HF680N13M

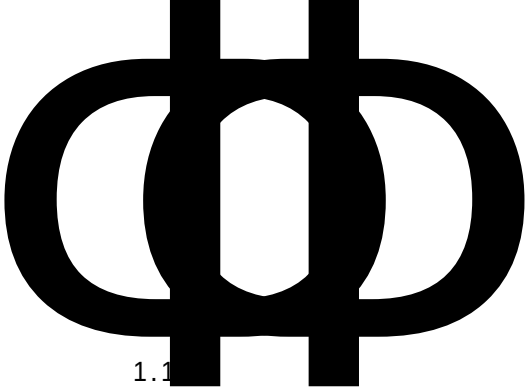
690V

1.00

Wuhan Guide Technology Co.,Ltd.



HF680N



1.1
1.2
1.3

2.1
2.2
2.2.1
2.2.2
2.2.3
2.2.4
2.3 EMC
2.4
2.5
2.6
2.7

3.1
3.2
3.3
3.4
3.5

4.1
4.2
4.3
4.4

5.1
5.2
5.2.1

6.3 P4
6.4 P5
6.5 P6
6.6 P7
6.7 P8
6.8 P16

7.1
7.2
7.3
7.4
7.5

8.1
8.2

9.1
9.2
9.3
9.4
9.5

1.1

ŋ ą

1.2

(1)

(2)

(3)

(4)

LVD	2014/35/EU	EN 61800-5-1
EMC7 u-¢¬² $5	2014/30/EU	EN 61800-3

1.3

2.1

1.
2.
3.
4.

2.2

1. / “ ”

/

2.
3.
- U V W
- P N

4. 12
5.

4.

