

GUIDE

HF680NLC

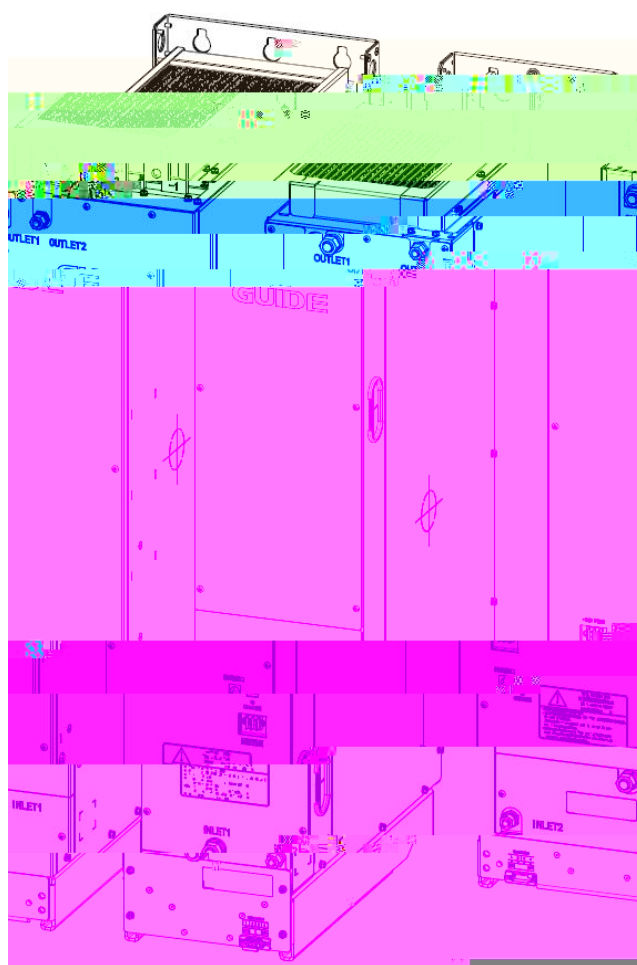
400V

250-630kW

1.00

L

Wuhan Guide Technology Co.,Ltd.



HF680NLC

1.	.....	1
1.1	.....	1
1.2	.....	5
1.3	.....	5
2.	.....	6
2.1	.....	6
2.2	.....	6
2.3	.....	7
2.4	.....	9
3.	.....	14
3.1	.....	14
3.2	.....	14
3.3	.....	20
3.4	.....	21
3.5	.....	22
3.6	.....	23
3.7	.....	23
4.	.....	25
4.1	.....	25
4.2	.....	25
4.3	.....	30
4.4	.....	34
4.5	.....	34
5.	.....	35
5.1	.....	35
6.	.....	36
6.1	.....	36
6.2	.....	37
6.3	.....	37
6.4	.....	38
7.	.....	45
7.1	.....	45
7.2	.....	46
8.	.....	51
8.1	.....	51
8.3	.....	71
9.	.....	77
9.1	.....	77
10.	.....	83
10.1	P2.....	83
10.2	P3.....	83
10.3	P4.....	85
10.4	P5.....	87
10.5	P6.....	88
10.6	P7.....	90
10.7	1 P8.....	92

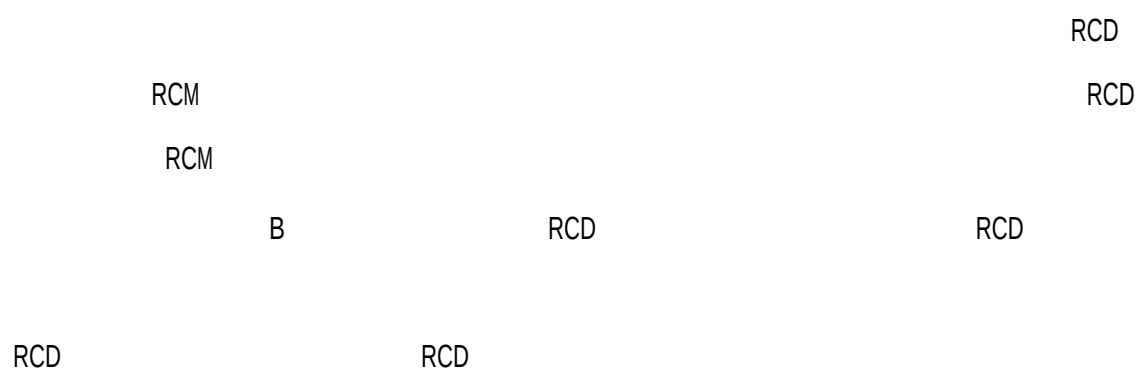
[illegible]

1.

1.1



1

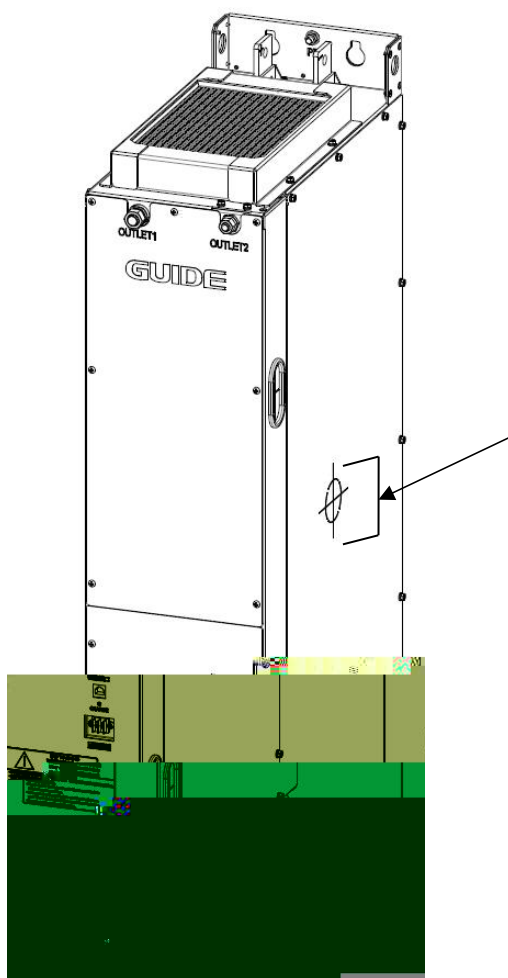


2

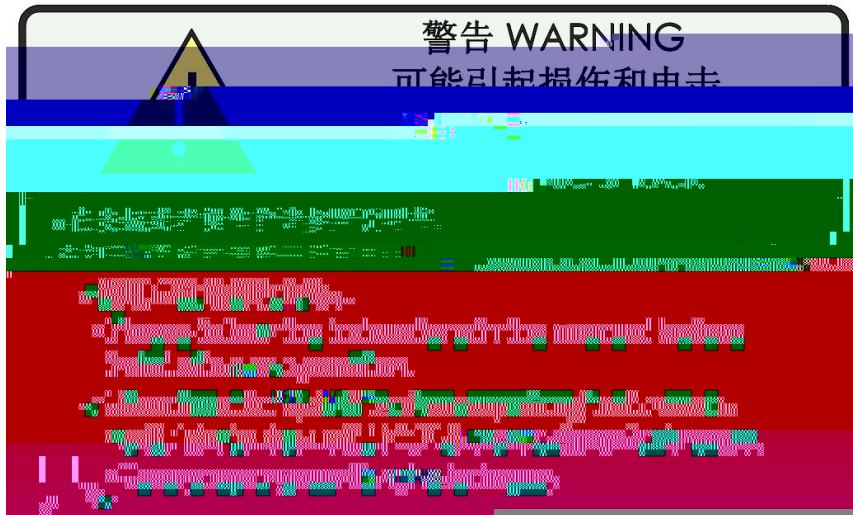
500V

5MΩ

3



HF680NLC03M-630-4



1.2

(1)

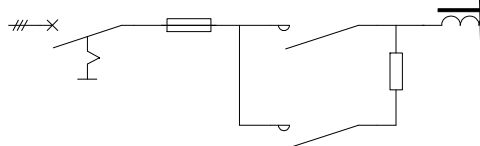
(2)

(3)

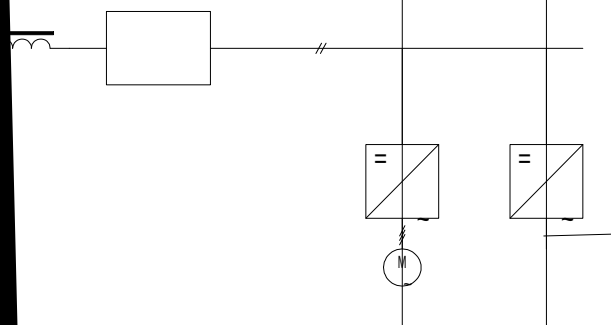
1.3

1

HF680NLC



LCL



2.4.1

2.4.3

1 1 11

2 2



HF680NLC03M-630-4

2.4.4

1	2	1	
2	4		2
3			
4		4	3
5			

4 . Ø T . IJ

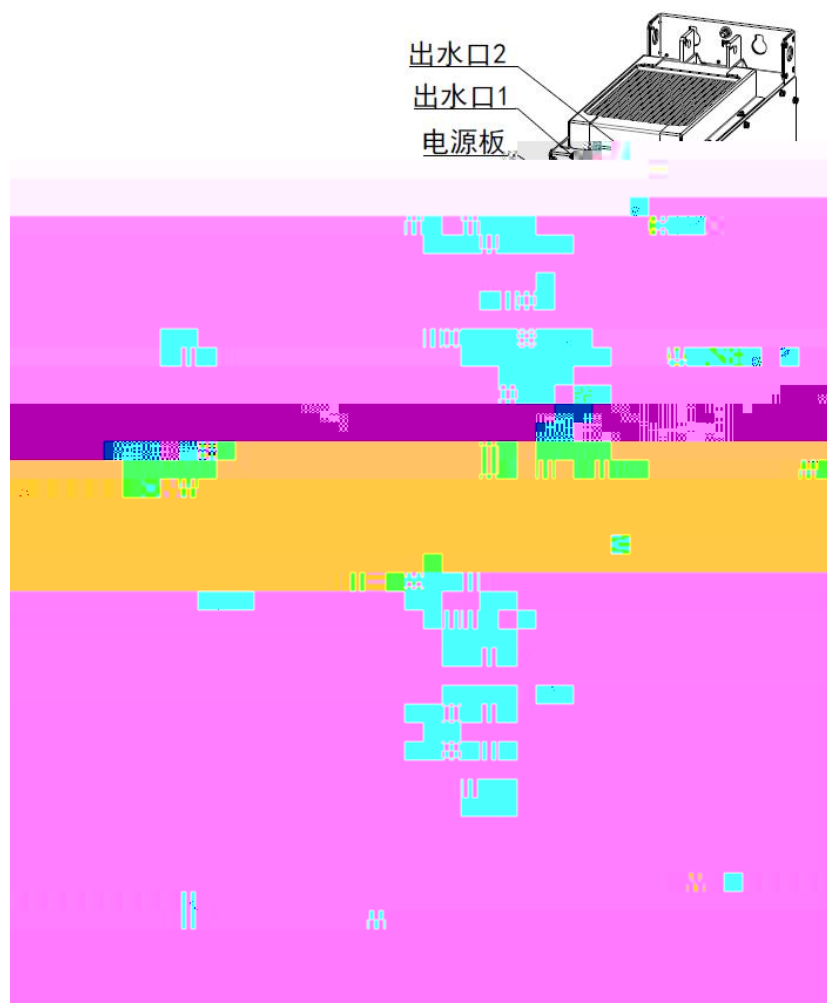
3.

