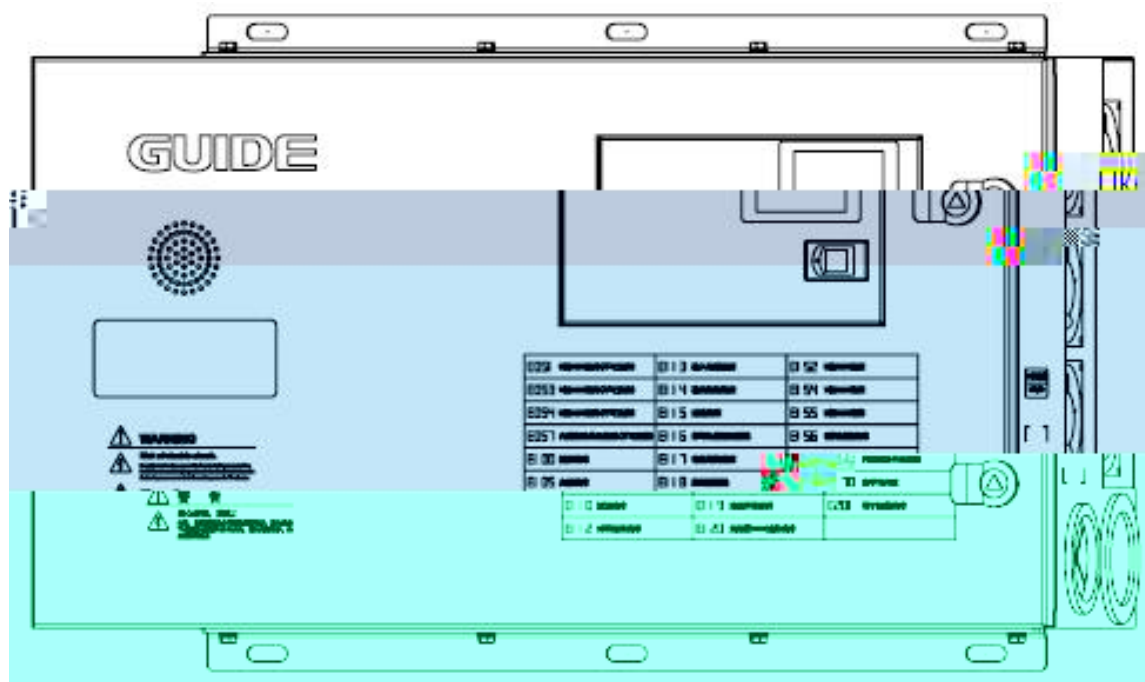


GUIDE



HF633N-037-4-C

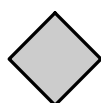
	.....	1
1.1	.....	1
1.2	.....	3
1.3	.....	3
	.....	5
2.1	.....	5
2.2	.....	5
2.3	.....	6
2.4	.....	7
2.5	.....	7
2.6	.....	9
	.....	10
3.1	.....	10
3.2	.....	11
3.3	.....	12
3.4	.....	13
3.5	.....	14
3.6	.....	15
	.....	20
4.1	.....	20
4.2	.....	21
4.3	.....	21
4.4	.....	23
4.4.1	.....	23
4.4.2	.....	24
4.4.3	.....	24
4.4.4	.....	25
4.4.5	.....	26
4.4.6	.....	27
	.....	29
5.1	.....	29
5.2	.....	44
5.3	.....	52
	.....	54
6.1	.....	54
6.2	.....	54
A	.....	57
A.1	.....	58
A.2	.....	64

A.3	.....	65
A.4	.....	66
A.5	.....	70
A.6	.....	72
A.7	.....	78
A.8	.....	79
A.9	.....	79
B	.....	80
B.1	.....	80
B.2	.....	81
B.3	.....	83
B.4	.....	84
B.5	.....	87
B.6	.....	88
B.7	.....	88

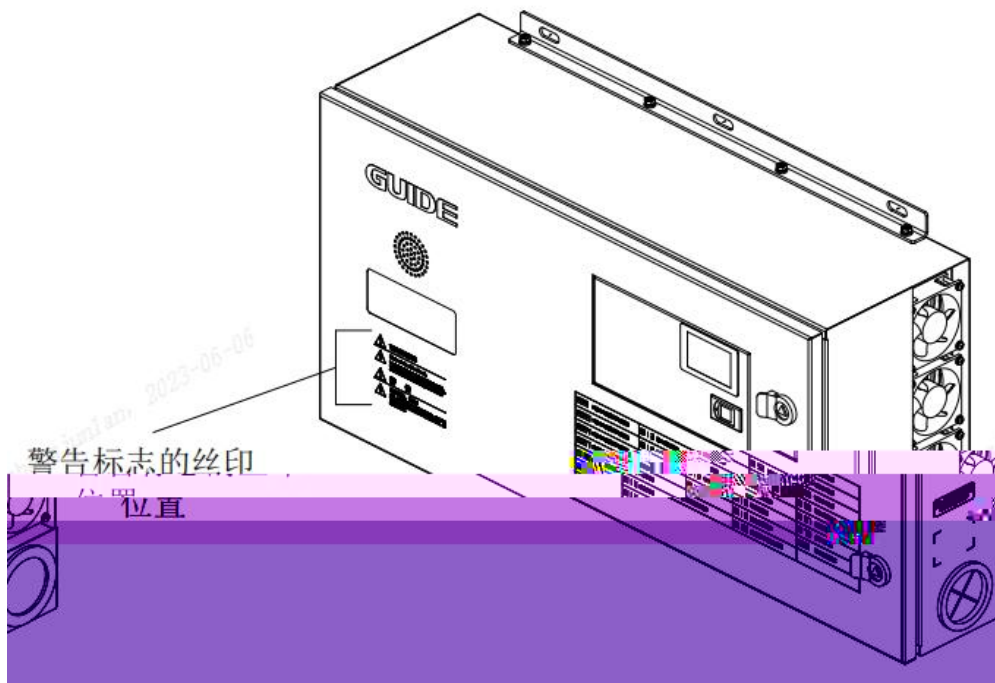
1.1



- (1) 在通电七分钟后或断电后，一段时间内禁止用手触摸散热器，以防灼伤；
- (2) 请勿使一体机频繁进行通电和断电操作，断电后五分钟内禁止再次通电；



- (1) 一体机禁止安装在易燃物上；
- (2) 本系列一体机不适用于易燃易爆环境，若有需要，请向厂家订购特种一体机；
- (3) 禁止私自拆装、改装一体机；
- (4) 严禁将交流电源接到一体机的输出端 U、V、W 上；
- (5) 一体机在通电过程中，请勿打开面盖或进行配线作业。



HF633N-037-4-C

	WARNING
	Risk of electric shock. Read the instruction manual before installing or operation. Forbidden to maintain, inspect and wire the device when the device is power on or shut down the power in 10 minutes
	警告
	当心受伤，触电！ 安装，运行前请务必阅读使用说明书。通电状态下切勿

1.2

(1)

(2)

“ ”