2.2.1

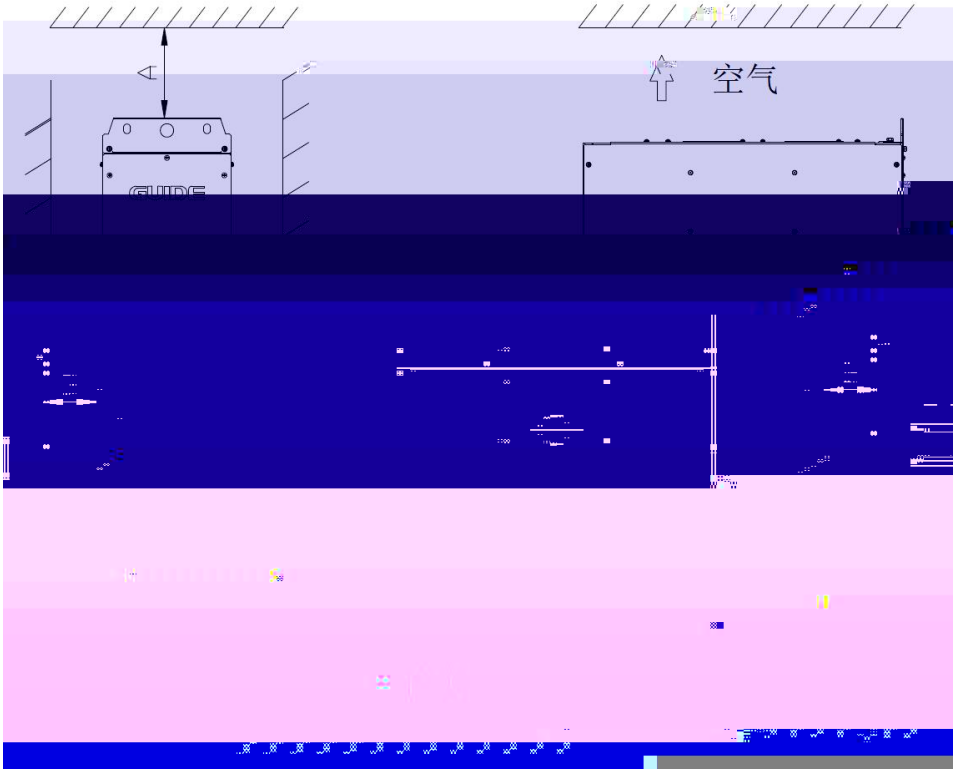
-
- 6 -20 +60
- 0% 95%
-
-
-

1 5

2.2.2

-

2.2.3



		A ≥ 200mm	B1 ≥ 50mm	B2 ≥ 50mm

2.2.4

1 1 4

2 2

EMC

4

3 1

PLC

