1.06

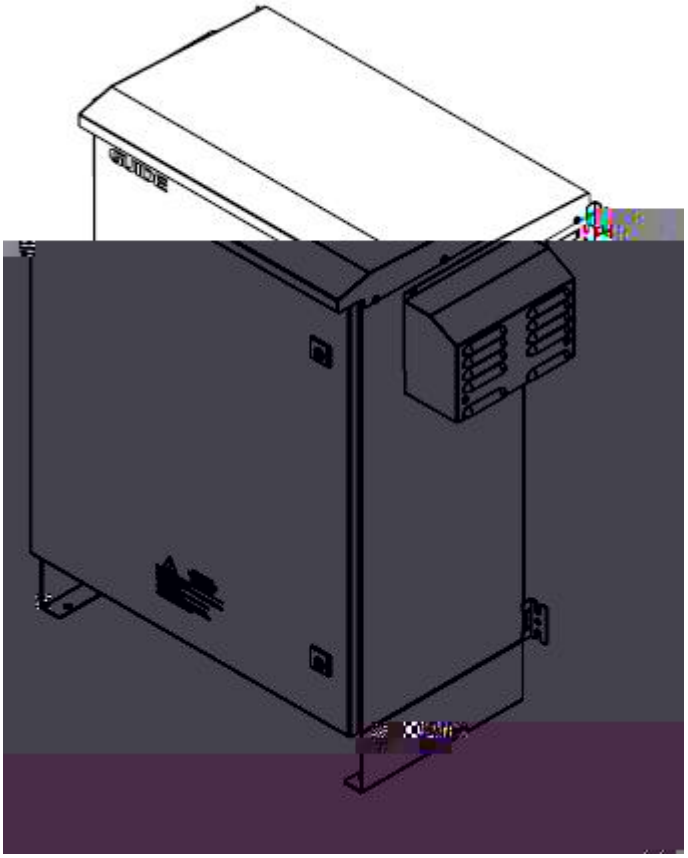
Wuhan Guide Technology Co.,Ltd.



PLC

1. 1
1.1 1
1.2 3
1.3 3
2. 4
2.1 4
2.2 4
2.3 5
2.4 7
2.5 9
2.6 10
2.7 10
3. 11
3.1 11
3.2 12
3.3 PGC1 13
3.4 PGD1 15
4. 18
4.1 18
4.2 19
4.3 19
4.4 22
4.5 23
4.6 23
4.7 24
4.8 24
4.9 EMC 25
5. 28
5.1 28
5.2 29
5.3 30
5.4 32
6. 43
6.1 43
6.2 44
6.2.1 44
6.2.2 44
6.2.3 44

7.7 1 P8 61
7.8 2 P9 64
7.9 3 P10 67
7.10 4 P11 70
7.11 1 P12 73
7.12 2 P13 75
7.13 3 P14 77
7.14 4 P15 79
7.15 1 V/F P16 81
7.16 2 V/F P17 84
7.17 3 V/F P18 87
7.18 4 V/F P19 90
7.19 1 P20 93
7.20 2 P21 98
7.21 3 P22 103
7.22 4 P23 108
7.23 MODBUS P32 113
7.24 P33 114
8. 124
8.1 124
8.2 124
8.3 125
8.4 126
8.5 126
8.6 127
8.7 129
8.8 132
8.9 V/F 133
8.10 137
8.11 141
9. 142
9.1 142
9.2 143
9.3 147
10. 148
10.1 148
10.2 149
10.3 149
10.4 150
10.5 150
10.6 151



H2

1.2

(1)

(2)

(3)

1.3

2-2

2-2

HF300-018-011-5R5-4 1 18kW 2 11kW

3 5.5kW 400V

AC

3PH

380V-480V 50/60Hz

0-480V 0-300Hz

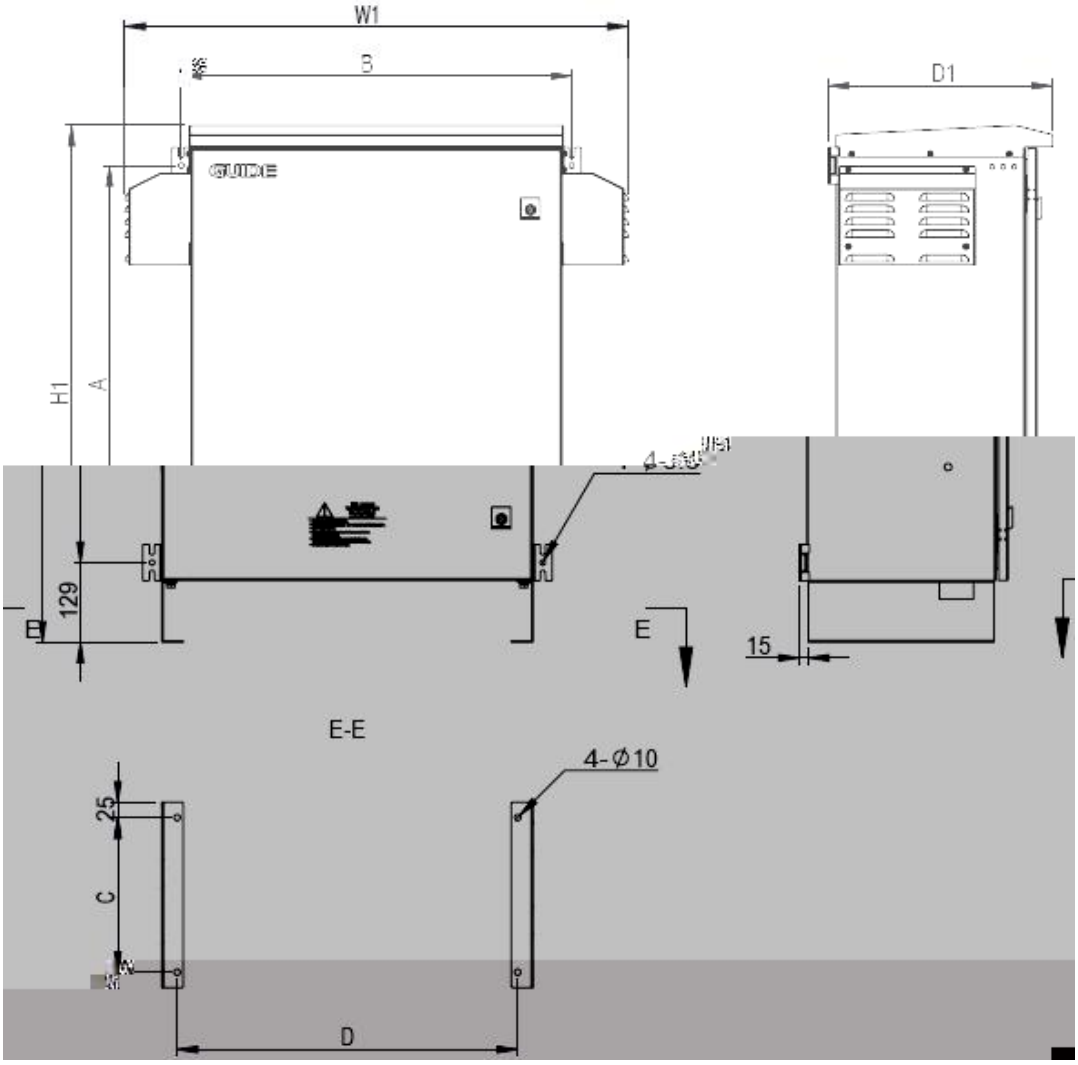
2.3

9	15KW	5.5KW	1.5KW		
10	15KW	5.5KW	2.2KW		
11	18.5KW	3.7KW	1.5KW		
12	18.5KW	3.7KW	2.2KW		
13	18.5KW	5.5KW	1.5KW		
14	18.5KW	5.5KW	2.2KW		
15	22KW	7.5KW	3.7KW		
16	22KW	7.5KW	5.5KW		
17	22KW	11KW	3.7KW		
18	22KW	11KW	5.5KW		
19	30KW	7.5KW	3.7KW		
20	30KW	7.5KW	5.5KW		H3
21	30KW	11KW	3.7KW		
22	30KW	11KW	5.5KW		
23	37KW	7.5KW	3.7KW		
24	37KW	7.5KW	5.5KW		
25	37KW	11KW	3.7KW		
26	37KW	11KW	5.5KW		
27	45KW	15KW	7.5KW		
28	45KW	15KW	11KW		
29	45KW	18.5KW	7.5KW		
30	45KW	18.5KW	11KW		
31	55KW	15KW	7.5KW		
32	55KW	15KW	11KW		H4
33	55KW	18.5KW	7.5KW		
34	55KW	18.5KW	11KW		
35	75KW	15KW	7.5KW		
36	75KW	15KW	11KW		
37	75KW	18.5KW	7.5KW		
38	75KW	18.5KW	11KW u		m" N

2-4 Ö

5.5KW	14A	5.5KW
7.5KW	18A	7.5KW
11KW	26A	11KW
15KW	33A	15KW
18.5KW	38A	18.5KW
22KW	50A	22KW
30KW	65A	30KW
37KW	78A	37KW
45KW	92A	45KW
55KW	115A	55KW
75KW	155A	75KW

2.4



2.6

(1) 180%
(2) 40% HF300

(3) HF300

2.7

GDHF-ES1 LED

3.

- -15 +40 +40 +50 1
  2%
- 95%RH

3.3 PGC1

GDHF-PGC1 PG 12

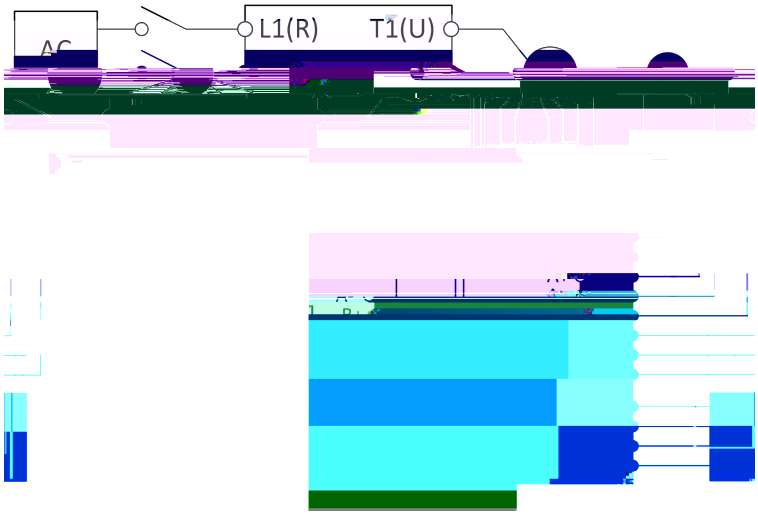
+15V	GND	A+	A-	B+	B-	Z+	Z-

AO	COM	BO	COM

+15V,GND		…	15V ± 5%	300mA
A+,A- B+,B- Z+,Z-		0-80kHz	0-15V	…
AO,COM BO,COM		0-50kHz	0-24V	…

PE PE

PGC1



1 PG

2 PG

3 PE

4 PG A- B- Z- GND

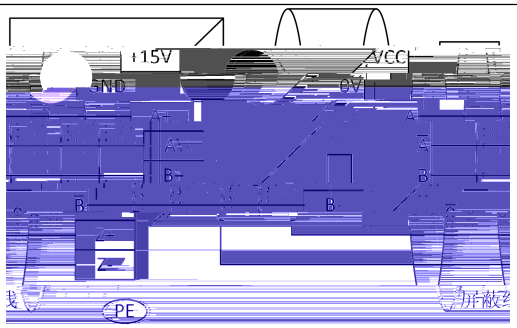
5 PGC1 15V RS-422

PGC1

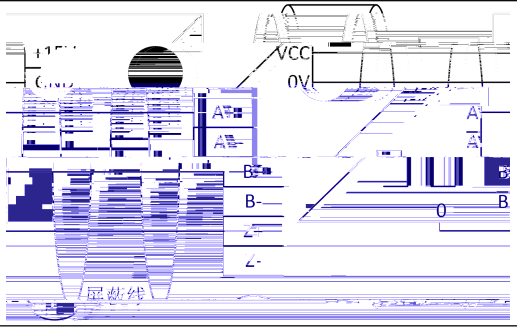
15V

1

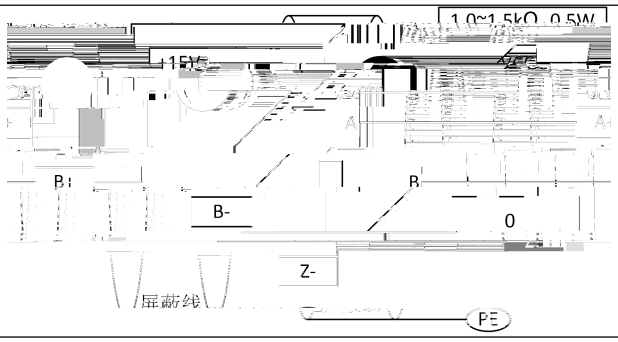
a

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

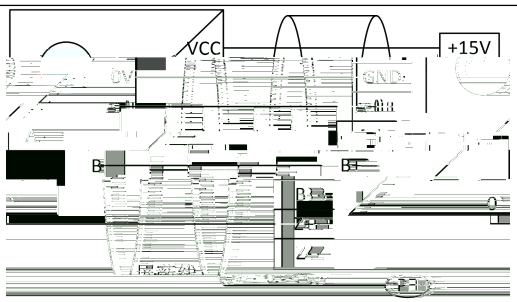
b

		
		HLE45-600L-3F.AC
		RVI78N-10CALA31N-1024
		EC120P45-P6PR-1024

2

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

3

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

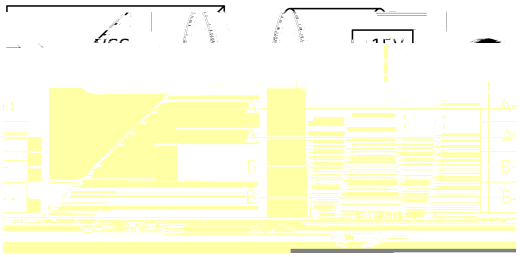
2 PG

3 PE

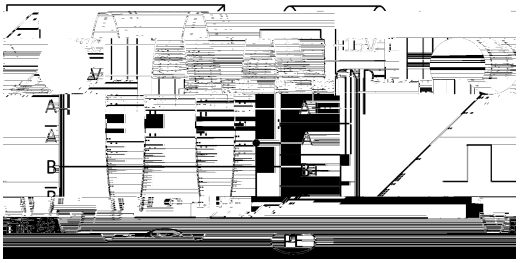
PGD1

1

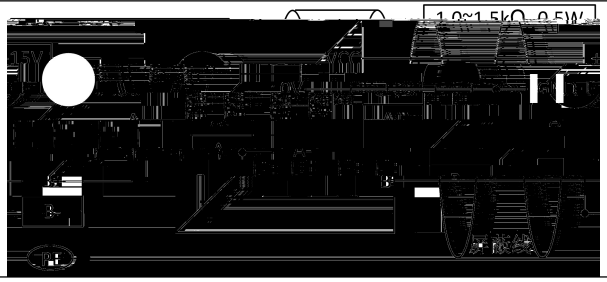
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		HLE45-1024L-6F.AC
		RHI90N-ONAK1R61N-1024
		EC120P45-H6PR-1024