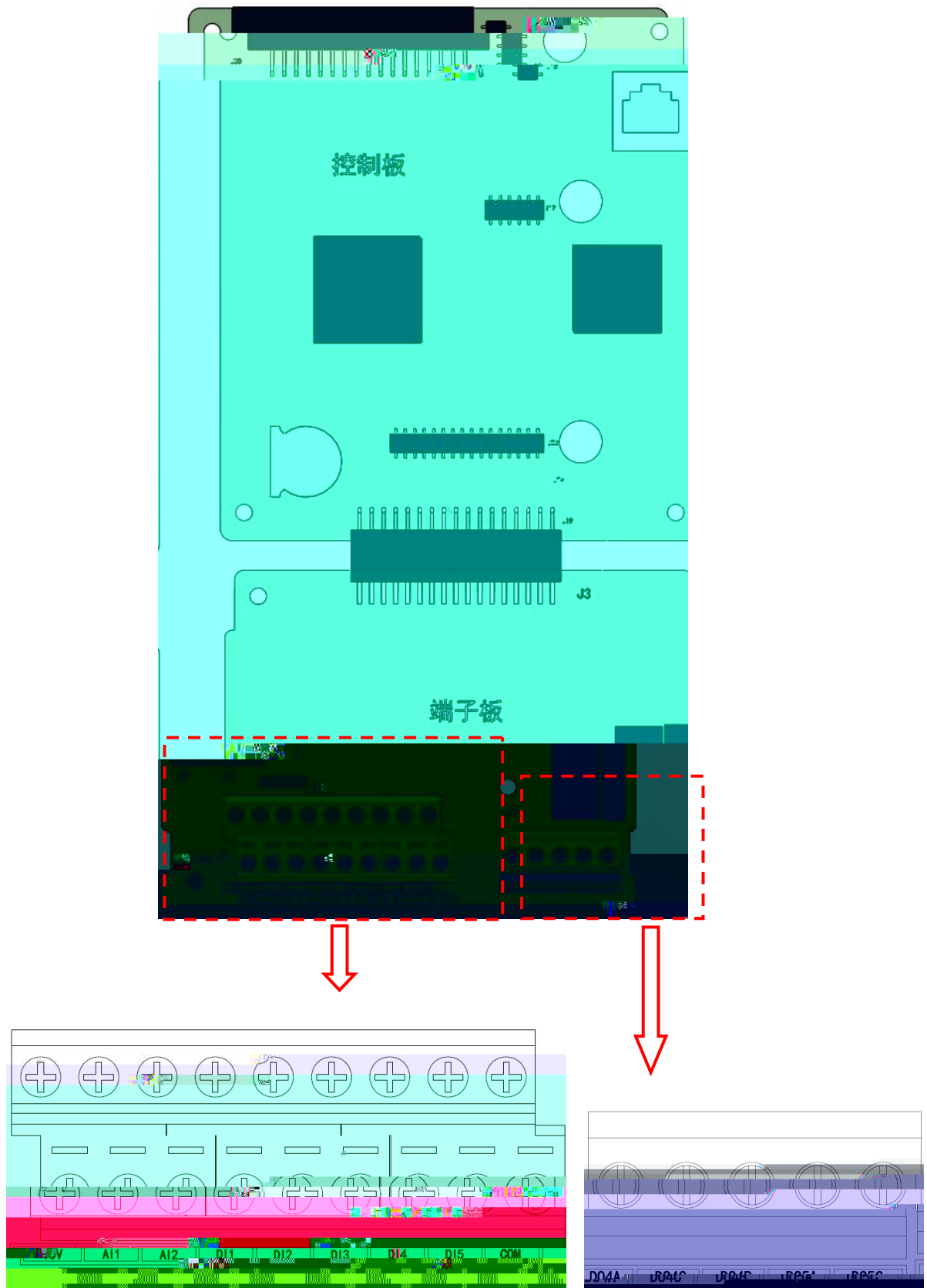
3.1

LCL

LCL

3.2





+10V-GND

10V

+10V

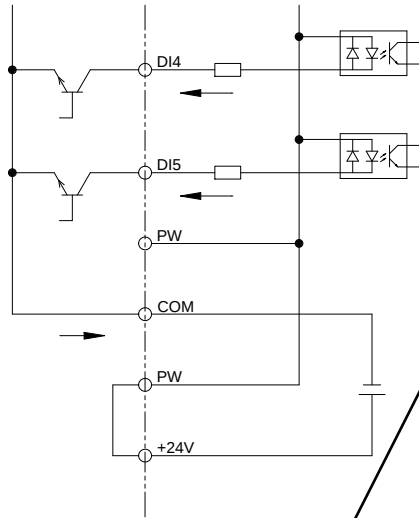
50mA

3

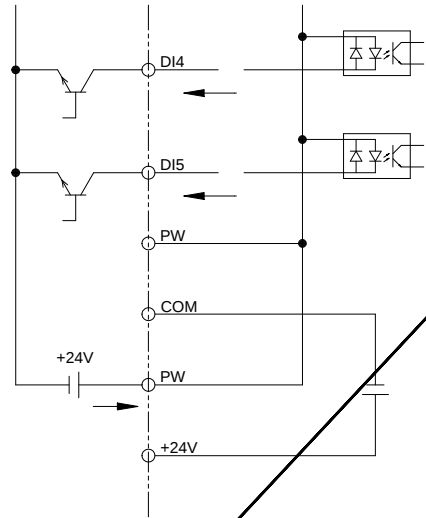
0V

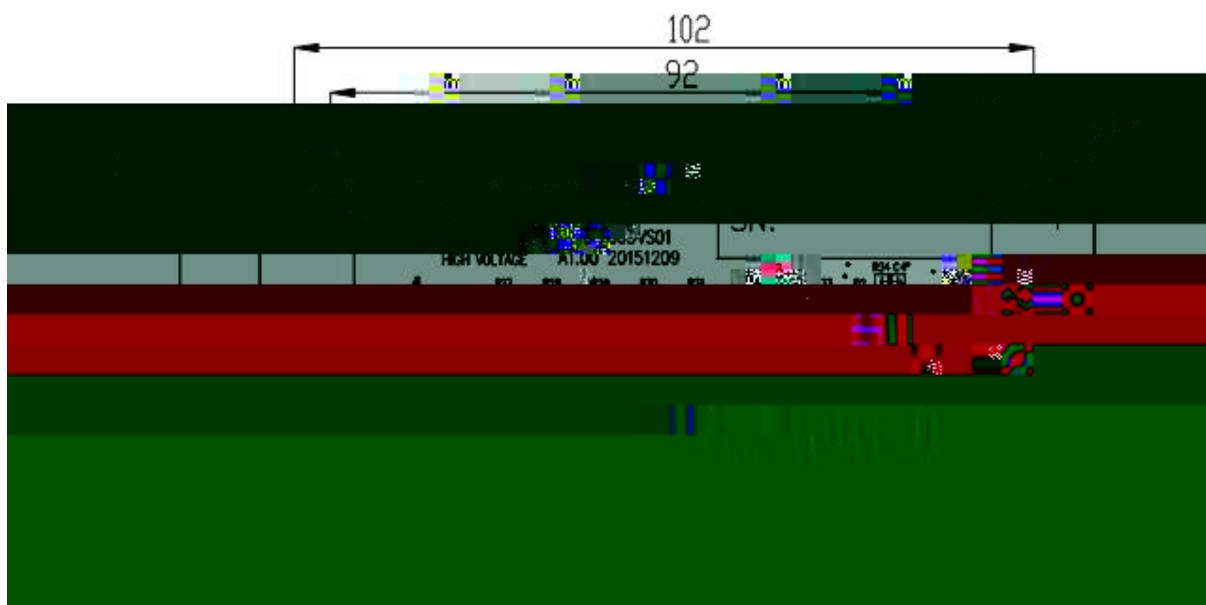
NPN

N P N



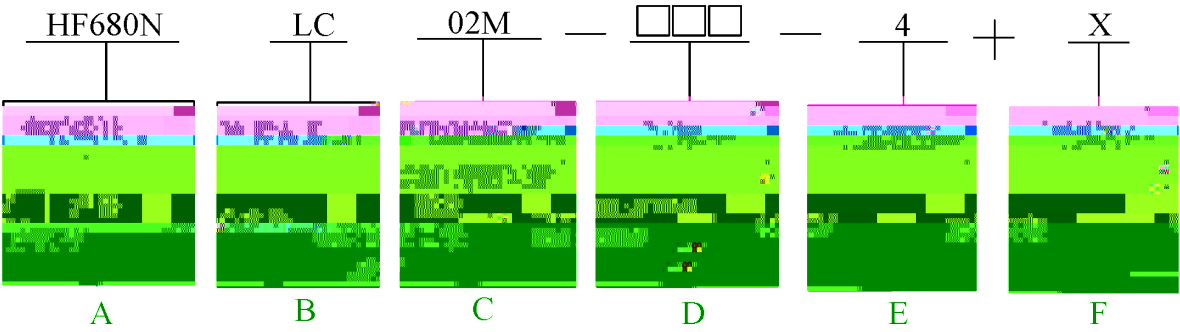
N P N





	J1	1121S-7P	
	J2	2001S-5P(T)	

3.3



A	
B	LC
C	02M 02C
D	500 500kW 630 630kW
E	4 380V
F	

Modbus RTU	MB01	GDHF-AMBX1	Modbus RTU
DP	DP01	GDHF-ADPX1	Profibus DP

620V

	[A]	[kW]		^{mm} H*W*D	kg
HF680NLC02M-500-4	970	500	Q1	1100*253*525	120
HF680NLC02M-630-4	1103	630			

- 1 HF680NLC02M
LCD
- 2 HF680NLC02M

3.4

LCL

	Lf/ μ H	Lb/ μ H	Cf/ μ F	
HF680NLC02M-500-4	22uH	90uH	190uF	3 × 2R5
HF680NLC02M-630-4	18uH	71uH	240uF	3 × 2R5

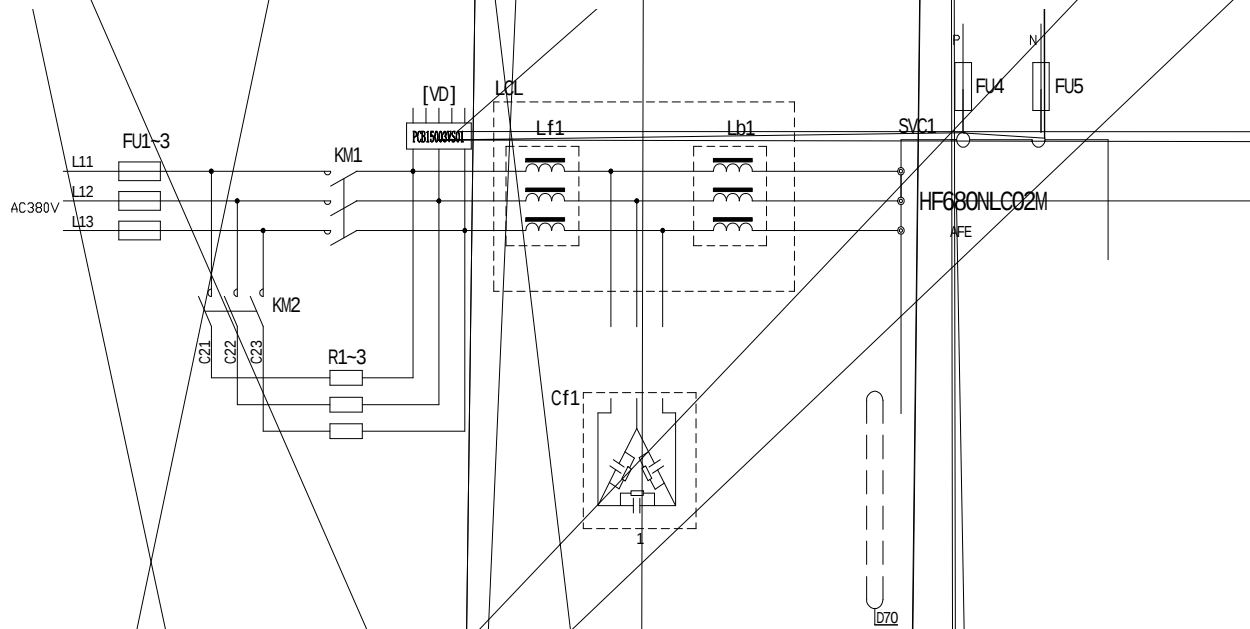
1. LCL

Lf

Lb

Cf

~~3.5~~



[VD] 

3.6

		380V 480V
		50 / 60Hz
		-15% +10%
		<AC320V 15ms
		AFE
		0.999
		3%
		150% 5 1 630KW 110% 5 1
		570V 710V
		1kHz 10kHz

3.7

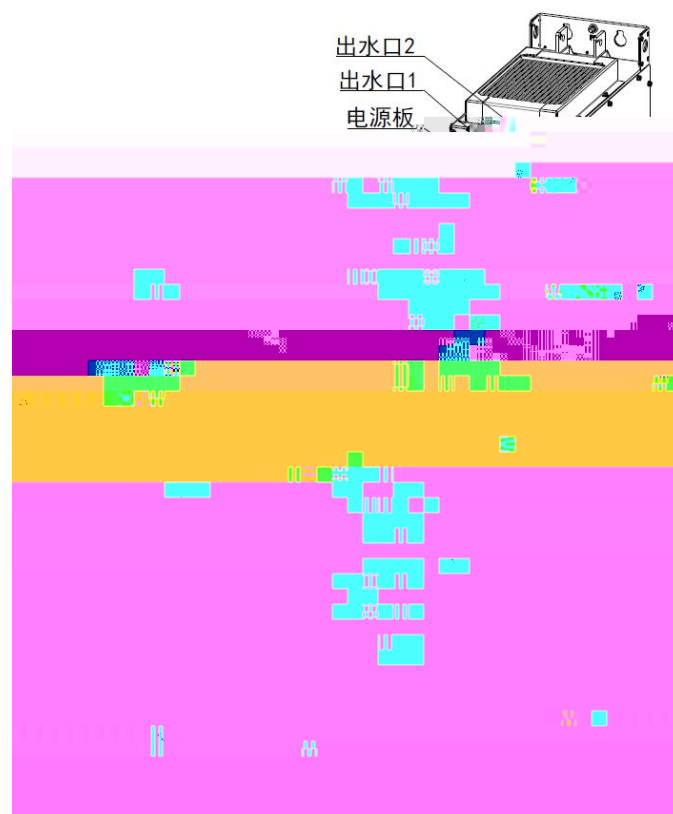
- (1) IGBT
- (2) 50%
- (3) 0.999
- (4) 3% GB/T 24337-2009
- (5) 380V 480V -15% +10%
- (6) DP PN
- (7)

(8)	IGBT					
(9)			50%			
(10)						0.999
(11)				3%	GB/T 24337-2009	
(12)		380V	480V	-15%	+10%	
(13)	DP	PN				
(14)						

4.