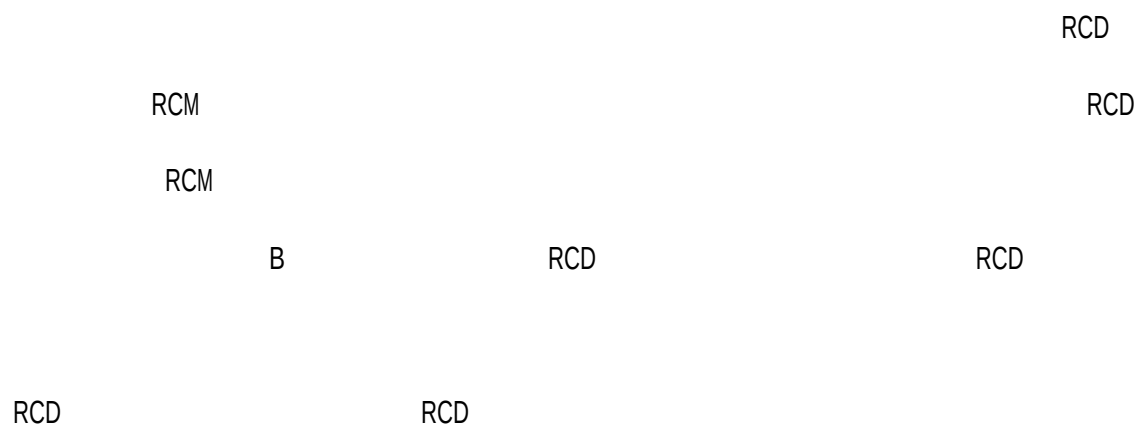
(3)

(4)

LVD	2014/35/EU	EN 61800-5-1
EMC	2014/30/EU	EN 61800-3

1.3

1



2



3

2.1

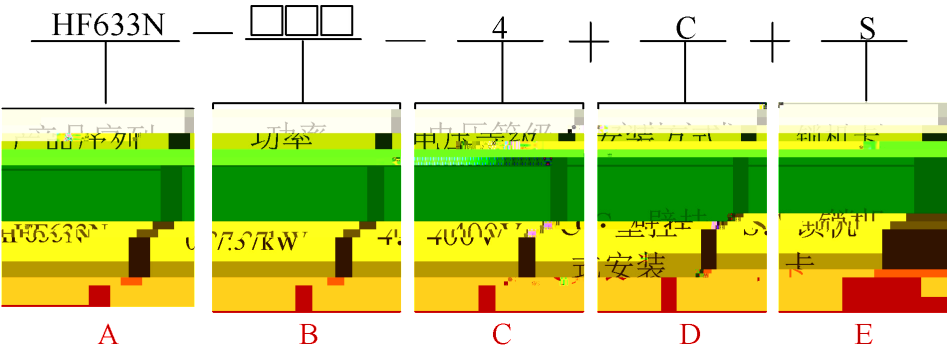


a. 必须正确选型，选型不正确可能会导致电机运行异常或一体机损坏。

b. 不要安装或运行任何已经损坏或带有故障零件的一体机，否则有受伤的危险。

- 1.
- 2.
- 3.
- 4.

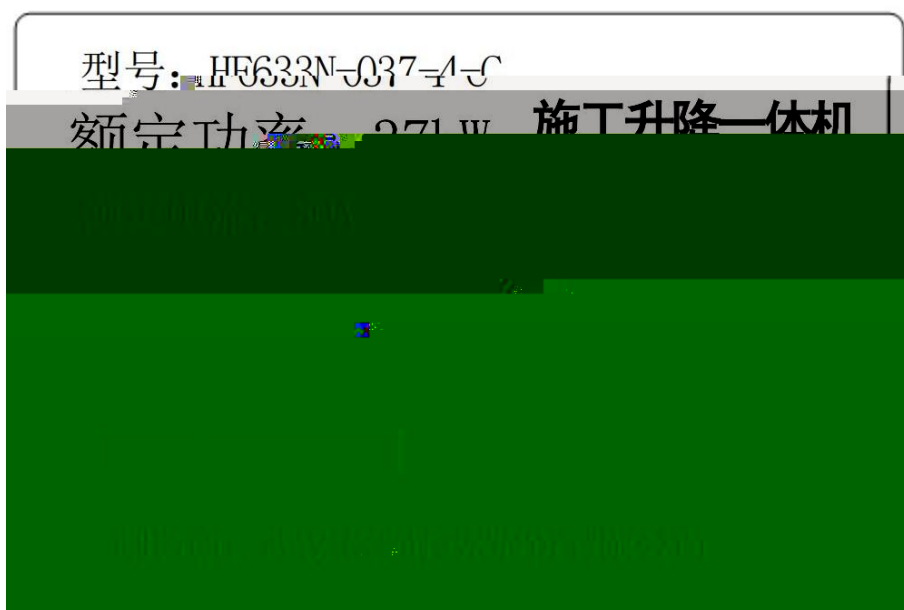
2.2



A	HF633N	3
B	3	
C	4	400V
D	C	
E	+S	S

HF633N

37kW



HF633N-037-4-C

HF633N

37kW

400V

AC

3PH

380V-480V 50/60Hz

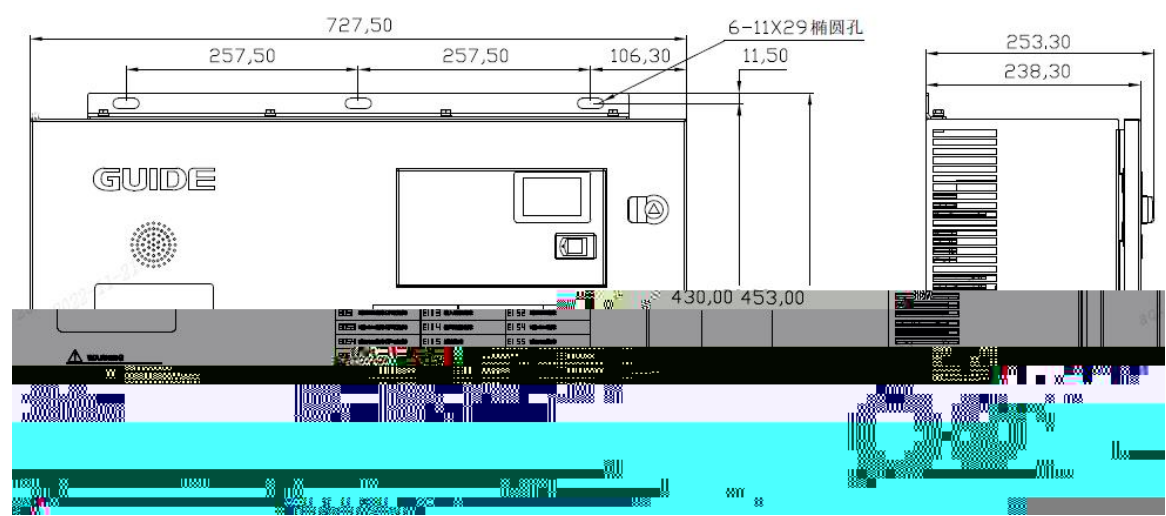
0-480V 0-300Hz

2.3

HF633N

	[A]	[kW]	(kg)
HF633N-037-4-C	80	37	35
HF633N-037-4-C+S	80	37	35.5

2.4



2.5

		380V 480V	
		50/60Hz	
		-15% +10%	
		fLN ± 2 ± 4 ≤ 2 fLN/s	
		0	
		1	
		0 300Hz	
		1kHz 10kHz	
		0.01Hz x0.1%	
		(VC) (SVC) V/F	
	V/F		
		300Hz	
		0Hz/200%(VC SVC) 0.8Hz/150%(V/F)	
		1:500(SVC) 1:1000(VC)	
		± 0.02% (VC) ± 0.2% (SVC) ± 0.5%	

		(V/F)
		5 150% 1 200%
		5
		90% 105%
	LCD	
		1000 1000
		100 1% 3000
		-10 +40 40
		1 1% 50
		-10
		95%RH
		-20 +60
		10-30
		>0.80
		96%
		IP20
		2
		≤ 80db

