¶ 4	∴	0.0	300.0	300.0	8.7
				[%]		[%]	
P8.41	∴	4	∴ P8.38 ∴ P8.40 ∴	0.0	300.0	10.00	8.7
				[s]		[s]	
P8.42	∴	¶ 5	∴	0.0	300.0	300.0	8.7
				[%]		[%]	
P8.43	∴	5	∴ P8.40 ∴ P8.42 ∴	0.0	300.0	10.00	8.7
				[s]		[s]	
P8.44	∴	¶ 6	∴	0.0	300.0	300.0	8.7
				[%]		[%]	
P8.45	∴	6	∴ P8.42 ∴ P8.44 ∴	0.0	300.0	10.00	8.7
				[s]		[s]	
P8.46	∴	¶ 7	∴	0.0	300.0	300.0	8.7
				[%]		[%]	
P8.47	∴	7	∴ P8.44 ∴ P8.46 ∴	0.0	300.0	10.00	8.7
				[s]		[s]	
P8.48	∴	¶ 8	∴	0.0	300.0	300.0	8.7
				[%]		[%]	

P8.57	Å	[0] Å [1] Å	0 1	1	
P8.58	Å :		0.00 300.00 [s]	1.50 [s]	

7.9 2 Å L P9

w				v	
P9.0	-	[0] ~ [1] b [2] DP [3] MODBUS [4] w	0 4	0	
P9.1	-	- w			
P9.2		w			
P9.3	Å	[0] Å [1] Å	0 1	0	8.7
P9.6			0.00 300.00 [s]	0.00 [s]	8.7
P9.7	Ĝ	Å Ĝ	0.00 300.00 [s]	0.00 [s]	8.7
P9.10		[0] I/O [1] ~ 1 [2] ~ 2 [3] b [4] DP [5] MODBUS [6] w	0 6	0	
P9.11		w			
P9.13	v L	[0] [1] PROFIBUS [2] MODBUS [3]	0 3	0	8.7
P9.14	v Õ		0.1 10.0	1.0	8.7
P9.15	v v 1	v	0.0 300.0 [%]	100.0 [%]	8.7

P9.16	✓ 1	¿ Å P9.15 ✓ ✓	0.0 300.0 [s]	3.00 [s]	8.7
P9.17	✓ ¶ 2	ℋ ✓	0.0 300.0 [%]	200.0 [%]	8.7
P9.18	✓ 2	¿ P9.15 ✓ P9.17 ✓ ✓	0.0 300.0 [s]	4.00 [s]	8.7
P9.19	✓ ¶ 3	✓	0.0 300.0 [%]	240.0 [%]	8.7
P9.20	✓ 3	¿ P9.17 ✓ P9.19 ✓ ✓	0.0 300.0 [s]	7.00 [s]	8.7
P9.21	✓ ¶ 4	✓	0.0 300.0 [%]	300.0 [%]	8.7
P9.22	✓ 4	¿ P9.19 ✓ P9.21 ✓ ✓	0.0 300.0 [s]	10.00 [s]	8.7
P9.23	✓ ¶ 5	ℓ ✓	0.0 300.0 [%]	300.0 [%]	8.7
P9.24	✓ 5	¿ P9.21 ✓ P9.23 ✓ ✓	0.0 300.0 [s]	10.00 [s]	8.7
P9.25	✓ ¶ 6	ℰ ✓	0.0 300.0 [%]	300.0 [%]	8.7
P9.26	✓ 6	¿ P9.23 ✓ P9.25 ✓ ✓	0.0 300.0 [s]	10.00 [s]	8.7
P9.27	✓ ¶ 7	✓	0.0 300.0 [%]	300.0 [%]	8.7
P9.28	✓ 7	¿ P9.25 ✓ P9.27 ✓ ✓	0.0 300.0 [s]	10.00 [s]	8.7
P9.29	✓ ¶ 8	℥ ✓	0.0 300.0 [%]	300.0 [%]	8.7
P9.30	✓ 8	¿ P9.27 ✓ P9.29 ✓ ✓	0.0 300.0 [s]	10.00 [s]	8.7
P9.32	⋮ L	[0] [1]PROFIBUS [2]MODBUS [3]	0 3	0	8.7
P9.33	⋮ Ò		0.1 10.0	1.0	8.7
P9.34	⋮ ¶ 1	⋮	0.0 300.0 [%]	100.0 [%]	8.7

P9.35	1	ç P9.34 v Å	0.0 300.0 [s]	3.00 [s]	8.7
P9.36	2	ç P9.34 v Å	0.0 300.0 [%]	200.0 [%]	8.7
P9.37	2	ç P9.34 v P9.36 v	0.0 300.0 [s]	4.00 [s]	8.7
P9.38	3	ç P9.36 v P9.38 v	0.0 300.0 [%]	240.0 [%]	8.7
P9.39	3	ç P9.36 v P9.38 v	0.0 300.0 [s]	7.00 [s]	8.7
P9.40	4	ç P9.38 v P9.40 v	0.0 300.0 [%]	300.0 [%]	8.7
P9.41	4	ç P9.38 v P9.40 v	0.0 300.0 [s]	10.00 [s]	8.7
P9.42	5	ç P9.40 v P9.42 v	0.0 300.0 [%]	300.0 [%]	8.7
P9.43	5	ç P9.40 v P9.42 v	0.0 300.0 [s]	10.00 [s]	8.7
P9.44	6	ç P9.42 v P9.44 v	0.0 300.0 [%]	300.0 [%]	8.7
P9.45	6	ç P9.42 v P9.44 v	0.0 300.0 [s]	10.00 [s]	8.7
P9.46	7	ç P9.44 v P9.46 v	0.0 300.0 [%]	300.0 [%]	8.7
P9.47	7	ç P9.44 v P9.46 v	0.0 300.0 [s]	10.00 [s]	8.7
P9.48	8	ç P9.46 v P9.48 v	0.0 300.0 [%]	300.0 [%]	8.7
P9.49	8	ç P9.46 v P9.48 v	0.0 300.0 [s]	10.00 [s]	8.7
P9.54			0.0 300.0 [%]	0.0 [%]	
P9.55	í : a	[0] [1] a	0 1	0	
P9.56	í :		0.00 300.00 [s]	3.00 [s]	
P9.57	Å	[0] Å [1] Å	0 1	1	

P9.58	Ä :		0.00 300.00 [s]	1.50 [s]	
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7.10 3 Ä L P10

w				v	
P10.0	-	[0] ~ [1] b [2] DP [3] MODBUS [4] w	0 4	0	
P10.1	-	- w			
P10.2		w			
P10.3	Ä	[0] Ä [1] Ä	0 1	0	8.7
P10.6			0.00 300.00 [s]	0.00 [s]	8.7
P10.7	Ğ	Ä Ğ	0.00 300.00 [s]	0.00 [s]	8.7
P10.10		[0] I/O [1] ~ 1 [2] ~ 2 [3] b [4] DP [5] MODBUS [6] w	0 6	0	
P10.11		w			
P10.13	v L	[0] [1] PROFIBUS [2] MODBUS [3]	0 3	0	8.7
P10.14	v Ö		0.1 10.0	1.0	8.7
P10.15	v M 1	v	0.0 300.0 [%]	100.0 [%]	8.7
P10.16	v 1	Ä [P10.15 v v	0.0 300.0 [s]	3.00 [s]	8.7

Í	ă								
P10.17	✓	✓ 2		✓		0.0	300.0	200.0	8.7
						[%]		[%]	
P10.18	✓	2	└ P10.15	✓	└ P10.17	✓	0.0	300.0	4.00
			✓				[s]	[s]	8.7
P10.19	✓	✓ 3		✓		0.0	300.0	240.0	8.7
						[%]		[%]	
P10.20	✓	3	└ P10.17	✓	└ P10.19	✓	0.0	300.0	7.00
			✓				[s]	[s]	8.7
P10.21	✓	✓ 4		✓		0.0	300.0	300.0	8.7
						[%]		[%]	
P10.22	✓	4	└ P10.19	✓	└ P10.21	✓	0.0	300.0	10.00
			✓				[s]	[s]	8.7
P10.23	✓	✓ 5		✓		0.0	300.0	300.0	8.7
						[%]		[%]	
P10.24	✓	5	└ P10.21	✓	└ P10.23	✓	0.0	300.0	10.00
			✓				[s]	[s]	8.7
P10.25	✓	✓ 6		✓		0.0	300.0	300.0	8.7
						[%]		[%]	
P10.26	✓	6	└ P10.23	✓	└ P10.25	✓	0.0	300.0	10.00
			✓				[s]	[s]	8.7
P10.27	✓	✓ 7		✓		0.0	300.0	300.0	8.7
						[%]		[%]	
P10.28	✓	7	└ P10.25	✓	└ P10.27	✓	0.0	300.0	10.00
			✓				[s]	[s]	8.7
P10.29	✓	✓ 8		✓		0.0	300.0	300.0	8.7
						[%]		[%]	
P10.30	✓	8	└ P10.27	✓	└ P10.29	✓	0.0	300.0	10.00
			✓				[s]	[s]	8.7
P10.32	⋮	L	[0]				0	3	0
			[1]PROFIBUS						8.7
			[2]MODBUS						
			[3]						
P10.33	⋮	Ö				0.1	10.0	1.0	8.7
P10.34	⋮	✓ 1		⋮		0.0	300.0	100.0	8.7
						[%]		[%]	
P10.35	⋮	1	└ P10.34	✓	└ Å	⋮	0.0	300.0	3.00
							[s]	[s]	8.7

P10.36	∩ 2	ℋ ∩	0.0 300.0 [%]	200.0 [%]	8.7
P10.37	2	⌊ P10.34 ∩ ⌊ P10.36 ∩ ∩	0.0 300.0 [s]	4.00 [s]	8.7
P10.38	∩ 3	∩	0.0 300.0 [%]	240.0 [%]	8.7
P10.39	3	⌊ P10.36 ∩ ⌊ P10.38 ∩ ∩	0.0 300.0 [s]	7.00 [s]	8.7
P10.40	∩ 4	∩	0.0 300.0 [%]	300.0 [%]	8.7
P10.41	4	⌊ P10.38 ∩ ⌊ P10.40 ∩ ∩	0.0 300.0 [s]	10.00 [s]	8.7
P10.42	∩ 5	ℓ ∩	0.0 300.0 [%]	300.0 [%]	8.7
P10.43	5	⌊ P10.40 ∩ ⌊ P10.42 ∩ ∩	0.0 300.0 [s]	10.00 [s]	8.7
P10.44	∩ 6	ℓ ∩	0.0 300.0 [%]	300.0 [%]	8.7
P10.45	6	⌊ P10.42 ∩ ⌊ P10.44 ∩ ∩	0.0 300.0 [s]	10.00 [s]	8.7
P10.46	∩ 7	∩	0.0 300.0 [%]	300.0 [%]	8.7
P10.47	7	⌊ P10.44 ∩ ⌊ P10.46 ∩ ∩	0.0 300.0 [s]	10.00 [s]	8.7
P10.48	∩ 8	ℓ ∩	0.0 300.0 [%]	300.0 [%]	8.7
P10.49	8	⌊ P10.46 ∩ ⌊ P10.48 ∩ ∩	0.0 300.0 [s]	10.00 [s]	8.7
P10.54			0.0 300.0 [%]	0.0 [%]	
P10.55	í ∩ a	[0] [1] a	0 1	0	
P10.56	í ∩		0.00 300.00 [s]	3.00 [s]	
P10.57	Å	[0] Å [1] Å	0 1	1	
P10.58	Å ∩		0.00 300.00 [s]	1.50 [s]	

7.11 4 Å L P11

w				v	
P11.0	-	[0] ~ [1] b [2] DP [3] MODBUS [4] w	0 4	0	
P11.1	-	w			
P11.2		w			
P11.3	Å	[0] Å [1] Å	0 1	0	8.7
P11.6			0.00 300.00 [s]	0.00 [s]	8.7
P11.7	Ĝ	Å Ĝ	0.00 300.00 [s]	0.00 [s]	8.7
P11.10		[0] I/O [1] ~ 1 [2] ~ 2 [3] b [4] DP [5] MODBUS [6] w	0 6	0	
P11.11		w			
P11.13	v L	[0] [1] PROFIBUS [2] MODBUS [3]	0 3	0	8.7
P11.14	v Õ		0.1 10.0	1.0	8.7
P11.15	v M 1	v	0.0 300.0 [%]	100.0 [%]	8.7
P11.16	v 1	ç Å [P11.15 v v	0.0 300.0 [s]	3.00 [s]	8.7
P11.17	v M 2	H v	0.0 300.0 [%]	200.0 [%]	8.7

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№	№	№	№	№	№	№	№	№
P11.37	2	№ P11.34	№ P11.36	№	0.0	300.0	4.00	8.7
					[s]		[s]	
P11.38	3				0.0	300.0	240.0	8.7
					[%]		[%]	
P11.39	3	№ P11.36	№ P11.38	№	0.0	300.0	7.00	8.7
					[s]		[s]	
P11.40	4				0.0	300.0	300.0	8.7
					[%]		[%]	
P11.41	4	№ P11.38	№ P11.40	№	0.0	300.0	10.00	8.7
					[s]		[s]	
P11.42	5	№			0.0	300.0	300.0	8.7
					[%]		[%]	

85

p

7.12 1 L- P12

w				v	
P12.0		[0] ~ [1] H L	0 1	1	8.8
P12.1	v ß	[0] [%] [1] [Hz] [2] [rpm]	0 2	1	
P12.2	1		0.0 3000.0	10.0	
P12.3	2		0.0 3000.0	20.0	
P12.4	3		0.0 3000.0	35.0	
P12.5	4		0.0 3000.0	50.0	
P12.6	5		0.0 3000.0	50.0	
P12.7	6		0.0 3000.0	50.0	
P12.8	7		0.0 3000.0	50.0	
P12.9	8		0.0 3000.0	50.0	
P12.10	9		0.0 3000.0	50.0	
P12.11	10		0.0 3000.0	50.0	
P12.12	11		0.0 3000.0	50.0	
P12.13	12		0.0 3000.0	50.0	
P12.14	13		0.0 3000.0	50.0	
P12.15	14		0.0 3000.0	50.0	
P12.16	15		0.0 3000.0	50.0	
P12.17	16		0.0 3000.0	50.0	
P12.22	v	v	0.0 20.0 [%]	2.0 [%]	8.8
P12.23	v ß v	v ß v	0.0 20.0 [%]	0.0 [%]	8.8
P12.24			0.0 200.0 [%]	30.0 [%]	8.8
P12.25	v	v	0.0 200.0 [%]	20.0 [%]	8.8
P12.26			0.00 2.00 [s]	0.00 [s]	8.8