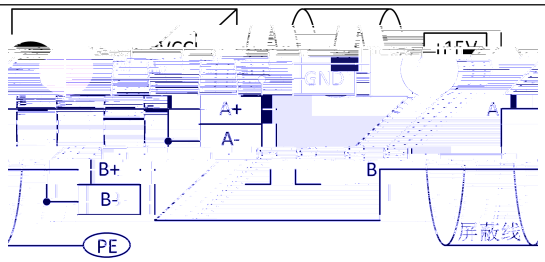
b

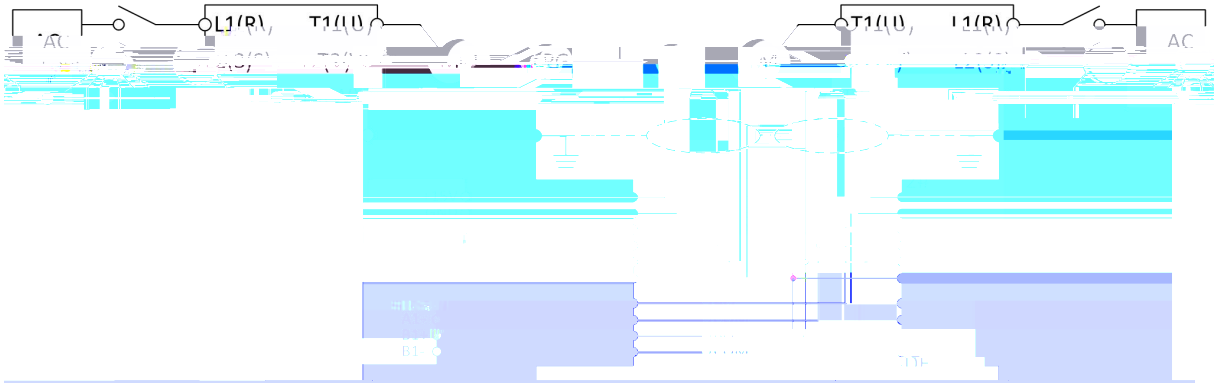
		
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		RVI78N-10CALA31N-1024
		EC120P45-P6PR-1024

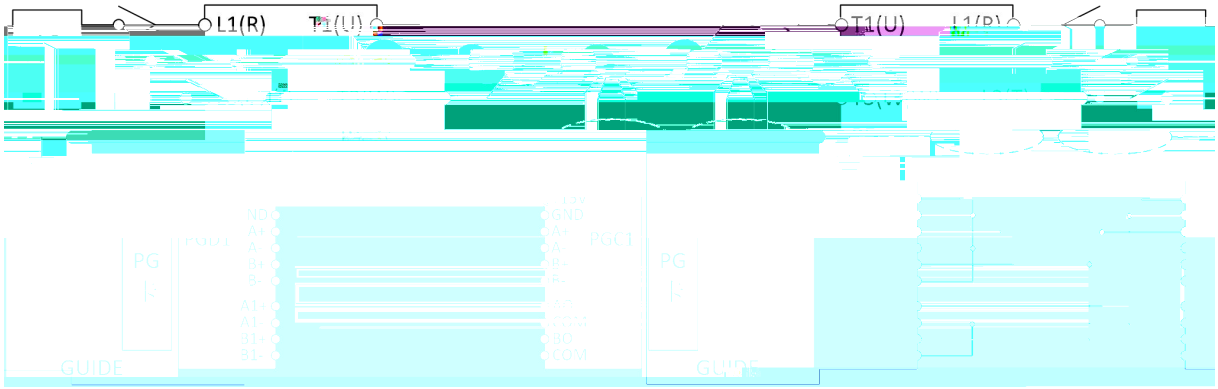
2

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

3

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





4.

4.1

1

2 10

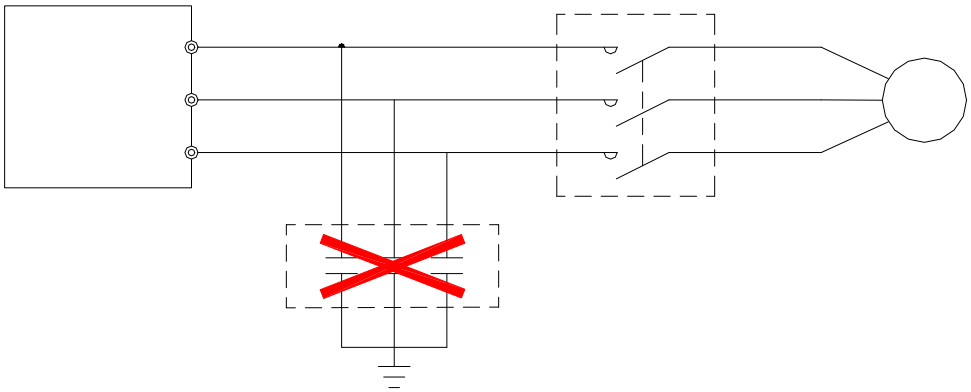
3 U V W

4

5

6

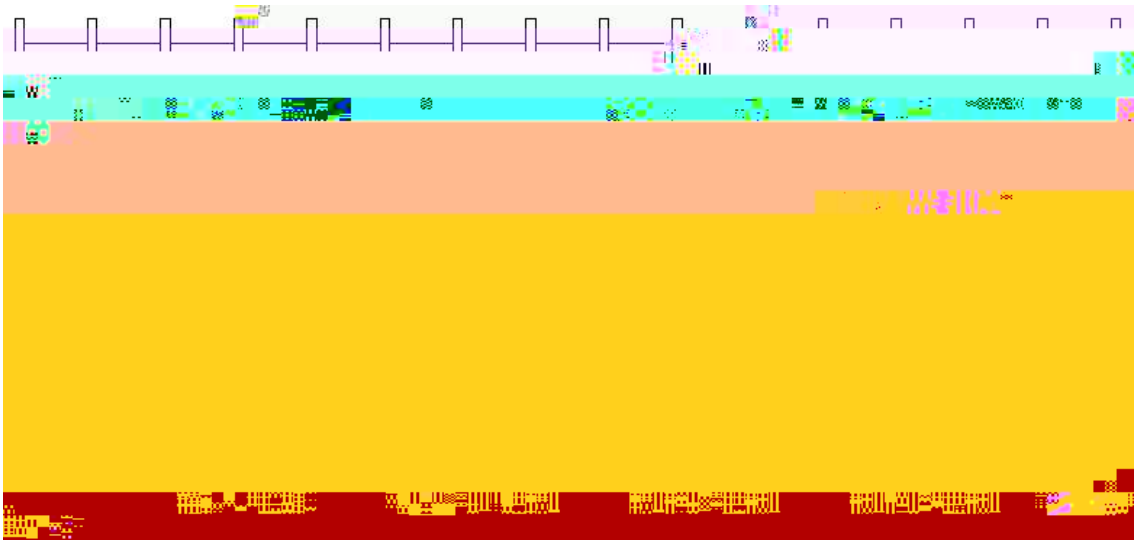
7 U V W 4-1



14

15 30 m

4.2



L1 L2 L3	
U1 V1 W1	
U2 V2 W2	
U3 V3 W3	
R1 R2	
PE	

4.3

1 1

2 1

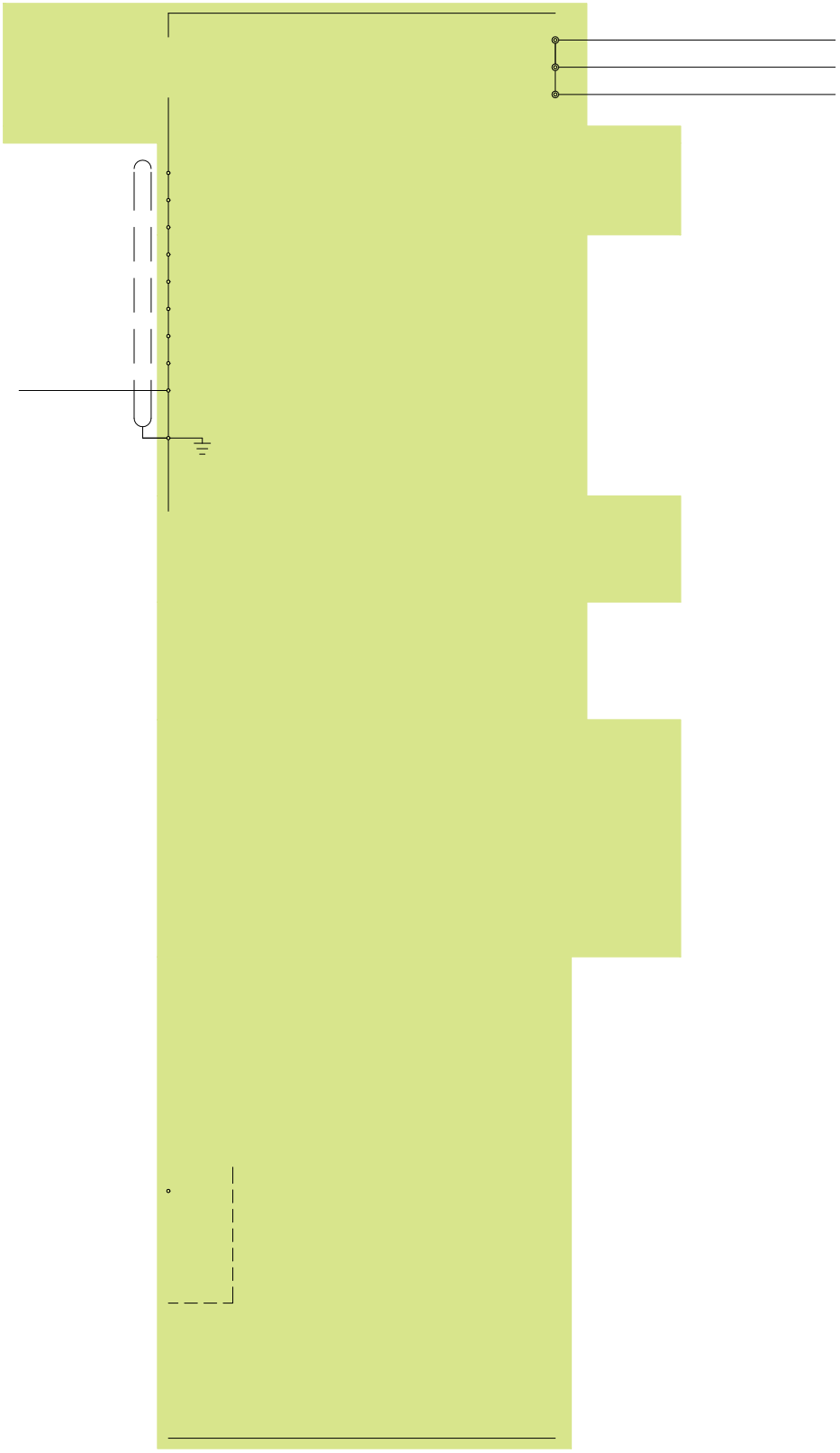
3 1 1

4 1 2

5	1		1
6	1		2
7	1		
8	1		
9	1		
10	1		
11	1		
12	1		
13	1		
14	1		
15	1		
16	2		
17	2		
18	2	1	
19	2	2	
20	2		1
21	2		2
22	2		
23	2		
24	2		
25	3		
26	3		
27	3	1	
28	3	2	
29 ' 1 € Ö	j ´ 3 4ø&é€} /		

32	3	
33	3	
34		L
35		L

4.4



4.5



4.7

A mH

030	30kW	20Ω	15000W
037	37kW	16Ω	19000W
045	45kW	13.6Ω	23000W
055	55kW	13.6Ω	28000W
075	75kW	13.6Ω	38000W

HF300-030-011-5R5-4 30KW 030

20Ω 15000W

4.9 EMC

1 EMC

EMC electromagnetic compatibility

EMC

EMC

EMC

EMC

EMC EMC

2 EMC

c

EMC

d

50m

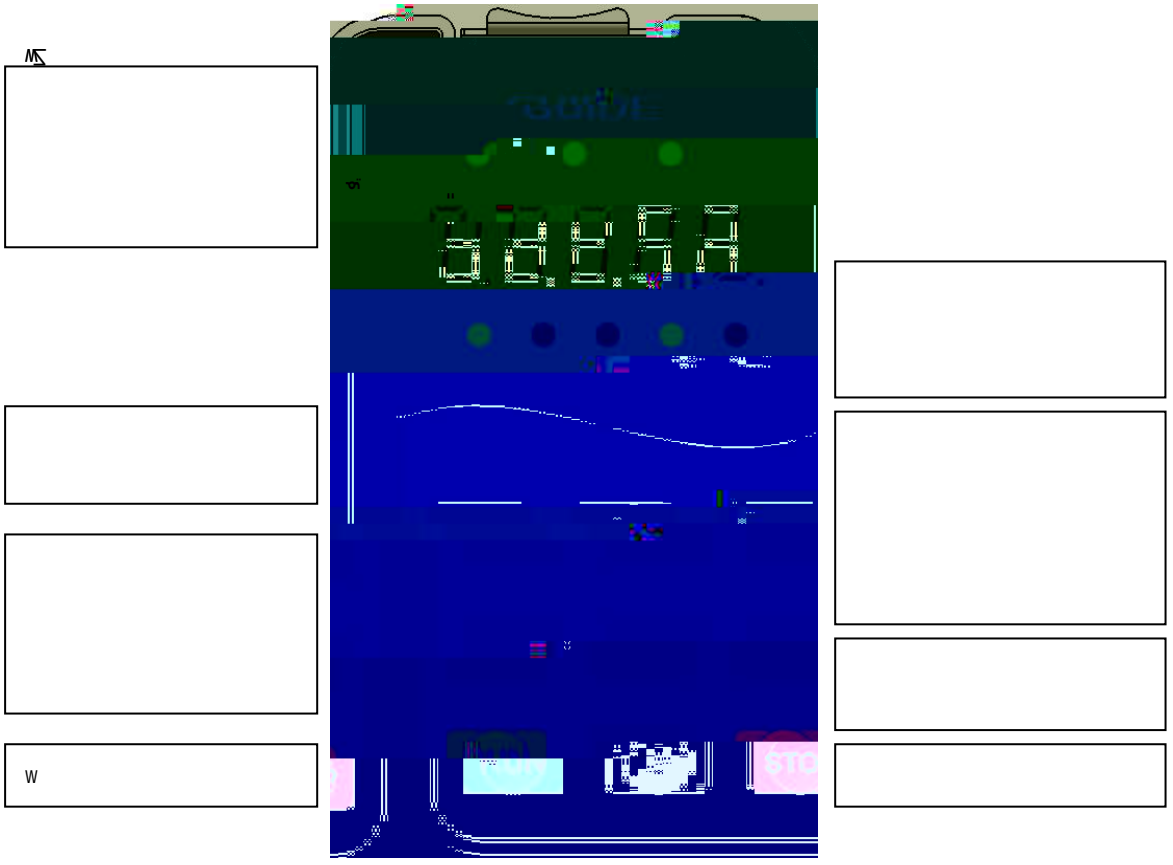
e

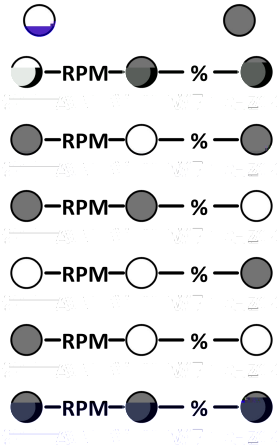
5.