2.6

1

2

3

“ ”

“ ”

4

5

6

LED

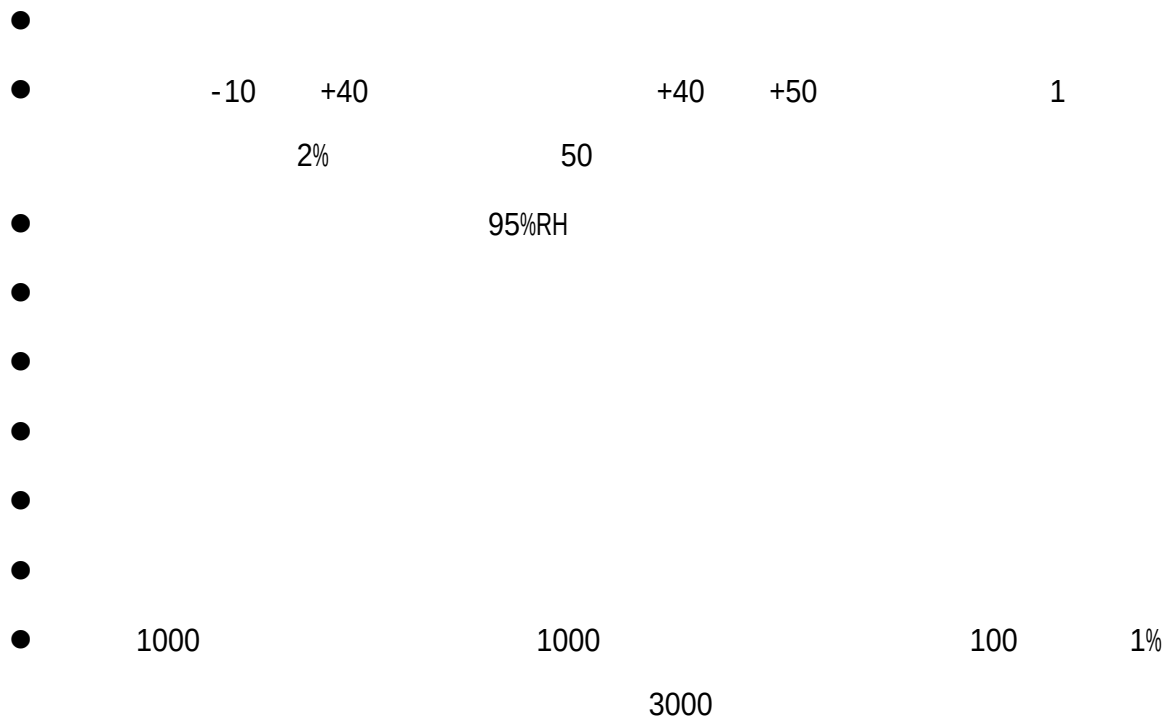
	
1.	/ “ ”
2.	/
3.	
-	R S T N
-	U V W U1 V1 W1
4.	15
5.	
	