P12.27	í	í	0.00 2.00 [s]	0.00 [s]	8.8
P12.28	L		0.00 2.00 [s]	0.07 [s]	8.8
P12.29	í L	í	0.00 2.00 [s]	0.07 [s]	8.8
P12.32			0.0 20.0 [%]	0.0 [%]	8.8
P12.33	í	í	0.0 20.0 [%]	0.0 [%]	8.8
P12.34			0.00 2.00 [s]	0.00 [s]	8.8
P12.35	í	í	0.00 2.00 [s]	0.00 [s]	8.8
P12.36			0.00 2.00 [s]	0.50 [s]	8.8
P12.37	í	í	0.00 2.00 [s]	0.50 [s]	8.8

7.13 2 L- P13

w				v	
P13.0		[0] ~ [1] H L	0 1	1	8.8
P13.1	γ β	[0] [%] [1] [Hz] [2] [rpm]	0 2	1	
P13.2	1		0.0 3000.0	10.0	
P13.3	2		0.0 3000.0	20.0	
P13.4	3		0.0 3000.0	35.0	
P13.5	4		0.0 3000.0	50.0	
P13.6	5		0.0 3000.0	50.0	
P13.7	6		0.0 3000.0	50.0	
P13.8	7		0.0 3000.0	50.0	
P13.9	8		0.0 3000.0	50.0	
P13.10	9		0.0 3000.0	50.0	

7.14 3 L- P14

w				v	
P14.0		[0] ~ [1] H L	0 1	1	8.8
P14.1	γ β	[0] [%] [1] [Hz] [2] [rpm]	0 2	1	
P14.2	1		0.0 3000.0	10.0	
P14.3	2		0.0 3000.0	20.0	
P14.4	3		0.0 3000.0	35.0	
P14.5	4		0.0 3000.0	50.0	
P14.6	5		0.0 3000.0	50.0	
P14.7	6		0.0 3000.0	50.0	
P14.8	7		0.0 3000.0	50.0	
P14.9	8		0.0 3000.0	50.0	
P14.10	9		0.0 3000.0	50.0	
P14.11	10		0.0 3000.0	50.0	
P14.12	11		0.0 3000.0	50.0	
P14.13	12		0.0 3000.0	50.0	
P14.14	13		0.0 3000.0	50.0	
P14.15	14		0.0 3000.0	50.0	
P14.16	15		0.0 3000.0	50.0	
P14.17	16		0.0 3000.0	50.0	
P14.22	v	v	0.0 20.0 [%]	2.0 [%]	8.8
P14.23	ü v	ü v	0.0 20.0 [%]	0.0 [%]	8.8
P14.24			0.0 200.0 [%]	30.0 [%]	8.8
P14.25	ü	ü	0.0 200.0 [%]	20.0 [%]	8.8
P14.26			0.00 2.00 [s]	0.00 [s]	8.8

P14.27	í	í	0.00 2.00 [s]	0.00 [s]	8.8
P14.28	L		0.00 2.00 [s]	0.07 [s]	8.8
P14.29	í L	í	0.00 2.00 [s]	0.07 [s]	8.8
P14.32			0.0 20.0 [%]	0.0 [%]	8.8
P14.33	í	í	0.0 20.0 [%]	0.0 [%]	8.8
P14.34			0.00 2.00 [s]	0.00 [s]	8.8
P14.35	í	í	0.00 2.00 [s]	0.00 [s]	8.8
P14.36			0.00 2.00 [s]	0.50 [s]	8.8
P14.37	í	í	0.00 2.00 [s]	0.50 [s]	8.8

7.15 4 L- P15

w				v	
P15.0		[0] ~ [1] H L	0 1	1	8.8
P15.1	v β	[0] [%] [1] [Hz] [2] [rpm]	0 2	1	
P15.2	1		0.0 3000.0	10.0	
P15.3	2		0.0 3000.0	20.0	
P15.4	3		0.0 3000.0	35.0	
P15.5	4		0.0 3000.0	50.0	
P15.6	5		0.0 3000.0	50.0	
P15.7	6		0.0 3000.0	50.0	
P15.8	7		0.0 3000.0	50.0	
P15.9	8		0.0 3000.0	50.0	
P15.10	9		0.0 3000.0	50.0	

P15.11	10		0.0 3000.0	50.0	
P15.12	11		0.0 3000.0	50.0	
P15.13	12		0.0 3000.0	50.0	
P15.14	13		0.0 3000.0	50.0	
P15.15	14		0.0 3000.0	50.0	
P15.16	15		0.0 3000.0	50.0	
P15.17	16		0.0 3000.0	50.0	
P15.22	✓	✓	0.0 20.0 [%]	2.0 [%]	8.8
P15.23	✓ ✓	✓ ✓	0.0 20.0 [%]	0.0 [%]	8.8
P15.24			0.0 200.0 [%]	30.0 [%]	8.8
P15.25	✓	✓	0.0 200.0 [%]	20.0 [%]	8.8
P15.26			0.00 2.00 [s]	0.00 [s]	8.8
P15.27	✓	✓	0.00 2.00 [s]	0.00 [s]	8.8
P15.28	L		0.00 2.00 [s]	0.07 [s]	8.8
P15.29	✓ L	✓	0.00 2.00 [s]	0.07 [s]	8.8
P15.32			0.0 20.0 [%]	0.0 [%]	8.8
P15.33	✓	✓	0.0 20.0 [%]	0.0 [%]	8.8
P15.34			0.00 2.00 [s]	0.00 [s]	8.8
P15.35	✓	✓	0.00 2.00 [s]	0.00 [s]	8.8
P15.36			0.00 2.00 [s]	0.50 [s]	8.8
P15.37	✓	✓	0.00 2.00 [s]	0.50 [s]	8.8

7.16 1 ħ V/F P16

w				v	
P16.0	~ 1	~ 1	560 760 [V]	690 [V]	
P16.2	w	ħ	0.0 3000.0 [kW]	[kW]	
P16.3	1	ħ	0 700 [V]	690 [V]	
P16.4		ħ	0.0 3000.0 [A]	[A]	
P16.5		ħ	0.0 300.0 [Hz]	50.0 [Hz]	
P16.6		ħ	0 6000 [rpm]	1465 [rpm]	
P16.7		ħ	2 12 [pole]	4 [pole]	8.9
P16.9		ħ	0 7200 [rpm]	1500 [rpm]	8.9
P16.11	L	[0] V/F L [1] [2] [3] [4]	0 4	0	
P16.12			1.00 10.00 [kHz]	3.00 [kHz]	8.9
P16.14	V/F	[0] V/F [1] V/F [2] ħ	0 3	0	8.9
P16.15	ẽ	[0] [1] a	0 1	0	8.9
P16.16	ẽ	ẽ	2 500 [ms]	500 [ms]	
P16.17	V/F L	[0] L [1] L	0 1	0	
P16.18	ẽ	ẽ	10 1000 [ms]	200 [ms]	
P16.19		[0] [1]	0 1	0	

P16.22	˘	˘	0.00 100.00 [s]	0.00 [s]	8.9
P16.23		V/F L ă 7	0.00 300.00 [Hz]	0.00 [Hz]	
P16.24		V/F L ă 7	0.00 300.00 [Hz]	50.00 [Hz]	
P16.25	L	L	0.0 120.0 [%]	100.0 [%]	
P16.26	V/F ˘ 1 Z	V/F ˘ 1 Z	0.00 10.00 [%]	0.75 [%]	8.9
P16.27	Œ 1	Œ 1	0.0 200.0 [%]	100.0 [%]	8.9
P16.30	Ĥ ˘ 1 ě	Ĥ ˘ 1 ě	0.0 100.0 [%]	0.0 [%]	8.9
P16.33	V/F	V/F	0 6	2	8.9
P16.34	V/F 1		0.0 300.0 [Hz]	5.0 [Hz]	
P16.35	V/F 1 1		0.0 125.0 [%]	11.5 [%]	
P16.36	V/F 2		0.0 300.0 [Hz]	50.0 [Hz]	
P16.37	V/F 1 2		0.0 125.0 [%]	100.0 [%]	
P16.38	V/F 3		0.0 300.0 [Hz]	50.0 [Hz]	
P16.39	V/F 1 3		0.0 125.0 [%]	100.0 [%]	
P16.40	V/F 4		0.0 300.0 [Hz]	50.0 [Hz]	
P16.41	V/F 1 4		0.0 125.0 [%]	100.0 [%]	
P16.42	V/F 5		0.0 300.0 [Hz]	50.0 [Hz]	
P16.43	V/F 1 5		0.0 125.0 [%]	100.0 [%]	
P16.44	V/F 6		0.0 300.0 [Hz]	50.0 [Hz]	
P16.45	V/F 1 6		0.0 125.0 [%]	100.0 [%]	
P16.46	V/F @		0 300	0	
P16.47	1 @		0 300	0	

P16.48		[0] [1]PID 1 [2]PID 2 [3] w	0 3	0	
P16.49	@		0 300	0	
P16.50	- L	- L	0.00 300.00 [s]	0.00 [s]	8.9
P16.51	- L	- L	0.0 150.0 [%]	70.0 [%]	8.9
P16.52	- L	- L	0.00 5.00 [Hz]	0.00 [Hz]	8.9
P16.54	Å L	Å L	0.00 300.00 [s]	0.00 [s]	8.9
P16.55	Å L	Å L	0.0 150.0 [%]	75.0 [%]	8.9
P16.56	Å L	Å L	0.00 5.00 [Hz]	0.00 [Hz]	8.9
P16.59	Ĝ ¢	Ĝ ¢	0.0 1000.0 [%]	100.0 [%]	
P16.60	Ĝ №	Ĝ №	0.0 1000.0 [%]	100.0 [%]	
P16.61	ı L ¢	ı L ¢	0.0 1000.0 [%]	100.0 [%]	
P16.62	ı L №	ı L №	0.0 1000.0 [%]	100.0 [%]	
P16.64	V/F Ъ	V/F Ъ	0.0 1000.0 [%]	100.0 [%]	8.9
P16.66	L ¢	V/F L ¢	0.0 1000.0 [%]	100.0 [%]	
P16.67	- L ¢	- L ¢	0.0 1000.0 [%]	100.0 [%]	
P16.68	- L №	- L №	0.0 1000.0 [%]	100.0 [%]	
P16.69	Å L ¢	Å L ¢	0.0 1000.0 [%]	100.0 [%]	
P16.70	Å L №	Å L №	0.0 1000.0 [%]	100.0 [%]	

7.17 2 ã V/F P17

w				v	
P17.0	~ 1	~ 1	560 760 [V]	690 [V]	
P17.2	w	ã	0.0 3000.0 [kW]	[kW]	
P17.3	1	ã	0 700 [V]	690 [V]	
P17.4		ã	0.0 3000.0 [A]	[A]	
P17.5		ã	0.0 300.0 [Hz]	50.0 [Hz]	
P17.6		ã	0 6000 [rpm]	1465 [rpm]	
P17.7		ã	2 12 [pole]	4 [pole]	8.9
P17.9		ã	0 7200 [rpm]	1500 [rpm]	8.9
		[0] V/F L			
		[1]			
P17.11	L	[2]	0 4	0	
		[3]			
		[4]	Δθ	Τθ	
P17.12			1.00 10.00 [kHz]	3.00 [kHz]	8.9
		[0] V/F			
P17.14	V/F	[1] V/F	0 3	0	8.9
		[2] Η			
		[0]			
P17.15	ẽ	[1] α	0 1	0	8.9
P17.16	ẽ				

P17.22	·	·	0.00 100.00 [s]	0.00 [s]	8.9
P17.23		V/F L ã 7	0.00 300.00 [Hz]	0.00 [Hz]	
P17.24		V/F L ã 7	0.00 300.00 [Hz]	50.00 [Hz]	
P17.25	L	L	0.0 120.0 [%]	100.0 [%]	
P17.26	V/F · 1 Z	V/F · 1 Z	0.00 10.00 [%]	0.75 [%]	8.9
P17.27	¶ 1	¶ 1	0.0 200.0 [%]	100.0 [%]	8.9
P17.30	h · 1 ẽ	h · 1 ẽ	0.0 100.0 [%]	0.0 [%]	8.9
P17.33	V/F	V/F	0 6	2	8.9
P17.34	V/F 1		0.0 300.0 [Hz]	5.0 [Hz]	
P17.35	V/F 1 1		0.0 125.0 [%]	11.5 [%]	
P17.36	V/F 2		0.0 300.0 [Hz]	50.0 [Hz]	
P17.37	V/F 1 2		0.0 125.0 [%]	100.0 [%]	
P17.38	V/F 3		0.0 300.0 [Hz]	50.0 [Hz]	
P17.39	V/F 1 3		0.0 125.0 [%]	100.0 [%]	
P17.40	V/F 4		0.0 300.0 [Hz]	50.0 [Hz]	
P17.41	V/F 1 4		0.0 125.0 [%]	100.0 [%]	
P17.42	V/F 5		0.0 300.0 [Hz]	50.0 [Hz]	
P17.43	V/F 1 5		0.0 125.0 [%]	100.0 [%]	
P17.44	V/F 6		0.0 300.0 [Hz]	50.0 [Hz]	
P17.45	V/F 1 6		0.0 125.0 [%]	100.0 [%]	
P17.46	V/F @		0 300	0	
P17.47	1 @		0 300	0	

P17.48		[0] [1]PID 1 [2]PID 2 [3] w	0 3	0	
P17.49	@		0 300	0	
P17.50	- L	- L	0.00 300.00 [s]	0.00 [s]	8.9
P17.51	- L	- L	0.0 150.0 [%]	70.0 [%]	8.9
P17.52	- L	- L	0.00 5.00 [Hz]	0.00 [Hz]	8.9
P17.54	Å L	Å L	0.00 300.00 [s]	0.00 [s]	8.9
P17.55	Å L	Å L	0.0 150.0 [%]	75.0 [%]	8.9
P17.56	Å L	Å L	0.00 5.00 [Hz]	0.00 [Hz]	8.9
P17.59	Ĝ ¢	Ĝ ¢	0.0 1000.0 [%]	100.0 [%]	
P17.60	Ĝ №	Ĝ №	0.0 1000.0 [%]	100.0 [%]	
P17.61	ı L ¢	ı L ¢	0.0 1000.0 [%]	100.0 [%]	
P17.62	ı L №	ı L №	0.0 1000.0 [%]	100.0 [%]	
P17.64	V/F Ъ	V/F Ъ	0.0 1000.0 [%]	100.0 [%]	8.9
P17.66	L ¢	V/F L ¢	0.0 1000.0 [%]	100.0 [%]	
P17.67	- L ¢	- L ¢	0.0 1000.0 [%]	100.0 [%]	
P17.68	- L №	- L №	0.0 1000.0 [%]	100.0 [%]	
P17.69	Å L ¢	Å L ¢	0.0 1000.0 [%]	100.0 [%]	
P17.70	Å L №	Å L №	0.0 1000.0 [%]	100.0 [%]	