5.1

HF300 ESC RUN

STOP FWD/REV LOCAL/REMOTE /RESET ENTER





HZ

A

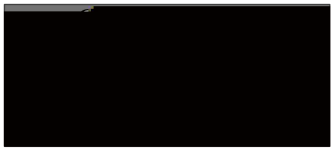
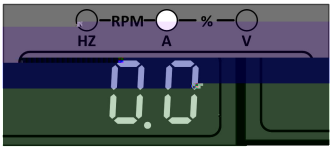
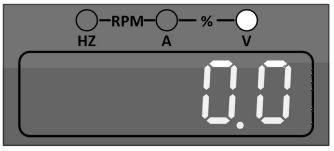
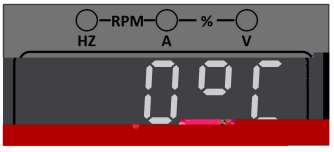
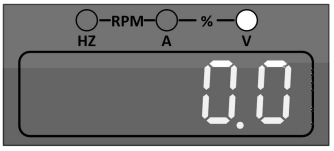
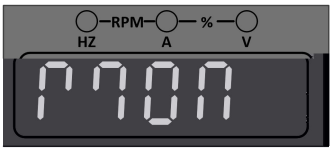
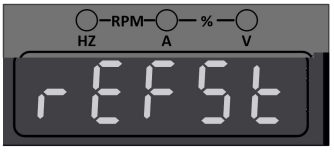
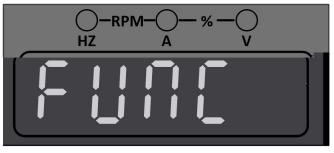
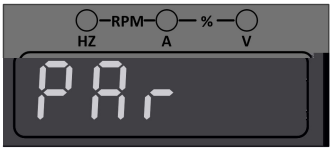
V

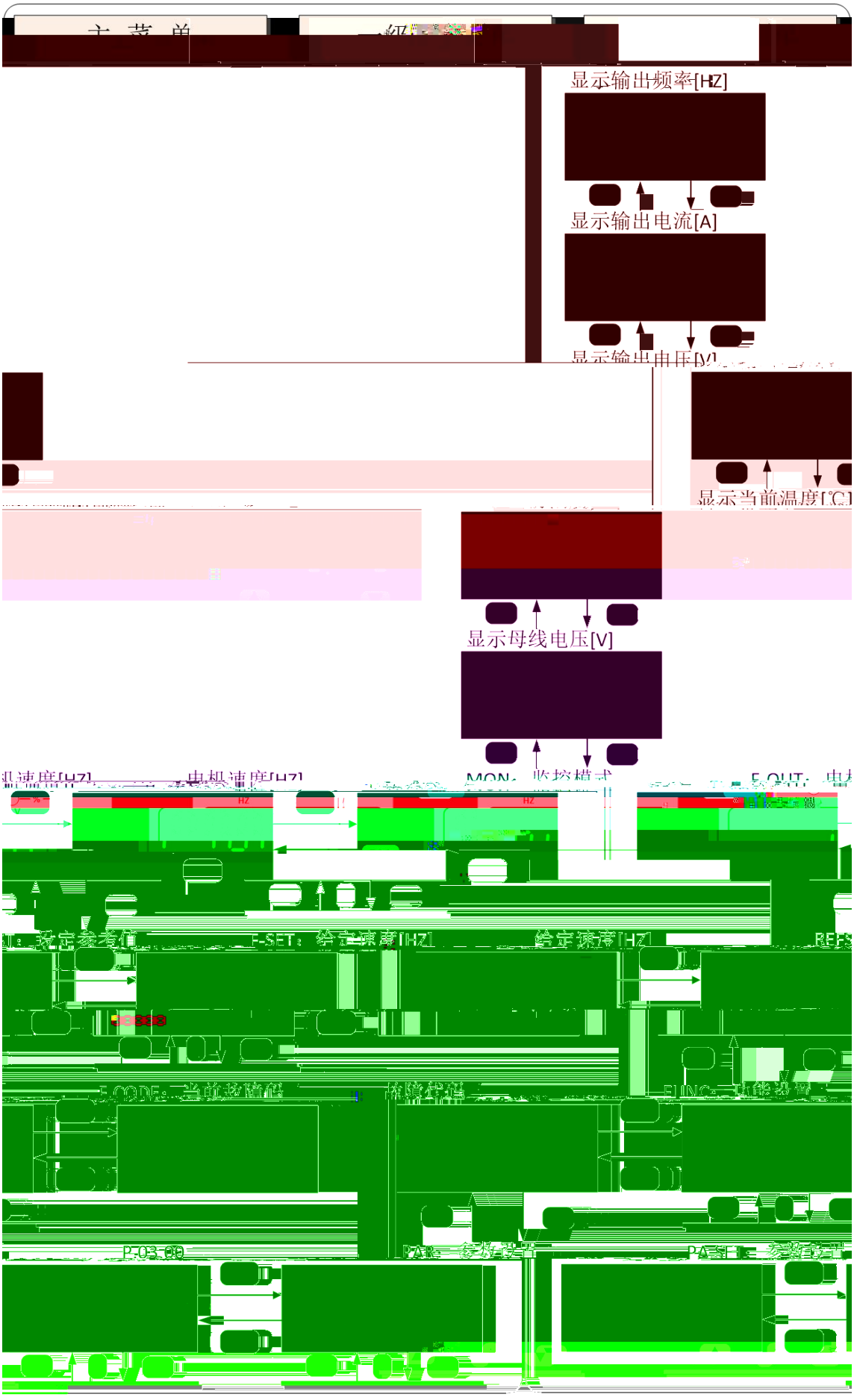
RMP

%

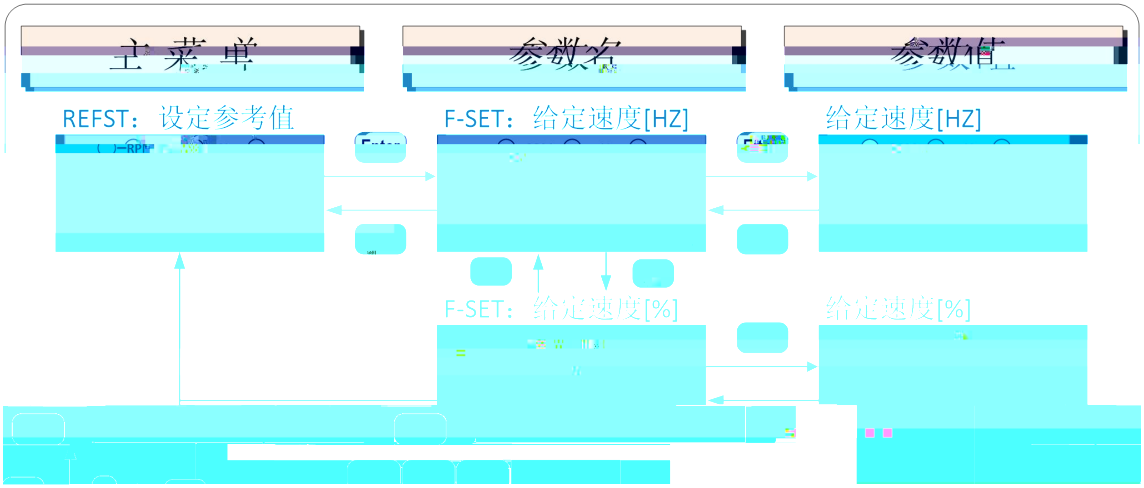
	LED		LED		LED		LED
0		A		K		U	
1		B		L		V	
2		C		M		W	
3		D		N		X	
4		E		O		Y	
5		F		P		Z	
6		G		Q		°	
7		H		R			
8		I		S			
9		J		T			

5.3

LED		
		HZ
		A
		V
		
		V
	MON	(I/O)
	REFST	
	FUNC	
	PAR	


显示输出频率[HZ]
显示输出电流[A]
显示当前温度[℃]
显示母线电压[V]

2 REFST



REFST	F-SET		[Hz]	Hz
	F-SET		[%]	%
	T-SET		[%]	%
	TLIM		[%]	%
	A1SET	1	[%]	1
	A2SET	2	[%]	2

3 FUNC

FUNC

ENTER



FUNC

F.CODE

F.RST

F.HIS

F.CLR

SY.RST

DATE

DR.VER

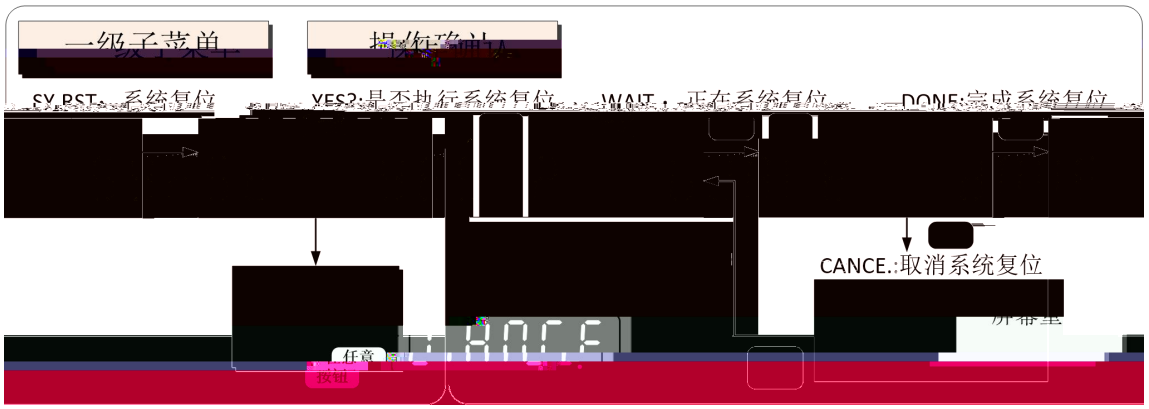
P? v

SY.RST ENTER YES ?

ENTER WAIT.

DONE

CANCE.

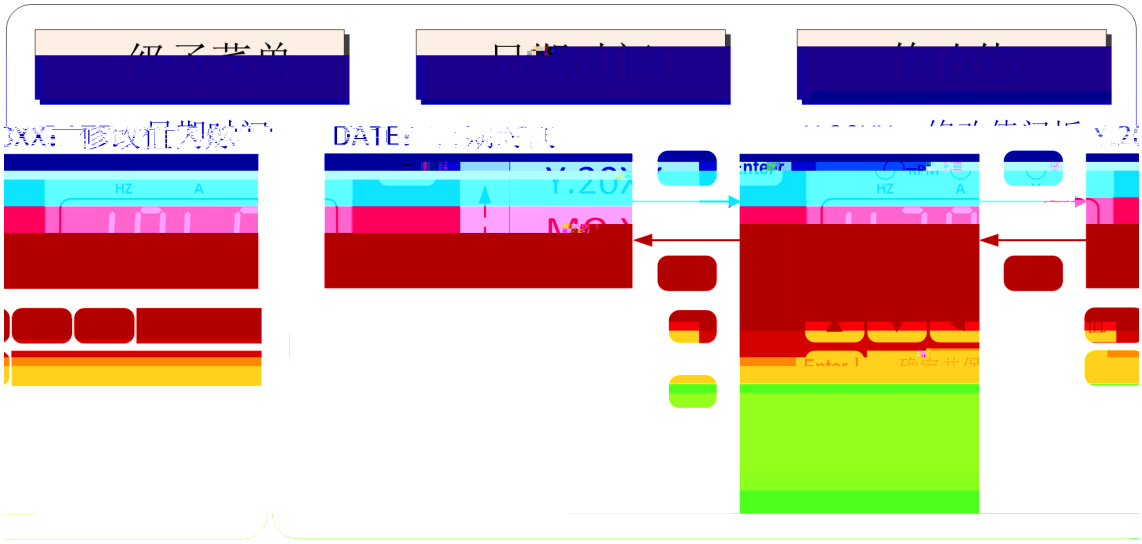


DATE ENTER

ENTER

ENTER

DATE	Y.20XX		20XX
	MO.XX		XX
	DAY.XX		XX
	XXXX.		MON. TUES. WED. THUR. FRI. SAT. SUN.
	H.XX		XX
	M.XX		XX
	S.XX		XX



PA.SET ENTER “P.AA.BB”

AA BB

SE 4 .