4.1

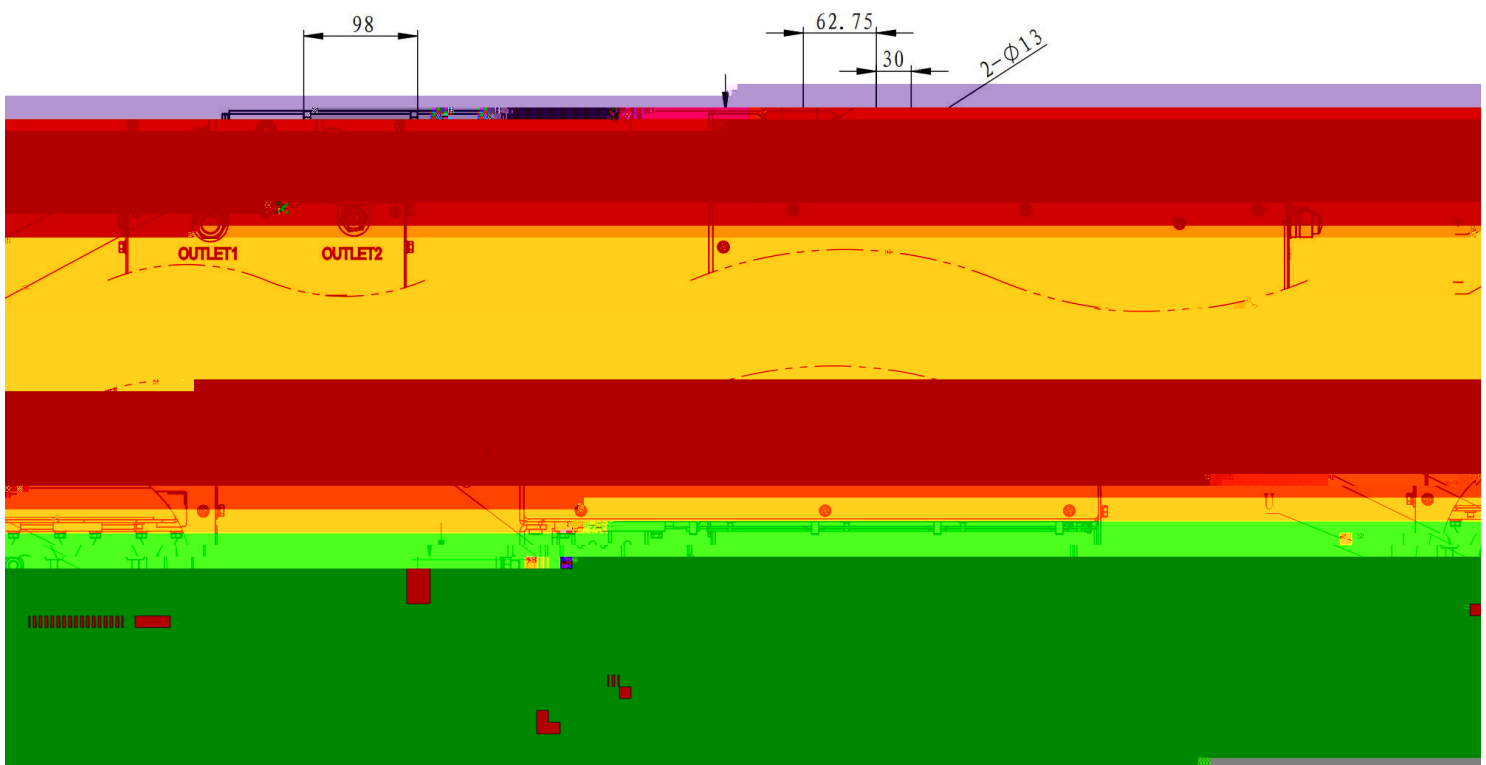
4.2

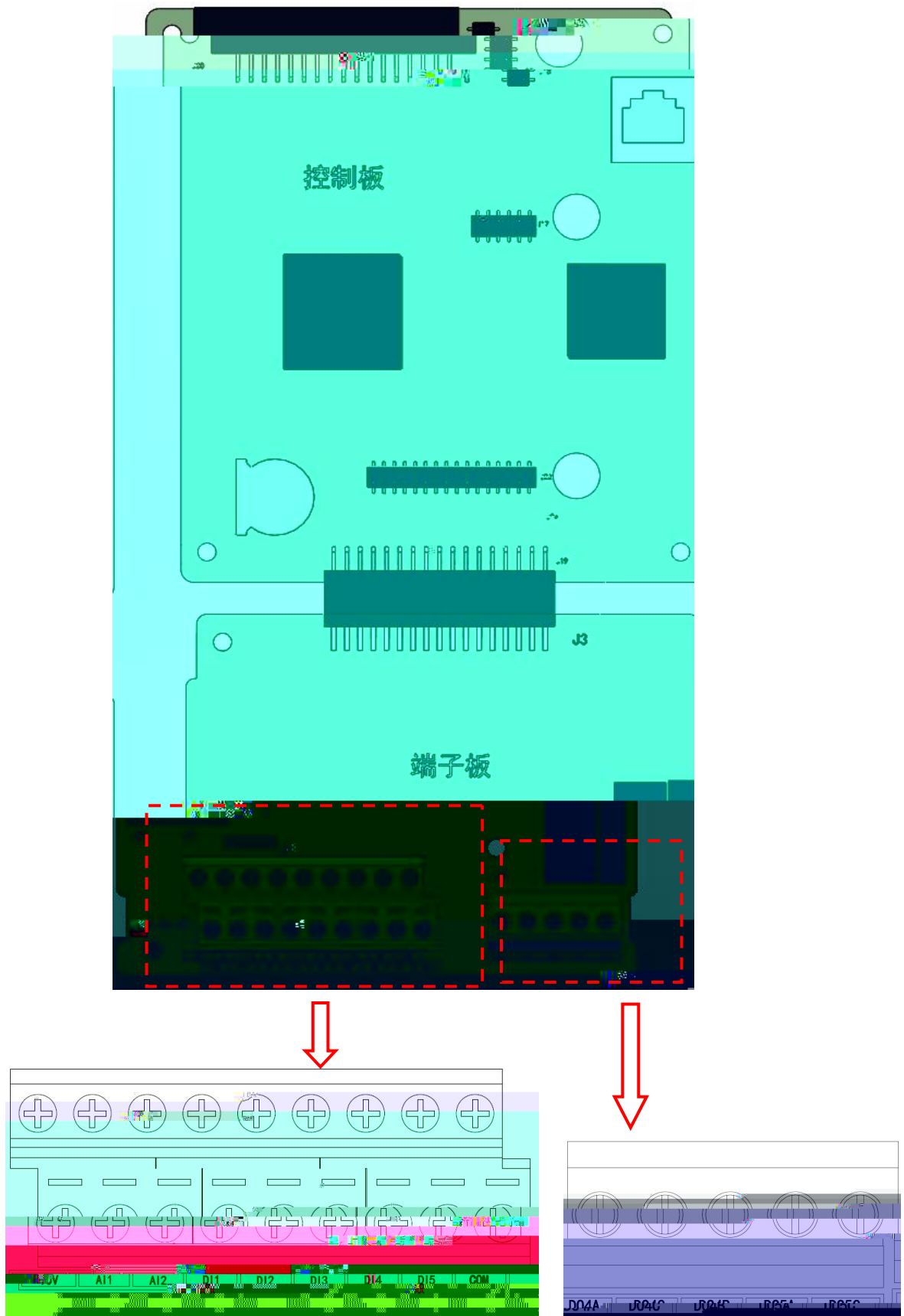


		MVSTBW 2.5/4-STF-5.08		
1	1	KFG2H1613-03	SMC	
1	1	T1613W	SMC	
2	2	KFG2H1209-03	SMC	
2	2	T1209W	SMC	

1

+	
-	
U V W	
PE	





+10V-GND	10V		+10V	50mA
		Ω		1k Ω ~5k
+24V-COM	24V		+24V	
				200mA
PW			24V	
			DI1~DI5 D01	PW
AI1-GND	1		24V	
			DC -10V~10V	
			100k Ω	
			-10VDC~10VDC/0mA~20mA	
AI2-GND	2	J1		
			100k Ω	
			500 Ω	
DI1- PW	1			

b

J

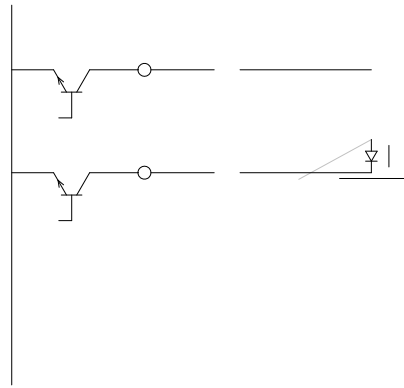
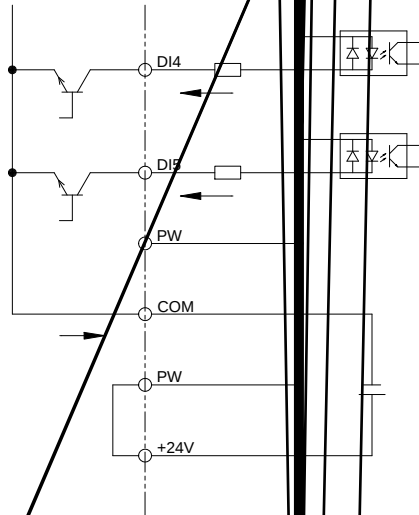
U

3

0V

NPN

N P N



0V

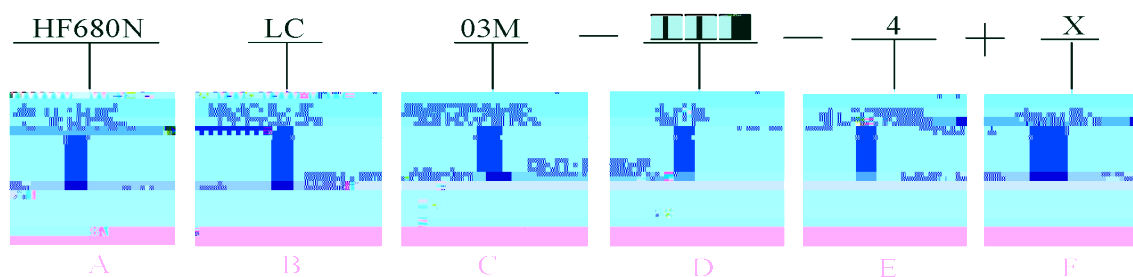
MO

И Б И

М

12

4.3



A	
B	LC
C	03M 03C
D	250 250kW 630 630kW
E	4 380V
F	

Modbus RTU

MB01

GDHF-AMBX1

Modbus RTU

DP

DP01

GDHF-ADPX1

Profibus DP

PN

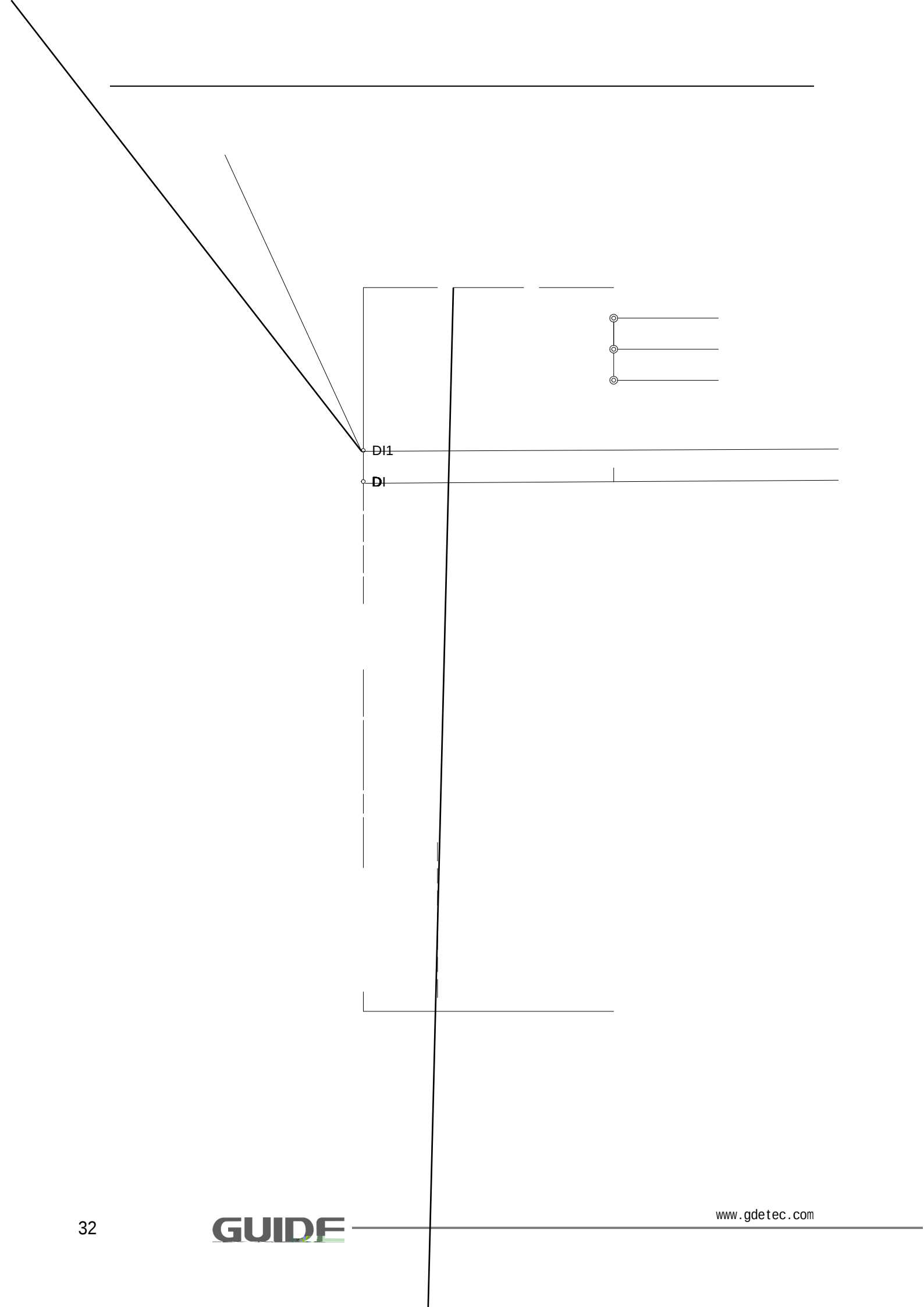
PN01

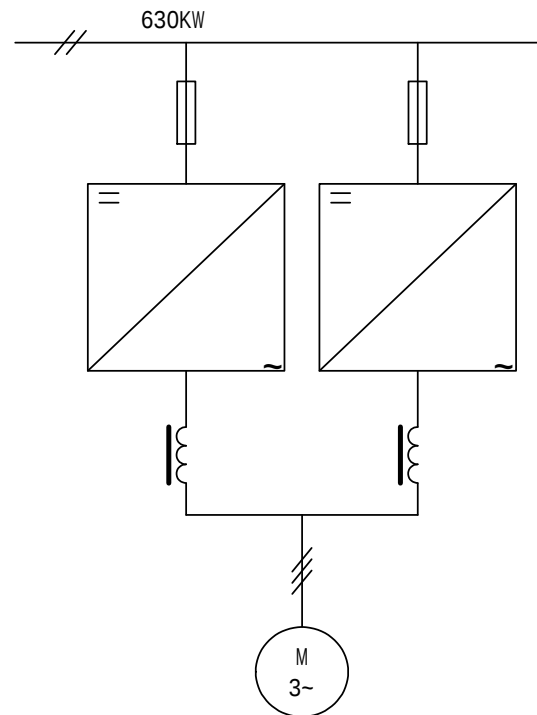
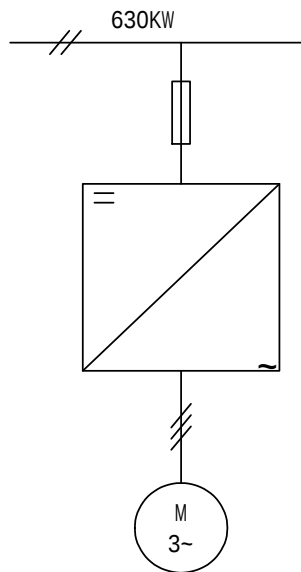
GDHF-APNX1

Profinet

	[A]	[kW]		^{mm} H*W*D	kg
HF680NLC03M-250-4	485	250	Q1	1100*253*525	120
HF680NLC03M-280-4	545	280			
HF680NLC03M-315-4	610	315			
HF680NLC03M-355-4	668	355			
HF680NLC03M-400-4	720	400			
HF680NLC03M-450-4	820	450			
HF680NLC03M-500-4	970	500			
HF680NLC03M-560-4	1030	560			
HF680NLC03M-630-4	1103	630			