1.	
2.	
3.	
40	

3.1

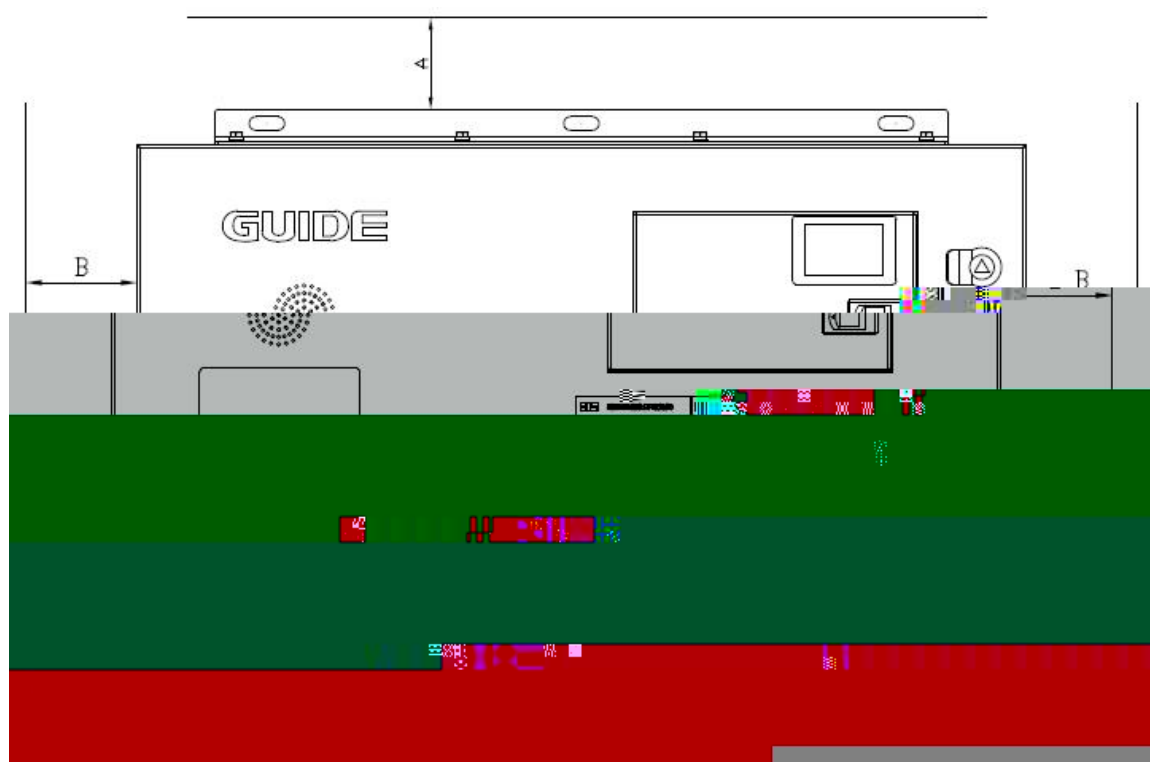
-
-
-
-
-
-

-20 +60
0% 95%

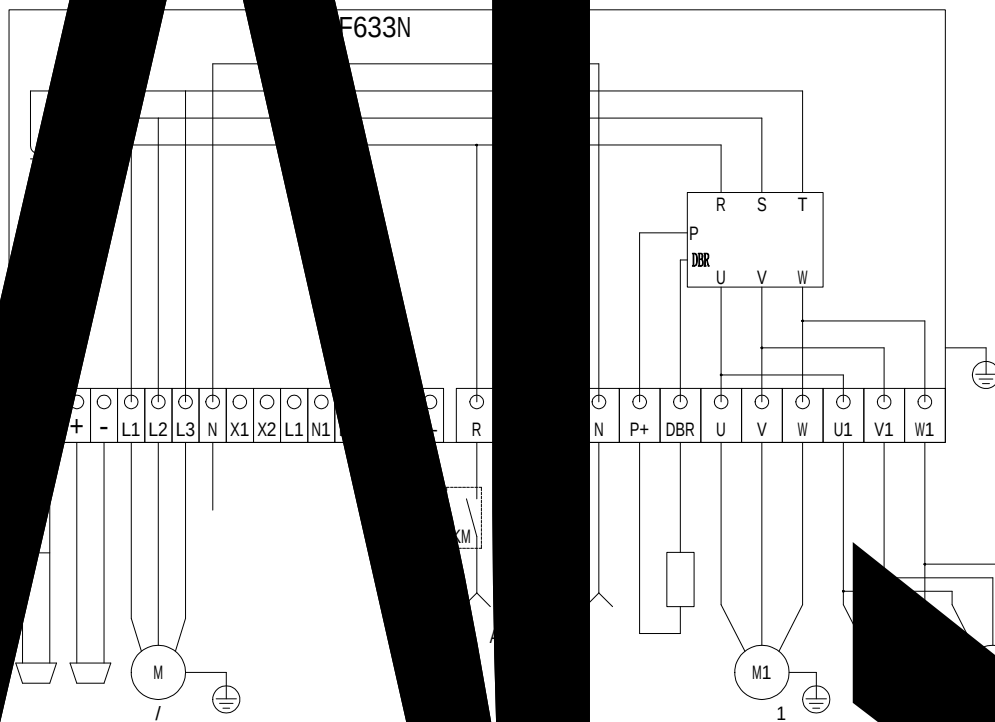
3.2



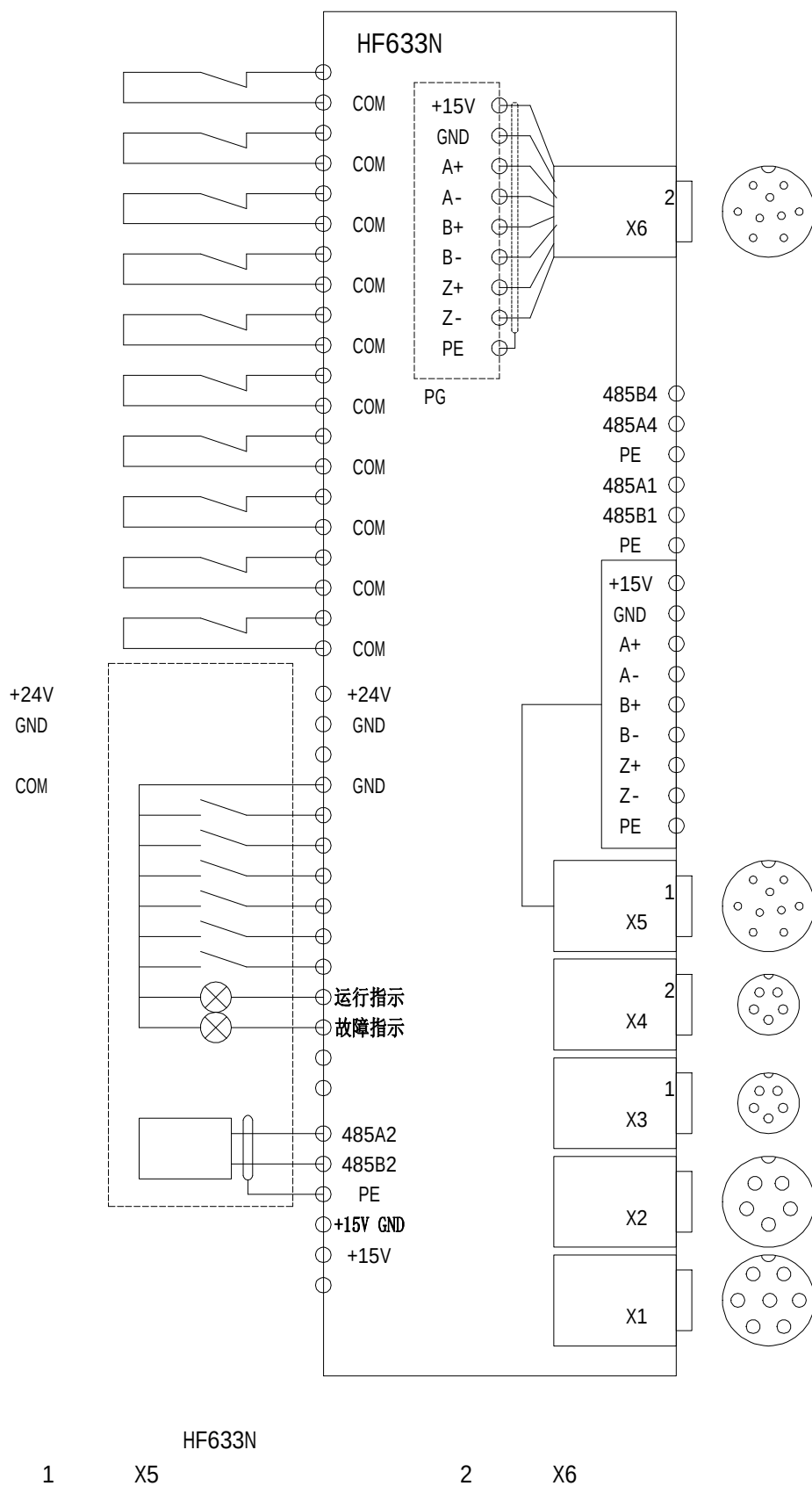
3.3



$A \geq 100\text{mm}$	$B \geq 200\text{mm}$



3.5



3.6

1

1

1

2

3

AC380~480V 50/60Hz

4

PG

PG

5

2

LCD

3

LCD

P16.2			3
P16.3			
P16.4			3
P16.5			
P16.6			
P16.7		$120 \times P16.5 / P16.6$	
P16.9		$120 \times P16.5 / P16.7$	
P16.11		[0]V/F [1] [2]	[1] [2]
P20.16			100 [%]
P20.17			100 [%]
P3.5	6		[1]
P3.6	7		[2]
P3.7	8		[6] 0
P3.8	9		[14]
P3.9	10		[5]
P4.1	2		[3]

P4.2	3		[3]
P4.5	6		[16]
P4.6	7		[2]
P8.16	1	P8.15	3
P8.35	1	P8.34	2
P8.0		[0] [1] [2]DP [3]MODBUS [4]	0
P8.10		[0] I/O [1] 1 [2] 2 [3] [4]DP [5]MODBUS [6]	0
P12.2	1		15Hz
P12.3	2		50 Hz
P12.22			0.1
P12.23			0
P12.24			30
P12.25			30
P12.29			0.4
P7.0	[1]	0~300[%]	180%
P7.4	[1]	0~300[%]	235%
P7.19	[1]	100.0 720.0[%]	120%

4

1

P16.11

[1] [2]

2

LOCAL/REMOTE

LOCAL

“

”

“

”

3

LOCAL/REMOTE

REMOTE

“

”

3.75HZ

LCD

“

”

“

”