` Z» ENTER “

N

ENT

QK.SET	P.16.02	
	P.16.03	
	P.16.04	
	P.16.05	
	P.16.06	
	P.16.07	
	P.16.09	
	P.16.11	
	P.16.14	V/F
	P.16.24	
	P.08.16	1
	P.08.35	1
	P.08.00	
	P.08.10	
	P.08.03	
	P.07.00	[1]
	P.07.04	[1]
	P.07.19	[1]

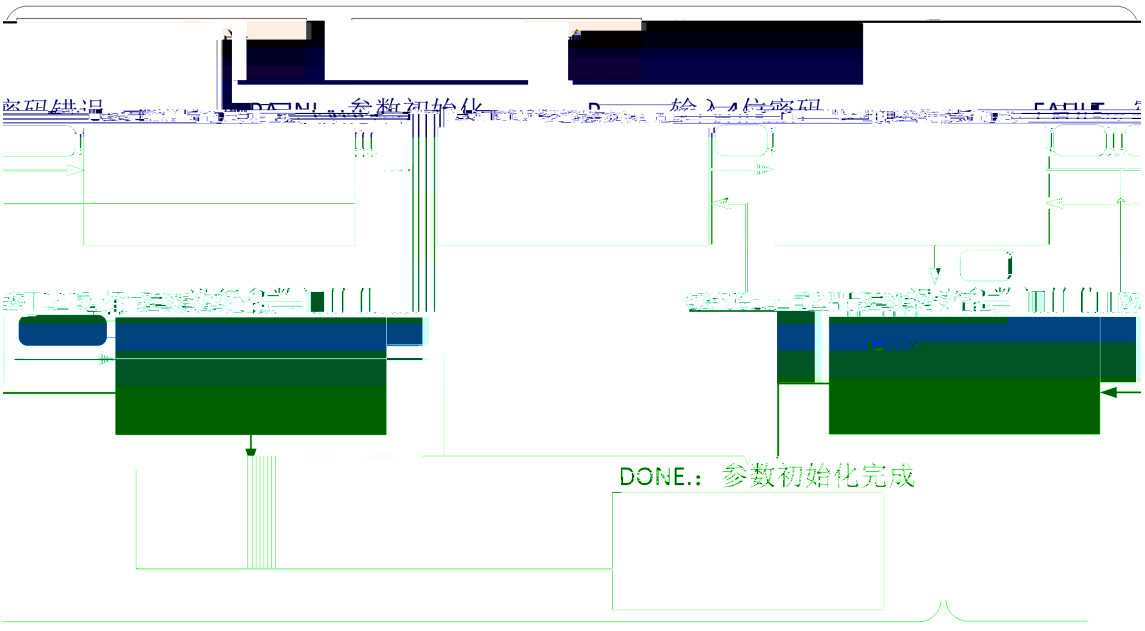
PA.INI ENTER

“P.----”

“WAIT.”

“DONE” “FAULT”

ESC



TUNE.1 TUNE.2 TUNE.3 TUNE.4

(AFE)

“TUNE.X” ENTER

“TX.PRC.” “TX-OK”

“YES ?”

ENTER “TX.PRC.”

“TX.PRC.” ESC

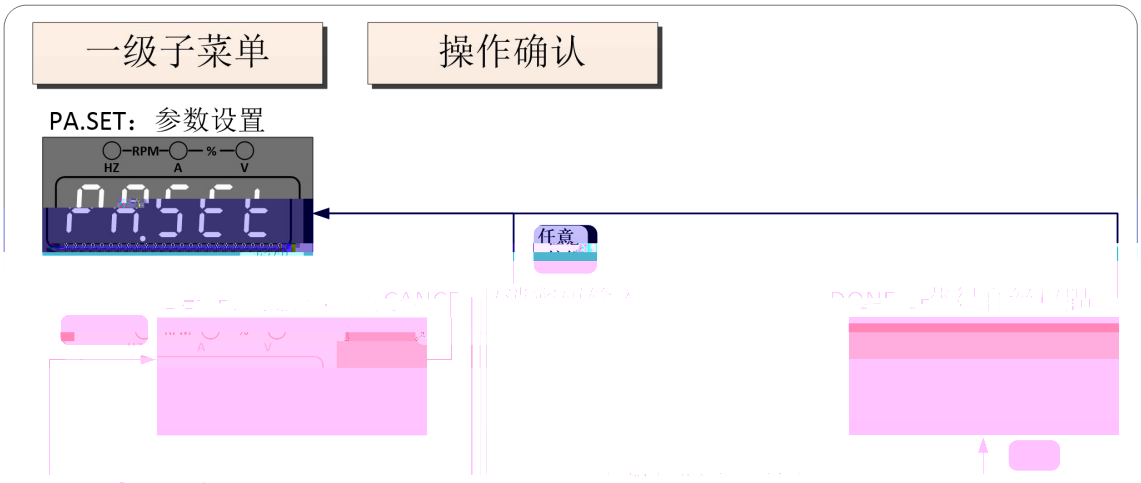
ENTER

“TX.PRC.” “TX-OK”

TUNE.1

PASW.

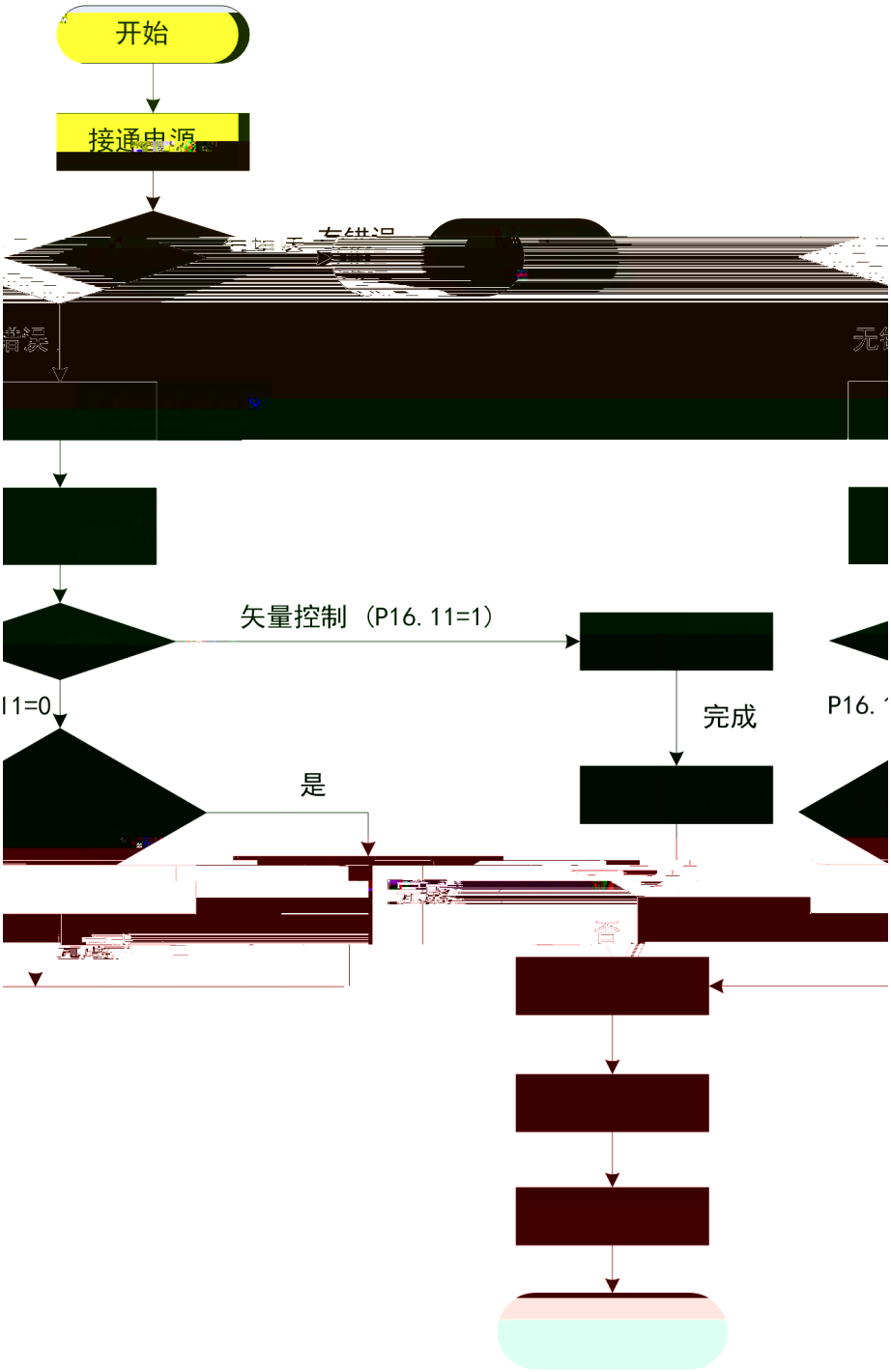
PA.SET



P.LOCK

6.

6.1



/

V/F P16.11=0 V/F

P16.11=2 P16.11=1

6.2

6.2.1

1

AC380~480V 50/60Hz

2 U,V,W

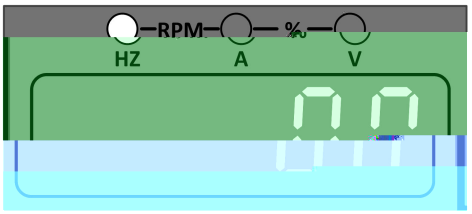
3 185kW

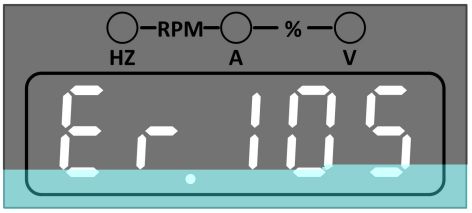
4

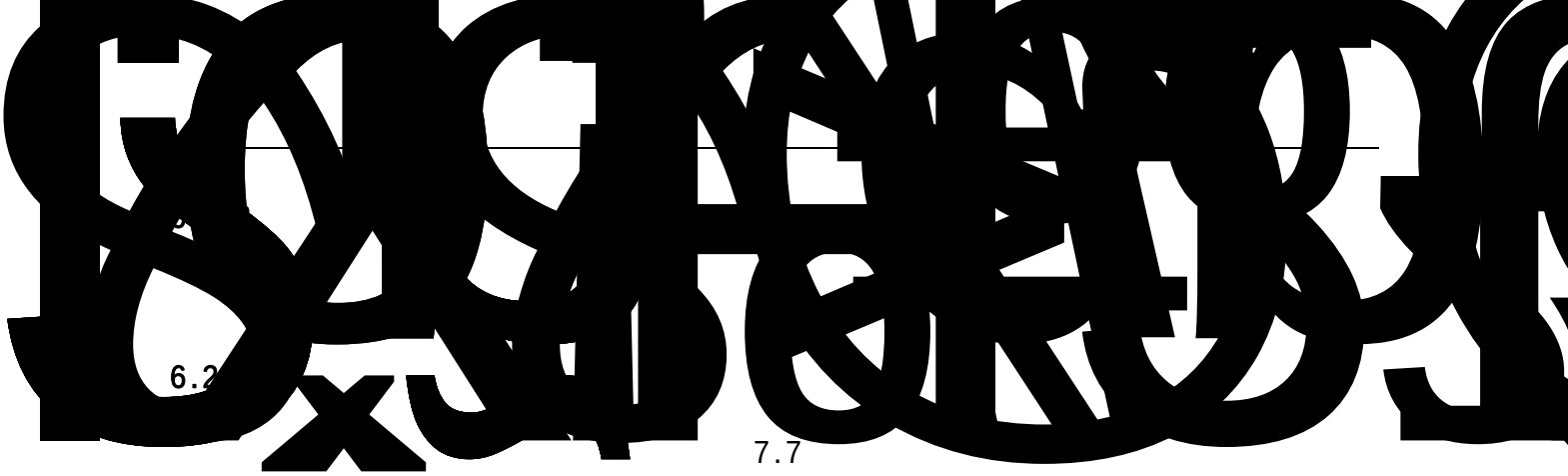
5 PG PG

6

6.2.2






6.2
7.7

P16.0		
P16.2		
P16.3		
P16.4		
P16.5		
P16.6		
P16.7		120 × P16.5 / P16.6
P16.9		120 × P16.5/P16.7
P16.11		[0]V/F [1] [2]

6.2.5

w1

Aî P16.11 .61

1

2

6.2.9

LED

LCD LCD

สารบัญ

7.3 P4

18		1	2		
19		2	3		
20		3	4		
21	FUNC 21				
22					
23					
24 31	FUNC 24 FUNC 31				
32			AFE		
33 48	FUNC 33 FUNC 48				
49	PROFIBUS	1		PROFIBUS	1
50	PROFIBUS	2		PROFIBUS	2
51	PROFIBUS	3		PROFIBUS	3
52	PROFIBUS	4		PROFIBUS	4
53	PROFIBUS	5		PROFIBUS	5
54 56	FUNC 54 FUNC 56				
57		1			
58		2			
59		3			
60		4			
61			1		1
62			2		2
63			3		3
64			4		4

P5.19	AI2	AI2	0.0 1000.0 [ms]	25.0 [ms]	
P5.20	AI2	AI2	-10.00 10.00 [V]	0.000 [V]	
P5.21	AI2	AI2	-20.00 20.00 [mA]	0.000 [mA]	
P5.22	AI2	AI2	-10.00 10.00 [V]	0.000 [V]	
P5.23	AI2	AI2	0.00 20.00 [mA]	0.000 [mA]	
P5.24	AI2	AI2	-300.0 300.0 [%]	0.0 [%]	
P5.25	AI2	AI2	-10.00 10.00 [V]	10.000 [V]	
P5.26	AI2	AI2	0.00 20.00 [mA]	20.000 [mA]	
P5.27	AI2	AI2	-300.0 300.0 [%]	100.0 [%]	

7.5 P6



P6.21	AO2	AO2 (P6.14 [13])	0.0 100.0 [%]	0.0 [%]	
P6.22	AO2	AO1	0.0 1000.0 [ms]	10.0 [ms]	

7-1

0		
1		
2		
3		
4		
5		
6		
7		
8	(%)	( )
9		
10		
11	(%)	(150)
12	DP	Profibus
13		P6.7 P6.21
14		

7.6 P7

P7.0	[1]	1	0.0 [%]	300.0 [%]	180.0 [%] 8.6
P7.1	[2]	2	0.0		

7.7 1 P8

	[0]			
	[1]			
P8.0	[2]DP	0	4	0
	[3]MODBUS			
	[4]			