7.18 3 ã V/F P18

w				v	
P18.0	~ 1	~ 1	560 760 [V]	690 [V]	
P18.2	w	ã	0.0 3000.0 [kW]	[kW]	
P18.3	1	ã	0 700 [V]	690 [V]	
P18.4		ã	0.0 3000.0 [A]	[A]	
P18.5		ã	0.0 300.0 [Hz]	50.0 [Hz]	
P18.6		ã	0 6000 [rpm]	1465 [rpm]	
P18.7		ã	2 12 [pole]	4 [pole]	8.9
P18.9		ã	0 7200 [rpm]	1500 [rpm]	8.9
P18.11	L	[0] V/F L [1] [2] [3] [4]	0 4	0	
P18.12			1.00 10.00 [kHz]	3.00 [kHz]	8.9
P18.14	V/F	[0] V/F [1] V/F [2] H	0 3	0	8.9
P18.15	ẽ	[0] [1] a	0 1	0	8.9
P18.16	ẽ	ẽ	2 500 [ms]	500 [ms]	
P18.17	V/F L	[0] L [1] L	0 1	0	
P18.18	ẽ	ẽ	10 1000 [ms]	200 [ms]	
P18.19		[0] [1]	0 1	0	

P18.22					0.00	100.00	0.00	8.9
					[s]	[s]		
P18.23	V/F	L			0.00	300.00	0.00	
					[Hz]	[Hz]		
P18.24	V/F	L			0.00	300.00	50.00	
					[Hz]	[Hz]		
P18.25	L		L		0.0	120.0	100.0	
					[%]	[%]		
P18.26	V/F	1 Z	V/F	1 Z	0.00	10.00	0.75	8.9
					[%]	[%]		
P18.27		1		1	0.0	200.0	100.0	8.9
					[%]	[%]		
P18.30	H	1	H	1	0.0	100.0	0.0	8.9
	ẽ		ẽ		[%]	[%]		
P18.33	V/F		V/F		0	6	2	8.9
P18.34	V/F	1			0.0	300.0	5.0	
					[Hz]	[Hz]		
P18.35	V/F	1	1		0.0	125.0	11.5	
					[%]	[%]		
P18.36	V/F	2			0.0	300.0	50.0	
					[Hz]	[Hz]		
P18.37	V/F	1	2		0.0	125.0	100.0	
					[%]	[%]		
P18.38	V/F	3			0.0	300.0	50.0	
					[Hz]	[Hz]		
P18.39	V/F	1	3		0.0	125.0	100.0	
					[%]	[%]		
P18.40	V/F	4			0.0	300.0	50.0	
					[Hz]	[Hz]		
P18.41	V/F	1	4		0.0	125.0	100.0	
					[%]	[%]		
P18.42	V/F	5			0.0	300.0	50.0	
					[Hz]	[Hz]		
P18.43	V/F	1	5		0.0	125.0	100.0	
					[%]	[%]		
P18.44	V/F	6			0.0	300.0	50.0	
					[Hz]	[Hz]		
P18.45	V/F	1	6		0.0	-		

P18.48		[0] [1]PID 1 [2]PID 2 [3] w	0 3	0	
P18.49	@		0 300	0	
P18.50	- L	- L	0.00 300.00 [s]	0.00 [s]	8.9
P18.51	- L	- L	0.0 150.0 [%]	70.0 [%]	8.9
P18.52	- L	- L	0.00 5.00 [Hz]	0.00 [Hz]	8.9
P18.54	Å L	Å L	0.00 300.00 [s]	0.00 [s]	8.9
P18.55	Å L	Å L	0.0 150.0 [%]	75.0 [%]	8.9
P18.56	Å L	Å L	0.00 5.00 [Hz]	0.00 [Hz]	8.9
P18.59	Ĝ ¢	Ĝ ¢	0.0 1000.0 [%]	100.0 [%]	
P18.60	Ĝ №	Ĝ №	0.0 1000.0 [%]	100.0 [%]	
P18.61	ı L ¢	ı L ¢	0.0 1000.0 [%]	100.0 [%]	
P18.62	ı L №	ı L №	0.0 1000.0 [%]	100.0 [%]	
P18.64	V/F Ъ	V/F Ъ	0.0 1000.0 [%]	100.0 [%]	8.9
P18.66	L ¢	V/F L ¢	0.0 1000.0 [%]	100.0 [%]	
P18.67	- L ¢	- L ¢	0.0 1000.0 [%]	100.0 [%]	
P18.68	- L №	- L №	0.0 1000.0 [%]	100.0 [%]	
P18.69	Å L ¢	Å L ¢	0.0 1000.0 [%]	100.0 [%]	
P18.70	Å L №	Å L №	0.0 1000.0 [%]	100.0 [%]	

7.19 4 ă V/F P19

w				v	
P19.0	~ 1	~ 1	560 760 [V]	690 [V]	
P19.2	w	ă	0.0 3000.0 [kW]	[kW]	
P19.3	1	ă	0 700 [V]	690 [V]	
P19.4		ă	0.0 3000.0 [A]	[A]	
P19.5		ă	0.0 300.0 [Hz]	50.0 [Hz]	
P19.6		ă	0 6000 [rpm]	1465 [rpm]	
P19.7		ă	2 12 [pole]	4 [pole]	8.9
P19.9		ă	0 7200 [rpm]	1500 [rpm]	8.9
P19.11	L	[0] V/F L [1] [2] [3] [4]	0 4	0	
P19.12			1.00 10.00 [kHz]	3.00 [kHz]	8.9
P19.14	V/F	[0] V/F [1] V/F [2] Ĥ	0 3	0	8.9
P19.15	ě	[0] [1] a	0 1	0	8.9
P19.16	ě	ě	2 500 [ms]	500 [ms]	
P19.17	V/F L	[0] L [1] L	0 1	0	
P19.18	ě	ě	10 1000 [ms]	200 [ms]	
P19.19		[0] [1]	0 1	0	

P19.22	·	·	0.00 100.00 [s]	0.00 [s]	8.9
P19.23		V/F L ã 7	0.00 300.00 [Hz]	0.00 [Hz]	
P19.24		V/F L ã 7	0.00 300.00 [Hz]	50.00 [Hz]	
P19.25	L	L	0.0 120.0 [%]	100.0 [%]	
P19.26	V/F · 1 Z	V/F · 1 Z	0.00 10.00 [%]	0.75 [%]	8.9
P19.27	¶ 1	¶ 1	0.0 200.0 [%]	100.0 [%]	8.9
P19.30	h · 1 ẽ	h · 1 ẽ	0.0 100.0 [%]	0.0 [%]	8.9
P19.33	V/F	V/F	0 6	2	8.9
P19.34	V/F 1		0.0 300.0 [Hz]	5.0 [Hz]	
P19.35	V/F 1 1		0.0 125.0 [%]	11.5 [%]	
P19.36	V/F 2		0.0 300.0 [Hz]	50.0 [Hz]	
P19.37	V/F 1 2		0.0 125.0 [%]	100.0 [%]	
P19.38	V/F 3		0.0 300.0 [Hz]	50.0 [Hz]	
P19.39	V/F 1 3		0.0 125.0 [%]	100.0 [%]	
P19.40	V/F 4		0.0 300.0 [Hz]	50.0 [Hz]	
P19.41	V/F 1 4		0.0 125.0 [%]	100.0 [%]	
P19.42	V/F 5		0.0 300.0 [Hz]	50.0 [Hz]	
P19.43	V/F 1 5		0.0 125.0 [%]	100.0 [%]	
P19.44	V/F 6		0.0 300.0 [Hz]	50.0 [Hz]	
P19.45	V/F 1 6		0.0 125.0 [%]	100.0 [%]	
P19.46	V/F @		0 300	0	
P19.47	1 @		0 300	0	

P19.48		[0] [1]PID 1 [2]PID 2 [3] w	0 3	0	
P19.49	@		0 300	0	
P19.50	- L	- L	0.00 300.00 [s]	0.00 [s]	8.9
P19.51	- L	- L	0.0 150.0 [%]	70.0 [%]	8.9
P19.52	- L	- L	0.00 5.00 [Hz]	0.00 [Hz]	8.9
P19.54	Å L	Å L	0.00 300.00 [s]	0.00 [s]	8.9
P19.55	Å L	Å L	0.0 150.0 [%]	75.0 [%]	8.9
P19.56	Å L	Å L	0.00 5.00 [Hz]	0.00 [Hz]	8.9
P19.59	Ĝ ¢	Ĝ ¢	0.0 1000.0 [%]	100.0 [%]	
P19.60	Ĝ №	Ĝ №	0.0 1000.0 [%]	100.0 [%]	
P19.61	ı L ¢	ı L ¢	0.0 1000.0 [%]	100.0 [%]	
P19.62	ı L №	ı L №	0.0 1000.0 [%]	100.0 [%]	
P19.64	V/F Ъ	V/F Ъ	0.0 1000.0 [%]	100.0 [%]	8.9
P19.66	L ¢	V/F L ¢	0.0 1000.0 [%]	100.0 [%]	
P19.67	- L ¢	- L ¢	0.0 1000.0 [%]	100.0 [%]	
P19.68	- L №	- L №	0.0 1000.0 [%]	100.0 [%]	
P19.69	Å L ¢	Å L ¢	0.0 1000.0 [%]	100.0 [%]	
P19.70	Å L №	Å L №	0.0 1000.0 [%]	100.0 [%]	

7.20 1 L P20

w				v	
P20.0	L	[0] [1] a	0 1	0	8.10
P20.1		[0] ¤ [1] ~ 1 [2] ~ 2 [3] ¤ [4] ã P20.3 v [5]DP [6]MODBUS [7] w	0 7	0	8.10
P20.2			0 7	0	
P20.3	v	v	-300.0 300.0 [%]	0.0 [%]	8.10
P20.4	@		0 300	0	
P20.5	~ v		0 1000 [ms]	0 [ms]	
P20.6			0.0 200.0 [%]	100.0 [%]	8.10
P20.7	L v	[0] ¢ L v [1] ã P20.8 P20.9 [2] ~ 1 [3] ~ 2 [4] ¤ [5]DP [6]MODBUS [7] w	0 7	0	8.10
P20.8	L v	P20.7 [1] v	0.0 300.0 [%]	200.0 [%]	8.10
P20.9	ĩ L v	P20.7 [1] v	0.0 300.0 [%]	200.0 [%]	8.10
P20.10	L v		0 300	0	
P20.11	L		0 1000 [ms]	0 [ms]	

P20.13	τ	τ	20.0 500.0 [ms]	100.0 [ms]	8.10
P20.14		1	0 60000	1024	
P20.15	ĩ	[0] [1] a	0 1	0	8.10
P20.16		7 L	0.0 300.0 [%]	100.0 [%]	
P20.17	ĩ	7 ĩ L	0.0 300.0 [%]	100.0 [%]	
P20.18		7 L	0.0 300.0 [%]	0.0 [%]	
P20.19	ĩ	7 ĩ L	0.0 300.0 [%]	0.0 [%]	
P20.20	w L a	[0] [1] a	0 1	0	
P20.21	w L	[0] [1]	0 1	0	
P20.22	L y	ã w	0.0 300.0 [%]	160.0 [%]	
P20.23	y	ã w	0.0 200.0 [%]	20.0 [%]	
P20.24	L y	ã w	0.0 300.0 [%]	100.0 [%]	
P20.25	y	ã w	0.0 200.0 [%]	100.0 [%]	
P20.26	β	β	0.0 1000.0 [%]	0.0 [%]	8.10
P20.27	β ã	β ₪ L y	0.00 15.00 [%]	2.00 [%]	8.10
P20.28	L L	[0] y ĩ g P20.16 P20.17 [1] ~ [2] ₪ [3] DP	0 3	0	
P20.30	z	[0] z y g P20.31 P20.32 y z [1] ~ 1 [2] ~ 2 [3]	0 3	0	

P20.31	Ț	Ț ȳ	0.0 100.0 [%]	5.0 [%]	
P20.32	ĩ Ț	ĩ Ț ȳ	0.0 100.0 [%]	5.0 [%]	
P20.34	ẽ a	[0] [1] a	0 1	0	8.10
P20.35	Ĝ	Ā Ĝ	0.0 100.0 [s]	0.0 [s]	
P20.36	˘	˘ ȳ	50.0 150.0 [%]	110.0 [%]	
P20.37	˘	˘	0.0 150.0 [%]	100.0 [%]	8.10
P20.38	˘	˘	0.0 100.0 [%]	25.0 [%]	8.10
P20.39			0.0 120.0 [%]	100.0 [%]	8.10
P20.40			0.0 150.0 [%]	100.0 [%]	8.10
P20.41			0.0 150.0 [%]	135.0 [%]	
P20.42	w	[0] [1] a	0 1	1	
P20.43			25 1000 [ms]	75 [ms]	
P20.44		w ȳ	25 1000 [ms]	250 [ms]	
P20.45	ȳ	ã w	0.0 100.0 [%]	22.0 [%]	
P20.46	ĩ ȳ	ã w	0.0 100.0 [%]	18.0 [%]	
P20.47	ȳ	ã w	0.0 200.0 [%]	92.0 [%]	
P20.48	ĩ ȳ	ã w	0.0 200.0 [%]	87.0 [%]	
P20.49	ȳ	ã w	0.0 150.0 [%]	100.0 [%]	
P20.51	ı L ı	ı L ı	0.0 1000.0 [%]	100.0 [%]	
P20.52	ı L №	ı L №	0.0 1000.0 [%]	100.0 [%]	

P20.53	: L Kp	L 0	0.0 1000.0 [%]	100.0 [%]	
P20.54	: L Ki	L N0	0.0 1000.0 [%]	100.0 [%]	
P20.55	0	L 0	0.0 1000.0 [%]	100.0 [%]	8.10
P20.56	N0	L N0	0.0 1000.0 [%]	100.0 [%]	8.10
P20.57	a	[0] [1] a	0 1	0	8.10
P20.58		v	0.0 125.0 [%]	100.0 [%]	8.10
P20.59	Ā :	Ā : v	1.0 25.0 [%]	2.5 [%]	8.10
P20.60	DROOP L	0 DROOP L	0.0 100.0 [%]	0.0 [%]	8.10
P20.61	DROOP L	DROOP L Ū v	30 2000 [ms]	50 [ms]	8.10
P20.62	0	L 0	0.0 1000.0 [%]	100.0 [%]	8.10
P20.63	N0	L N0	0.0 1000.0 [%]	100.0 [%]	8.10
P20.66	1	L 1	0.0 1000.0 [%]	100.0 [%]	
P20.67	2	L 2	0.0 1000.0 [%]	100.0 [%]	
P20.69	v β		0.00 2.00 [%]	1.00 [%]	
P20.70	v v		0.00 2.00 [%]	1.00 [%]	
P20.71	a	[0] [1] a	0 1	0	
P20.72	a	[0] [1] a	0 1	1	
P20.73		[0] × 1 [1] × 10	0 1	0	
P20.74			0.00 650.00 [mOhm]	0.00 [mOhm]	
P20.75	v	v	0.70 1.00	0.90	
P20.76	1	1	90.0 110.0 [%]	100.0 [%]	