20cm

20cm

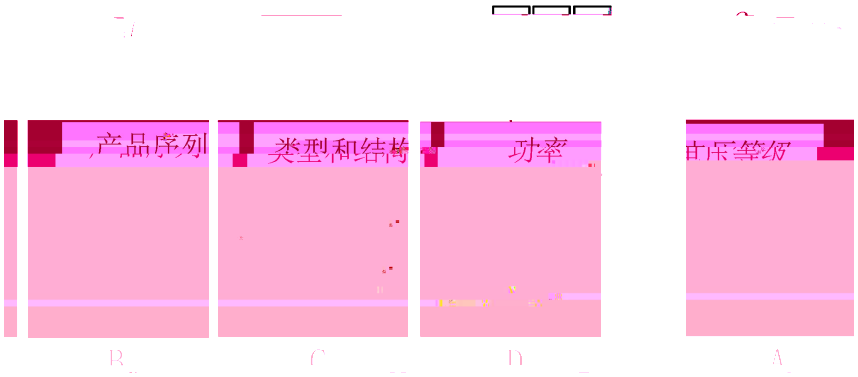
90

c

EMC

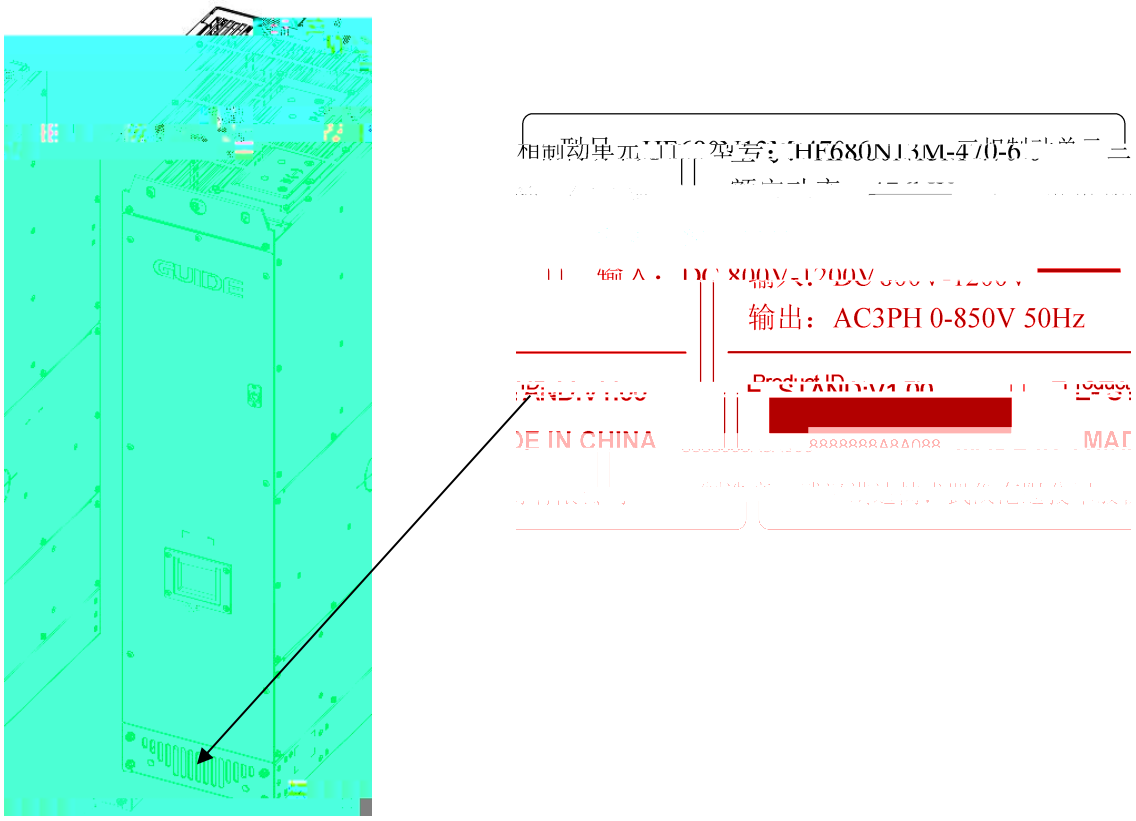
d

2.4



A	HF680N
B	13M
C	470：470kW 2000：2000kW
D	6 690V

:



HF680N13M-470-6 HF680N13M 470kW 690V

DC

AC

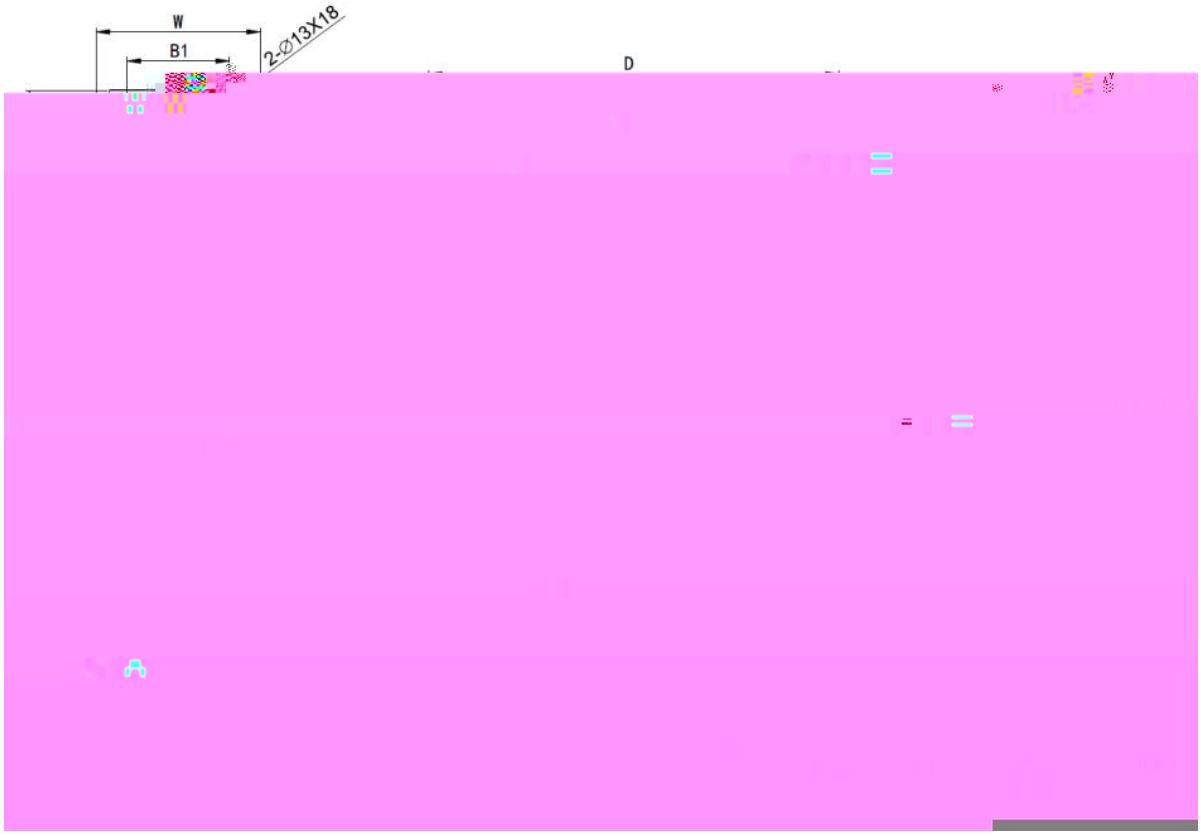
3PH

800V-1200V

0-850V 0-50Hz

		3 1 2 2 0 +10V 0mA/4mA 20mA
	LCD	
		1000m
		-15 +40 40 50
		95%RH
		-20 +60

2.7



		mm				mm			8.8	kg
		H1	H2	W	D	A	B1	B2		
1	B7A	979	936	240	600	936	150	150	2-M12 2-M10	100