3]WODBՈ/Ι A > 0

SIÐ W „ R

P8.18	2	P8.15	P8.17		0.0 [s]	300.0 [s]	4.00	8.7
P8.19	3				0.0 [%]	300.0 [%]	240.0	8.7
P8.20	3	P8.17	P8.19	≤	0.0 [s]	300.0 [s]	7.00	8.7
P8.21	4							

P8.37	2	P8.34 P8.36	0.0 300.0 4.00 [s] [s]	8.7
P8.38	3		0.0 300.0 240.0 [%] [%]	8.7
P8.39	3	P8.36 P8.38	0.0 300.0 7.00 [s] [s]	8.7
P8.40	4		0.0 300.0 300.0 [%] [%]	8.7
P8.41	4	P8.38 P8.40	0.0 300.0 10.00 [s] [s]	8.7
P8.42	5		0.0 300.0 300.0 [%] [%]	8.7
P8.43	5	P8.40 P8.42	0.0 300.0 10.00 [s] [s]	8.7
P8.44	6		0.0 300.0 300.0 [%] [%]	8.7
P8.45	6	P8.42 P8.44	0.0 300.0 10.00 [s] [s]	8.7
P8.46	7		0.0 300.0 300.0 [%] [%]	8.7
P8.47	7	P8.44 P8.46	0.0 300.0 10.00 [s] [s]	8.7
P8.48	8		0.0 300.0 300.0 [%] [%]	8.7
P8.49	8	P8.46 P8.48	0.0 300.0 10.00 [s] [s]	8.7
P8.54			0.0 300.0 0.0 [%] [%]	
P8.55		[0] [1]	0 1 0	
P8.56			0.00 300.00 3.00 [s] [s]	
P8.57		[0] [1]	0 1 1	
P8.58			0.00 300.00 1.50 [s] [s]	

7.8 2 P9

P9.0		[0] [1] [2]DP [3]MODBUS [4]	0 4	0	
P9.1					
P9.2					
P9.3		[0] [1]	0 1	0	8.7
P9.6			0.00 300.00 [s]	0.00 [s]	8.7
P9.7			0.00 300.00 [s]	0.00 [s]	8.7
P9.10		[0]I/O [1] 1 [2] 2 [3] [4]DP [5]MODBUS [6]	0 6	0	
P9.11					
P9.13		[0] [1]PROFIBUS [2]MODBUS [3]	0 3	0	8.7
P9.14			0.1 10.0	1.0	8.7
P9.15	1		0.0 300.0 [%]	100.0 [%]	8.7
P9.16	1	P9.15	0.0 300.0 [s]	3.00 [s]	8.7
P9.17	2		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			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			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		[0] [1]PROFIBUS [2]MODBUS [3]		0 3	0	8.7
P9.33						

7.9 3 P10

P10.0		[0] [1] [2]DP [3]MODBUS [4]	0 4	0	
P10.1					
P10.2					
P10.3		[0] [1]	0 1	0	8.7
P10.6			0.00 300.00 [s]	0.00 [s]	8.7
P10.7			0.00 300.00 [s]	0.00 [s]	8.7
P10.10		[0]I/O [1] 1 [2] 2 [3] [4]DP [5]MODBUS [6]	0 6	0	
P10.11					
P10.13		[0] [1]PROFIBUS [2]MODBUS [3]	0 3	0	8.7
P10.14			0.1 10.0	1.0	8.7
P10.15	1		0.0 300.0 [%]	100.0 [%]	8.7
P10.16	1	P10.15	0.0 300.0 [s]	3.00 [s]	8.7
P10.17	2		0.0 300.0 [%]	200.0 [%]	8.7

P10.18	2	P10.15	P10.17	0.0 300.0 [s]	4.00 [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 [s]	7.00 [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 [s]	10.00 [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 [s]	10.00 [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 [s]	10.00 [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 [s]	10.00 [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 [s]	10.00 [s]	8.7
P10.32		[0] [1]PROFIBUS [2]MODBUS [3]		0 3	0	8.7
P10.33				0.1 10.0	1.0	8.7
P10.34	1			0.0 300.0 [%]	100.0 [%]	8.7
P10.35	1	P10.34		0.0 300.0 [s]	3.00 [s]	8.7
P10.36	2			0.0 300.0 [%]	200.0 [%]	8.7

7.10 4 P11

P11.0	[0] [1] [2]DP [3]MODBUS [4]	0	4	0	
P11.1					
P11.2					
P11.3	[0] [1]	0	1	0	8.7
P11.6		0.00	300.00		

P11.37	2	P11.34 P11.36	0.0 300.0 [s]	4.00 [s]	8.7
P11.38	3		0.0 300.0 [%]	240.0 [%]	8.7
P11.39	3	P11.36 P11.38	0.0 300.0 [s]	7.00 [s]	8.7
P11.40	4		0.0 300.0 [%]	300.0 [%]	8.7
P11.41	4	P11.38 P11.40	0.0 300.0 [s]	10.00 [s]	8.7
P11.42	5		0.0 300.0 [%]	300.0 [%]	8.7
P11.43	5	P11.40 P11.42	0.0 300.0 [s]	10.00 [s]	8.7
P11.44	6		0.0 300.0 [%]	300.0 [%]	8.7
P11.45	6	P11.42 P11.44	0.0 300.0 [s]	10.00 [s]	8.7
P11.46	7		0.0 300.0 [%]	300.0 [%]	8.7
P11.47	7	P11.44 P11.46	0.0 300.0 [s]	10.00 [s]	8.7
P11.48	8		0.0 300.0 [%]	300.0 [%]	8.7
P11.49	8	P11.46 P11.48	0.0 300.0 [s]	10.00 [s]	8.7
P11.54			0.0 300.0 [%]	0.0 [%]	
P11.55		[0] [1]	0 1	0	
P11.56			0.00 300.00 [s]	3.00 [s]	
P11.57		[0] [1]	0 1	1	
P11.58			0.00 300.00 [s]	1.50 [s]	

7.11 1 P12

P12.0		[0] [1]	0 1	1	8.8
P12.1		[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			0.0 20.0 [%]	2.0 [%]	8.8
P12.23			0.0 20.0 [%]	0.0 [%]	8.8
P12.24			0.0 200.0 [%]	30.0 [%]	8.8
P12.25			0.0 200.0 [%]	20.0 [%]	8.8
P12.26			0.00 2.00 [s]	0.00 [s]	8.8

7.12 2 P13

P13.0		[0] [1]	0	1	1	8.8	
P13.1		[0][%] [1][Hz] [2][rpm]	0	2	1		
P13.2	1		0.0	3000.0	10.0	8.13.2v	D æ("îλ ðĎ'
P13.3	2		0.0		D0		

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

7.14 4 P15

P15.0		[0] [1]	0	1	1	8.8
P15.1		[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						

P15.27	0.00 [s]	2.00 [s]	0.00 [s]	8.8
P15.28	0.00 [s]	2.00 [s]	0.07 [s]	8.8
P15.29	0.00 [s]	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 [s]	2.00 [s]	0.00 [s]	8.8
P15.35	0.00 [s]	2.00 [s]	0.00 [s]	8.81
P15.36				

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

P16.48		[0] [1]PID 1 [2]PID 2 [3]	0 3	0	
P16.49	@		0 300	0	
P16.50			0.00 300.00 [s]	0.00 [s]	8.9
P16.51			0.0 150.0 [%]	70.0 [%]	8.9
P16.52			0.00 5.00 [Hz]	0.00 [Hz]	8.9
P16.54			0.00 300.00 [s]	0.00 [s]	8.9
P16.55			0.0 150.0 [%]	75.0 [%]	8.9
P16.56			0.00 5.00 [Hz]	0.00 [Hz]	8.9
P16.59			0.0 1000.0 [%]	100.0 [%]	
P16.60			0.0 1000.0 [%]	100.0 [%]	
P16.61			0.0 1000.0 [%]	100.0 [%]	
P16.62			0.0 1000.0 [%]	100.0 [%]	
P16.64	V/F	V/F	0.0 1000.0 [%]	100.0 [%]	8.9
P16.66		V/F	0.0 1000.0 [%]	100.0 [%]	
P16.67			0.0 1000.0 [%]	100.0 [%]	
P16.68			0.0 1000.0 [%]	100.0 [%]	
P16.69			0.0 1000.0 [%]	100.0 [%]	
P16.70			0.0 1000.0 [%]	100.0 [%]	

7.16 2 V/F P17

P17.0			320 460 [V]	380 [V]	
P17.2			0.0 4000.0 [kW]	 [kW]	
P17.3			320 460 [V]	380 [V]	
P17.4			0.0 6500.0 [A]	 [A]	
P17.5			0.0 300.0 [Hz]	50.0 [Hz]	
P17.6			0 6000 [rpm]	1465 [rpm]	
P17.7			2 12 [pole]	4 [pole]	8.9
P17.9			0 7200 [rpm]	1500 [rpm]	8.9
P17.11		[0]V/F [1] [2] [3] [4]	0 4	0	
P17.12			1.00 10.00 [kHz]	3.00 [kHz]	8.9
P17.14	V/F	[0] V/F [1] V/F [2]	0 3	0	8.9
P17.15		[0] [1]	0 1	0	8.9
P17.16			2 500 [ms]	500 [ms]	
P17.17	V/F	[0] [1]	0 1	0	
P17.18			10 1000 [ms]	200 [ms]	
P17.19		[0] [1]	0 1	0	

7.17 3 V/F P18

P18.0		320 460 [V]	380 [V]
P18.2		0.0 4000.0 [kW]	[kW]
P18.3		320 460 [V]	380 [V]
P18.4		0.0 6500.0 [A]	[A]
P18.5		0.0 300.0 [Hz]	50.0 [Hz]
P1		0 6000 [rpm]	1465 [rpm]
P1		2 12 [pole]	4 [pole]
P1		0	

8.9

'18

P18.22			0.00 100.00 [s]	0.00 [s]	8.9
P18.23		V/F	0.00 300.00 [Hz]	0.00 [Hz]	
P18.24		V/F	0.00 300.00 [Hz]	50.00 [Hz]	
P18.25			0.0 120.0 [%]	100.0 [%]	
P18.26	V/F	V/F	0.00 10.00 [%]	0.75 [%]	8.9
P18.27			0.0 200.0 [%]	100.0 [%]	8.9
P18.30			0.0 100.0 [%]	0.0 [%]	8.9
P18.33	V/F	V/F	0 6	2	8.9
P18.34	V/F 1		0.0 300.0 [Hz]	5.0 [Hz]	
P18.35	V/F 1		0.0 125.0 [%]	11.5 [%]	
P18.36	V/F 2		0.0 300.0 [Hz]	50.0 [Hz]	
P18.37	V/F 2		0.0 125.0 [%]	100.0 [%]	
P18.38	V/F 3		0.0 300.0 [Hz]	50.0 [Hz]	
P18.39	V/F 3		0.0 125.0 [%]	100.0 [%]	
P18.40	V/F 4		0.0 300.0 [Hz]	50.0 [Hz]	
P18.41	V/F 4		0.0 125.0 [%]	100.0 [%]	
P18.42	V/F 5		0.0 300.0 [Hz]	50.0 [Hz]	
P18.43	V/F 5		0.0 125.0 [%]	100.0 [%]	
P18.44	V/F 6		0.0 300.0 [Hz]	50.0 [Hz]	
P18.45	V/F 6		0.0 125.0 [%]	100.0 [%]	
P18.46	V/F @		0 300	0	
P18.47	@		0 300	0	

P18.48		[0] [1]PID 1 [2]PID 2 [3]	0 3	0	
P18.49	@		0 300	0	
P18.50			0.00 300.00 [s]	0.00 [s]	8.9
P18.51			0.0 150.0 [%]	70.0 [%]	8.9
P18.52			0.00 5.00 [Hz]	0.00 [Hz]	8.9
P18.54			0.00 300.00 [s]	0.00 [s]	8.9
P18.55			0.0 150.0 [%]	75.0 [%]	8.9
P18.56			0.00 5.00 [Hz]	0.00 [Hz]	8.9
P18.59			0.0 1000.0 [%]	100.0 [%]	
P18.60			0.0 1000.0 [%]	100.0 [%]	
P18.61			0.0 1000.0 [%]	100.0 [%]	
P18.62			0.0 1000.0 [%]	100.0 [%]	
P18.64	V/F	V/F	0.0 1000.0 [%]	100.0 [%]	8.9
P18.66		V/F	0.0 1000.0 [%]	100.0 [%]	
P18.67			0.0 1000.0 [%]	100.0 [%]	
P18.68			0.0 1000.0 [%]	100.0 [%]	
P18.69			0.0 1000.0 [%]	100.0 [%]	
P18.70			0.0 1000.0 [%]	100.0 [%]	

7.18 4 V/F P19

P19.0	320 460 [V]	380 [V]
P19.2	0.0 4000.0 [kW]	[kW]
P19.3		

7.19 1 P20

P20.0		[0] [1]	0 1	0	8.10
P20.1		[0] [1] 1 [2] 2 [3] [4] P20.3 [5]DP [6]MODBUS [7]	0 7	0	8.10
P20.2			0 7	0	
P20.3			-300.0 300.0 [%]	0.0 [%]	8.10
P20.4	@		0 300	0	
P20.5			0 1000 [ms]	0 [ms]	
P20.6			0.0 200.0 [%]	100.0 [%]	8.10
P20.7		[0] [1] P20.8 P20.9 [2] 1 [3] 2 [4] [5]DP [6]MODBUS [7]	0 7	0	8.10
P20.8		P20.7 [1]	0.0 300.0 [%]	200.0 [%]	8.10
P20.9		P20.7 [1]	0.0 300.0 [%]	200.0 [%]	8.10
P20.10			0 300	0	
P20.11			0 1000 [ms]	0 [ms]	