4

50%

5

6

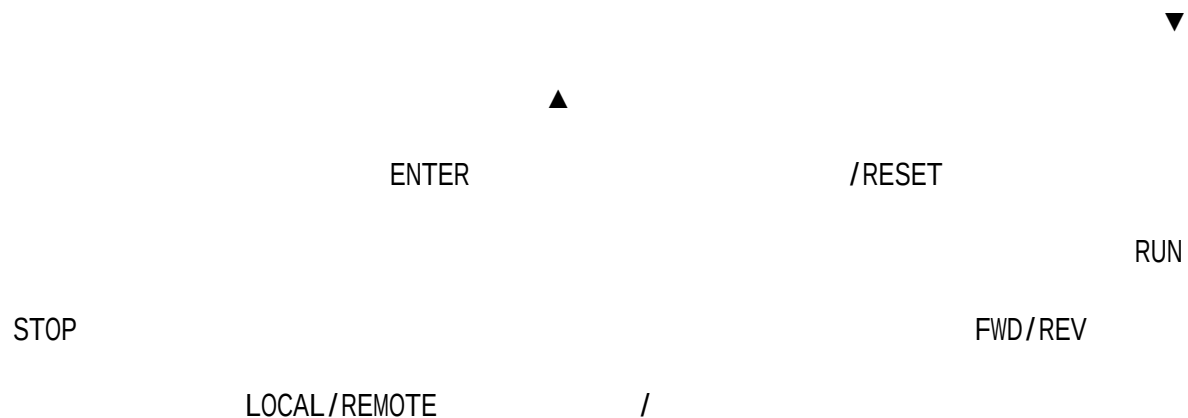
5.2.5

4.1

HF633N

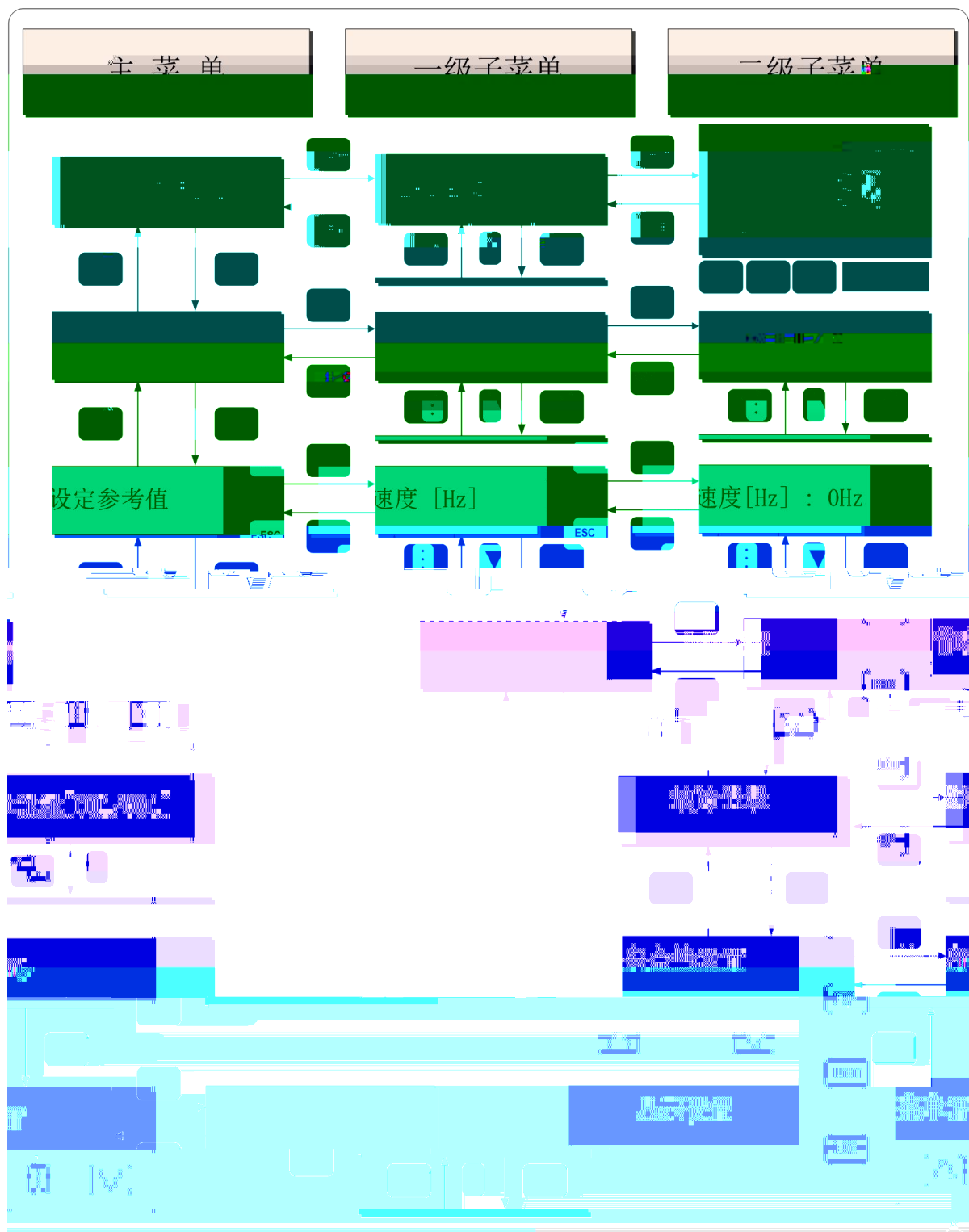
r

4.2



4.3

Drive Monitor	Speed Power	I/O
Parameter Edit	P0 ~ P49	
Reference Set	Global Ref	
Function Set	Tuning I/II/III Parameter Init. Clear Faults System reset Backup/Restore Para	
Error Event Log	Error Log	
Security	Security Edit	Access Level
Display Edit	Display Edit	



4.4

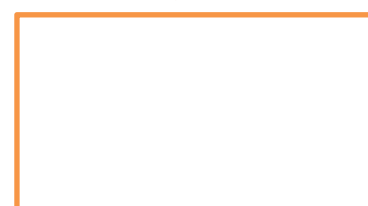
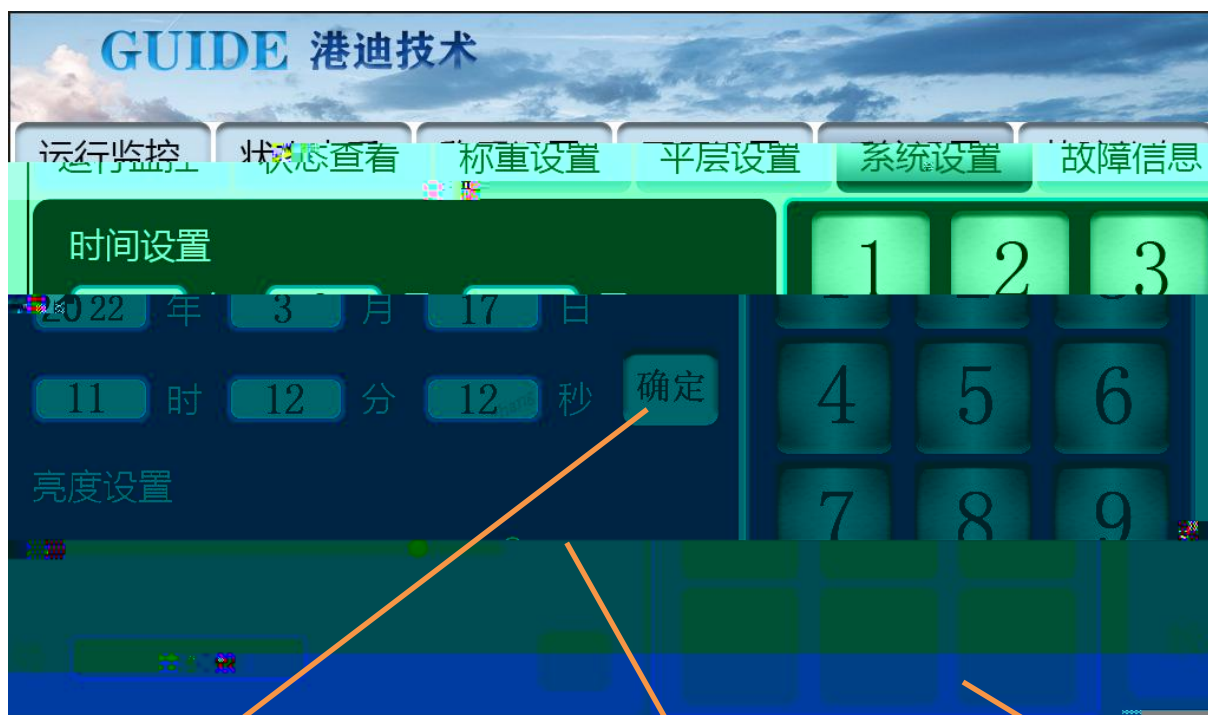
4.4.1