3.1

1

2 12

3 U V W

4

5

6

7

10cm

8 0.75mm² 50m

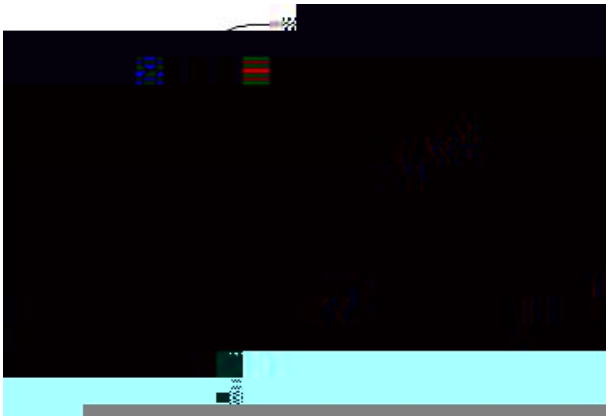
9 10cm

10

11

3.2

U V W	
P	-$#q × »!“ 1 †!Ð1!ˆ>

B7	
	

3.3

	+10V-GND	10V	+10V 50mA 1kΩ~5kΩ
	+24V-COM	24V	+24V 200mA
	PW		24V DI1~DI5 DO1 PW 24V
	AI1-GND	1	DC -10V~10V 100kΩ
	AI2-GND	2	-10VDC~10VDC/0mA~20mA J1 100kΩ 500Ω
	DI1- PW	1	3.3kΩ 9V~30V DI1-DI4 500Hz DI5 20KHz
	DI2- PW	2	
	DI3- PW	3	
	DI4- PW	4	
	DI5- PW	5	
	AO1-GND	1	J2 0V~10V 0mA~20mA
	AO2-GND	2	J8 0V~10V 0mA~20mA
	DO1-COM	1	0V~24V 0mA~50mA
	DO4A-DO4C	1	250VAC 3A COS =0.4 30VDC 1A
	DO4B-DO4C	2	
	DO5A-DO5C	3	250VAC 2A COS =0.4 30VDC 1A

	J1	AI2	
	J2	AO1	
	J8	AO2	

4.1

HF680N ќ

4.3



“ ” “ ” 2

|

	“ - ”
	:V
	A
	N|N W E

4

ENTER (50Hz,)

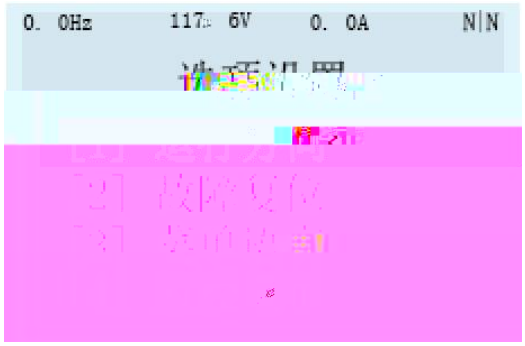
F1/F2

4.4



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

4.4.1



1 Choose Direction ,

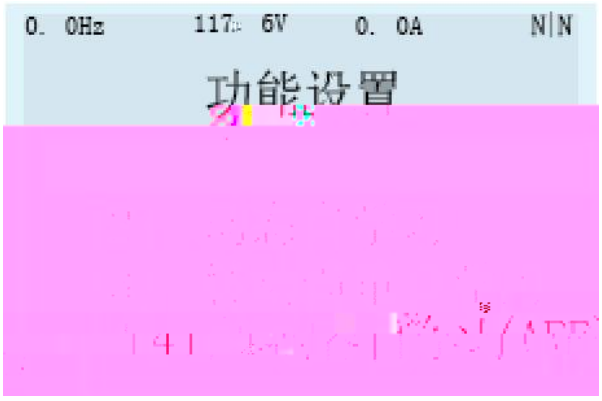
2 Reset Error

4.4.2



Parameter Setting

4.4.3



Function Setting

1 MotoTuning I

2 MotoTuning II

3 MotoTuning III

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

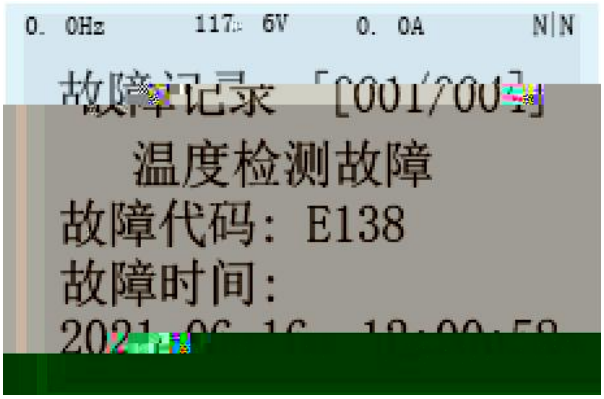
1

2

5

▼ ▲ “ Enter ”