7.21 2 L P21

w				v	
P21.0	L	[0] [1] a	0 1	0	8.10
P21.1		[0] ¢ [1] ~ 1 [2] ~ 2 [3] ¢ [4] ă P21.3 v [5]DP [6]MODBUS [7] w	0 7	0	8.10
P21.2			0 7	0	
P21.3	v	v	-300.0 300.0 [%]	0.0 [%]	8.10
P21.4	@		0 300	0	
P21.5	~ v		0 1000 [ms]	0 [ms]	
P21.6			0.0 200.0 [%]	100.0 [%]	8.10
P21.7	L v	[0] ȑ L v [1] ă P21.8 P21.9 [2] ~ 1 [3] ~ 2 [4] ¢ [5]DP [6]MODBUS [7] w	0 7	0	8.10
P21.8	L v	P21.7 [1] v	0.0 300.0 [%]	200.0 [%]	8.10
P21.9	ĩ L v	P21.7 [1] v	0.0 300.0 [%]	200.0 [%]	8.10
P21.10	L v		0 300	0	
P21.11	L		0 1000 [ms]	0 [ms]	
P21.13	τ	τ	20.0 500.0 [ms]	100.0 [ms]	8.10

P21.14	ll	1 ll	0 60000	1024	
P21.15	ĩ	[0] [1] a	0 1	0	8.10
P21.16		₇ L	0.0 300.0 [%]	100.0 [%]	
P21.17	ĩ	₇ ^ĩ L	0.0 300.0 [%]	100.0 [%]	
P21.18		₇ L	0.0 300.0 [%]	0.0 [%]	
P21.19	ĩ	₇ ^ĩ L	0.0 300.0 [%]	0.0 [%]	
P21.20	w L a	[0] [1] a	0 1	0	
P21.21	w L	[0] [1]	0 1	0	
P21.22	L v	ã w	0.0 300.0 [%]	160.0 [%]	
P21.23	v	ã w	0.0 200.0 [%]	20.0 [%]	
P21.24	L v	ã w	0.0 300.0 [%]	100.0 [%]	
P21.25	v	ã w	0.0 200.0 [%]	100.0 [%]	
P21.26	β	β	0.0 1000.0 [%]	0.0 [%]	8.10
P21.27	β ã	β ¤ L v	0.00 15.00 [%]	2.00 [%]	8.10
P21.28	L L	[0] v ĩ g P21.16 P21.17 [1] ~ [2] ¤ [3] DP	0 3	0	
P21.30	z	[0] z v g P21.31 P21.32 v z [1] ~ 1 [2] ~ 2 [3]	0 3	0	
P21.31	z	z v	0.0 100.0 [%]	5.0 [%]	

P21.32	ĩ Ț	ĩ Ț ȳ	0.0 100.0 [%]	5.0 [%]	
P21.34	ẽ a	[0] [1] a	0 1	0	8.10
P21.35	Ġ	Å Ġ	0.0 100.0 [s]	0.0 [s]	
P21.36	˘	˘ ȳ	50.0 150.0 [%]	110.0 [%]	
P21.37	˘	˘	0.0 150.0 [%]	100.0 [%]	8.10
P21.38	˘	˘	0.0 100.0 [%]	25.0 [%]	8.10
P21.39			0.0 120.0 [%]	100.0 [%]	8.10
P21.40			0.0 150.0 [%]	100.0 [%]	8.10
P21.41			0.0 150.0 [%]	135.0 [%]	
P21.42	w	[0] [1] a	0 1	1	
P21.43			25 1000 [ms]	75 [ms]	
P21.44		w ȳ	25 1000 [ms]	250 [ms]	
P21.45	ȳ	ã w	0.0 100.0 [%]	22.0 [%]	
P21.46	ĩ ȳ	ã w	0.0 100.0 [%]	18.0 [%]	
P21.47	ȳ	ã w	0.0 200.0 [%]	92.0 [%]	
P21.48	ĩ ȳ	ã w	0.0 200.0 [%]	87.0 [%]	
P21.49	ȳ	ã w	0.0 150.0 [%]	100.0 [%]	
P21.51	ı L ı	ı L ı	0.0 1000.0 [%]	100.0 [%]	
P21.52	ı L №	ı L №	0.0 1000.0 [%]	100.0 [%]	
P21.53	: L Kp	L ı	0.0 1000.0 [%]	100.0 [%]	

				í	ã	
P21.54	:	L Ki	L No	0.0 1000.0 [%]	100.0 [%]	
P21.55		o	L o	0.0 1000.0 [%]	100.0 [%]	8.10
P21.56		No	L No	0.0 1000.0 [%]	100.0 [%]	8.10
P21.57	a	[0] [1] a		0 1	0	8.10
P21.58			v	0.0 125.0 [%]	100.0 [%]	8.10
P21.59	Å :		Å : v	1.0 25.0 [%]	2.5 [%]	8.10
P21.60	DR00P L	0	DR00P L	0.0 100.0 [%]	0.0 [%]	8.10
P21.61	DR00P L	DR00P L	Ü - v	30 2000 [ms]	50 [ms]	8.10
P21.62		L o		0.0 1000.0 [%]	100.0 [%]	8.10
P21.63		No	L No	0.0 1000.0 [%]	100.0 [%]	8.10
P21.66		1	L 1	0.0 1000.0 [%]	100.0 [%]	
P21.67		2	L 2	0.0 1000.0 [%]	100.0 [%]	
P21.69	v	β		0.00 2.00 [%]	1.00 [%]	
P21.70	v	v		0.00 2.00 [%]	1.00 [%]	
P21.71			o ↓ !			

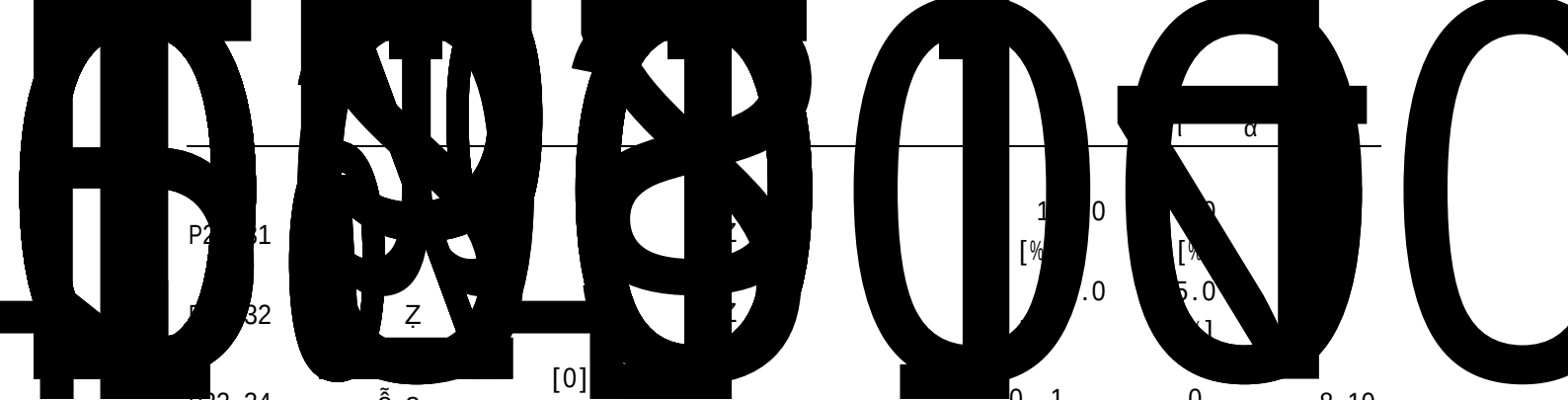
[[] 9

P21.78			0.00 650.00 [mOhm]	0.00 [mOhm]	
P21.79			0.00 65.50 [mH]	0.000 [mH]	
P21.80	1	1	0.800 1.350	1.140	
P21.81	2	2	0.800 1.350	0.940	
P21.82	3	3	0.800 1.350	1.080	
P21.83	4	4	0.800 1.350	0.950	
P21.84			0.00 655.00 [mH]	0.00 [mH]	
P21.85	85%	85% ε	40.0 150.0 [%]	108.0 [%]	
P21.86	87.5%	87.5% ε	40.0 150.0 [%]	106.5 [%]	
P21.87	90%	90% ε	40.0 150.0 [%]	105.0 [%]	
P21.88	92.5%	92.5% ε	40.0 150.0 [%]	103.5 [%]	
P21.89	95%	95% ε	40.0 150.0 [%]	102.0 [%]	
P21.90	102.5%	102.5% ε	40.0 150.0 [%]	99.0 [%]	
P21.91	105%	105% ε	40.0 150.0 [%]	96.5 [%]	
P21.92	110%	110% ε	40.0 150.0 [%]	93.0 [%]	
P21.93	115%	115% ε	40.0 150.0 [%]	88.5 [%]	
P21.94	120%	120% ε	40.0 150.0 [%]	83.0 [%]	
P21.95	125%	125% ε	40.0 150.0 [%]	77.0 [%]	
P21.96	130%	130% ε	40.0 150.0 [%]	70.5 [%]	
P21.97	135%	135% ε	40.0 150.0 [%]	63.5 [%]	
P21.98	τ	τ (γ)	0.01 300.00 [s]	0.75 [s]	
P21.99			0.00 10.00 [%]	0.00 [%]	

7.22 3 L P22

w				v	
P22.0	L	[0] [1] a	0 1	0	8.10
P22.1		[0] ¤ [1] ~ 1 [2] ~ 2 [3] ¤ [4] ã P22.3 v [5]DP [6]MODBUS [7] w	0 7	0	8.10
P22.2			0 7	0	
P22.3	v	v	-300.0 300.0 [%]	0.0 [%]	8.10
P22.4	@		0 300	0	
P22.5	~ v		0 1000 [ms]	0 [ms]	
P22.6			0.0 200.0 [%]	100.0 [%]	8.10
P22.7	L v	[0] ¢ L v [1] ã P22.8 P22.9 [2] ~ 1 [3] ~ 2 [4] ¤ [5]DP [6]MODBUS [7] w	0 7	0	8.10
P22.8	L v	P22.7 [1] v	0.0 300.0 [%]	200.0 [%]	8.10
P22.9	ĩ L v	P22.7 [1] v	0.0 300.0 [%]	200.0 [%]	8.10
P22.10	L v		0 300	0	
P22.11	L		0 1000 [ms]	0 [ms]	

P22.13	τ	τ	20.0 500.0 [ms]	100.0 [ms]	8.10
P22.14		1	0 60000	1024	
P22.15	ĩ	[0] [1] a	0 1	0	8.10
P22.16		7 L	0.0 300.0 [%]	100.0 [%]	
P22.17	ĩ	7 ĩ L	0.0 300.0 [%]	100.0 [%]	
P22.18		7 L	0.0 300.0 [%]	0.0 [%]	
P22.19	ĩ	7 ĩ L	0.0 300.0 [%]	0.0 [%]	
P22.20	w L a	[0] [1] a	0 1	0	
P22.21	w L	[0] [1]	0 1	0	
P22.22	L y	ã w	0.0 300.0 [%]	160.0 [%]	
P22.23	y	ã w	0.0 200.0 [%]	20.0 [%]	
P22.24	L y	ã w	0.0 300.0 [%]	100.0 [%]	
P22.25	y	ã w	0.0 200.0 [%]	100.0 [%]	
P22.26	β	β	0.0 1000.0 [%]	0.0 [%]	8.10
P22.27	β ã	β ɸ L y	0.00 15.00 [%]	2.00 [%]	8.10
P22.28	L L	[0] y ĩ g P22.16 P22.17 [1] ~ [2] ɸ [3] DP	0 3	0	
P22.30	z	[0] z y g P22.31 P22.32 y z [1] ~ 1 [2] ~ 2 [3]	0 3	0	



P22.31

P22.32

P22.34

P22.35

P22.36

P22.37

P22.38

P22.39

P22.40

P22.41

P22.42

P22.43

P22.44

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0.0 100.0

[s]

50.0 150.0

[%]

0.0 150.0

[%]

0.0 100.0

[%]

0.0 120.0

[%]

0.0 150.0

[%]

0.0 150.0

[%]

0 1

25 1000

[ms]

100
[%]

0.0

0

0.0

[s]

110.0

[%]

100.0

[%]

25.0

[%]

100.0

[%]

100.0

[%]

135.0

[%]

1

75

[ms]

8.10

8.10

8.10

8.10

8.10

P22.53	: L Kp	L 0	0.0 1000.0 [%]	100.0 [%]	
P22.54	: L Ki	L N0	0.0 1000.0 [%]	100.0 [%]	
P22.55	0	L 0	0.0 1000.0 [%]	100.0 [%]	8.10
P22.56	N0	L N0	0.0 1000.0 [%]	100.0 [%]	8.10
P22.57	a	[0] [1] a	0 1	0	8.10
P22.58		v	0.0 125.0 [%]	100.0 [%]	8.10
P22.59	Ā :	Ā : v	1.0 25.0 [%]	2.5 [%]	8.10
P22.60	DROOP L	0 DROOP L	0.0 100.0 [%]	0.0 [%]	8.10
P22.61	DROOP L	DROOP L Ū v	30 2000 [ms]	50 [ms]	8.10
P22.62	0	L 0	0.0 1000.0 [%]	100.0 [%]	8.10
P22.63	N0	L N0	0.0 1000.0 [%]	100.0 [%]	8.10
P22.66	1	L 1	0.0 1000.0 [%]	100.0 [%]	
P22.67	2	L 2	0.0 1000.0 [%]	100.0 [%]	
P22.69	v β		0.00 2.00 [%]	1.00 [%]	
P22.70	v v		0.00 2.00 [%]	1.00 [%]	
P22.71	a	[0] [1] a	0 1	0	
P22.72	a	[0] [1] a	0 1	1	
P22.73		[0] × 1 [1] × 10	0 1	0	
P22.74			0.00 650.00 [mOhm]	0.00 [mOhm]	
P22.75	v	v	0.70 1.00	0.90	
P22.76	1	1	90.0 110.0 [%]	100.0 [%]	

P22.77	2	2	90.0 110.0 [%]	100.0 [%]	
P22.78			0.00 650.00 [mOhm]	0.00 [mOhm]	
P22.79			0.00 65.50 [mH]	0.000 [mH]	
P22.80	1	1	0.800 1.350	1.140	
P22.81	2	2	0.800 1.350	0.940	
P22.82	3	3	0.800 1.350	1.080	
P22.83	4	4	0.800 1.350	0.950	
P22.84			0.00 655.00 [mH]	0.00 [mH]	
P22.85	85%	85% ε	40.0 150.0 [%]	108.0 [%]	
P22.86	87.5%	87.5% ε	40.0 150.0 [%]	106.5 [%]	
P22.87	90%	90% ε	40.0 150.0 [%]	105.0 [%]	
P22.88	92.5%	92.5% ε	40.0 150.0 [%]	103.5 [%]	
P22.89	95%	95% ε	40.0 150.0 [%]	102.0 [%]	
P22.90	102.5%	102.5% ε	40.0 150.0 [%]	99.0 [%]	
P22.91	105%	105% ε	40.0 150.0 [%]	96.5 [%]	
P22.92	110%	110% ε	40.0 150.0 [%]	93.0 [%]	
P22.93	115%	115% ε	40.0 150.0 [%]	88.5 [%]	
P22.94	120%	120% ε	40.0 150.0 [%]	83.0 [%]	
P22.95	125%	125% ε	40.0 150.0 [%]	77.0 [%]	
P22.96	130%	130% ε	40.0 150.0 [%]	70.5 [%]	
P22.97	135%	135% ε	40.0 150.0 [%]	63.5 [%]	
P22.98	-	- (γ)	0.01 300.00 [s]	0.75 [s]	
P22.99			0.00 10.00 [%]	0.00 [%]	