- 1 200%
- 2 50% HF680NLC03M
- 3 HF680NLC03M



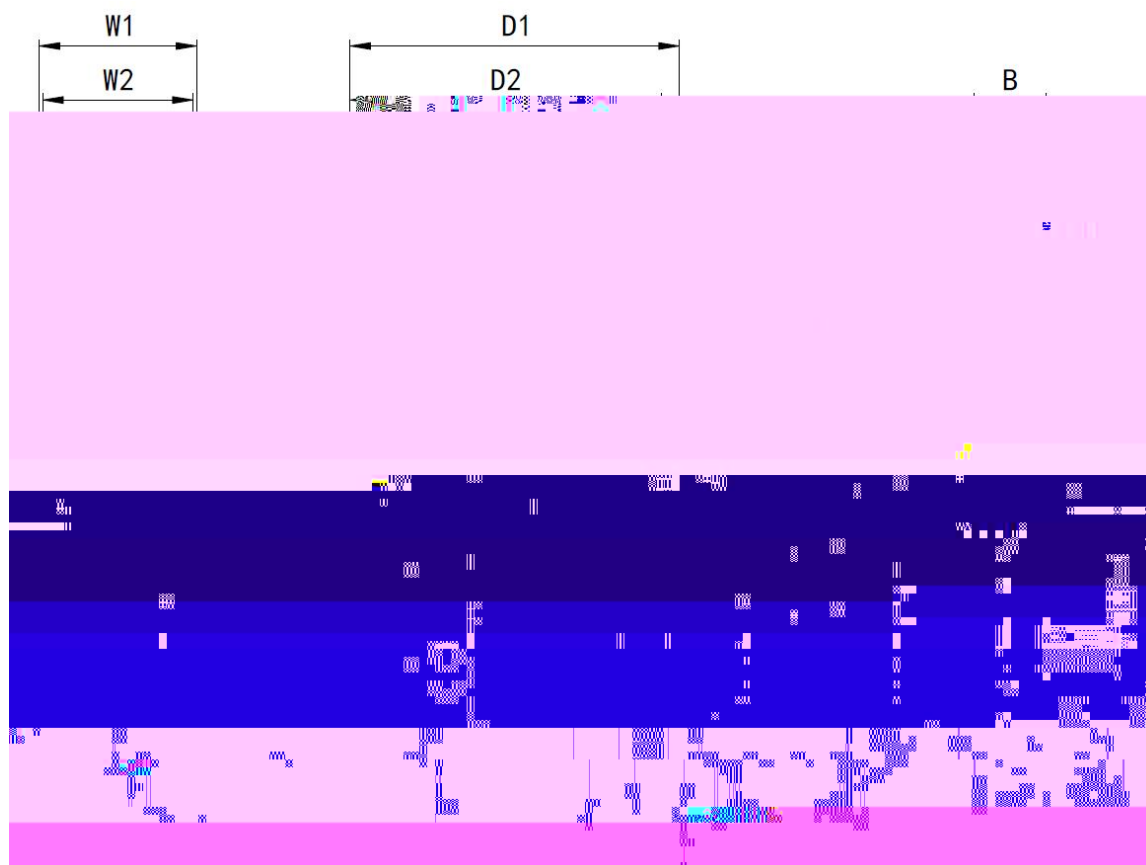


	mm ²	V/A
HF680NLC03M-250-4	2 × 95	1000/600
HF680NLC03M-280-4	2 × 95	1000/700
HF680NLC03M-315-4	2 × 120	1000/700
HF680NLC03M-355-4	2 × 120	1000/800
HF680NLC03M-400-4	2 × 150	1000/900
HF680NLC03M-450-4	2 × 185	1000/1000
HF680NLC03M-500-4	4 × 95/2 × 240	1000/1200
HF680NLC03M-560-4	4 × 95/2 × 240	1000/1400
HF680NLC03M-630-4	4 × 120/2 × 300	1000/1600

630kW

5.

5.1



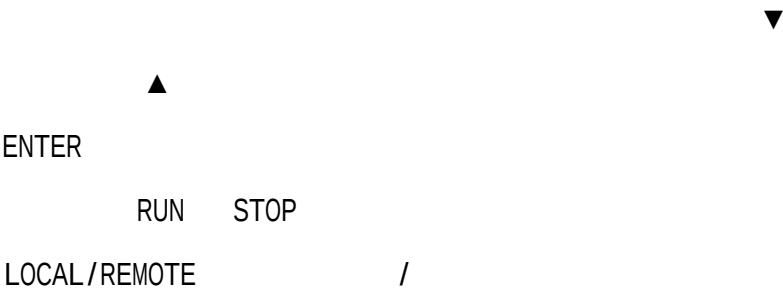
	mm					mm			8.8	kg
	H1	W1	W2	D1	D2	A	B			
HF680NLC03M-250-4	1100	253	241	525	500	1055	115	4- φ 13	4-M12	120
HF680NLC03M-280-4										
HF680NLC03M-315-4										
HF680NLC03M-355-4										
HF680NLC03M-400-4										
HF680NLC03M-450-4										
HF680NLC03M-500-4										
HF680NLC03M-560-4										
HF680NLC03M-630-4										

6.

6.1

HF680N					F1
LOCAL/REMOTE	F2	RUN	STOP	/RESET	ENTER
				Γ	

6.2



6.3



“ ” “ ” 2

|

	“ _ ”
	:V
	A
|	N|N W E



4

ENTER

F1/F2

6.4

1	Option Set	
2	Parameter Setting	/
3	Reference Set	
4	Function Setting	
5	Fault Record	

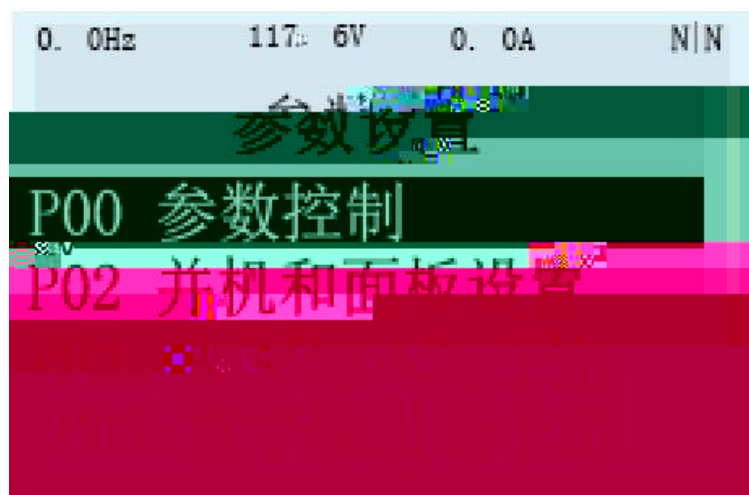
6	Security	
---	----------	--

6.4.1

- 1 Choose Direction
- 2 Reset Error
- 3 Menu Language

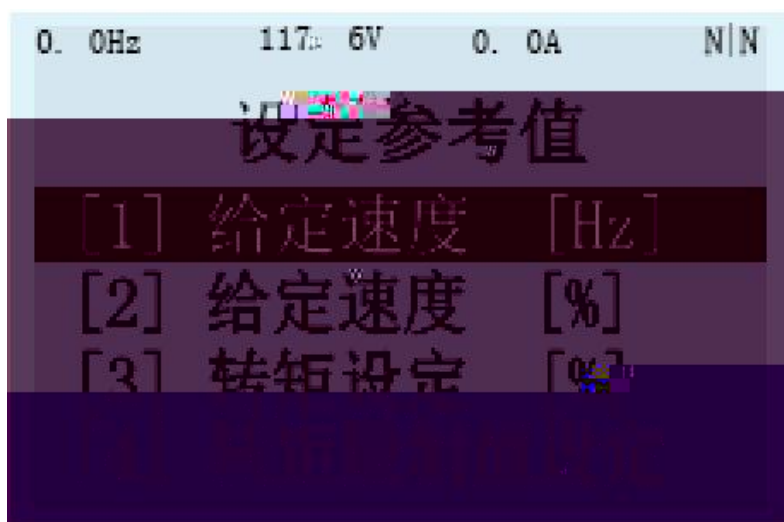
8	OLD COM	
---	---------	--

6.4.2



Parameter Setting

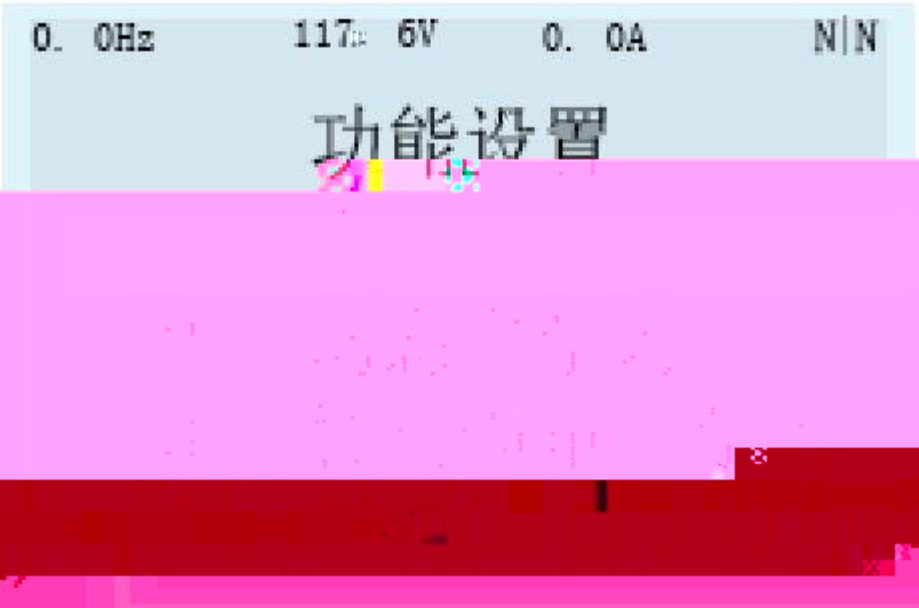
6.4.3



Reference Set

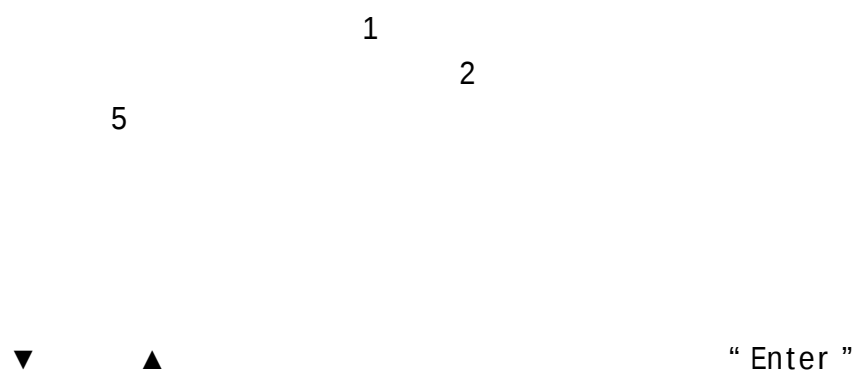
Reference Set	Speed	[Hz]	Hz
		[%]	%
	Torque	[%]	%
	Torque limiter	[%]	%
	1	[%]	1
	2	[%]	2

6.4.4

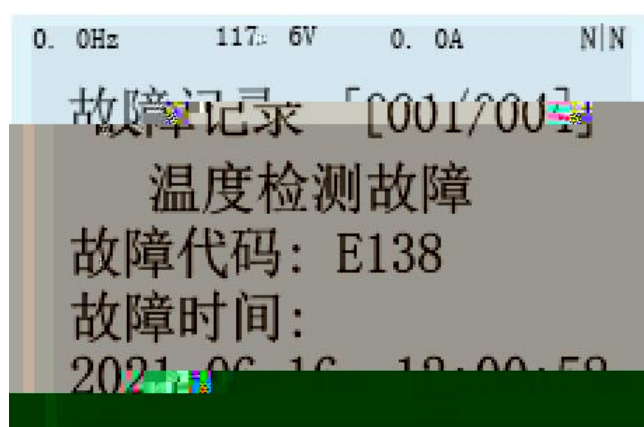


Function Setting

1	MotoTuning I		
2	MotoTuning II		
3	MotoTuning III		
4	DC-Link Tuning (AFE)	AFE	
5	Shortcut Paras Setting		
6	Parameter Initialization		
7	Delete Fault Records		
8	System Restart		
9	Backup Parameter		
10	Recover Parameter		
11	Compare Parameter		
12	Backup Para DSP DSP	DSP	
13	Restore Para DSP DSP	DSP	



6.4.5



Fault Record

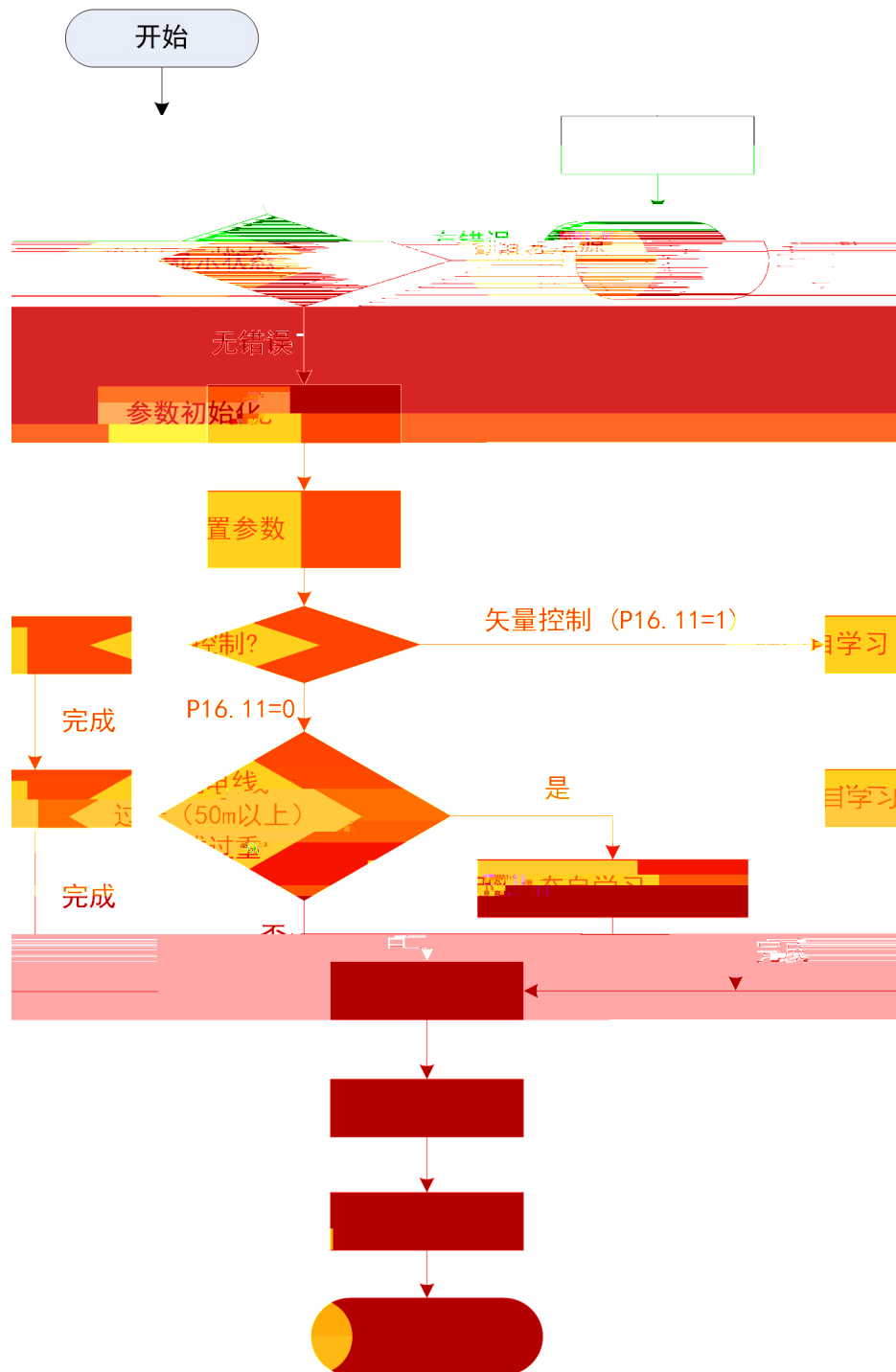
6.4.6

Access Permissions



7.