4.4.4



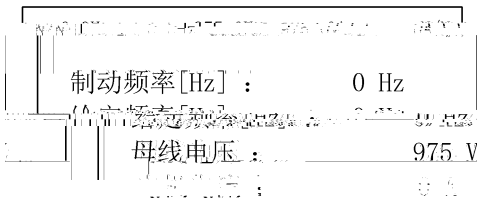
Fault Record

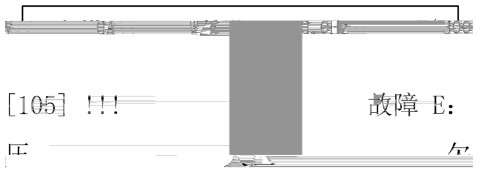
4.4.6



Access Permissions

5.2.2





5.2.3

6.7

P8.0		[0] [1] [3]MODBUS [5]	5
P8.10		[0] [1] 1 [2] 2	0
P07.65		-25~150V	0
P07.66		-25~150V	100

5.2.4

STOP

1

2 LOC/REM LOCAL LOCAL

3 P07.59=1

4 RUN RUN

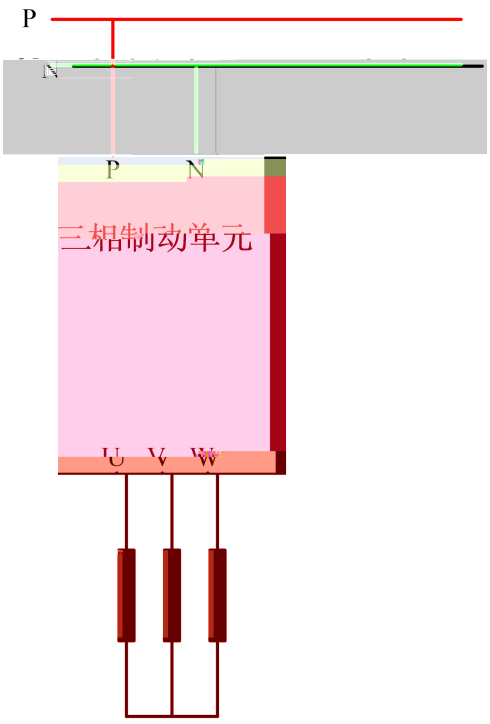
5 1.075*1.414*P16.0+40

6

7 STOP

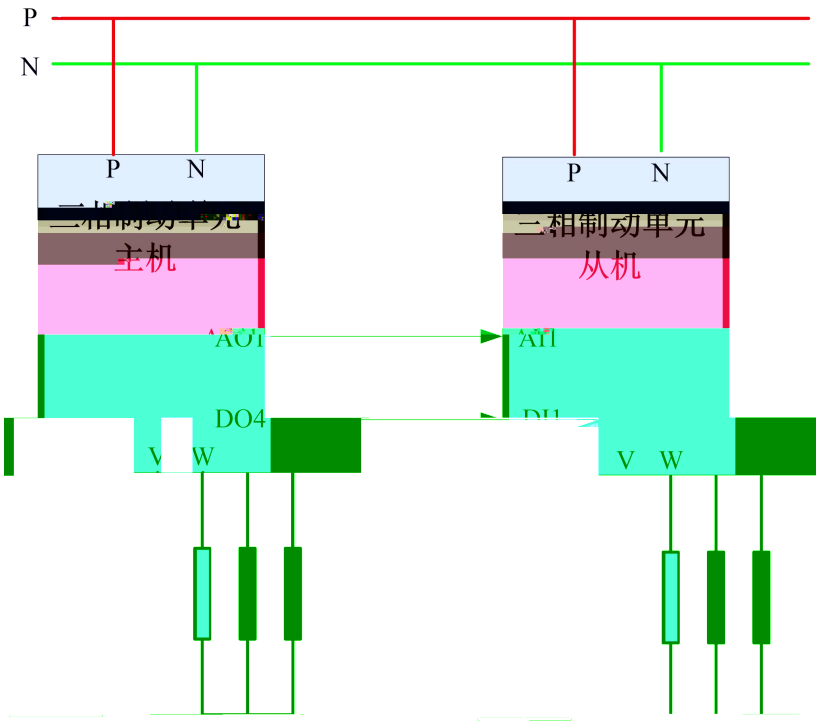
5.3

5.3.1



P08.00		5
P08.10		0
P07.65		0V
P07.66		100V

5.3.2

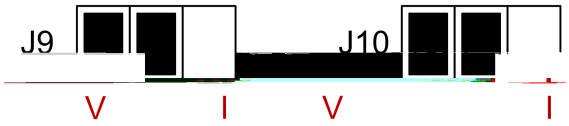


AO1 AI1 DO4 DI1

1(AO1

COM) 1 (AI1+ AI1-)

J9 1 J10 2



a.



b.

P06.00	A01	10
P06.02	A01	0.0
P06.03	A01	100.0
P06.08	A01	5.0
P04.03	4	1
P08.00		5
P08.10		800
P07.65		0V
P07.66		100V

P5.0	AI1	0~20mA
P5.1	AI1	20ms
P5.3	AI1	
P5.6	AI1	0
P5.9	AI1	100
P3.1	1	1
P08.00		0 (ä "