7.23 4 L P23

w				v	
P23.0	L	[0] [1] a	0 1	0	8.10
P23.1		[0] ¢ [1] ~ 1 [2] ~ 2 [3] ¢ [4] ă P23.3 v [5]DP [6]MODBUS [7] w	0 7	0	8.10
P23.2			0 7	0	
P23.3	v	v	-300.0 300.0 [%]	0.0 [%]	8.10
P23.4	@		0 300	0	
P23.5	~ v		0 1000 [ms]	0 [ms]	
P23.6			0.0 200.0 [%]	100.0 [%]	8.10
P23.7	L v	[0] ı L v [1] ă P23.8 P23.9 [2] ~ 1 [3] ~ 2 [4] ¢ [5]DP [6]MODBUS [7] w	0 7	0	8.10
P23.8	L v	P23.7 [1] v	0.0 300.0 [%]	200.0 [%]	8.10
P23.9	ı L v	P23.7 [1] v	0.0 300.0 [%]	200.0 [%]	8.10
P23.10	L v		0 300	0	
P23.11	L		0 1000 [ms]	0 [ms]	
P23.13	τ	τ	20.0 500.0 [ms]	100.0 [ms]	8.10

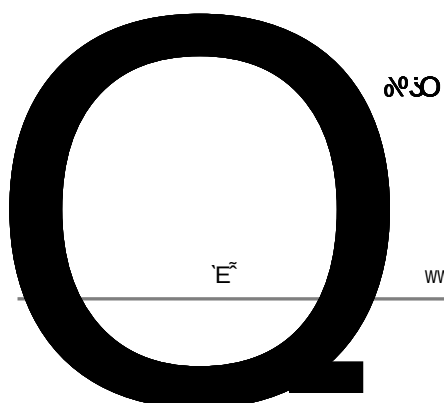
P23.14	ll	1 ll	0 60000	1024	
P23.15	ĩ	[0] [1] a	0 1	0	8.10
P23.16		₇ L	0.0 300.0 [%]	100.0 [%]	
P23.17	ĩ	₇ ĩ	0.0 300.0 [%]	100.0 [%]	
P23.18		₇ L	0.0 300.0 [%]	0.0 [%]	
P23.19	ĩ	₇ ĩ	0.0 300.0 [%]	0.0 [%]	
P23.20	w L a	[0] [1] a	0 1	0	
P23.21	w L	[0] [1]	0 1	0	
P23.22	L v	ã w	0.0 300.0 [%]	160.0 [%]	
P23.23	v	ã w	0.0 200.0 [%]	20.0 [%]	
P23.24	L v	ã w	0.0 300.0 [%]	100.0 [%]	
P23.25	v	ã w	0.0 200.0 [%]	100.0 [%]	
P23.26	β	β	0.0 1000.0 [%]	0.0 [%]	8.10
P23.27	β ã	β ¢ L v	0.00 15.00 [%]	2.00 [%]	8.10
P23.28	L L	[0] v ĩ g P23.16 P23.17 [1] ~ [2] ¢ [3] DP	0 3	0	
P23.30	z	[0] z v g P23.31 P23.32 v z [1] ~ 1 [2] ~ 2 [3]	0 3	0	
P23.31	z	z v	0.0 100.0 [%]	5.0 [%]	

P23.32	ĩ ¸	ĩ ¸ ı	0.0 100.0 [%]	5.0 [%]	
P23.34	ẽ a	[0] [1] a	0 1	0	8.10
P23.35	Ġ	Å Ġ	0.0 100.0 [s]	0.0 [s]	
P23.36	ı	ı ı	50.0 150.0 [%]	110.0 [%]	
P23.37	ı	ı	0.0 150.0 [%]	100.0 [%]	8.10
P23.38	ı	ı	0.0 100.0 [%]	25.0 [%]	8.10
P23.39			0.0 120.0 [%]	100.0 [%]	8.10
P23.40			0.0 150.0 [%]	100.0 [%]	8.10
P23.41			0.0 150.0 [%]	135.0 [%]	
P23.42	w	[0] [1] a	0 1	1	
P23.43			25 1000 [ms]	75 [ms]	
P23.44		w b	25 1000 [ms]	250 [ms]	
P23.45	ı	ã w	0.0 100.0 [%]	22.0 [%]	
P23.46	ı	ã w	0.0 100.0 [%]	18.0 [%]	
P23.47	ı	ã w	0.0 200.0 [%]	92.0 [%]	
P23.48	ı	ã w	0.0 200.0 [%]	87.0 [%]	
P23.49	ı	ã w	0.0 150.0 [%]	100.0 [%]	
P23.51	ı L d	ı L d	0.0 1000.0 [%]	100.0 [%]	
P23.52	ı L Nđ	ı L Nđ	0.0 1000.0 [%]	100.0 [%]	
P23.53	: L Kp	L d	0.0 1000.0 [%]	100.0 [%]	

P23.54	: L Ki	L №	0.0 1000.0 [%]	100.0 [%]	
P23.55	▯	L ▯	0.0 1000.0 [%]	100.0 [%]	8.10
P23.56	№	L №	0.0 1000.0 [%]	100.0 [%]	8.10
P23.57	а	[0] [1] а	0 1	0	8.10
P23.58		✓	0.0 125.0 [%]	100.0 [%]	8.10
P23.59	Å :	Å : ✓	1.0 25.0 [%]	2.5 [%]	8.10
P23.60	DR00P L	0 DR00P L	0.0 100.0 [%]	0.0 [%]	8.10
P23.61	DR00P L	DR00P L Û - ✓	30 2000 [ms]	50 [ms]	8.10
P23.62	▯	L ▯	0.0 1000.0 [%]	100.0 [%]	8.10
P23.63	№	L №	0.0 1000.0 [%]	100.0 [%]	8.10
P23.66	1	L 1	0.0 1000.0 [%]	100.0 [%]	
P23.67	2	L 2	0.0 1000.0 [%]	100.0 [%]	
P23.69	✓ β		0.00 2.00 [%]	1.00 [%]	
P23.70	✓ ✓		0.00 2.00 [%]	1.00 [%]	
P23.71	а	[0] [1] а	0 1	0	
P23.72	а	[0] [1] а	0 1	1	
P23.73		[0] × 1 [1] × 10	0 1	0	
P23.74			0.00 650.00 [mOhm]	0.00 [mOhm]	
P23.75	✓	✓	0.70 1.00	0.90	
P23.76	1	1	90.0 110.0 [%]	100.0 [%]	
P23.77	2	2	90.0 110.0 [%]	100.0 [%]	

P23.78			0.00	650.00	0.00
			[mOhm]		[mOhm]
P23.79			0.00	65.50	0.000
			[mH]		[mH]
P23.80	1	1	0.800	1.350	1.140
P23.81	2	2	0.800	1.350	0.940
P23.82	3	3	0.800	1.350	1.080
P23.83	4	4	0.800	1.350	0.950
P23.84			0.00		

0.00 "V.3.88.5



7.24 MODBUS P32

w				v	
P32.0	MODBUS a	[0] [1] a	0 1	0	
P32.1	MODBUS c ID		1 255	1	
P32.2	o	[0]RS485 [1]RS232	0 1	0	
P32.3		[0] 9600 BPS [1] 14400 BPS [2] 19200 BPS [3] 38400 BPS [4] 56000 BPS [5] 57600 BPS [6] 115200 BPS	0 6	3	
P32.4	β	[0] None_8_1_CFG [1] Even_8_1_CFG [2] Odd_8_1_CFG [3] None_8_2_CFG [4] Even_8_2_CFG [5] Odd_8_2_CFG	0 5	0	
P32.5	Modbus	Modbus 0 Modbus	0 100 [s]	0 [s]	0s
P32.6	Modbus	0- 1-	0 1	0	

P33.44	~ [W15]	[0] × 1 [1] × 10 [2] × 100 [3] × 1000 [4] × 10000	0 4	0	
P33.45	₹ [W0]	7-3	0 48	0	
P33.46	₹ [W0]	[0] × 1 [1] × 10 [2] × 100 [3] × 1000 [4] × 10000 [5] [%] × 1 [6] [%] × 10 [7] [%] × 100	0 7	0	
P33.47	₹ [W1]	7-3	0 48	0	
P33.48	₹ [W1]	[0] × 1 [1] × 10 [2] × 100 [3] × 1000 [4] × 10000 [5] [%] × 1 [6] [%] × 10 [7] [%] × 100	0 7	0	
P33.49	₹ [W2]	7-3	0 48	0	
P33.50	₹ [W2]	[0] × 1 [1] × 10 [2] × 100 [3] × 1000 [4] × 10000 [5] [%] × 1 [6] [%] × 10 [7] [%] × 100	0 7	0	
P33.51	₹ [W3]	7-3	0 48	0	
P33.52	₹ [W3]	[0] × 1 [1] × 10 [2] × 100 [3] × 1000 [4] × 10000 [5] [%] × 1 [6] [%] × 10 [7] [%] × 100	0 7	0	
P33.53	₹ [W4]	7-3	0 48	1	

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

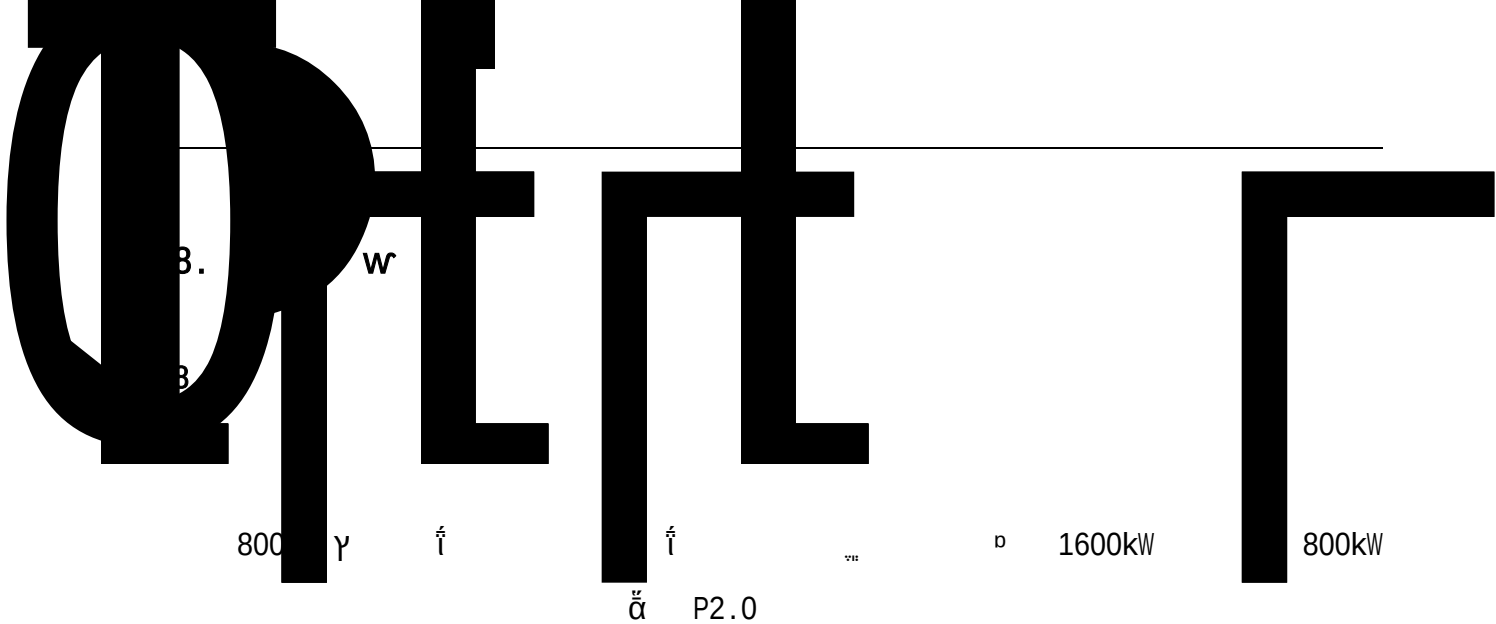
P33.62	₹ [W8]	$[0] \times 1$ $[1] \times 10$ $[2] \times 100$ $[3] \times 1000$ $[4] \times 10000$ $[5] [\%] \times 1$ $[6] [\%] \times 10$ $[7] [\%] \times 100$	0 7	0	
P33.63	₹ [W9]	7-3	0 48	13	
P33.64	₹ [W9]	$[0] \times 1$ $[1] \times 10$ $[2] \times 100$ $[3] \times 1000$ $[4] \times 10000$ $[5] [\%] \times 1$ $[6] [\%] \times 10$ $[7] [\%] \times 100$	0 7	0	
P33.65	₹ [W10]	7-3	0 48	40	
P33.66	₹ [W10]	$[0] \times 1$ $[1] \times 10$ $[2] \times 100$ $[3] \times 1000$ $[4] \times 10000$ $[5] [\%] \times 1$ $[6] [\%] \times 10$ $[7] [\%] \times 100$	0 7	6	
P33.67	₹ [W11]	7-3	0 48	0	
P33.68	₹ [W11]	$[0] \times 1$ $[1] \times 10$ $[2] \times 100$ $[3] \times 1000$ $[4] \times 10000$ $[5] [\%] \times 1$ $[6] [\%] \times 10$ $[7] [\%] \times 100$	0 7	0	
P33.69	₹ [W12]	7-3	0 48	0	

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

7-2 ~

v	
0	a
1	L 0
2	L 1
3	L 2
4	L 3
5	L 4
6	β [32]
7	v β [32]
8	32_MSW
9	32_LSW
10	⌘
11	ã L
12	ã 0 @32bit
13	ã 1 @32bit
14	ã 2 @32bit
15	ã 3 @32bit
16	ã 4 @32bit
17	ã 5 @32bit
18	[Hz]
19	[rpm]
20	[%]
21	[%]
22	L v [%]
23	L v [Hz]
24	w
25	w
26	⌘ 1[%]
27	⌘ 2[%]
28	v L
29	⋮ L
30 37	SET_W12 19