7.1



/

V/F	P16.11=0	V/F
	P16.11=2	P16.11=1

7.2

1		
2		
3		
4	AC380~480V	50/60Hz
5		U,V,W
6		
7	PG	PG
Ä8	; A50 D(æ	ķ ķ

7.2.1

5.4

7.2.2

P16.2

P16.3

P16.4

P16.5

P16.6

P16.7

120 × P16.5 / P16.6

P16.9

5

ð

P8.10		[0] I/O [1] 1 [2] 2 [3] [4] DP [5] MODBUS [6]	3
P8.3		[0] [1]	1
P7.0	[1]	0~300[%]	180%
P7.4	[1]	0~300[%]	235%
P7.19	[1]	100.0 720.0[%]	120%

7.2.3

V₁

P16.11 [1] [2] " m "

H



4

50%

7.2.4

HF680N

1				
2		LOC/REM	LOCAL	LOCAL
3		ENTER	[1]	RUN
	RUN			5Hz

8.

8.1

8.1.1

DI1

DI2

DI3: 14

DI4

D02

D03:

D04

D0

D05

1

380V

220V

P0.1

“

”

“

”

“ D04A ”

“ D04C ”

“ D05A ”

“ D05C ”

P4.3 D04 0

AFE " Stop

P8.6 0.5s Run

A B C

Stop

P N P N Local/Remote

Local P24.21 0 " "

" " Stop P24.28

P24.21 1

Local/Remote Remote PLC

2

380V 220V

<http://www.guide-edrive.com>

P0.1

P16.11 0 V/F P4.1 57 P4.3 58

P4.4 59

100.15 100.16 100.17 1

D02 PLC D04 D05

100.15 100.16 100.17 0

参数	名称	值	单位
100.15	DO 功能本地测试 1	1	
100.16	DO 功能本地测试 2	0	
100.17	DO 功能本地测试 3	0	

P3.0-P3.7 0 PLC DI DI

DI 1



参数	名称	16	13	12	11	10	9	8	7	6	5	4	3	2
101.5	数字量输入端子 [01 ~ 16]													
101.6	数字量输出端子 [01 ~ 16]													

P3.0	1	
P3.1	20	
P3.2	14	LCL
P3.3	5	
P4.1 D02	2	
P4.2 D03	1	
P4.3 D04	0	D0
P4.4 D05	32	
P7.0	180%	
P7.4	200%	
P7.12	730V	430V 800V
P8.6	300s	300s 0.5s
P16.0	380V	
P16.2		400kW 400kW
P16.4		400kW 640A
P16.11	3	
P16.12	3	3K
P24.7	0V	ADJ

P16.0 P24.7 =P16.0
+P24.7 P16.0

P16.0 ≤ 375V 580V
375V P16.0 ≤ 400V 600V

400V P16.0 ≤ 430V 630V
430V P16.0 ≤ 450V 665V
450V P16.0 ≤ 460V 680V
P16.0 460V 700V
620V P16.0 380V P24.7
20V 620V

380V “ /F 0; ” “ ”

运行

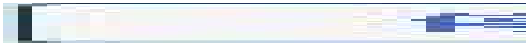
 103.23
IGBT 300s 103.31 AFE
49-51Hz 103.30 AFE

停止

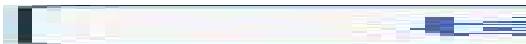
P8.6 0.5s

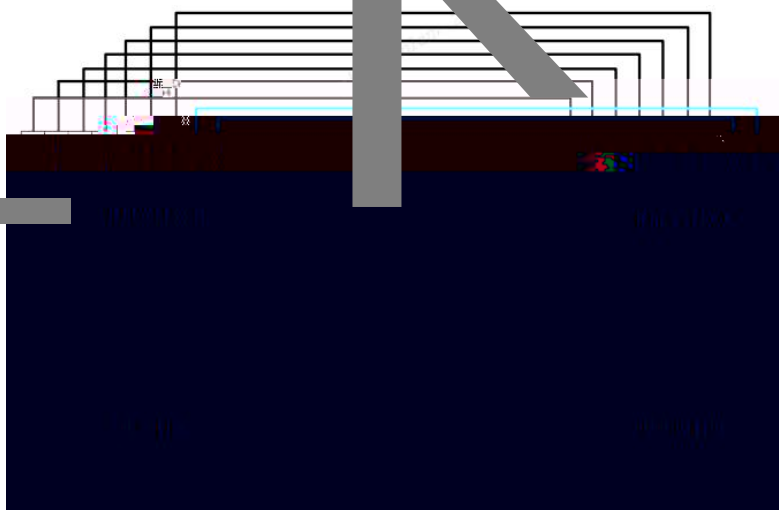
运行

 È 103.23
102.54 102.55 102.56



P N P ÑN





PIN

Ä4000057 Qb„Et'äp ,

P16.0	380V			
P16.2		1/2	800kW	400kW
P16.4		1/2	800kW	608A
P16.11				

P16.11	3	
P16.12	3	3K
P24.7	0V	ADJ

P16.0

P24.7

=P16.0

+P24.7

P16.0

P16.0 ≤ 375V

580V

375V P16.0 ≤ 400V

600V

400V P16.0 ≤ 430V

630V

430V P16.0 ≤ 450V

665V

450V P16.0 ≤ 460V

680V

P16.0 460V

700V

620V

P16.0

380V

P24.7

20V

620V

220V

220V

[W1]

380V

Local / Remote

Local

Run

IGBT

300s

“ AFE ”

49-51Hz

“ AFE ”

Stop

P8.6

0.5s

Run

A

B

C

Stop

P N

P N

Local / Remote

Local

P24.21

0

“ ”

“ ”

Stop

P24.28

P24.21

1

Local/Remote

Remote

PLC FTT•

2

380V

220V

P0.1

DI

DO

DO

P16.11

0 V/F

P4.1

57

P4.3

58

P4.4

59

100.15 100.16 100.17 1

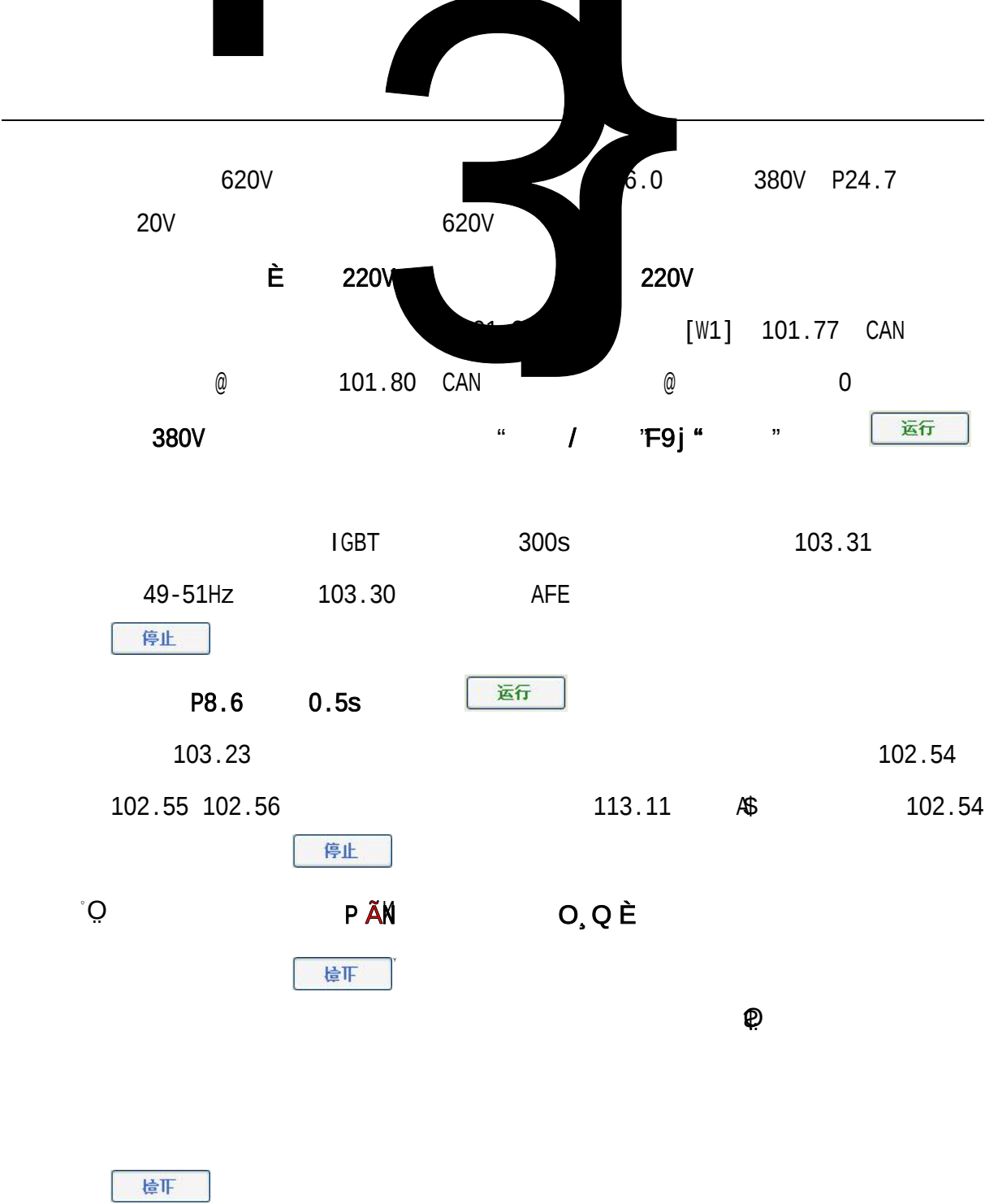
100.15 100.16 100.17 0 ,

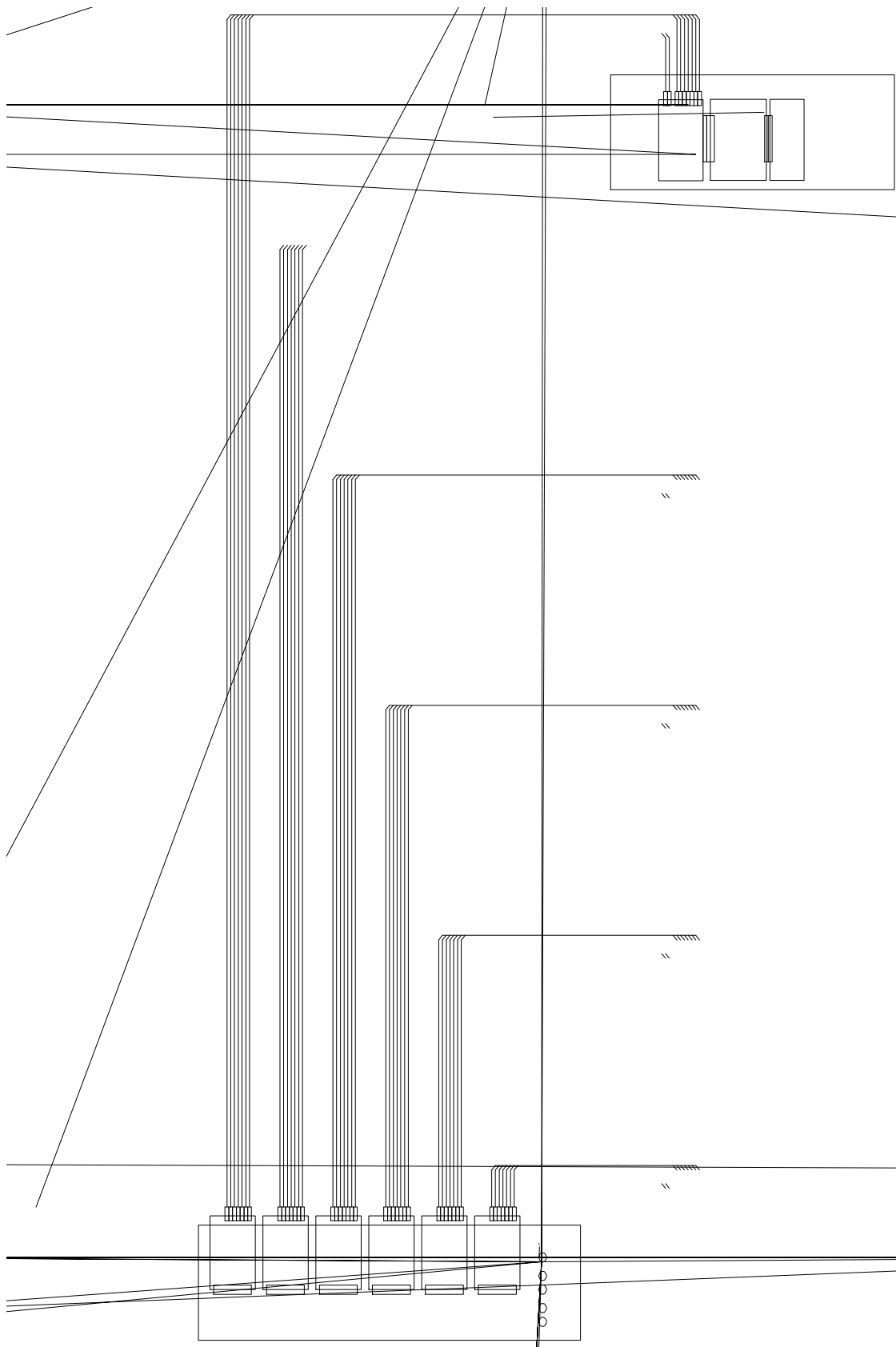
参数	名称	16	13	12	11	10	9	8	7	6	5	4	3	2
101.5	数字量输入端子 [01 ~ 16]													
101.6	数字量输出端子 [01 ~ 16]													

bT														
P2.0		2												
P3.2		14												
P4.3	D04	0												
P4.4	D05	32												
P4.1	D02	2												
P7.0		180%												
P7.4		200%												
P7.12		730V												
P16.0		380V												
P16.2			0											