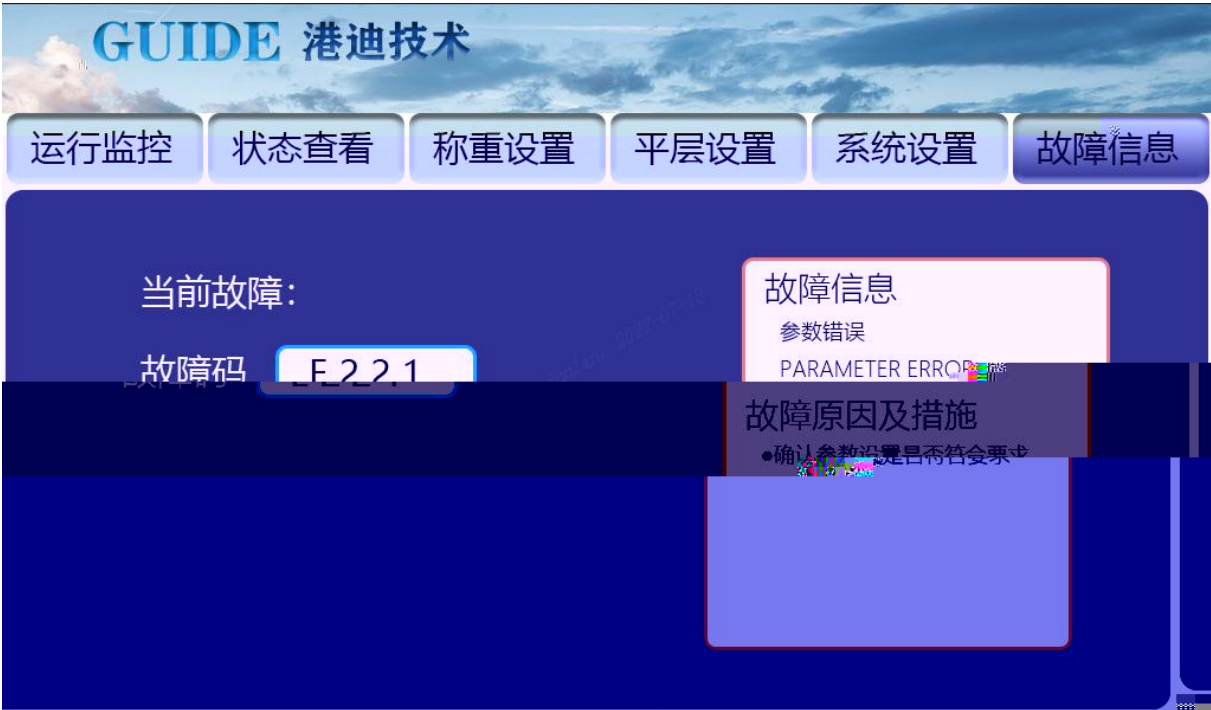
- 1.
- 2. “ ”
- 3. -5~90 “ - ”
- 4. “ ”
- 5. /



4.4.5



4.4.6



1.



1.

2.

30S

30S

/

30S

1S

3.

30S

5.1

5.1.1 P0

P0.0		[0] [1]	0 1	0	
P0.1			0 27	14	
P0.3		[0]50HZ [1]60HZ	0 1	0	
P0.4					

5.1.2 P2

P2.7	MODBUS		0 1	0	1 RS485

5.1.3 P3

P3.0	1		0 32	0	
P3.1	2		0 32	0	
P3.2	3		0 32	0	
P3.3	4		0 32	0	
P3.4	5		0 32	0	

5.1.4

P4

P4.0	1		0 64	0	
P4.1	2		0 64	0	
P4.2	3		0 64	0	3
P4.3	4		0 64	0	
P4.4	5		0 64	0	
P4.5	6		0 64	0	3.6
P4.6	7		0 64	0	2

0		
2		ON
3		5.2
16		5.2

5.1.5

P7

P7.0	[1]	1	0.0 300.0 [%]	180.0 [%]	
P7.4	[1]	1	0.0 300.0 [%]	235.0 [%]	
P7.8	[1]	1	0.0 100.0 [%]	20.0 [%]	
P7.12			600 820	800	

P7.13

[V] [V]
300

P7.66			-25 150 [V]	100 [V]	
P7.69		[0] [1]	0 1	0	
P7.70			-25 150 [V]	100 [V]	
P7.71	1	[0] [1]	0 1	0	
P7.73		[0] [1]	0 1	0	
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	

5.1.6 1 P8

	[0]		
	[1]		
P8.0	[2]DP	0 4	0
	[3]MODBUS		
	[4]		
P8.3	[0]	0 1	0
	[1]		
P8.6		0.00 300.00 [s]	0.00 [s]
P8.7			

		[5]MODBUS [6]			
P8.15	1		0.0 300.0 [%]	100.0 [%]	5.2
P8.16	1	P8.15	0.0 300.0 [s]	3.00 [s]	5.2
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 [%]	5.2
P8.35	1	P8.34	0.0 300.0 [s]	3.00 [s]	5.2
P8.36	2		0.0 300.0 [%]	200.0 [%]	
P8.37	2	P8.34 P8.36	0.0 300.0 [s]	4.00 [s]	
P8.38	3		0.0 300.0 [%]	240.0 [%]	
P8.39	3	P8.36 P8.38	0.0 300.0 [s]	7.00 [s]	
P8.40	4		0.0 300.0 [%]	300.0 [%]	
P8.41	4	P8.38 P8.40	0.0 300.0 [s]	10.00 [s]	
P8.42	5		0.0 300.0 [%]	300.0 [%]	
P8.43	5	P8.40 P8.42	0.0 300.0 [s]	10.00 [s]	
P8.44	6		0.0 300.0 [%]	300.0 [%]	
P8.45	6	P8.42 P8.44	0.0 300.0 [s]	10.00 [s]	
P8.46	7		0.0 300.0 [%]	300.0 [%]	
P8.47	7	P8.44 P8.46	0.0 300.0 [s]	10.00 [s]	
P8.48	8		0.0 300.0 [%]	300.0 [%]	
P8.49	8	P8.46 P8.48	0.0 300.0 [s]	10.00 [s]	

5.1.7 1 P12

P12.0		[0] [1]	0 1	1	5.2
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 [%]	5.2
P12.23			0.0 20.0 [%]	0.0 [%]	5.2
P12.24			0.0 200.0 [%]	30.0 [%]	5.2
P12.25			0.0 200.0 [%]	20.0 [%]	5.2
P12.26			0.00 2.00 [s]	0.00 [s]	5.2

P12.27			0.00 2.00 [s]	0.00 [s]	5.2
P12.28			0.00 2.00 [s]	0.07 [s]	5.2
P12.29			0.00 2.00 [s]	0.07 [s]	5.2
P12.32			0.0 20.0 [%]	0.0 [%]	5.2
P12.33			0.0 20.0 [%]	0.0 [%]	5.2
P12.34			0.00 2.00 [s]	0.00 [s]	5.2
P12.35			0.00 2.00 [s]	0.00 [s]	5.2
P12.36			0.00 2.00 [s]	0.50 [s]	5.2
P12.37			0.00 2.00 [s]	0.50 [s]	5.2
P12.40			0.0 100.0 [%]	0.5 [%]	5.2
P12.41			0.00 100.00 [s]	0.20 [s]	5.2
P12.42			0 3000 [s]	300 [s]	5.2