29	C v
30	v
31	ƒ 1
32	
33	~ 1
34	~ 2
35	ƒ w
36	
37	
38	
39	v
40	
41 48	AW22 29



8.2

~

L

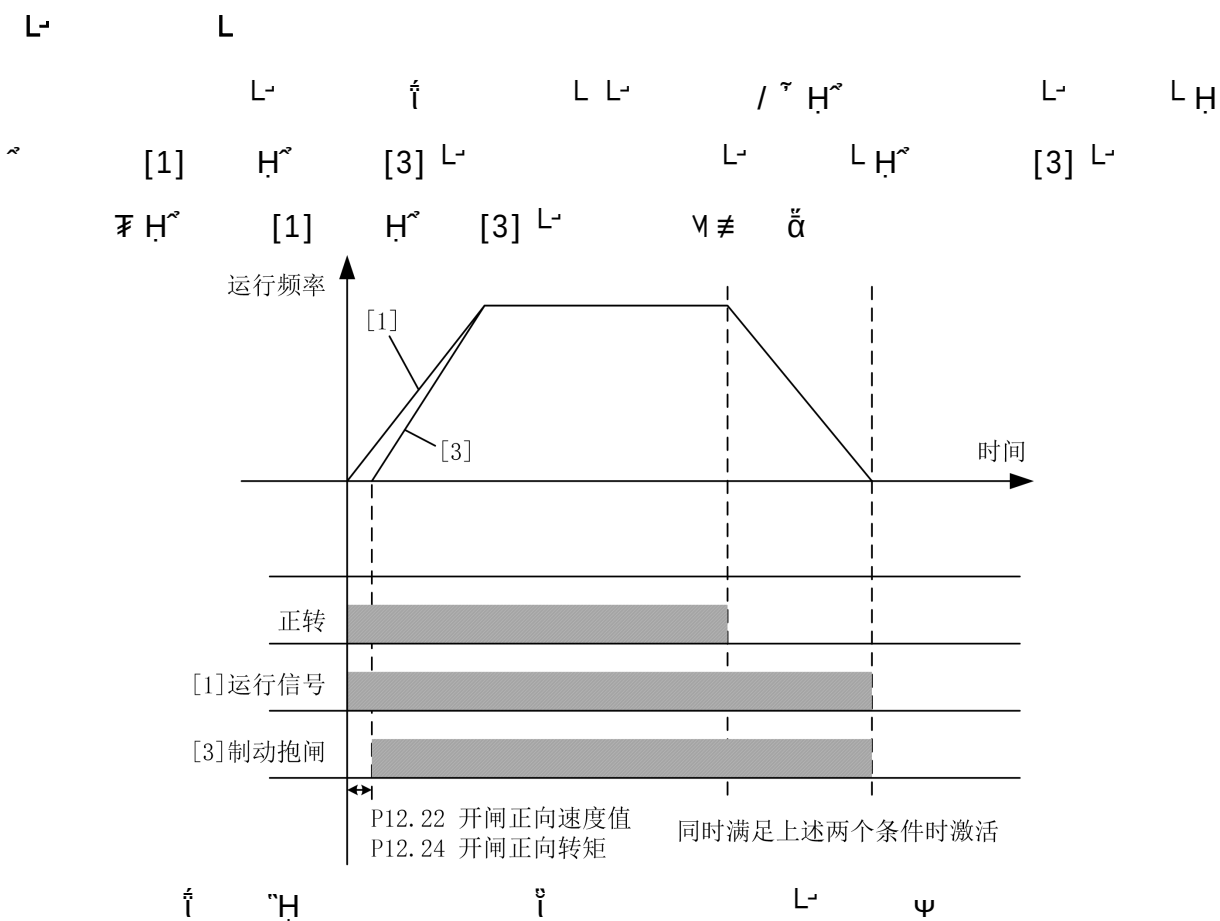
5 v α P12.0

[0] L

B. [1] H L

4 16 (8421) 7 ~
 (FORWARD) i (REVERSE) H γ α P12.2(1) γ v

8.3



8.6 Ĝ ǎ

1 L w

P7.0 P7.1 P7.2 P7.3 L w L
 v w -

2 Ĝ w

P7.4 P7.5 P7.6 P7.7 Ĝ w ǎ P7.4 γ ǎ P16.4
 v w - © ĩ Ǽ v

No

3 Ĝ

P7.8 P7.9 P7.10 P7.11 Ĝ v ĩ Ǽ $I_a + I_b + I_c$

P16.4 $\frac{I_a + I_b + I_c}{P} > P$ w -

© ĩ Ǽ

ψ

4 1 1 Ĝ

P7.12 P7.13 1 1 Ĝ w ĩ 1 ǎ P7.12 v
 w - © ĩ Ǽ ĩ 1 v G P7.13 v w -
 © ĩ Ǽ v

5 Ĝ

P7.14 w ĩ IGBT ǎ P7.14 v w -
 © ĩ Ǽ ĩ

P7.15 w ĩ Å ĩ IGBT ǎ P7.15
 v w -

6 Ĝ

P7.19 P7.20 P7.21 P7.22 w ǎ P7.19 v
 w - © ĩ Ǽ P7.19 P7.22 v No

7 ̄ G

P7.23 ̄ 7 L P16.11=1 b P7.23 v
 ̄ w L 7 v
 P7.23 v ↓ w ②

ī ̄

P7.24 P7.26 ̄ 7 L P17.11=1 P18.11=1 P19.11=1
 b 7

8 ̄ G

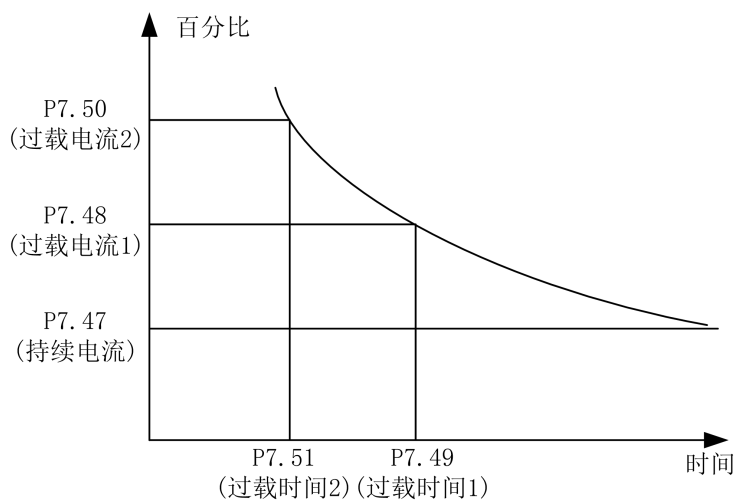
P7.31 P7.32 ̄ w 7 L P16.11=2 b
 P7.31 7 v 100% P7.32
 ̄ P7.31 v P7.32
 w ② ī ̄

9 ̄ G

P7.33 b b
 P7.33 w

10 ̄ G w

P7.48 P7.50 ̄ w ̄ v w ②
 ī ̄ ì ̄ α

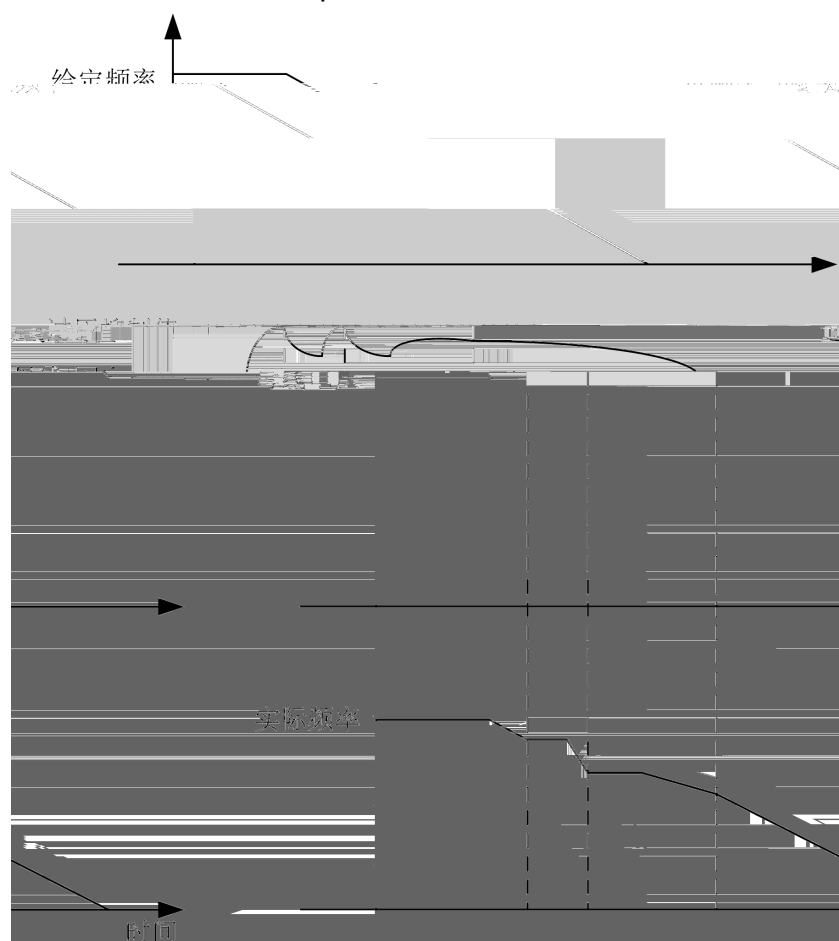


11 ρ L 1H

P7.64 P7.65 P7.66 α 7 i ρ L 1H HF500LC ↓
 i 30kW i γ w b P7.64 1 w a 1
 G L 1 γ ρ L 1H b α P7.65 L η 1
 γ α P7.66 L η 1 γ G L 1 γ
 P16.66 ≥ P16.65 P16.0 ~ 1 690V P7.65 0V L 1 γ 1068V
 P7.66 20V L η 1 γ 1088V E
 L 1 γ = √ + +
 L η 1 γ = √ + +

12 1 Lw

P7.69 P7.70 α b ψ ∴ P7.69 γ 0
 i L 1H P16.0 ~ 1 690V P7.70 0V 1 L
 γ 1093V E 1 L γ = √ + + i r



8.7 Á L α

1
1.1 1

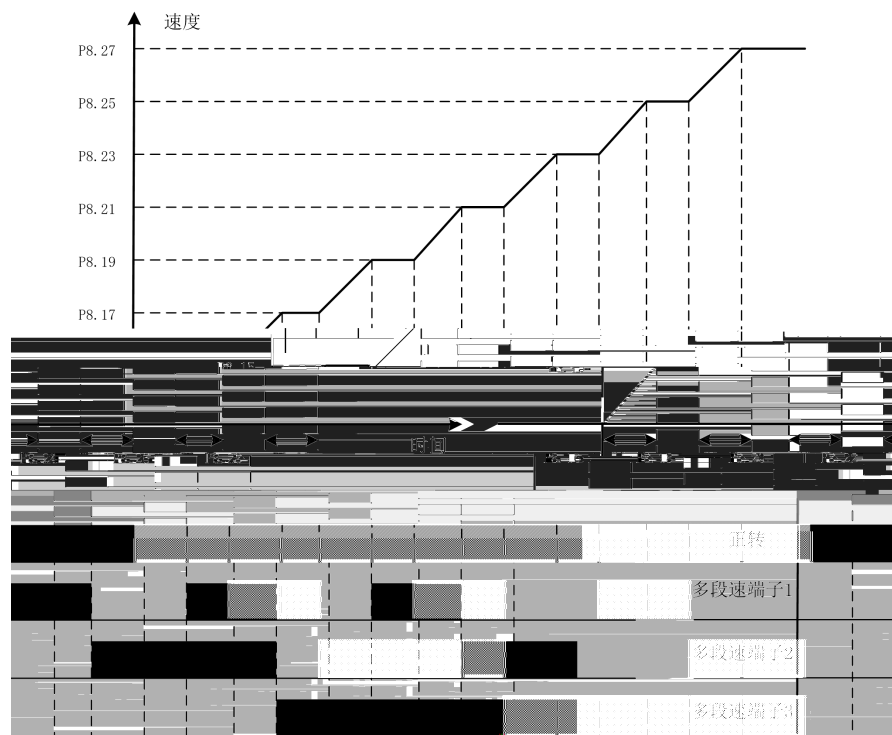
w	w		y
P16.11	Basic Control Function L	0: V/F L 1: 2: 3: 4:	0 V/F L
P16.57	Flying Start CL L y	0-100%	75%
P16.58	Flying Start Mode	0: FWD 1: REV 2: REV-FWD 3: FWD-REV	0:FWD
P16.71	Flying Start IsFlt	0-500.0ms	0.0ms
P16.72	Flying Start FeType	0: 1 1: 2	0: 1
P16.73	Flying Start FeAdjE a	0: 1: a	1: a
1. DI w w w 21 2. P8.06 [] = 5.0 3.P16.11 0 V/F L 4. P16.58 G t~ ü 1 5. P16.71 L ~ ψ ~ v 6.P16.72 0 P16.73 1			

1.3 3

w	w		y
P18.11	Basic Control Function L	0: V/F L 1: 2: 3: 4:	0 V/F L
P18.57	Flying Start CL L y	0-100%	75%
P18.58	Flying Start Mode	0: FWD 1: REV 2: REV-FWD 3: FWD-REV	0:FWD
P18.71	Flying Start IsFlt	0-500.0ms	0.0ms
P18.72	Flying Start FeType	0: 1 1: 2	0: 1
P18.73	Flying Start FeAdjE a	0: 1: a	1: a
1. DI w w w 21 - 2. P8.06 [] = 5.0 3.P18.11 0 V/F L 4. P18.58 Ġ t~ ũ 1 5. P18.71 L ~ ψ ~ v 6.P18.72 0 P18.73 1			

1.4 4

w	w		γ
P19.11	Basic Control Function L	0: V/F L 1: 2: 3: 4:	0 V/F L
P19.57	Flying Start CL L γ	0-100%	75%
P19.58	Flying Start Mode	0: FWD 1: REV 2: REV-FWD 3: FWD-REV	0:FWD
P19.71	Flying Start IsFlt	0-500.0ms	0.0ms
P19.72	Flying Start FeType	0: 1 1: 2	0: 1
P19.73	Flying Start FeAdjE a	0: 1: a	1: a
1. DI w w w 21 - 2. P8.06 [] = 5.0 3.P19.11 0 V/F L 4. P19.58 Ġ t̃ Ů 1 5. P19.71 L ~ ψ ~ v 6.P19.72 0 P19.73 1			