6.1 P2

P2.2		[0] [1]	0 1	0	

6.2 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	

0

15	.NC	

6.3 P4

P4.0	1		0 64	0	
P4.1	2		0 64	0	
P4.2	3		0 64	0	
P4.3	4		0 64	0	
P4.4	5		0 64	0	

0

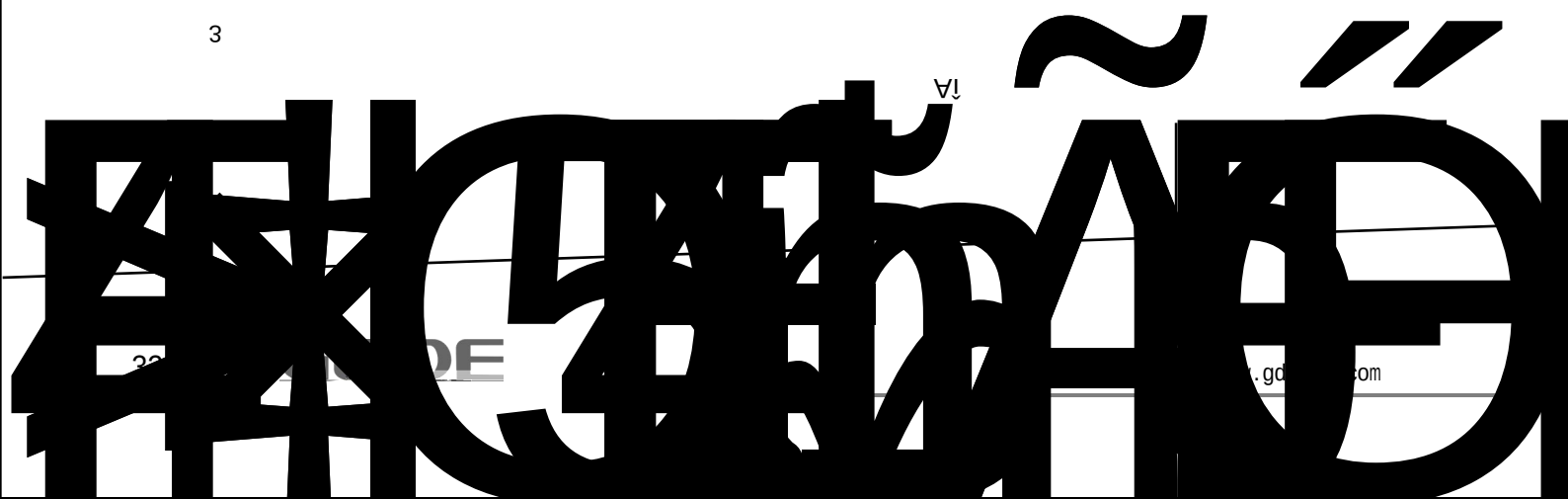
1

2 ON

4

5

12



P5.3	AI1	AI1	-20.00 20.00 [mA]	0.000 [mA]	7.4
P5.4	AI1	AI1	-10.00 10.00 [V]	0.000 [V]	7.4
P5.5	AI1	AI1	0.00 20.00 [mA]	0.000 [mA]	7.4
P5.6	AI1	AI1	-300.0 300.0 [%]	0.0 [%]	7.4
P5.7	AI1	AI1	-10.00 10.00 [V]	10.000 [V]	7.4
P5.8	AI1	AI1	0.00 20.00 [mA]	20.000 [mA]	7.4
P5.9	AI1	AI1	-300.0 300.0 [%]	100.0 [%]	7.4
P5.18	AI2	[0] [1]0 +10V [2]-10 +10V [3]0 20mA	0 3	3	
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 [%]	

6.5 P6

P6.0	AO1		7-1	0 14	2	
P6.2	AO1		AO1	-300.0 300.0 [%]	0.0 [%]	7.2
P6.3	AO1		AO1	-300.0 300.0 [%]	100.0 [%]	7.2
P6.4	AO1	[mA V]	AO1	0.0 100.0 [%]	0.0 [%]	7.2
P6.5	AO1	[mA V]	AO1	0.0 100.0 [%]	100.0 [%]	7.2
P6.6	AO1		AO1	-100.00 100.00 [%]	0.00 [%]	
P6.7	AO1		AO1 [13] (P6.0) AO1	0.0 100.0 [%]	0.0 [%]	
P6.8	AO1			0.0 1000.0 [ms]	10.0 [ms]	

P6.14 bit1 OP

[13]) [%] [%]

AO1

ŧ H

P6.22 AO2

			[%]	[%]	
P7.49	1	1	0.00 60.00 [s]	60.00 [s]	7.3
P7.50	2	2	0.0 300.0 [%]	200.0 [%]	7.3
P7.51	2	2	0.00 5.00 [s]	5.00 [s]	7.3
P7.59		[0] [1]	0 1	1	
P7.60			0.10 3.00 [s]	0.30 [s]	
P7.60			0.10 3.00 [s]	0.30 [s]	
P7.65			-25~150V	0V	
P7.66			-25~150V	85V	