5.1.8 1 V/F P16

P16.0			320 460 [V]	380 [V]	
P16.2			0.0 4000.0 [kW]	[kW]	
P16.3			320 460 [V]	380 [V]	
P16.4			0.0 6500.0 [A]	[A]	
P16.5			0.0 300.0 [Hz]	50.0 [Hz]	

P16.6

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 [%]	
P16.48		[0] [1]PID 1 [2]PID 2 [3]	0 3	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 [%]	

5.1.9 1 P20

P20.0	[0]		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
P20.8	P20.7 [1]		0.0 300.0 [%]	200.0 [%]	
P20.9					

P20.15	[0]	0	1	0
	[1]			
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		0.0	300.0	0.0
		[%]		[%]
P20.20	[0]	0	1	0
	[1]			

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 [%]	100.0 [%]	
P20.56			0.0 1000.0 [%]	100.0 [%]	
P20.62			0.0 1000.0 [%]	100.0 [%]	
P20.63			0.0 1000.0 [%]	100.0 [%]	
P20.98		()	0.01 300.00 [s]	0.75 [s]	
P20.99			0.00 10.00 [%]	0.00 [%]	

5.1.10

P26

P26.00		0 1	0~1	0	5.2
P26.01		0 1 2	0~2	0	5.2
P26.02			0~2500kg	800kg	5.2
P26.03			0~500kg	75kg	5.2
P26.04			0~10000kg	2000kg	5.2
P26.05			0.0~500.0%	100.0%	5.2
P26.06			0~10000kg	2000kg	5.2
P26.07			50.0~200.0%	105.0%	5.2

5.2

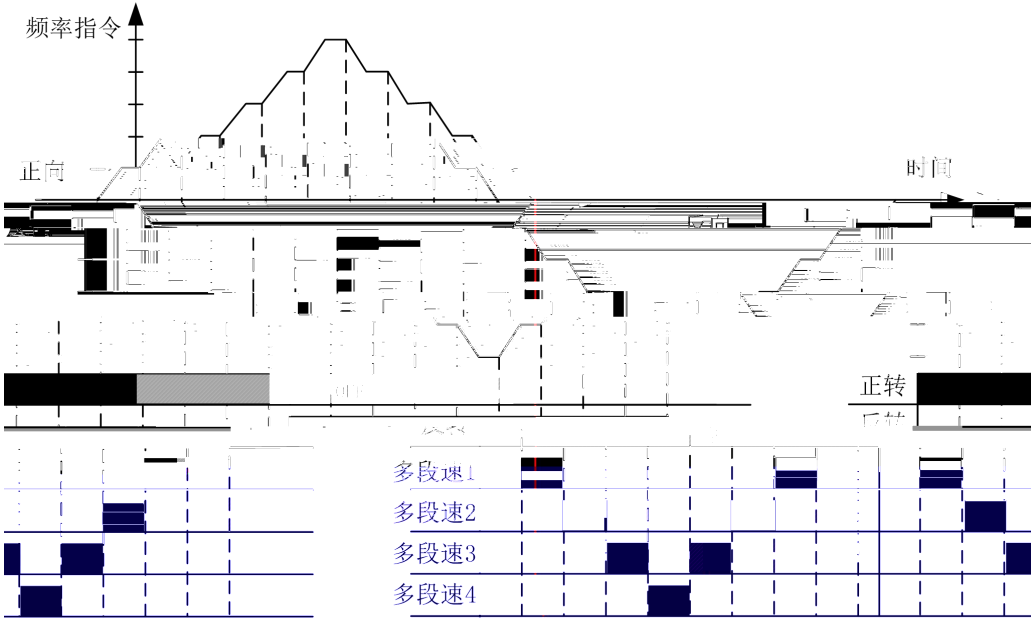
5.2.1

1

P12.0 [0] [1]

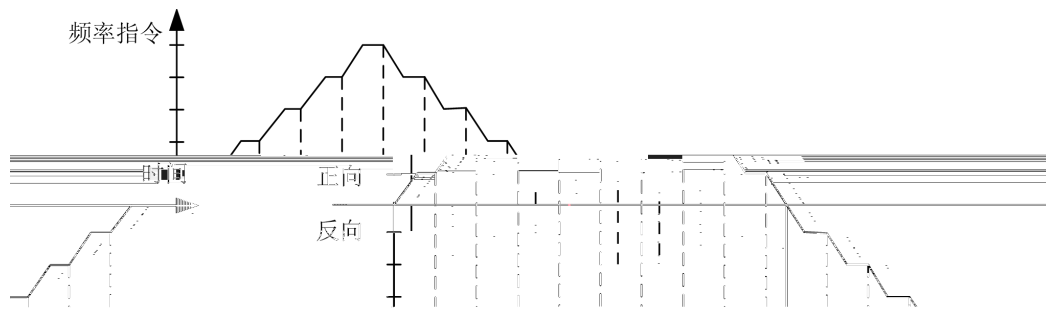
A. [0]

[1]		[2]		---	1
[6]	1	0		---	2
[7]	2	1		---	3
[8]	3	2		---	4
[9]	4	3		---	5



B. [1]

4 16 (8421)
(FORWARD) (REVERSE) P12.2(1)



5.2.2

1

P7.0

2

P7.4

P7.4

P16.4

3

P7.8

$$I_a + I_b + I_c$$

P16.4

$$\frac{I_a + I_b + I_c}{P} > P$$

4

P7.12 P7.13

P7.12

P7.13

5

P7.14

IGBT

P7.14

P7.15

IGBT

P7.15

6

P7.19 P7.20 P7.21 P7.22

P7.19

P7.19 P7.22

7

P7.23

P16.11=1

P7.23

P7.23

8

P7.31 P7.32

P16.11=2

P7.31

100%

P7.32

P7.31

P7.32

9

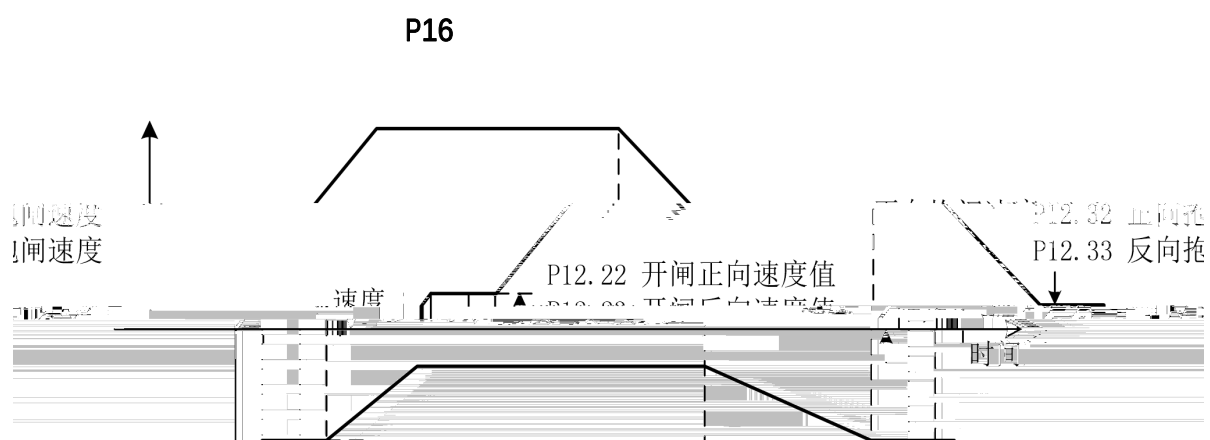
P7.33

P7.33

10

P7.48 P7.50

P12.36 P12.37



5.2.4

P4.2	1	3		
P4.3	4	16		
P12.40		10%	100%	P16.6
P12.41		0.1s		
P12.42		300s		

P12.42

5.2.5

P26.00		0 1	0~1
P26.01		0 1 2	0~2
P26.02			0~2500kg
P26.03			0~500kg
P26.04			0~10000kg
P26.05			0.0~500.0%
P26.06			0~10000kg
P26.07			50.0~200.0%