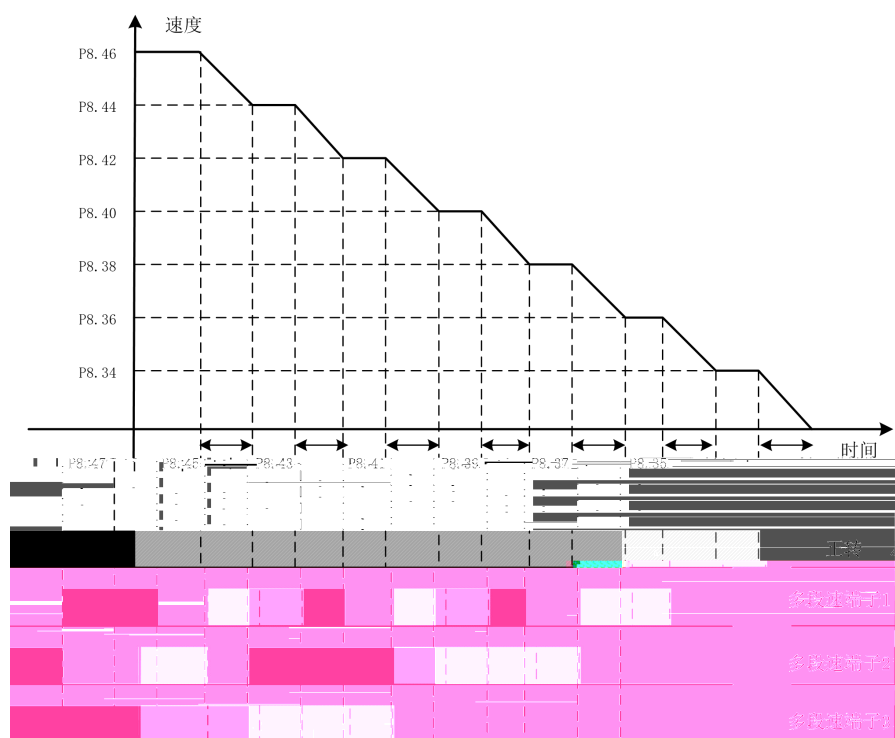
υ υ υ γ

P8.15 < P8.17 < P8.19 < P8.21 < P8.23 < P8.25 < P8.27

γ ï α

P8.15	P8.17	P8.19	P8.21	P8.23	P8.25	P8.27
10%	20%	30%	50%	60%	80%	100%

⋮



∴ √ √ √

P8.34 < P8.36 < P8.38 < P8.40 < P8.42 < P8.44 < P8.46

∇	∇	∇	∇	∇	∇	∇
P8.34	P8.36	P8.38	P8.40	P8.42	P8.44	P8.46
10%	20%	30%	50%	60%	80%	100%

4 ∇ ∇

~ PROFIBUS MODBUS ∇ ∇ Õ í

P8.13 ∇ L P8.32 ∇ L ~ a w

∇ ∇ ∇ ∇ ∇ =P8.14 × P8.16 × (∇ Õ × 0.001)

∇ ∇ ∇ ∇ ∇ =P8.33 × P8.35 × (∇ Õ × 0.001)

8.8 L L

1 ∇

P12.2 P12.17 í ã ∇ ∇

P12.0=[1] ∇ L ∇ ∇ ∇

	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

2 L L

P12.22 P12.37 a L w L 7 ǎ

[3] L L L w ψ

ǎ ĩ | H̃ † ĩ ǎ ĩ

∇ ∇ P12.22 P12.23 P12.24 P12.25

Đ † L ǎ ψ H̃

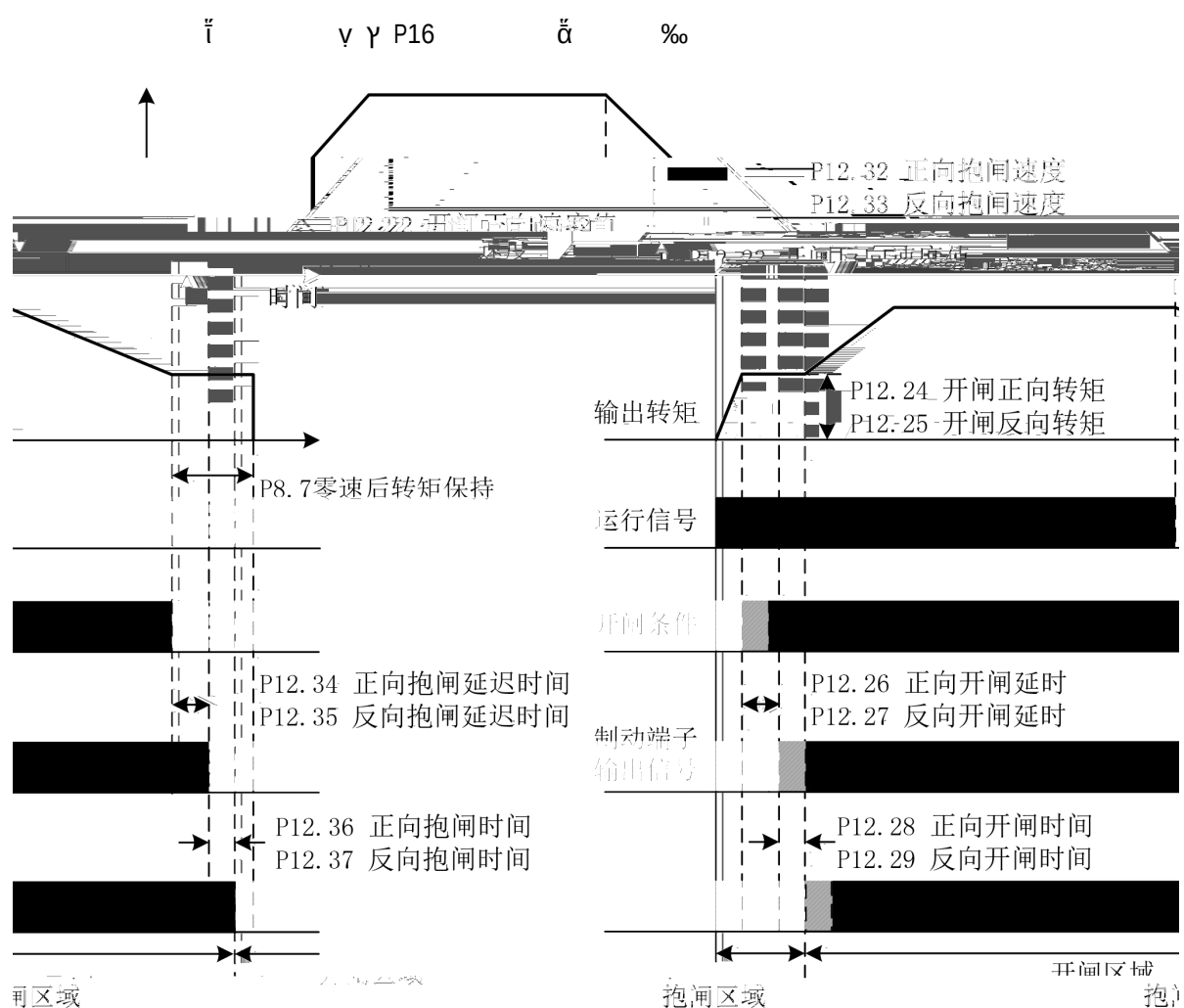
| ǎ H̃ † ∷ ǎ | ǎ

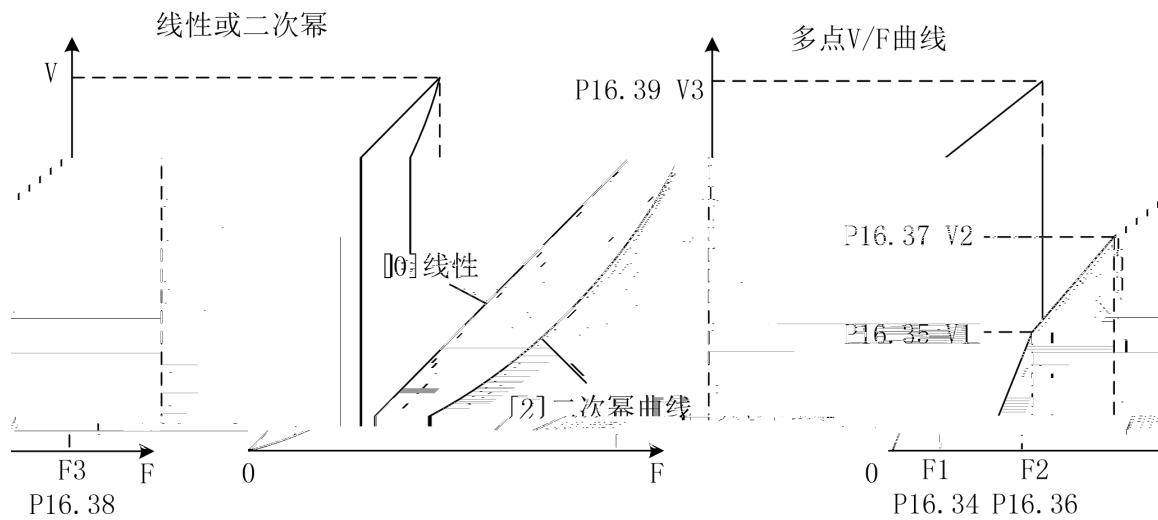
P12.32[] P12.33[ĩ] ∇ ĩ ǎ ψ

H̃

P12.28 P12.29 [ĩ L H̃ ǎ Đ |

P12.36 P12.37 [ĩ L H̃ ǎ Đ |





P16.34 P16.45 M H α V/F V/F V

V1 V2 V3 F1 F2 F3 γ 1 ~ ψ

ψ ~ ψ G

4 ē

P16.15 ē₇ V/F L Z γ α α p

V/F L ~ γ α α α ψ v

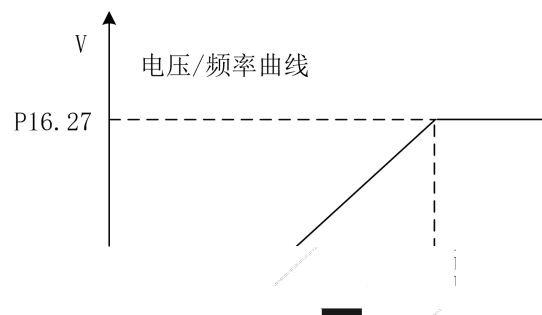
1 ~ ψ

α α

5 ē 1

P16.14=[0] V/F V/F ē 1 v P16.26 P16.26

P16.27~ γ α



P16.14=[2] H V/F ē 1 v P16.30 P16.30 P16.27

~ γ ã

6 L

P16.50 P16.56 L w No L Å L w

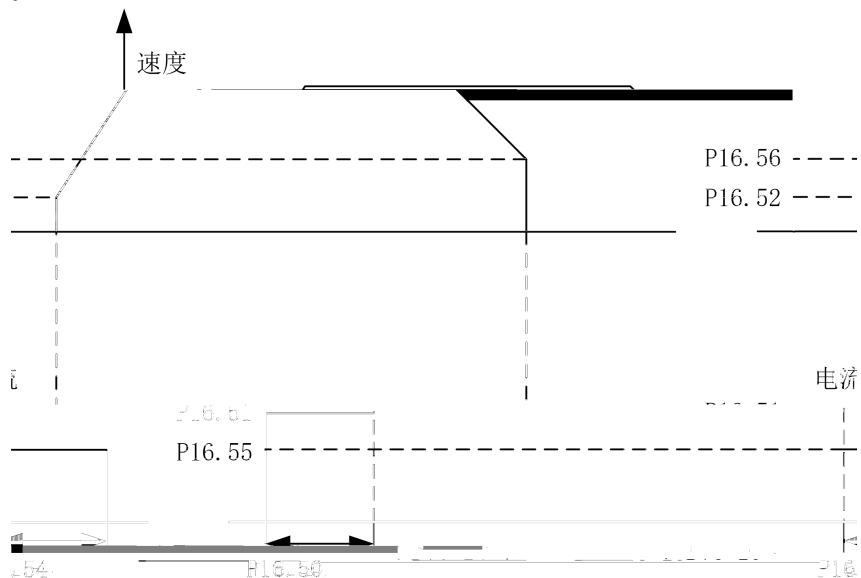
7 V/F L b

L P16.50 P16.51 P16.52 v Å

v L a ð Å 'P

Å L P16.54 P16.55 P16.56 v ÷ v ~

L a Å í r



7 L ~

P16.64 b ð " " ã

v L ~ L l "

L ψ b

8.10 L ã

1 ©

P20.0 L L © v

P20.0=0 P20.1=0 P20.2=0 † L © | L

P20.0=0 P20.1 ≠ 0 P20.2 ≠ 0 L © | L

P20.0=1 P20.1 ≠ 0 P20.2 ≠ 0 © H˘ 1 L

© H˘ 0 L

L ¢ G ψ γ | v

L v ¢ G ψ | v L v 3

a L A P16.11 [1] [2]

‰ b

P20.3 v ã P20.1 [4] ã

2 L

P20.7 L v L L

P20.8 P20.9 v7 P20.7=1

3 τ

P20.13, L b τ L

v - v

4

P20.15 ï w í a ¢ A B || w

A B p U V W p ~

í ã í

[0]

[1] a ï í p A B ε ≠

w

5

ẽ L

β w w 7 L b GDHF-PGD1 PG V

a

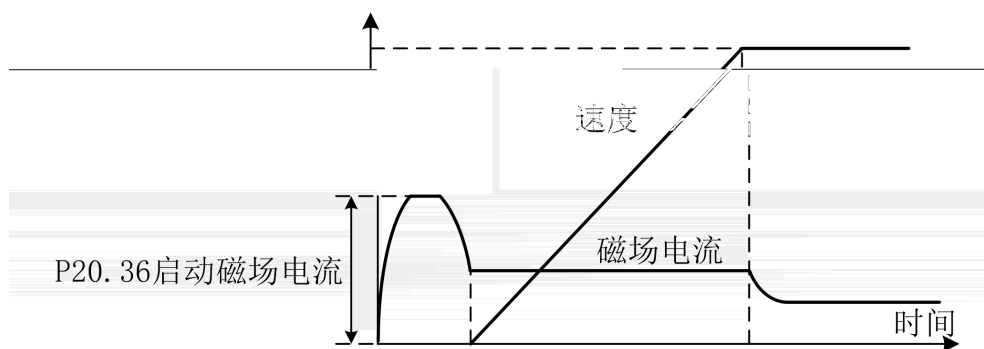
L ẽ L DI w “ [10] DP L “ CW0.9 ”
 P20.26 P20.27 γ G 0 3 ẽ L
 2% ẽ L b
 P20.34 [0] ẽ L 1 ẽ L
 0 ẽ L P20.26 P20.27 G 0 γ ẽ L
 P20.26 50% 100% P20.27 3% 5%
 P20.34 [1] ẽ L 2 ẽ L
 200 ẽ L G L ρ 7 P20.26 P20.27 G 0 K v

γ 4~

HF500LC HF500LC P20.34 [1] P20.34 [0]