P3.1	20			
P3.2	2 „14		LCL	
P3.3	5			
P4.1 D02	2			
P4.2 D03	1			
P4.3 D04	0		D0	
P4.4 D05	32			
P7.0	180%			
P7.4	200%			
P7.12	730V			430V
			800V	
P8.6	300s			300s
			0.5s	
P16.0	380V			
P16.2			800kW	800kW
P16.4			800kW	1216A
P16.11	3			
P16.12	3			3K
P24.7	0V		ADJ	







1 “ D05A ” “ D05C ” 1

D02 PLC 1

P3.0-P3.7 0 PLC DI



DI DI 1

参数	名称	16	13	12	11	10	9	8	7	6	5	4	3	2
101.5	数字量输入端子 [01 ~													
101.6	数字量输出端子 [01 ~ 16]													

220V

1 2 3 4 5

AFE

P2.0 2

P3.1 20

P3.2



P16.12	3	3K
--------	---	----

AFE

P2.0	1
P2.3	2 3 4 5 2
P3.0	1
P3.1	20
P3.2	14 LCL
P3.3	5

24.7

+P24.7

P16.0 ≤ 375V

375V P16.0 ≤ 400V

400V P16.0 ≤ 430V

430V P16.0 ≤ 450V

450V P16.0 ≤ 460V

P16.0 460V

620V

P16.0

380V

P24.7

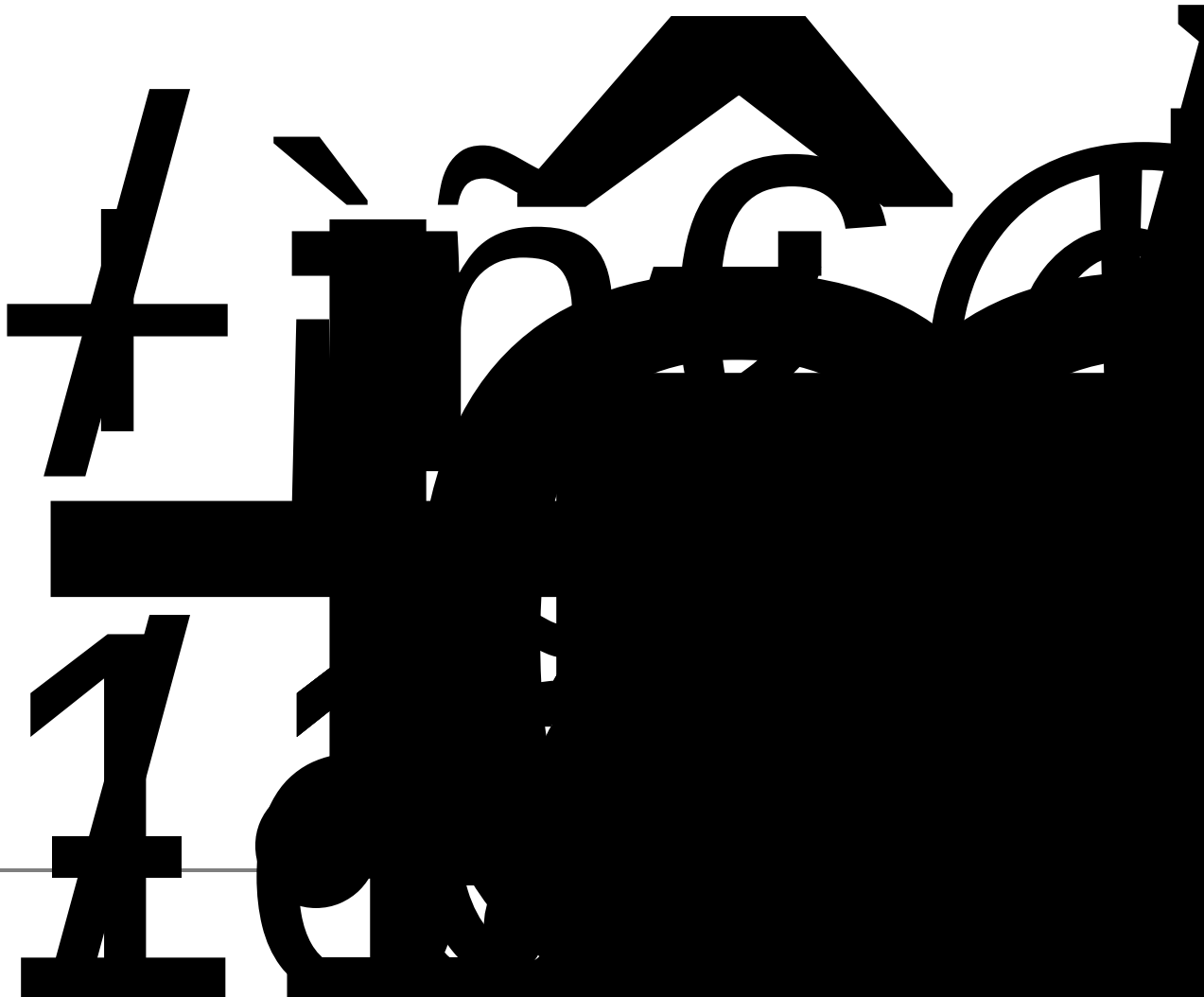
20V

620V

220V

220V

9



A

B

C

102.54

102.55

102.56

1

113.11

113.12

113.13

113.8

2

113.30

113.31

113.32

113.27

3

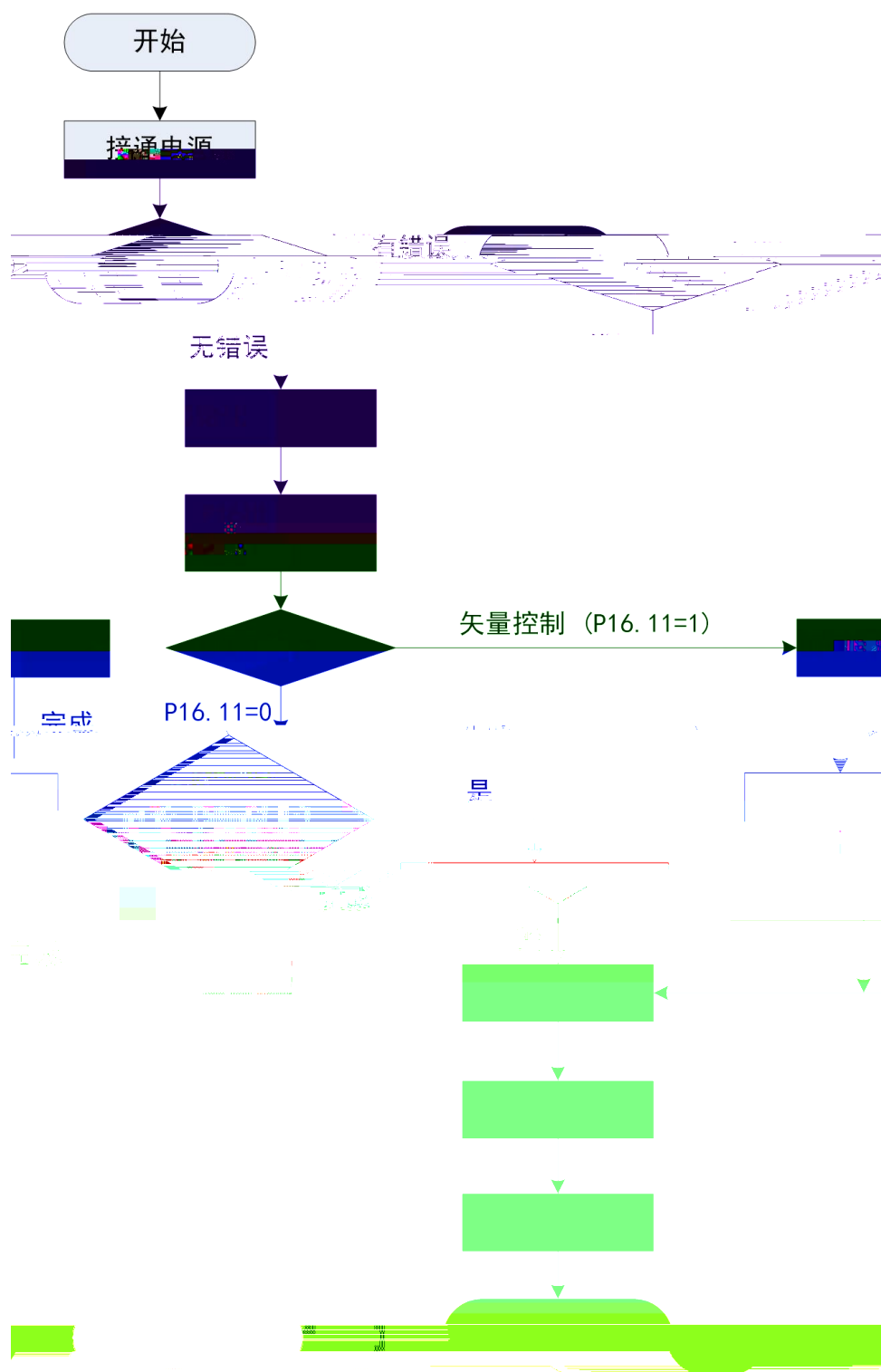
113.49

113.50

113.51

113.4:6

8.2



/

V/F

P16.11=0

V/F

P16.11=2

P16.11=1

8.3

8.3.1

- 1
- ± 5V
- 2
- U,V,W
- 3
- 4
- PG
- PG

8.3.2

0. 0Hz	560. 5V	0A	N/N
电机速度[Hz] : 0 Hz			
给定频率[Hz] : 0 Hz			
母线电压 : 560 V			

0. 0Hz	300V	0A	W/E
--------	------	----	-----

8.3.3

6

8.3.4

		[0]		
		[1]		
P8.0		[2]DP		1
		[3]MODBUS		
		[4]		
P8.3		[0]		1
		[1]		
P8.6		0	300s	0
P8.7			0	300s
				0
		[0]I/O		
		[1]	1	
		[2]	2	
P8.10		[3]		3
		[4]DP		
		[5]MODBUS		
		[6]		
P8.14		0.1	10.0	1
P8.15	1			

P16.0		380V
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]

8.3.5

5

P16.11 [1] [2]
[0] V/F

6

V/F (P20.74)
P20.74

P20.78 P20.79 P20.84

“

”

“

”

7

P20.79 P20.84

P20.85~P20.97

22

P20.98

HF680N

V/F

1

2

1

2

8.3.9

9.

9.1

9.1.1

P2.0		[0] [1] [2]	0 2	0	450kW [0] 450kW [1] [2]
P2.2		[0] [1]	0 1	0	
P2.3			0 5	1	

9.1.2

P3.0	1		0 32	1	
P3.1	2		0 32	2	
P3.2	3		0 32	5	
P3.3	4		0 32	6	
P3.4	5		0 32	7	
P3.5	6		0 32	8	
P3.6	7		0 32	0	
P3.7	8		0 32	0	

0		
1		
5		</RST
14		
15	.NC	
20		

9.1.3

P4.0
1
0

0		
1		
2		ON
32		

9.1.4

P7.0	[1]		0.0 300.0 [%]	180.0 [%]	
P7.4	[1]		0.0 300.0 [%]	235.0 [%]	
P7.12			600 820 [V]	800 [V]	
P7.13			300 500 [V]	350 [V]	
P7.14			60.0 100.0 []	87.5 []	
P7.47			0.0 300.0 [%]	100.0 [%]	
P7.48	1	1	0.0 300.0 [%]	150.0 [%]	
P7.49	1	1	0.00 60.00 [s]	60.00 [s]	
P7.50	2	2	0.0 300.0 [%]	200.0 [%]	
P7.51	2	2	0.00 5.00 [s]	5.00 [s]	
P7.95			0.0 20.0 [s]	15.00 [s]	

9.1.5

P8.0		[0] [1] [2]DP [3]MODBUS [4]	0 4	0	
P8.6			0.00 300.00 [s]	0.00 [s]	IGBT

9.1.6

P16.0			320 460 [V]	380 [V]	
P16.2			0.0 4000.0 [kW]	[kW]	
P16.4			0.0 6500.0 [A]	[A]	
P16.11		[0]V/F [1] [2] [3] [4]	0 4	0	[3]
P16.12			3 8 [kHz]	3 [kHz]	3 8kHz

9.1.7 AFE

P24.0		[0]	1	2	0 6	0	AFE	[0]
		[1]						
		[2]						
		[3]						
		[4]DP						
		[5]MODBUS						
P24.1	@	[6]	1	2	0 347	0	AFE	[0]
		[0]						
		[1]						
		[2]						
		[3] DP						
		[4]MODBUS						
P24.2	@	[5]	1	2	0 5	0	AFE	[0]
		[0]						
		[1]						
		[2]						
		[3] DP						
		[4]MODBUS						
P24.3	@	[5]	1	2	0 347	0	AFE	[0]
		[0]						
		[1]						
		[2]						
		[3] DP						
		[4]MODBUS						
P24.7	ADJ	[5]	1	2	-30 30[V]	0[V]	AFE	[0]
		[0]						
		[1]						
		[2]						
		[3] DP						
		[4]MODBUS						
P24.12	Kp	[5]	1	2	0 1000[%]	100[%]	AFE	[0]
		[0]						
		[1]						
		[2]						
		[3] DP						
		[4]MODBUS						
P24.13	Ki	[5]	1	2	0 1000[%]	100[%]	AFE	[0]
		[0]						
		[1]						
		[2]						
		[3] DP						
		[4]MODBUS						
P24.14	@	[5]	1	2	0 1000[%]	200[%]	AFE	[0]
		[0]						
		[1]						
		[2]						
		[3] DP						
		[4]MODBUS						
P24.15	@	[5]	1	2	0 1000[%]	200[%]	AFE	[0]
		[0]						
		[1]						
		[2]						
		[3] DP						
		[4]MODBUS						
P24.16	Kp	[5]	1	2	0 1000[%]	100[%]	AFE	[0]
		[0]						
		[1]						
		[2]						
		[3] DP						
		[4]MODBUS						
P24.17	Ki	[5]	1	2	0 1000[%]	100[%]	AFE	[0]
		[0]						
		[1]						
		[2]						
		[3] DP						
		[4]MODBUS						

P24.21			[0]	0	1	0	
			[1]				
P24.22				0		30[ms]	
				300[ms]			
P24.25			[0]	0	1	1	
			[1]				
P24.26				0	150[%]	100[%]	
P24.27	PWM	LB		0	65	0	AFE
					[mH]		
P24.28	2						

10.