P20.53	Kp				0.0 1000.0 [%]	100.0 [%]	
P20.54	Ki				0.0 1000.0 [%]	100.0 [%]	
P20.55					0.0 1000.0 [%]	100.0 [%]	8.10
P20.56					0.0 1000.0 [%]	100.0 [%]	8.10
P20.57		[0] [1]			0 1	0	8.10
P20.58					0.0 125.0 [%]	100.0 [%]	8.10
P20.59					1.0 25.0 [%]	2.5 [%]	8.10
P20.60	DROOP		0	DROOP	0.0 100.0 [%]	0.0 [%]	8.10
P20.61	DROOP		DROOP		30 2000 [ms]	50 [ms]	8.10
P20.62					0.0 1000.0 [%]	100.0 [%]	8.10
P20.63					0.00 1000.0 [%]	100.0 [%]	8.10
P20.66		1		1	0.0 1000.0 [%]	100.0 [%]	
P20.67		2		2	0.0 1000.0 [%]	100.0 [%]	
P20.69					0.00 2.00 [%]	1.00 [%]	
P20.70					0.00 2.00 [%]	1.00 [%]	
P20.71		[0] [1]			0 1	0	
P20.72		[0] [1]			0 1	1	
P20.73		[0] [1]		A			

P20.77	2		2	90.0 110.0 [%]	100.0 [%]
P20.78				0.00 650.00 [mOhm]	0.00 [mOhm]
P20.79				0.00 65.50 [mH]	0.000 [mH]
P20.80	1		1	0.800 1.350	1.140
P20.81	2		2	0.800 1.350	0.940
P20.82	3		3	0.800 1.350	1.080
P20.83	4		4	0.800 1.350	0.950
P20.84				0.00 655.00 [mH]	0.00 [mH]
P20.85	85%	85%		40.0 150.0 [%]	

7.20 2 P21

P20	0.0	א .	[0] [1]		0	1	0	8.10

P21.14 o

P21.54		Ki			0.0 1000.0 [%]	100.0 [%]	
P21.55					0.0 1000.0 [%]	100.0 [%]	8.10
P21.56					0.0 1000.0 [%]	100.0 [%]	8.10
P21.57			[0] [1]		0 1	0	8.10
P21.58					0.0 125.0 [%]	100.0 [%]	8.10
P21.59					1.0 25.0 [%]	2.5 [%]	8.10
P21.60	DROOP		0	DROOP	0.0 100.0 [%]	0.0 [%]	8.10
P21.61	DROOP		DROOP		30 2000 [ms]	50 [ms]	8.10
P21.62					0.0 100.0 [%]	100.0 [%]	8.10
P21.63					0.0 100.0 [%]	100.0 [%]	8.10
P21.66		1		1	0.0 100.0 [%]	100.0 [%]	
P21.67		2		2	0.0 1000.0 [%]	100.0 [%]	
P21.69					0.00 2.00 [%]	1.00 [%]	
P21.70					0.00 2.00 [%]	1.00 [%]	
P21.71			[0] [1]		0 1	0	
P21.72			[0] [1]		0 1	1	
P21.73			[0] × 1 [1] × 10		0 1	0	
P21.74					0.00 650.00 [mOhm]	0.00 [mOhm]	
P21.75					0.70 1.00	0.90	
P21.76	.90	mu					

P21.78		0
P21.79		0
P21.80	1	0
P21.81	2	0
P21.82	3	0

7.21 3 P22

P22.0		[0] [1]	0	1	0	8.10

P22.31		0.0 100.0 [%]	5.0 [%]	
P22.32		0.0 100.0 [%]	5.0 [%]	
P22.34	[0] [1]	0 1	0	8.10
P22.35		0.0 100.0 [s]	0.0 [s]	
P22.36		50.0 150.0 [%]	110.0 [%]	
P22.37		0.0 150.0 [%]	100.0 [%]	8.10
P22.38		0.0 100.0 [%]	25.0 [%]	8.10
P22.39		0.0 120.0 [%]	100.0 [%]	8.10
P22.40		0.0 150.0 [%]	100.0 [%]	8.10
P22.41		0.0 150.0 [%]	135.0 [%]	
P22.42	[0] [1]	0 1	1	
P22.43		25 1000 [ms]	75 [ms]	
P22.44		25 1000 [ms]	250 [ms]	
P22.45		0.0 100.0 [%]	22.0 [%]	
P22.46		0.0 100.0 [%]	18.0 [%]	
P22.47		0.0 200.0 [%]	92.0 [%]	
P22.48		0.0 200.0 [%]	87.0 [%]	
P22.49		0.0 150.0 [%]	100.0 [%]	
P22.51		0.0 1000.0 [%]	100.0 [%]	
P22.52		0.0 1000.0 [%]	100.0 [%]	

P22.53	Kp	0.0 1000.0 [%]	

7.22 4 P23

P23.0	[0] [1]		0	1	0	8.10
P23.1	[0] [1] 1 [2] 2 [3] [4] P23.3 [5]DP [6]MODBUS [7]		0	7	0	8.10
P23.2			0	7	0	

P23.3

P23.14		1	0 60000 1024	
P23.15	[0] [1]		0 1 0	8.10
P23.16			0.0 300.0 100.0 [%] [%]	
P23.17			0.0 300.0 100.0 [%] [%]	
P23.18			0.0 300.0 0.0 [%] [%]	
P23.19			0.0 300.0 0.0 [%] [%]	
P23.20	[0] [1]		0 1 0	
P23.21	[0] [1]		0 1 0	
P23.22			0.0 300.0 160.0 [%] [%]	
P23.23				

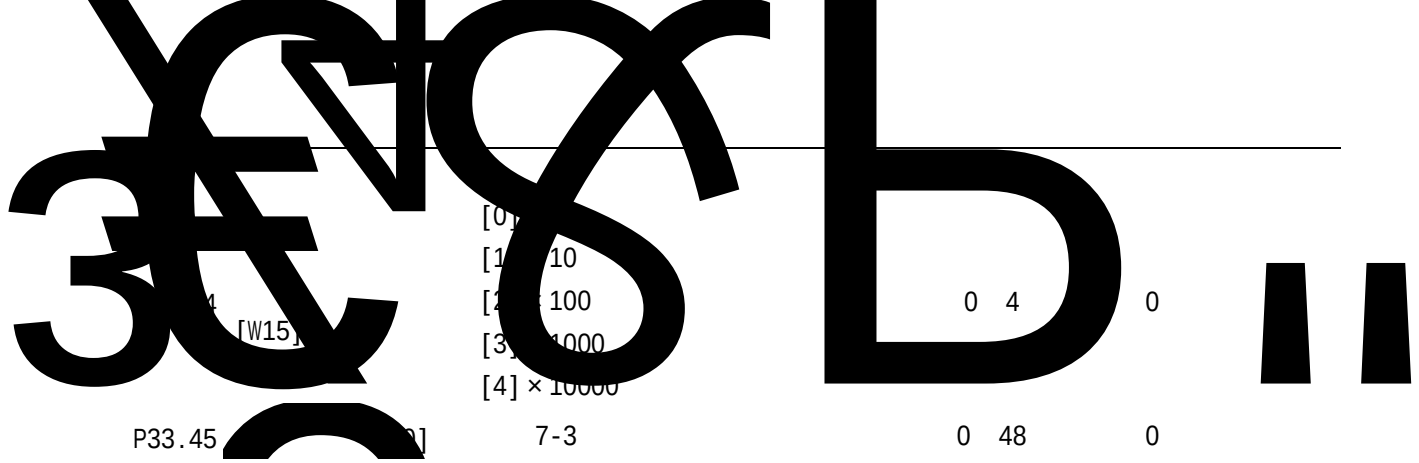
P23.54	Ki	0.0 [%]	1000.0 [%]	100.0 [%]	
P23.55		0.0 [%]	1000.0 [%]	100.0 [%]	8.10
P23.56	ú				



P23.78			0.00 650.00 [mOhm]	0.00 [mOhm]	
P23.79			0.00 65.50 [mH]	0.000 [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			0.00 655.00 [mH]	0.00 [mH]	
P23.85	85%	85%	40.0 150.0 [%]	108.0 [%]	
P23.86	87.5%	87.5%	40.0 150.0 [%]	106.5 [%]	
P23.87	90%	90%	40.0 150.0 [%]	105.0 [%]	
P23.88	92.5%	92.5%	40.0 150.0 [%]	103.5 [%]	
P23.89	95%	95%	40.0 150.0 [%]	102.0 [%]	
P23.90	102. 5%	102.5%	40.0 150.0 [%]	99.0 [%]	
P23.91	105%	105%	40.0 150.0 [%]	96.5 [%]	
P23.92	110%	110%	40.0 150.0 [%]	93.0 [%]	
P23.93	115%	115%	40.0 150.0 [%]	88.5 [%]	
P23.94	120%	120%	40.0 150.0 [%]	83.0 [%]	
P23.95	125%	125%	40.0 150.0 [%]	77.0 [%]	
P23.96	130%	130%	40.0 150.0 [%]	70.5 [%]	
P23.97	135%	135%	40.0 150.0 [%]	63.5 [%]	
P23.98		( )	0.01 300.00 [s]	0.75 [s]	
P23.99			0.00 10.00 [%]	0.00 [%]	

			[0] × 1 [1] × 10			
P33.18	[W2]		[2] × 100 [3] × 1000 [4] × 10000	0	4	0
P33.19		[W3]	7-2	0	37	0
			[0] × 1 [1] × 10			
P33.20	[W3]		[2] × 100 [3] × 1000 [4] × 10000	0	4	0
P33.21		[W4]	7-2	0	37	1
			[0] × 1 [1] × 10			
P33.22	[W4]		[2] × 100 [3] × 1000 [4] × 10000	0	4	0
P33.23		[W5]	7-2	0	37	18
			[0] × 1 [1] × 10			
P33.24	[W5]		[2] × 100 [3] × 1000 [4] × 10000	0	4	2
P33.25		[W6]	7-2	0	37	21
			[0] × 1 [1] × 10			
P33.26	[W6]		[2] × 100 [3] × 1000 [4] × 10000	0	4	1
P33.27	[W7]		7-2			

P33.31	[W9]	7-2	0	37	0
		[0] × 1			
		[1] × 10			
P33.32	[W9]	[2] × 100	0	4	0
		[3] × 1000			
		[4] × 10000			
P33.33	[W10]	7-2	0	37	0
		[0] × 1			
		[1] × 10			
P33.34	[W10]	[2] × 100	0	4	0
		[3] × 1000			
		[4] × 10000			
P33.35	[W11]	7-2	0	37	0
		[0] × 1			
		[1] × 10			
P33.36	[W11]	[2] × 100	0	4	0
		[3] × 1000			
		[4] × 10000			
P33.37	[W12]				



[0]
[1] 10
[2] 100
[3] 1000
[4] × 10000

4 [W15] 0 4 0

P33.45 [ ] 7-3 0 48 0

[0] × 1

P33.46
[WO]

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

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	

7-2

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

7-3

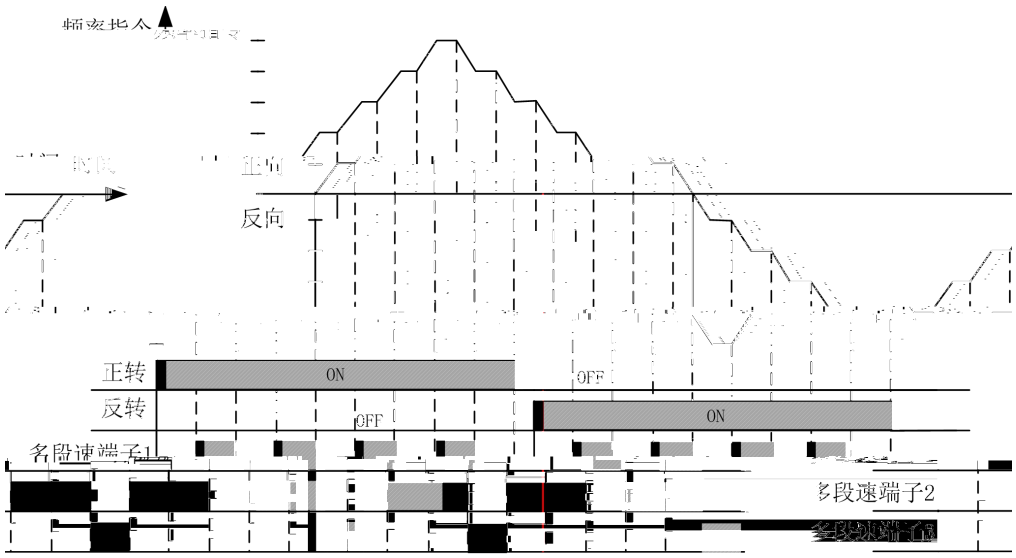
0	
1	0
2	1
3	2
4	3
5	4
6	5
7	0 @32bit
8	1 @32bit
9	2 @32bit
10	3 @32bit
11	4 @32bit
12	5 @32bit
13	[32]
14	[32]
15	32bit_MSW
16	32bit_LSW
17	
18	
19	
20	[rpm]
21	[rpm]
22	
23	
24	
25	
26	
27	A
28	B

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

B. [1]

4 16 (8421)

(FORWARD) (REVERSE) P12.2(1)

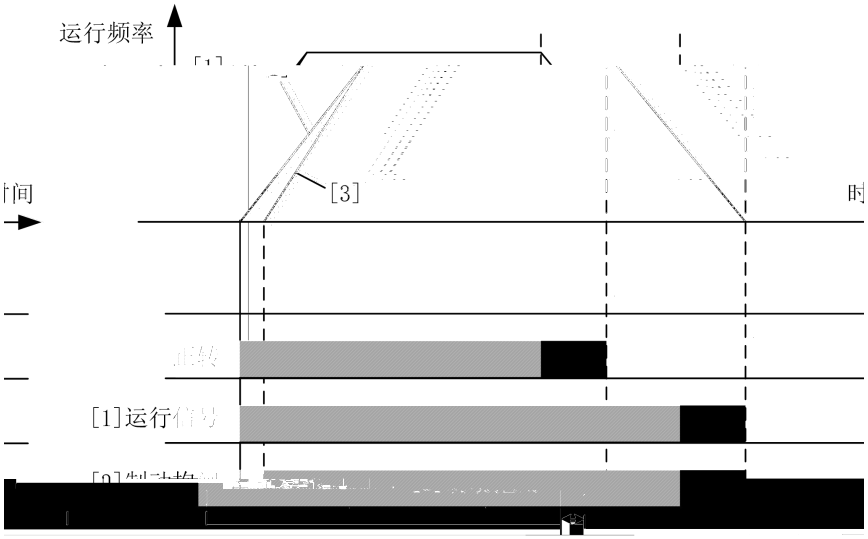


8.3

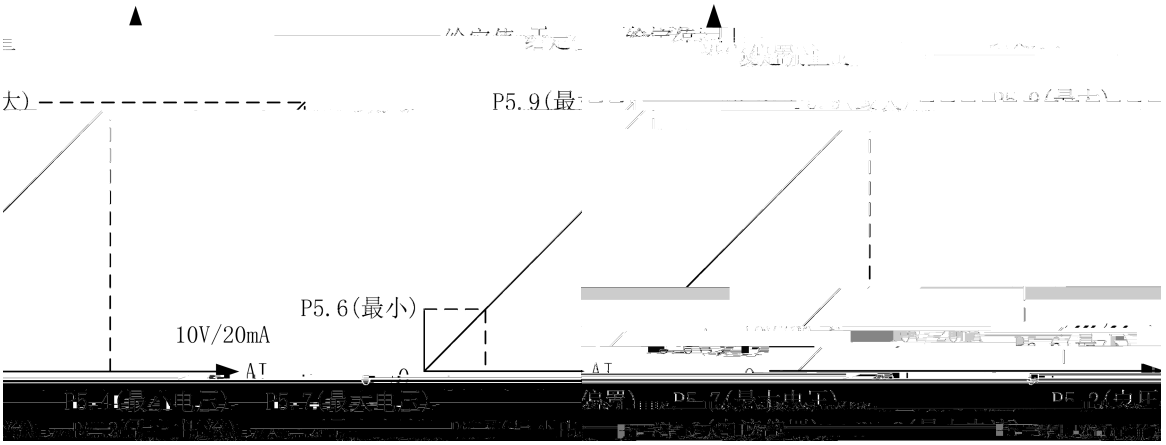
/

[1] [3] [3]