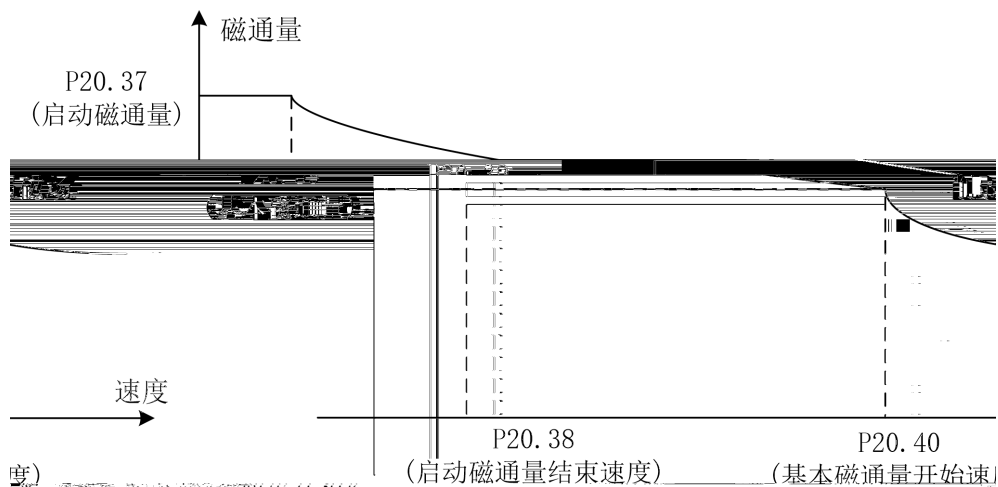
6

P20.36 L γ L ~ γ :



7

P20.37 P20.40



8

w

P20.57 P20.58 P20.59 w P20.57 1

w a P20.58 v G

P20.59 v Å w

9

P20.55 L d i 1, 7 5 i

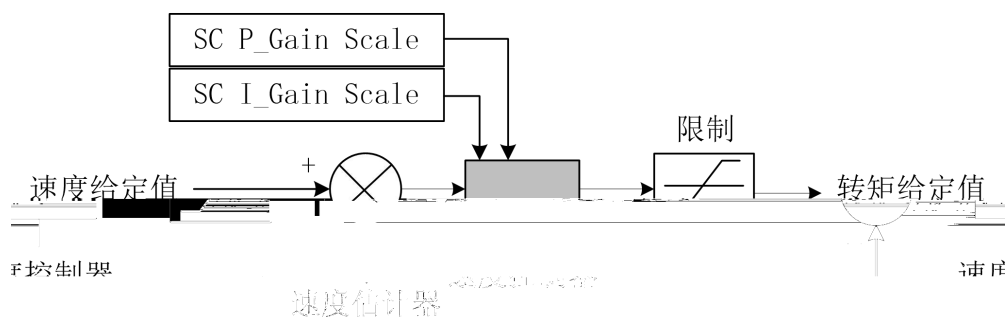
i v Z :

P20.56 L No , L

7 5 i v Z :

No % L ~

L



8.11

L	ã	ũ	7	L	ã
L	ã		v	v	
V/F L	P16.64 V/F b	L (10 40Hz) ÿ	100	80 150	z ã v ũ ã v
	P16.12		w	w ĩ A ã	ã v v ũ ã v
	P16.15 ẽ	z			v z ã a ã
	P16.26 V/F 1 z	v z	0.75	0.5 1.2	v z v ã v Dp
	P7.0 L v	Dp	150	150 220	ã v Dp ã v
L	P16.12		w	w ĩ A ã	ã v v v ũ ã v
	P7.0 L v	Dp	150	150 220	ã v Dp ã v
	P20.43		75	50 100	ã v ĩ ã v
	P20.56 No	z L ÿ	100	80 150	z ã v v ũ ã v Dp

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9.1 ¶

Å	¶	H	ı
W01	% SYS_NOT_RDY	ĩ (Ready)	% ĩ ~ ı ı
W02	ı a H~ NO_DRV_ENABLE	] ~ ĩ L H~	[ı a Đ L ĩ ~ ě
W03	LOCAL_EM	H~] ~ ĩ	[Å Đ ~ ě P3 ĩ
W04	REMOTE_EM	H~] ~ ĩ	[Å Đ ~ ě P3 ĩ
W06	OT	ĩ ~ P7.14() ı	ı ı
W09	DP P/B ALARM	DP ı	DP L β
W10	MODBUS MODBUS ALARM	Modbus	Modbus L β
W15	~ PARAMETER ERROR	~	~ ₣
W18	Temp_Sensing Fail		L
W20	ı % SLV_NOT_RDY	ı ü	L ı
W21	ı 1 SLV1_CAN_ERR	ı 1	ı 1

9.2 ¶

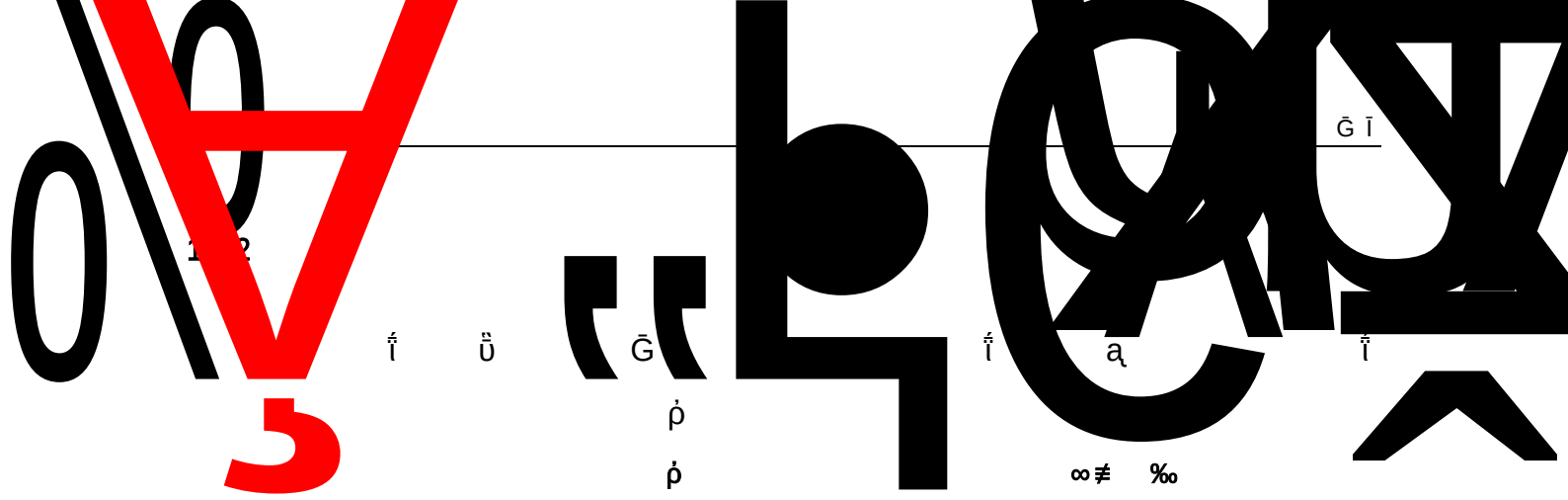
¶

¶	¶	¶
[E050]	U ERR_UT not reset	IGBT IGBT - ĩ -
[E051]	U ERR_UT not reset	IGBT IGBT - ĩ -
[E052]	V ERR_UT not reset	IGBT IGBT - ĩ -
[E053]	V ERR_UT not reset	IGBT IGBT - ĩ -
[E054]	W ERR_UT not reset	IGBT IGBT - ĩ -
[E055]	W ERR_UT not reset	IGBT IGBT - ĩ -
[E056]	Ł ERR_SLAVE_FAULT not reset	Ł
[E057]	Ŗ Ł ħ ĩ ERR_DB not reset	Ł IGBT Ł IGBT - ĩ -
[E100]	1 OV	Ł ǎ P8.35(ĩ 1) ĩ ǎ P7.12(1)
[E105]	1 UV	~ 1 1 ĩ Ł Ÿ ~ 1 ~ 1 ĩ ~ Ÿ ǎ P7.13(1)
[E110]	OC	Ÿ ĩ ĩ ĩ ĩ ǎ P7.4(Ĝ)

[E111]	OL	$\dot{I}$ $\overline{P}$ $\ddot{\alpha}$ P7.48(1) P7.49(1) $\ddot{\alpha}$ P7.48 P7.49 $\dot{I}$ $\dot{I}$
[E112]	ZC	$\ddot{\alpha}$ P7.8 $\dot{I}$ D
[E113]	~ MIP	$\dot{I}$ ~ L
[E114]	$\overline{P}$ MOP	$\dot{I}$ $\overline{P}$ $\int$
[E115]	OS	$\ddot{\alpha}$ P7.19 $\ddot{\alpha}$ P7.19 $\dot{I}$
[E116]	L SLVC Fail	∇ $\vdots$ $\ddot{\alpha}$ P7.23
[E117]	MOTOR STALL	L⁻ $\ddot{\alpha}$ P20.14 P20.15
[E118]	PG ERROR	$\ddot{\alpha}$ P20.14 P20.15
[E119]	SPEED ABNORMAL	$\ddot{\alpha}$ P20.14 P20.15 $\ddot{\alpha}$ P7.31 P7.32
[E121]	$\dot{I}$ IGBT1 OT1	$\dot{I}$ $\dot{P}$ $\dot{I}$ ' ∇
[E122]	$\dot{I}$ IGBT2 OT2	$\dot{I}$ $\dot{P}$ $\dot{I}$ ' ∇
[E123]	$\dot{I}$ IGBT3 OT3	$\dot{I}$ $\dot{P}$ $\dot{I}$ ' ∇
[E124]	$\dot{I}$ IGBT4 OT4	$\dot{I}$ $\dot{P}$ $\dot{I}$ ' ∇
[E125]	$\dot{I}$ IGBT5 OT5	$\dot{I}$ $\dot{P}$ $\dot{I}$ ' ∇
[E126]	$\dot{I}$ IGBT6 OT6	$\dot{I}$ $\dot{P}$ $\dot{I}$ ' ∇

[E127]	ĩ IGBT7 OT7	ĩ ĩ
[E128]	ĩ IGBT8 OT8	ĩ ĩ
[E137]	FAN STALL	
[E138]	TEMP_SENSING FAIL	L
[E139]	ĩ Pre_Charging Fail ĩ	ĩ ĩ ĩ ĩ ĩ P7.95
[E140]	ĩ ĩ ĩ Line UV ĩ	ĩ ĩ
[E141]	ĩ Line OPEN ĩ	ĩ ĩ
[E142]	Line Detection Error ĩ	ĩ ĩ ĩ ĩ
[E143]	ĩ Line SW Fail ĩ	DI ĩ L
[E144]	Line SW SHORT ĩ	ĩ
[E145]	ĩ (AFE) Line OV ĩ	ĩ ĩ ĩ ĩ ĩ P16.0 ĩ
[E146]	(AFE) Line Over_Freq ĩ	ĩ ĩ ĩ ĩ ĩ ĩ
[E151]	U IGBT PDP [UT]	IGBT IGBT ĩ ĩ ĩ
[E152]	U IGBT PDP [UB]	IGBT IGBT ĩ ĩ ĩ
[E153]	V IGBT PDP [VT]	IGBT IGBT ĩ ĩ ĩ

[E154]	V IGBT PDP [VB]	IGBT IGBT İ İ İ
[E155]	W IGBT PDP [WT]	IGBT IGBT İ İ İ
[E156]	W IGBT PDP [WB]	IGBT IGBT İ İ İ
[E157]	İ L İ İ PDP [DB]	W İ W İ İ İ
[E160]	İ SLAVE FAULT	İ
[E161]	İ % SLV_NOT_RDY	İ İ
[E162]	İ 1 CAN SLV1_CAN_ERR	İ İ 1
[E167]	CAN CAN_ERR	İ
[E170]	MOTOR TUNING FAIL	İ İ İ P7.33
[E180]	DP P/B ERROR	İ
[E181]	DP P/B_EM	L CW0.4
[E200]	LOCAL_EM	İ İ [İ İ] İ İ P3 İ İ
[E201]	REMOTE_EM	İ İ [İ İ] İ İ P3 İ İ
[E202]	Modbus MODBUS EMERGENCY	Modbus L CW0.4 İ İ
[E203]	İ İ İ DRIVE DISABLED	DP İ İ İ İ
[E210]	İ Panel Error	İ
[E220]	İ CRC MEMORY CRC ERR	L
[E221]	İ PARAMETER ERROR	İ



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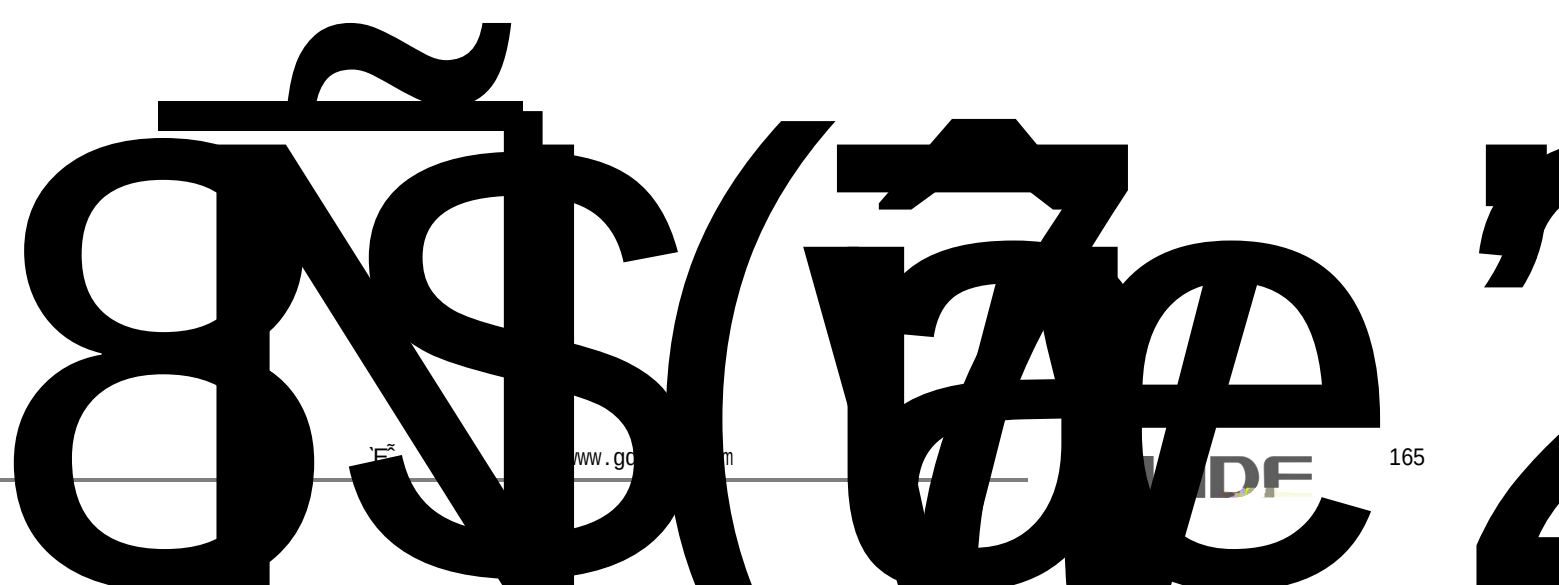
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