10.1

P2

P2.0		[0] [1] [2]	0 2	0	
P2.1		[0] [1]DP	0 1	0	
P2.2		[0] [1]	0 1	0	
P2.3			0 5	1	

10.2

P3

P3.0	1		0 32	1	
P3.1	2		0 32	2	
P3.2	3		0 32	5	
P3.3	4		0 32	6	
P3.4	5		0 32	7	
P3.5	6		0 32	8	
P3.6	7		0 32	0	
P3.7	8		0 32	0	
P3.12		[0] [1]	0 1	0	

24		
25	FUNC 25	
26		
27	FUNC 27	
28		
29	FUNC 29	

10.3

P4

10.4

P5

P6.7	A01	A01 (P6.0 [13])	0.0 100.0[%]	0.0[%]	
P6.8	A01	A01	0.0 1000.0 [ms]	10.0[ms]	
P6.14	A02	7-1	0 14	4	
P6.15	2		0 1000	0	
P6.16	A02	A02	-300.0 300.0[%]	0.0[%]	
P6.17	A02	A02	-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	A02	-100.00 100.00[%]	0.00[%]	
P6.21	A02	A02 (P6.14 [13])	0.0 100.0[%]	0.0[%]	
P6.22	A02	A01	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		

10.6

P7

P7.0	[1]	1	0.0 300.0[%]	180.0[%]
P7.1	[2]	2	0.0 300.0[%]	180.0[%]
P7.2	[3]	3	0.0 300.0[%]	180.0[%]
P7.3	[4]	4	0.0 300.0[%]	180.0[%]
P7.4	[1]	1	0.0 300.0[%]	235.0[%]
P7.5	[2]	2	0.0 300.0 [%]	235.0[%]
P7.6	[3]	3	0.0 300.0[%]	235.0[%]
P7.7	[4]	4	0.0 300.0[%]	235.0[%]
P7.8	[1]	1	0.0 100.0[%]	20.0[%]
P7.9	[2]	2	0.0 100.0[%]	20.0[%]
P7.10	[3]	3	0.0 100.0 [%]	20.0[%]
P7.11	[4]	4	0.0 100.0[%]	20.0[%]
P7.12			600 820[V]	800[V]
P7.13			300 [500]V "	350[V]
P7.14			60.0 100.0[]	87.5[]
P7.15			50.0 100.0[]	80.0[]
P7.19	[1]	1	100.0 720.0[%]	120.0[%]
P7.20	[2]	2	100.0 720.0[%]	120.0[%]
P7.21	[3]	3	100.0 720.0[%]	120.0[%]
P7.22	[4]	4	100.0 720.0[%]	120.0[%]
P7.23	1 M1	1	0.00 3.00[s]	0.50[s]

P7.24

P7.74			300 500[V]	460[V]	
P7.75			0.0 1000.0[%]	100.0[%]	
P7.76			0.00 300.00[s]	1.00[s]	
P7.77			0.0 200.0[%]	15.0[%]	
P7.94		[0] [1]	0 1	1	
P7.95		AFE	0.0 3000.0[s]	15.0[s]	
P7.96			0.00 300.00[s]	0.00[s]	

10.7 1 P8

P8.0		[0] [1] [2]DP [3]MODBUS [4]	0 4	0	
P8.1					
P8.2					
P8.3		[0] [1]	0 1	0	
P8.6			0.00 300.00 [s]	0.00[s]	
P8.7			0.00 300.00 [s]	0.00[s]	
P8.10		[0] I/O [1] 1 [2] 2 [3] [4]DP [5]MODBUS [6]	0 6	0	
P8.11					

P8.13		[0] [1]PROFIBUS [2]MODBUS [3]	0 3	0	
P8.14			0.1 10.0	1.0	
P8.15	1		0.0 300.0 [%]	100.0[%]	
P8.16	1	P8.15	0.0 300.0 [s]	3.00[s]	
P8.17	2		0.0 300.0 [%]	200.0[%]	
P8.18	2	P8.15 P8.17	0.0 300.0[s]	4.00[s]	
P8.19	3		0.0 300.0[%]	240.0[%]	
P8.20	3	P8.17 P8.19	0.0 300.0[s]	7.00[s]	
P8.21	4		0.0 300.0[%]	300.0[%]	
P8.22	4	P8.19 P8.21	0.0 300.0[s]	10.00[s]	
P8.23	5		0.0 300.0[%]	300.0[%]	
P8.24	5	P8.21 P8.23	0.0 300.0[s]	10.00[s]	
P8.25	6		0.0 300.0[%]	300.0[%]	
P8.26	6	P8.23 P8.25	0.0 300.0[s]	10.00[s]	
P8.27	7		0.0 300.0[%]	300.0[%]	
P8.28	7	P8.25 P8.27	0.0 300.0[s]	10.00[s]	
P8.29	8		0.0 300.0[%]	300.0[%]	
P8.30	8	P8.27 P8.29	0.0 300.0[s]	10.00[s]	
P8.32		[0] [1]PROFIBUS [2]MODBUS [3]	0 3	0	
P8.33			0.1 10.0	1.0	
P8.34	1		0.0 300.0[%]	100.0[%]	

P9.0		[0] [1] [2]DP [3]MODBUS [4]	0 4	0	
P9.1					
P9.2					
P9.3		[0] [1]	0 1	0	
P9.6			0.00 300.00[s]	0.00[s]	
P9.7			0.00 300.00[s]	0.00[s]	
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	
P9.14			0.1 10.0	1.0	
P9.15	1		0.0 300.0 [%]	100.0 [%]	
P9.16	1	P9.15	0.0 300.0 [s]	3.00[s]	
P9.17	2		0.0 300.0 [%]	200.0 [%]	

P9.37	2	P9.34 P9.36	0.0 300.0 [s]	4.00 [s]	
P9.38	3		0.0 300.0 [%]	240.0 [%]	
P9.39	3	P9.36 P9.38	0.0 300.0 [s]	7.00 [s]	
P9.40	4		0.0 300.0 [%]	300.0 [%]	
P9.41	4	P9.38 P9.40	0.0 300.0 [s]	10.00 [s]	
P9.42	5		0.0 300.0 [%]	300.0 [%]	
P9.43	5	P9.40 P9.42	0.0 300.0 [s]	10.00 [s]	
P9.44	6		0.0 300.0 [%]	300.0 [%]	
P9.45	6	P9.42 P9.44	0.0 300.0 [s]	10.00 [s]	
P9.46	7		0.0 300.0 [%]	300.0 [%]	
P9.47	7	P9.44 P9.46	0.0 300.0 [s]	10.00 [s]	
P9.48	8		0.0 300.0 [%]	300.0 [%]	
P9.49	8	P9.46 P9.48	0.0 300.0 [s]	10.00 [s]	
P9.54			0.0 300.0 [%]	0.0 [%]	
P9.55		[0] [1]	0 1	0	
P9.56			0.00 300.00 [s]	3.00 [s]	
P9.57		[0] [1]	0 1	1	
P9.58			0.00 300.00 [s]	1.50 [s]	

10.9

3

P10

P10.0

[0]

[1]

[2]DP

[3]MODBUS

[4]

0 4

0

P10.1

P10.18	2	P10.15 P10.17	0.0 300.0 [s]	4.00 [s]	
P10.19	3		0.0 300.0 [%]	240.0 [%]	
P10.20	3	P10.17 P10.19	0.0 300.0 [s]	7.00 [s]	
P10.21	4		0.0 300.0 [%]	300.0 [%]	
P10.22	4	P10.19 P10.21	0.0 300.0 [s]	10.00 [s]	
P10.23	5		0.0 300.0 [%]	300.0 [%]	
P10.24	5	P10.21 P10.23	0.0 300.0 [s]	10.00 [s]	
P10.25	6		0.0 300.0 [%]	300.0 [%]	
P10.26	6	P10.23 P10.25	0.0 300.0 [s]	10.00 [s]	
P10.27	7		0.0 300.0 [%]	300.0 [%]	
P10.28	7	P10.25 P10.27	0.0 300.0 [s]	10.00 [s]	
P10.29	8		0.0 300.0 [%]	300.0 [%]	
P10.30	8	P10.27 P10.29	0.0 300.0 [s]	10.00 [s]	
P10.32		[0] [1]PROFIBUS [2]MODBUS [3]	0 3	0	
P10.33			0.1 10.0	1.0	
P10.34	1		0.0 300.0 [%]	100.0 [%]	
P10.35	1	P10.34	0.0 300.0 [s]	3.00 [s]	
P10.36	2		0.0 300.0 [%]	200.0 [%]	

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

10.10

4

P11

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

[T]
0T00

T

\$A

103.000
0
[1]

>Ⓢ

P11.18	2	P11.15 P11.17	0.0 300.0 [s]	4.00 [s]	
P11.19	3		0.0 300.0 [%]	240.0 [%]	
P11.20	3	P11.17 P11.19	0.0 300.0 [s]	7.00 [s]	
P11.21	4		0.0 300.0 [%]	300.0 [%]	
P11.22	4	P11.19 P11.21	0.0 300.0 [s]	10.00 [s]	
P11.23	5		0.0 300.0 [%]	300.0 [%]	
P11.24	5	P11.21 P11.23	0.0 300.0 [s]	10.00 [s]	
P11.25	6		0.0 300.0 [%]	300.0 [%]	
P11.26	6	P11.23 P11.25	0.0 300.0 [s]	10.00 [s]	
P11.27	7		0.0 300.0 [%]	300.0 [%]	
P11.28	7	P11.25 P11.27	0.0 300.0 [s]	10.00 [s]	
P11.29	8		0.0 300.0 [%]	300.0 [%]	
P11.30	8	P11.27 P11.29	0.0 300.0 [s]	10.00 [s]	
P11.32		[0] [1]PROFIBUS [2]MODBUS [3]	0 3	0	
P11.33			0.1 10.0	1.0	
P11.34	1		0.0 300.0 [%]	100.0 [%]	
P11.35	1	P11.34	0.0 300.0 [s]	3.00 [s]	
P11.36	2		0.0 300.0 [%]	200.0 [%]	

P11.37	2	P11.34 P11.36	0.0 300.0 [s]	4.00 [s]	
P11.38	3		0.0 300.0 [%]	240.0 [%]	
P11.39	3	P11.36 P11.38	0.0 300.0 [s]	7.00 [s]	
P11.40	4		0.0 300.0 [%]	300.0 [%]	
P11.41	4	P11.38 P11.40	0.0 300.0 [s]	10.00 [s]	
P11.42	5		0.0 300.0 [%]	300.0 [%]	
P11.43	5	P11.40 P11.42	0.0 300.0 [s]	10.00 [s]	
P11.44	6		0.0 300.0 [%]	300.0 [%]	
P11.45	6	P11.42 P11.44	0.0 300.0 [s]	10.00 [s]	
P11.46	7		0.0 300.0 [%]	300.0 [%]	
P11.47	7	P11.44 P11.46	0.0 300.0 [s]	10.00 [s]	
P11.48	8		0.0 300.0 [%]	300.0 [%]	
P11.49	8	P11.46 P11.48	0.0 300.0 [s]	10.00 [s]	
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]	

10.11 1 P12

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

P12.27		0.00 2.00 [s]	0.00 [s]	
P12.28		0.00 2.00 [s]	0.07 [s]	
P12.29		0.00 2.00 [s]	0.07 [s]	
P12.32		0.0 20.0 [%]	0.0 [%]	
P12.33		0.0 20.0 [%]	0.0 [%]	
P12.34		0.00 2.00 [s]	0.00 [s]	
P12.35		0.00 2.00 [s]	0.00 [s]	
P12.36		0.00 2.00 [s]	0.50 [s]	
P12.3-2		0.00 2.00 [s]	0.50 [s]	

10.12

P13

P13.0		[1]	0 1 1	
P13.1		[0][%] [1][Hz] [2][rpm]	0 2 1	
P13.2	1		0.0 3000.0	
P13.3	2		0.0 3000.0	
P13.4	3		0.0 3000.0	
P13.5	4		0.0 3000.0	
P13.6	5		0.0 3000.0	
P13. -2			0.0 3000.0	
P13.8	-22			
P13.9	8		0.0 3000.0	
P13.10	9		0.0 3000.0	

P13.11	10	0.0	3000.0	50.0
P13.12	11	0.0	3000.0	50.0
P13.13	12	0.0	3000.0	50.0
P13.14	13	0.0	3000.0	50.0
P13.15	14	0.0	3000.0	50.0
P13.16	15	0.0	3000.0	50.0
P13.17	16	0.0	3000.0	50.0
P13.22		0.0	20.0	2.0
			[%]	[%]
P13.23		0.0	20.0	0.0
			[%]	[%]
P13.24		0.0	200.0	30.0
			[%]	[%]
P13.25		0.0	200.0	20.0
			[%]	[%]
P13.26		0.00	2.00	0.00
			[s]	[s]
P13.27		0.00	2.00	0.00
			[s]	[s]
P13.28		0.00	2.00	0.07
			[s]	[s]
P13.29		0.00	2.00	0.07
			[s]	[s]
P13.32		0.0	20.0	0.0
			[%]	[%]
P13.33				

10.13 3 P14

P14.0		[0]	0	1	1
		[1]			
P14.1		[0][%]			
		[1][Hz]	0	2	1
		[2][rpm]			
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			0.0	20.0	2.0
				[%]	[%]
P14.23			0.0	20.0	0.0
				[%]	[%]
P14.24			0.0	200.0	30.0
				[%]	[%]
P14.25			0.0	200.0	20.0
				[%]	[%]
P14.26			0.00	2.00	0.00
				[s]	[s]