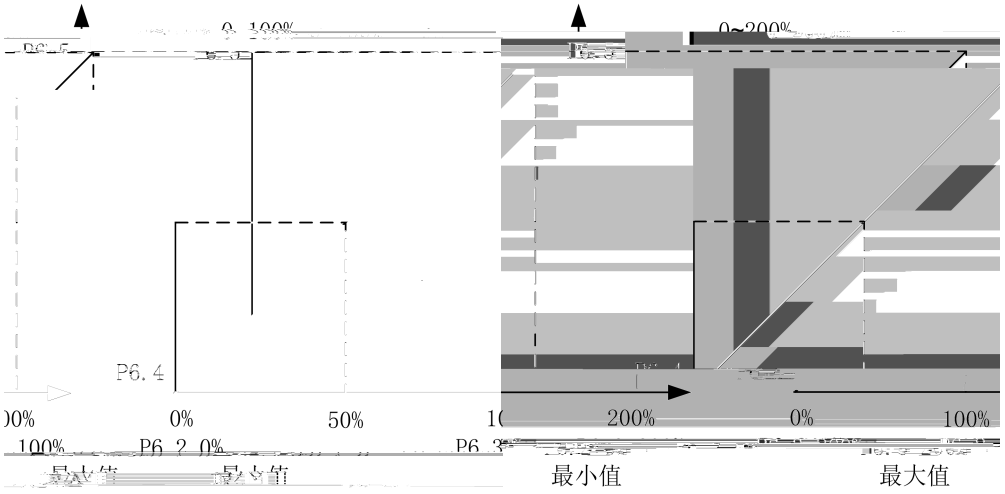
[1] [3]



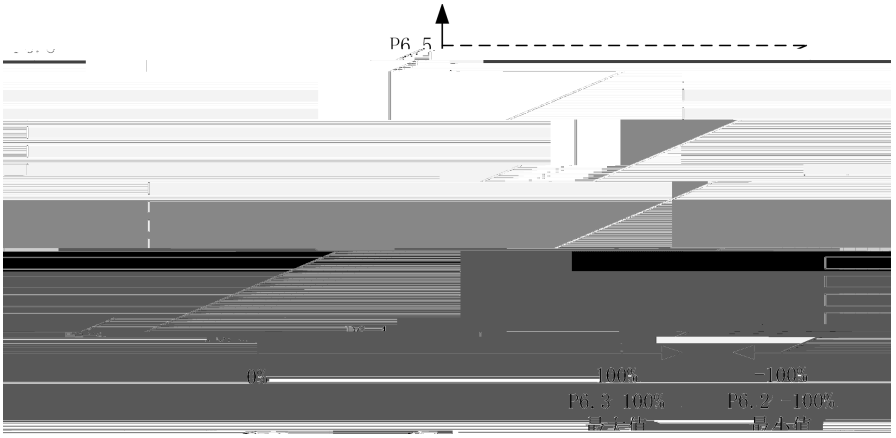
8.4



8.5



(a) 0~100% b 0~200%



c -100~100%

8.6

1

P7.0 P7.1 P7.2 P7.3

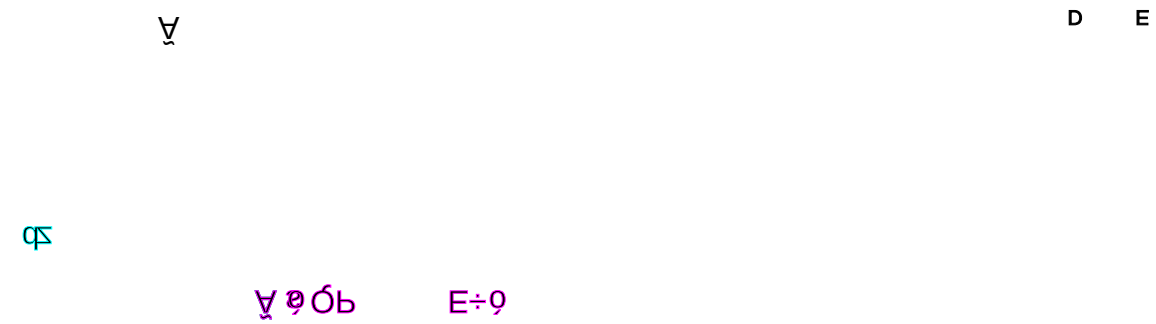
2

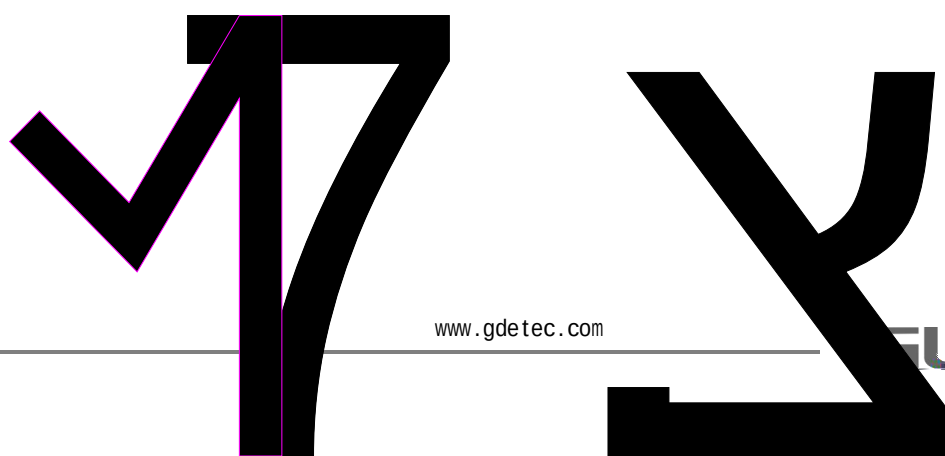
P7.4 P7.5 P7.6 P7.7 P7.4 P16.4

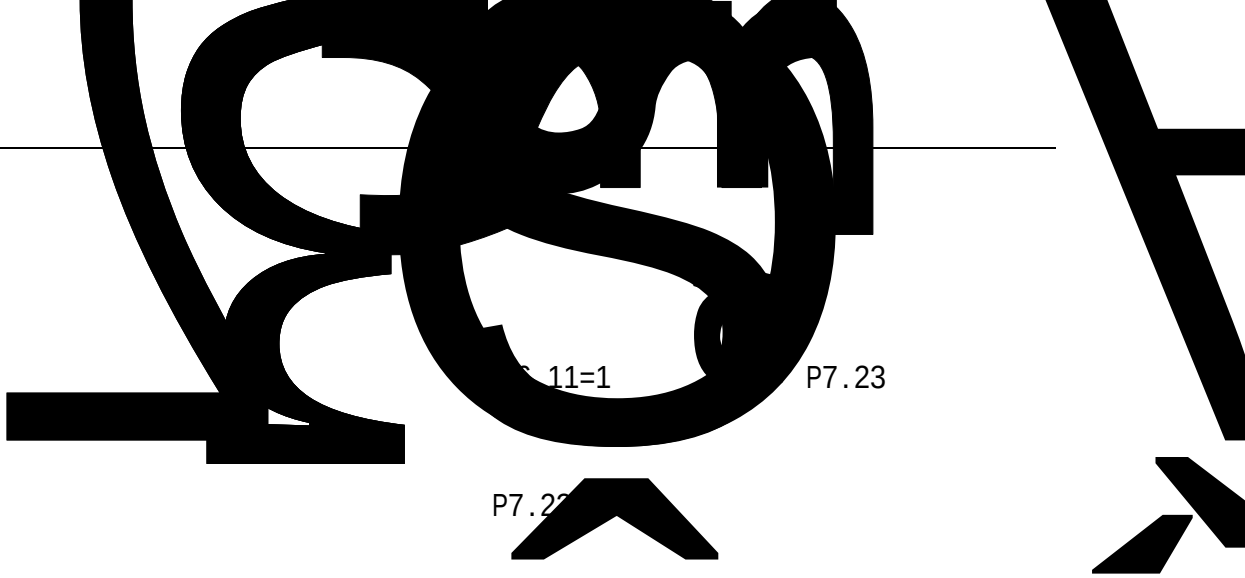
3

P7.8 P7.9 P7.10 P7.11

P16.4 ———————— 41







7

P7.23 11=1 P7.23

P7.2

P7.24 P7.26 P17.11=1 P18.11=1 P19.11=1

8

P7.31 P7.32 P16.11=2

P7.31 100% P7.32

P7.31 P7.32

9

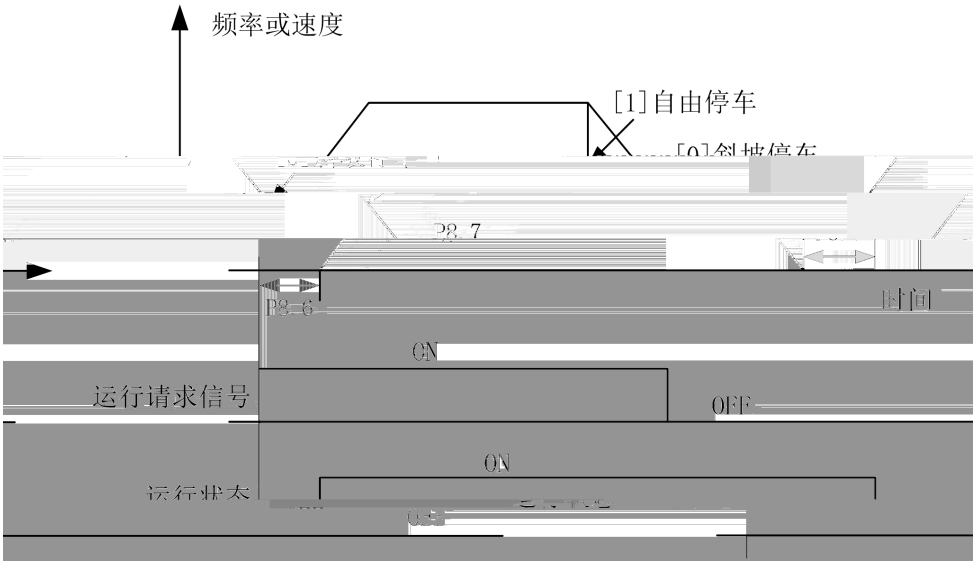
P7.33

P7.33

= 1.075 $\sqrt{2}$ P16.0 20 P7.66

12

P8.7

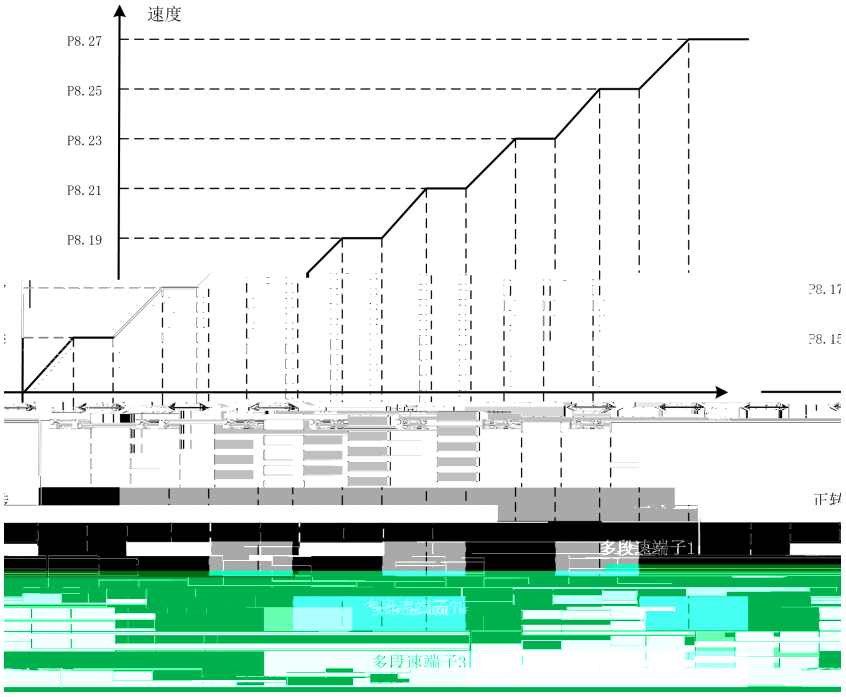


2

P8.14

P8.14 P8.33

P8.33



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

P8.15 P8.17 P8.19

8.8

1

P12.2 P12.17

P12.0=[1]