6.7 P8

P8.0		[0] [1] [2] [3]MODBUS [4] [5]	0 5	5	7.3
P8.3		[1]	0 1	1	7.3
P8.10		[0] [1] 1 [2] 2 [3] [4] [5] [6]	0 6	0	7.3

6.8 P16

P16.0			320 760 [V]	690 [V]	7.8

P16.3			320 850 [V]	810[V]	7.8
P16.4			0.0 3000.0 [A]	[A]	7.8
P16.11		[0]	0	0	7.8

7.5

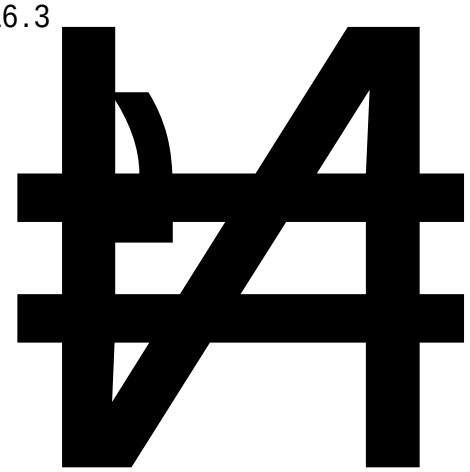
1

P16.0

2

P16.3 850V ; 810V,

3



8.2

[E050] U

ERR_UT pon M, b

ERR_T

D

E050

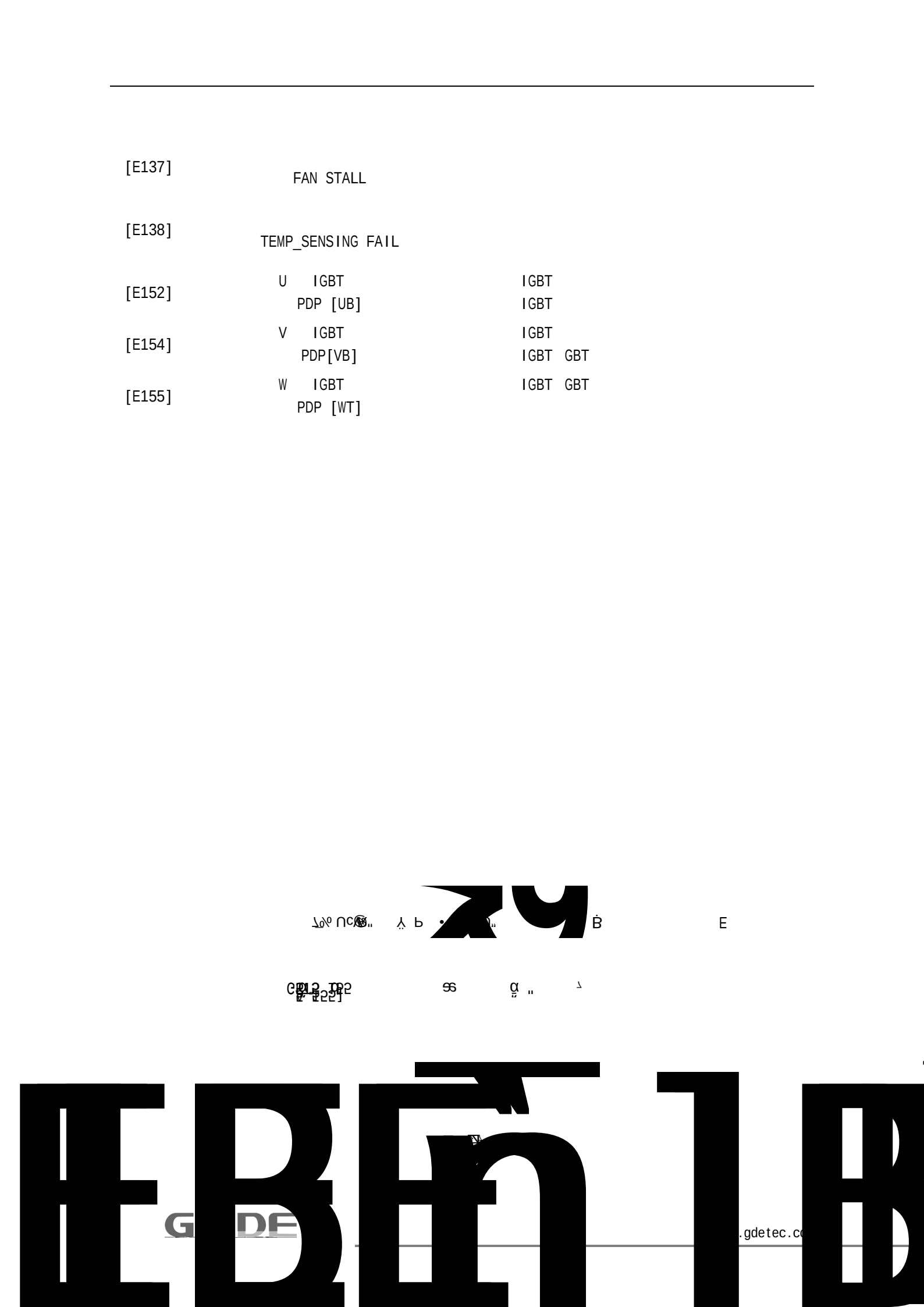
[E137] FAN STALL

[E138] TEMP_SENSING FAIL

[E152] U IGBT IGBT
PDP [UB] IGBT

[E154] V IGBT IGBT
PDP[VB] IGBT GBT

[E155] W IGBT IGBT GBT
PDP [WT]



9.2

1.
2.

1.
2.

1.
2.
3.

1.
2.

1. > 40
   < 95%
2.

1.
2.

1.
2.
3.

1.
2.

9.4

5

5

(400-0077-570)

1 406Ë$ Ó9m

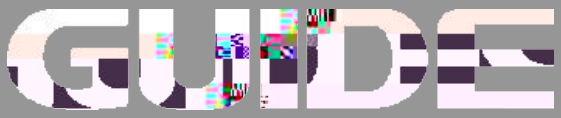
2 80%

3 24 /

HF680N13M

690V

1.00



1

2

3

Wuhan Guide Technology Co.,Ltd.

6

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Wuhan Guide Technology Co.,Ltd.