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

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 [%]	
P15.23			0.0 20.0 [%]	0.0 [%]	
P15.24			0.0 200.0 [%]	30.0 [%]	
P15.25			0.0 200.0 [%]	20.0 [%]	
P15.26			0.00 2.00 [s]	0.00 [s]	
P15.27			0.00 2.00 [s]	0.00 [s]	
P15.28			0.00 2.00 [s]	0.07 [s]	
P15.29			0.00 2.00 [s]	0.07 [s]	
P15.32			0.0 20.0 [%]	0.0 [%]	
P15.33			0.0 20.0 [%]	0.0 [%]	
P15.34			0.00 2.00 [s]	0.00 [s]	
P15.35			0.00 2.00 [s]	0.00 [s]	
P15.36			0.00 2.00 [s]	0.50 [s]	
P15.37			0.00 2.00 [s]	0.50 [s]	

P16.22			0.00 100.00 [s]	0.00 [s]	
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 [%]	
P16.27			0.0 200.0 [%]	100.0 [%]	
P16.30			0.0 100.0 [%]	0.0 [%]	
P16.33	V/F	V/F	0 6	2	
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]	
P16.51			0.0 150.0 [%]	70.0 [%]	
P16.52			0.00 5.00 [Hz]	0.00 [Hz]	
P16.54			0.00 300.00 [s]	0.00 [s]	
P16.55			0.0 150.0 [%]	75.0 [%]	
P16.56			0.00 5.00 [Hz]	0.00 [Hz]	
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 [%]	
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 [%]	

10.16 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]	
P17.9			0 7200 [rpm]	1500 [rpm]	
P17.11		[0]V/F [1] [2] [3] [4]	0 4	0	
P17.12			1.00 10.00 [kHz]	3.00 [kHz]	
P17.14	V/F	[0] V/F [1] V/F [2]	0 3	0	
P17.15		[0] [1]	0 1	0	
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	

P17.22			0.00	100.00	0.00
			[s]		[s]
P17.23		V/F	0.00	300.00	0.00
			[Hz]		[Hz]
P17.24		V/F	0.00	300.00	50.00
			[Hz]		[Hz]
P17.25			0.0	120.0	100.0
			[%]		[%]
P17.26	V/F	V/F	0.00	10.00	0.75
			[%]		[%]
P17.27			0.0	200.0	100.0
			[%]		[%]
P17.30					

P17.48		[0] [1]PID 1 [2]PID 2 [3]	0 3	0	
P17.49	@		0 300	0	
P17.50			0.00 300.00 [s]	0.00 [s]	
P17.51			0.0 150.0 [%]	70.0 [%]	
P17.52			0.00 5.00 [Hz]	0.00 [Hz]	
P17.54			0.00 300.00 [s]	0.00 [s]	
P17.55			0.0 150.0 [%]	75.0 [%]	
P17.56			0.00 5.00 [Hz]	0.00 [Hz]	
P17.59			0.0 1000.0 [%]	100.0 [%]	
P17.60			0.0 1000.0 [%]	100.0 [%]	
P17.61			0.0 1000.0 [%]	100.0 [%]	
P17.62			0.0 1000.0 [%]	100.0 [%]	
P17.64	V/F	V/F	0.0 1000.0 [%]	100.0 [%]	
P17.66		V/F	0.0 1000.0 [%]	100.0 [%]	
P17.67			0.0 1000.0 [%]	100.0 [%]	
P17.68			0.0 1000.0 [%]	100.0 [%]	
P17.69			0.0 1000.0 [%]	100.0 [%]	
P17.70			0.0 1000.0 [%]	100.0 [%]	

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

10.18 4 V/F P19

P19.0 (, m "

P19.48		[0] [1]PID 1 [2]PID 2 [3]	0 3	0	
P19.49	@		0 300	0	
P19.50			0.00 300.00 [s]	0.00 [s]	
P19.51			0.0 150.0 [%]	70.0 [%]	
P19.52			0.00 5.00 [Hz]	0.00 [Hz]	
P19.54			0.00 300.00 [s]	0.00 [s]	
P19.55			0.0 150.0 [%]	75.0 [%]	
P19.56			0.00 5.00 [Hz]	0.00 [Hz]	
P19.59			0.0 1000.0 [%]	100.0 [%]	
P19.60			0.0 1000.0 [%]	100.0 [%]	
P19.61			0.0 1000.0 [%]	100.0 [%]	
P19.62			0.0 1000.0 [%]	100.0 [%]	
P19.64	V/F	V/F	0.0 1000.0 [%]	100.0 [%]	
P19.66		V/F	0.0 1000.0 [%]	100.0 [%]	
P19.67			0.0 1000.0 [%]	100.0 [%]	
P19.68			0.0 1000.0 [%]	100.0 [%]	
P19.69			0.0 1000.0 [%]	100.0 [%]	
P19.70			0.0 1000.0 [%]	100.0 [%]	

10.19 1 P20

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

P20.11			0 1000 [ms]	0 [ms]
P20.13			20.0 500.0 [ms]	100.0 [ms]
P20.14		1	0 60000	1024
P20.15	[0] [1]		0 1	0
P20.16			0.0 300.0 [%]	100.0 [%]
P20.17			0.0 300.0 [%]	100.0 [%]
P20.18			0.0 300.0 [%]	0.0 [%]
P20.19				

P20.30		[0] P20.31 P20.32 [1] 1 [2] 2 [3]	0 3	0	
P20.31			0.0 100.0 [%]	5.0 [%]	
P20.32			0.0 100.0 [%]	5.0 [%]	
P20.34		[0] [1]	0 1	0	
P20.35			0.0 100.0 [s]	0.0 [s]	
P20.36			50.0 150.0 [%]	110.0 [%]	
P20.37			0.0 150.0 [%]	100.0 [%]	
P20.38			0.0 100.0 [%]	25.0 [%]	
P20.39			0.0 120.0 [%]	100.0 [%]	
P20.40			0.0 150.0 [%]	100.0 [%]	
P20.41			0.0 150.0 [%]	135.0 [%]	
P20.42		[0] [1]	0 1	1	
P20.43			25 1000 [ms]	75 [ms]	
P20.44			25 1000 [ms]	250 [ms]	
P20.45			0.0 100.0 [%]	22.0 [%]	
P20.46			0.0 100.0 [%]	18.0 [%]	
P20.47			0.0 200.0 [%]	92.0 [%]	
P20.48			0.0 200.0 [%]	87.0 [%]	

P20.49

0.0 150.0 100.0
[%] [%]

P20.51

0.0 1000.0 100.0
[%] [%]

P20.52

0.0 1000.0 100.0
[%] [%]

P20.53

Kp

0.0 1000.0 100.0
[%] [%]

P20.54

Ki

0.0 1000.0 100.0
[%] [%]

P20.55

0.0 1000.0 1002022.
[%]

0.0



0.0

0.0

020.54

P20.95	5%	12	125%	40.0 150.0 [%]	77.0 [%]	
P20.96	0%	13	130%	40.0 150.0 [%]	70.5 [%]	
P20.97	5%	13	135%	40.0 150.0 [%]	63.5 [%]	
P20.98			()	0.01 300.00 [s]	0.75 [s]	
P20.99				0.00 10.00 [%]	0.00 [%]	

10.20 2 P21

P21.0 [0] 0 1 0
[1]

P21.1

[0]
[-0] 8

P21.7

P21.25			0.0 200.0 [%]	100.0 [%]	
P21.26			0.0 1000.0 [%]	0.0 [%]	
P21.27			0.00 15.00 [%]	2.00 [%]	
P21.28		[0] P21.16 P21.17 [1] [2] [3]DP	0 3	0	
P21.30		[0] P21.32 P21.31 [1] 1 [2] 2 [3]	0 3	0	
P21.31			0.0 100.0 [%]	5.0 [%]	
P21.32			0.0 100.0 [%]	5.0 [%]	
P21.34		[0] [1]	0 1	0	
P21.35			0.0 100.0 [s]	0.0 [s]	
P21.36			50.0 150.0 [%]	110.0 [%]	
P21.37			0.0 150.0 [%]	100.0 [%]	
P21.38			0.0 100.0 [%]	25.0 [%]	
P21.39			0.0 120.0 [%]	100.0 [%]	
P21.40			0.0 150.0 [%]	100.0 [%]	
P21.41			0.0 150.0 [%]	135.0 [%]	
P21.42		[0] [1]	0 1	1	
P21.43			25 1000 [ms]	75 [ms]	

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	1	1	90.0 110.0 [%]	100.0 [%]
P21.77	2			

P21.91	105%	105%	40.0 150.0 [%]	96.5 [%]	
P21.92	110%	110%	40.0 150.0 [%]	93.0 [%]	
P21.93	115%	115%	40.0 150.0 [%]	88.5 [%]	
P21.94	120%	120%	40.0 150.0 [%]	83.0 [%]	
P21.95	125%	125%	40.0 150.0 [%]	77.0 [%]	
P21.96	130%	130%	40.0 150.0 [%]	70.5 [%]	
P21.97	135%	135%	40.0 150.0 [%]	63.5 [%]	
P21.98		()	0.01 300.00 [s]	0.75 [s]	
P21.99			0.00 10.00 [%]	0.00 [%]	

10.21 3 P22

P22.0		[0] [1]	0 1	0	
P22.1		[0] [1] 1 [2] 2 [3] [4] P22.3 [5]DP [6]MODBUS [7]	0 7	0	
P22.2			0 7	0	
P22.3			-300.0 300.0[%]	0.0[%]	
P22.4	@		0 300	0	
P22.5			0 1000[ms]	0[ms]	
P22.6			0.0 200.0[%]	100.0[%]	

P22.24			0.0	300.0[%]	100.0[%]
P22.25			0.0	200.0[%]	100.0[%]
P22.26			0.0	1000.0[%]	0.0[%]
P22.27			0.00	15.00[%]	2.00[%]
P22.28	[0]	P22.16 P22.17			
	[1]		0	3	0
	[2]				
	[3]	DP			
P22.30	[0]	P22.31 P22.32			
			0	3	0
	[1]	1			
	[2]	2			
	[3]				
P22.31			0.0	100.0[%]	5.0[%]
P22.32			0.0	100.0[%]	5.0[%]
P22.34	[0]		0	1	0
	[1]				
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[%]
P22.38			0.0	100.0[%]	25.0[%]
P22.39			0.0	120.0[%]	100.0[%]
P22.40			0.0	150.0[%]	100.0[%]
P22.41			0.0	150.0[%]	135.0[%]
P22.42	[0]		0	1	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			

@

Report

P22.

P22.99			0.00 10.00 [%]	0.00[%]	
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10.22 4 P23

P23.0		[0] [1]	0 1	0	
P23.1		[0] [1] 1 [2] 2 [3] [4] P23.3 [5]DP [6]MODBUS [7]	0 7	0	
P23.2			0 7	0	
P23.3			-300.0 300.0[%]	0.0 [%]	
P23.4	@		0 300	0	
P23.5			0 1000[ms]	0 [ms]	
P23.6			0.0 200.0[%]	100.0 [%]	
P23.7		[0] [1] P23.8 P23.9 [2] 1 [3] 2 [4] [5]DP [6]MODBUS [7]	0 7	0	
P23.8		P23.7 [1]	0.0 300.0[%]	200.0 [%]	
P23.9		P23.7 [1]	0.0 300.0[%]	200.0 [%]	
P23.10			0 300	0	

P23.11		0 1000 [ms]	0 [ms]
P23.13		20.0 500.0 [ms]	100.0 [ms]
P23.14	1	0 60000	1024
P23.15	[0] [1]	0 1	0
P23.16		0.0 300.0[%]	100.0[%]
P23.17		0.0 000.0[‰] 0.0 300.0[%]	0.0[‰] 100.0[%] 00.0[‰]
P23.18		0.0 300.0[%]	0.0[%]
P23.19		0.0 300.0[%]	0.0[%] 50.0[‰]
P23.20	[0] [1]	0 1	0
P23.21	[0] [1]	0 1	0
P23.22	[0	0.0 300.0[%]	160.0[%]
P23.23	[	0.0 200.0[%]	20.0[%]
P23.24		0.0 300.0[%]	100.0[%]
P23.25		00.0[%]	

P2000%

D 50

0 3

0

1

2

0.0 100.0[%]

5.0[%]

P23.31

0.0 - Å

P23.32

b53

P23.

P23.79

P33.31	[W9]	7-2	0 37	0	
P33.32	[W9]	[0] × 1 [1] × 10 [2] × 100 [3] × 1000 [4] × 10000	0 4	0	
P33.33	[W10]	7-2	0 37	0	
P33.34	[W10]	[0] × 1 [1] × 10 [2] × 100 [3] × 1000 [4] × 10000	0 4	0	
P33.35	[W11]	7-2	0 37	0	
P33.36	[W11]	[0] × 1 [1] × 10 [2] × 100 [3] × 1000 [4] × 10000	0 4	0	
P33.37	[W12]	7-2	0 37	0	
P33.38	[W12]	[0] × 1 [1] × 10 [2] × 100 [3] × 1000 [4] × 10000	0 4	0	
P33.39	[W13]	7-2	0 37	0	
P33.40	[W13]	[0] × 1 [1] × 10 [2] × 100 [3] × 1000 [4] × 10000	0 4	0	
P33.41	[W14]	7-2	0 37	0	
P33.42	[W14]	[0] × 1 [1] × 10 [2] × 100 [3] × 1000 [4] × 10000	0 4	0	
P33.43	[W15]	7-2	0 37	0	

		[0] × 1			
		[1] × 10			
P33.44		[2] × 100	0	4	0
	[W15]	[3] × 1000			
		[4] × 10000			
P33.45	[W0]				

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	

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

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

11.

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11.2

[E050] U
 ERR_UT n

[E113]	MIP	
[E114]	MOP	
[E115]	OS	P7.19
[E116]	SLVC Fail	P7.23
[E117]	MOTOR STALL	P20.14 P20.15
[E118]	PG ERROR	P20.14 P20.15
[E119]	SPEED ABNORMAL	P20.14 P20.15
[E121]	IGBT1 OT1	
[E122]	IGBT2 OT2	
[E123]	IGBT3 OT3	
[E124]	IGBT4 OT4	
[E125]	IGBT5 OT5	
[E126]	IGBT6 OT6	
[E127]	IGBT7 OT7	
[E128]	IGBT8 OT8	
[E137]	FAN STALL	

[E138]

[E160]	SLVE FAULT	
[E161]	SLV_NOT_RDY	
[E162]	1 SLV1_CAN_ERR	1
[E163]	2 SLV2_CAN_ERR	2
[E164]	3 SLV3_CAN_ERR	3
[E165]	4 SLV4_CAN_ERR	4
[E166]		

11.3

		•	• DC15V
		•	• D05 • D05 •
		•	• D04 •

		• ON • COM •	• ON • COM () •
		•	•
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12.

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12.1

12.2

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| 1. | 1. | > 40 | |
| 2. | | < " | 4 |

12.4

5

400V
HF680NLC
250-630kW
1.00

GUIDE

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2
3

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