P12.36　P12.37

P16

2

P16.12

1kHz			
5kHz			
10kHz			

	kHz
3.7kW 37kW	4
45kW 160kW	3
185kW 900kW	2

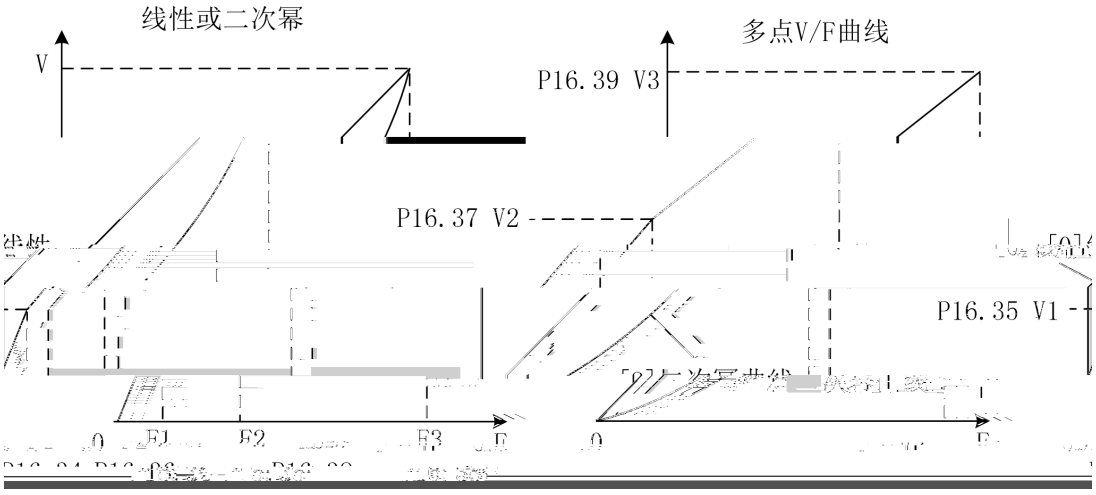
3 V/F

P16.14 V/F P16.11=0

[0] V/F

[1] V/F P16.33 P16.45 V/F

[2]



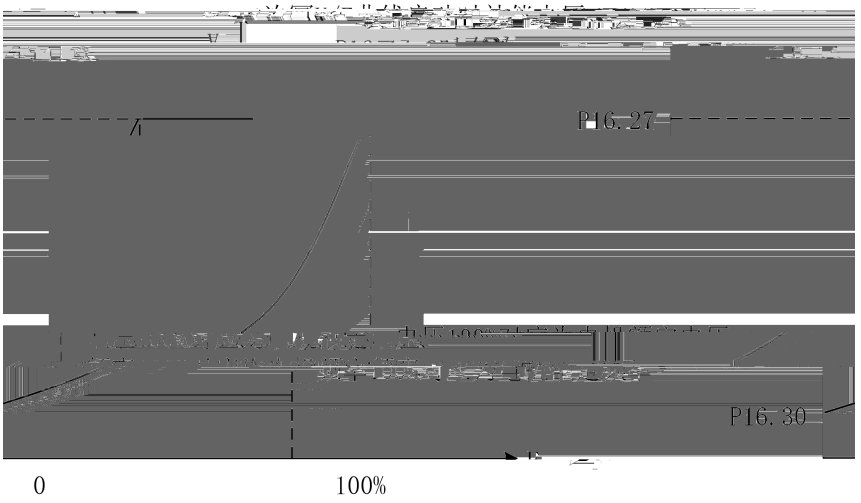
P16.34 P16.45 V/F V/F

V1 V2 V3 F1 F2 F3

4

P16 V/F

V/F



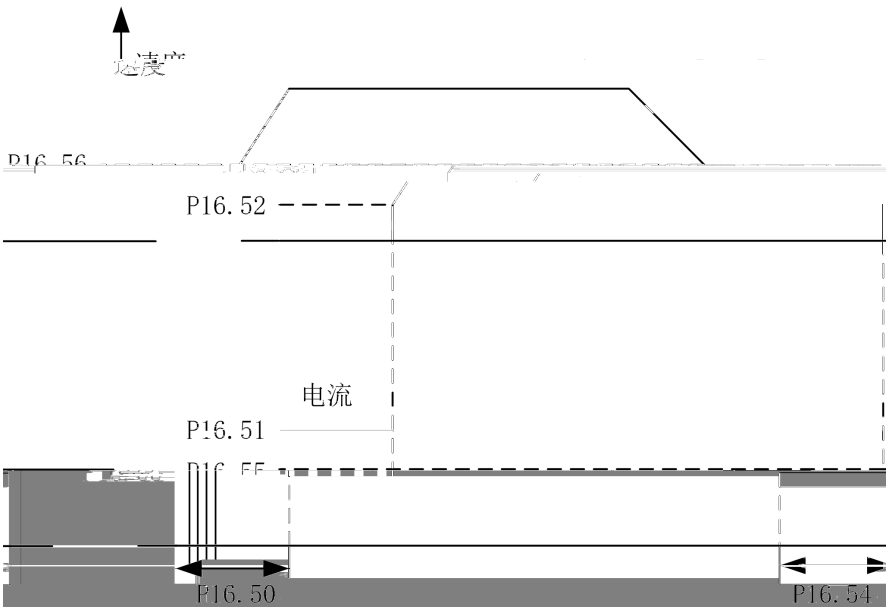
6

P16.50 P16.56

V/F

P16.50 P16.51 P16.52

P16.54 P16.55 P16.56



7

P16.64

8.10

1

P20.0

P20.0=0 P20.1=0 P20.2=0

P20.0=0 P20.1≠0 P20.2≠0

P20.0=1 P20.1≠0 P20.2≠0 1

0

P16.11 [1] [2]

P20.3 P20.1 [4]

2

P20.7

P20.8 P20.9 P20.7=1

3

P20.13

4

P20.15 A B

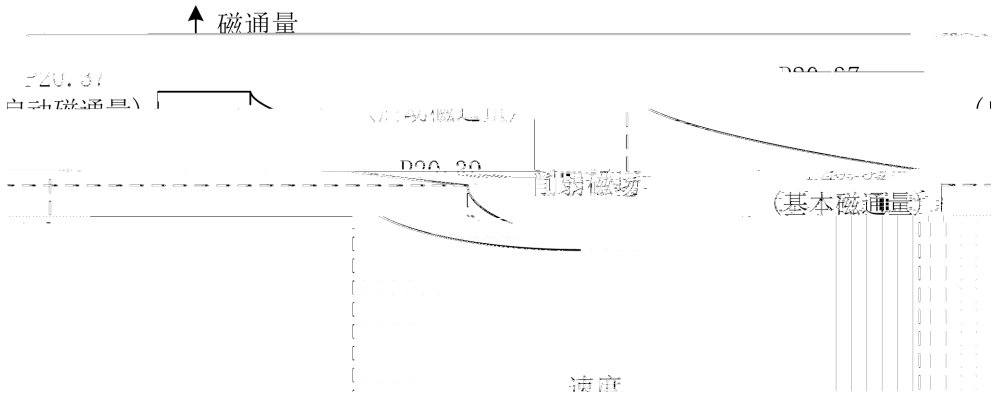
A B U V W

[0]

[1] A B

5

GDHF-PGD1 PG



8

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

P20.58

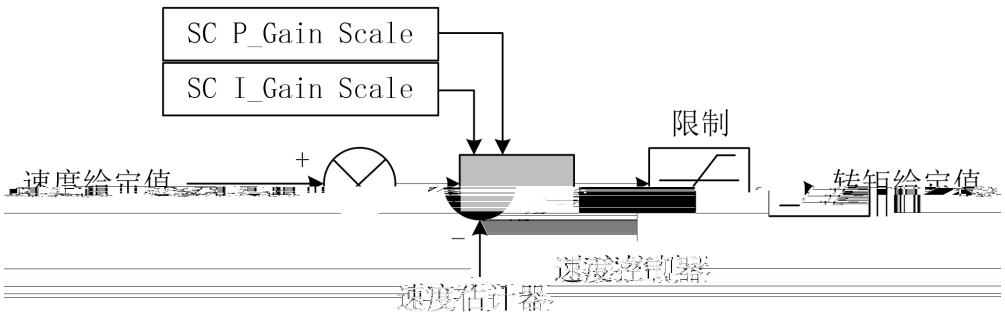
P20.59

9

P20.55

P20.56

%



10 DROOP

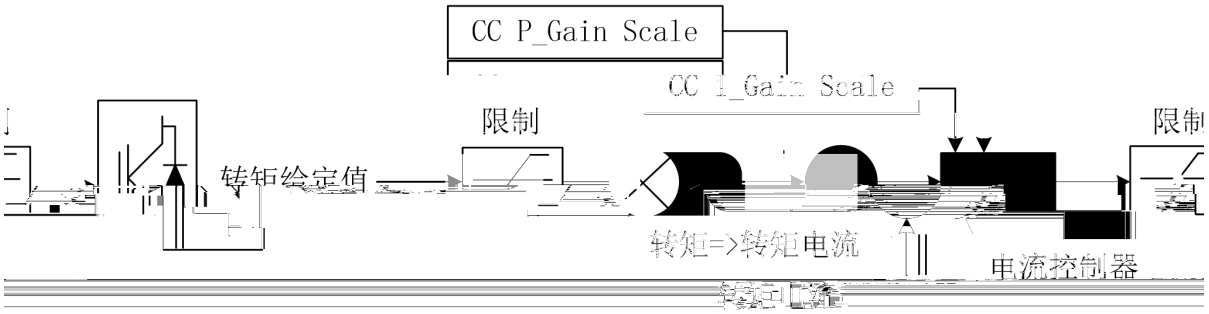
DROOP DROOP

P20.60 0

DROOP P20.61 DROOP

11

P20.62 P20.63 %



8.11

P16.64
V/F (10 40Hz) 100 80 150

P16.12

V/F
P16.15

P16.26
V/F 0.75 0.5 1.2

P7.0
150 150 220

9

9.1

WO1 SYS_NOT_RDY (Ready)

[P3

WO2] NO_DRV_ENABLE

[

WO3 LOW_VOLTAGE]طی

9.2

[E050]	U ERR_UTnotreset	IGBT IGBT
[E051]	U ERR_UTnotreset	IGBT IGBT
[E052]	V ERR_UTnotreset	IGBT IGBT
[E053]	V ERR_UTnotreset	IGBT IGBT
[E054]	W ERR_UTnotreset	IGBT IGBT
[E055]	W ERR_UTnotreset	IGBT IGBT
[E056]	ERR_SLAVE_FAULTnotreset	
[E057]	ERR_DBnotreset	IGBT IGBT
[E100]	OV	P8.35(1) P7.12( )
[E105]	UV	P7.13( )
[E110]	OC	P7.4( )

P7.48(1)
P7.49(1)

[E111] OL

P7.48 P7.49

P7.8

[E112] ZC

[E113] MIP

[E114] MOP

P7.19

[E115] OS

P7.19

[E116] SLVC Fail

P7.23

LL

[E117] MOTOR STALL

[E127]	IGBT7 OT7
[E128]	IGBT8 OT8
[E137]	FAN STALL
[E138]	TEMP_SENSINGFAIL
[E151]	U î × Ų ز

[E181]	DP P/B_EM	CW0.4
[E200]	LOCAL_EM	[ ] P3
[E201]	REMOTE_EM	[ ] P3
[E202]	Modbus MODBUS EMERGENCY	Modbus CW0.4
[E203]	DRIVE DISABLED	DP
[E210]	Panel Error	
[E220]	CRC MEMORY CRC ERR	
[E221]	PARAMETER ERROR	

10.



1.

2.

3.

4.



1. CMOS

2.

3.

10.1

10.2

1.
2.

1.
2.

1.
2.
3.

1. > 40
   < 95%
2.

1.
2.

1.
2.
3.

10.4

5

5

(400-0077-570)

1 40

2 80%

3 24 /

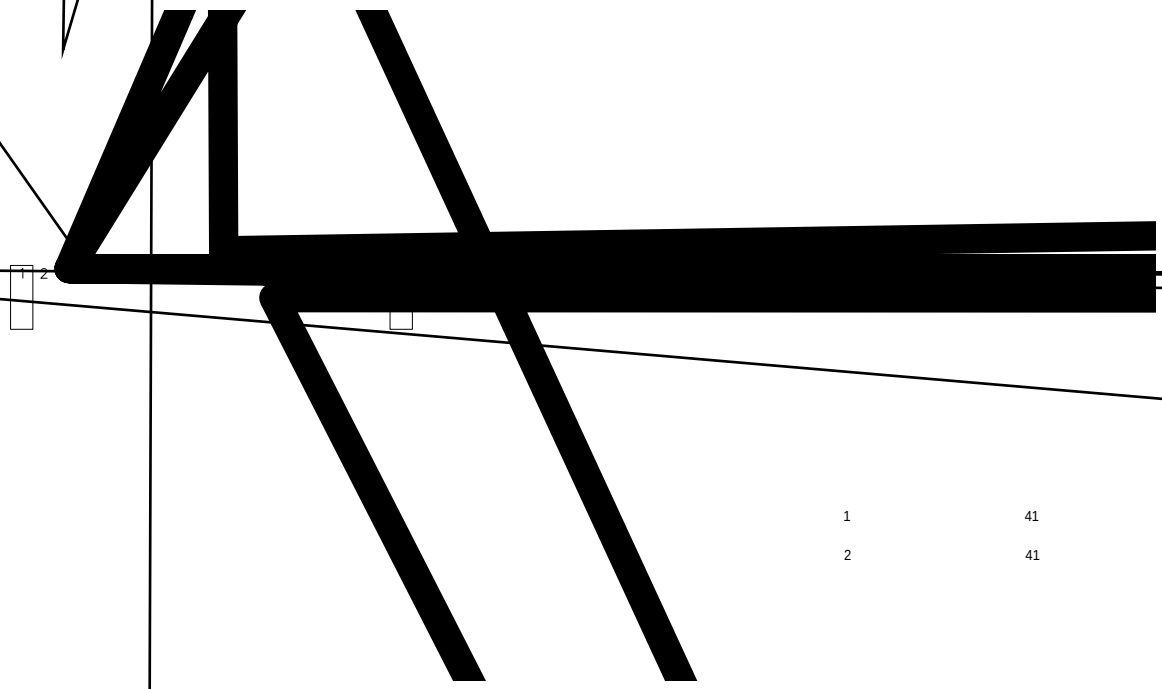
10.5

1

2

5

10.6

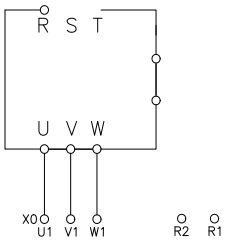


1 41

2 41

H1~H4

H1~H4





H1~H3

H4

1.06

1

2

3

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6

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