1

1 P26.03 kg

2 3s P26.01 1

3 2000KG

P26.04 P26.01 2

4 P26.06

2

“ ”

5.2.6

P20.21		0 “ ”	
P20.22		%	50HZ 85HZ 85/50* 100%=170%
P20.23		20.22 P 10% - 50%	2T 1T P20.22 1/2*100= 50 50 P2 0.22
P20.24		100%	
P20.25		100%	
P20.45		6%	
P20.46		5%	
P20.47		90%	
P20.48		77%	
P20.49		100%	
P20.20		1 “ ”	

5.3

P12.04

P12.03

1

2

3

1

2

3

6.1

W01	SYS_NOT_RDY	(Ready)	
W04	REMOTE_EM	[]	P3
W06	OT	P7.14()	
W10	MODBUS MODBUS ALARM	Modbus	Modbus
W15	PARAMETER ERROR		
W18	Temp_Sensing Fail		

6.2

[E051]	U IGBT ERR_UT not reset	IGBT IGBT
[E053]	V IGBT ERR_UT not reset	IGBT IGBT
[E054]	W IGBT ERR_UT not reset	IGBT IGBT

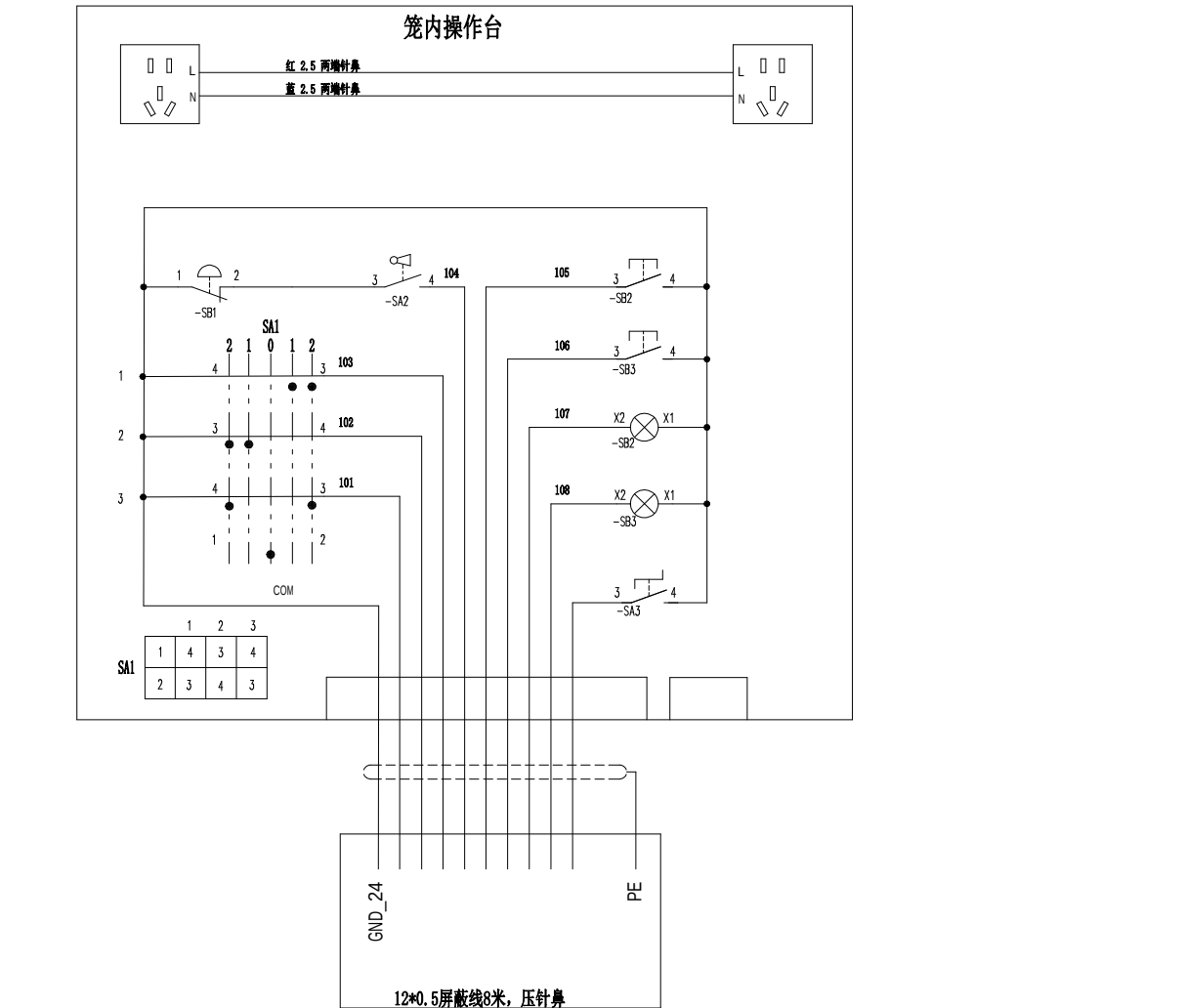
[E119]	SPEED ABNORMAL	P20.14 P20.15 P7.31 P7.32
[E120]	IGBT OT	
[E138]	TEMP_SENSING FAIL	
[E152]	U IGBT PDP [U]	IGBT IGBT
[E154]	V IGBT PDP[V]	IGBT IGBT
[E155]	W IGBT PDP [W]	IGBT IGBT
[E156]	Hardware OC	
[E157]	PDP [DB]	
[E170]	MOTOR TUNING FAIL	P7.33
[E201]	REMOTE_EM	[] P3
[E202]	Modbus MODBUS EMERGENCY	Modbus CWO.4
[E204]	DI ERR DUPLICATE DI SET	DI
[E210]	Panel Error	
[E220]	CRC MEMORY CRC ERR	
[E221]	PARAMETER ERROR	

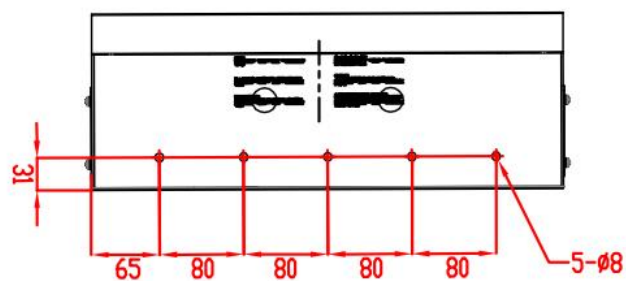
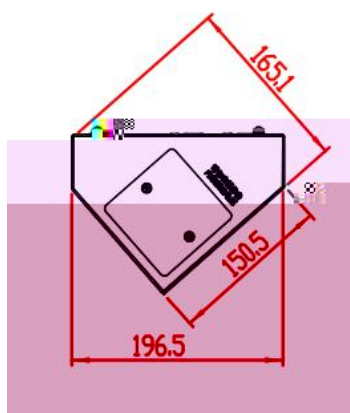
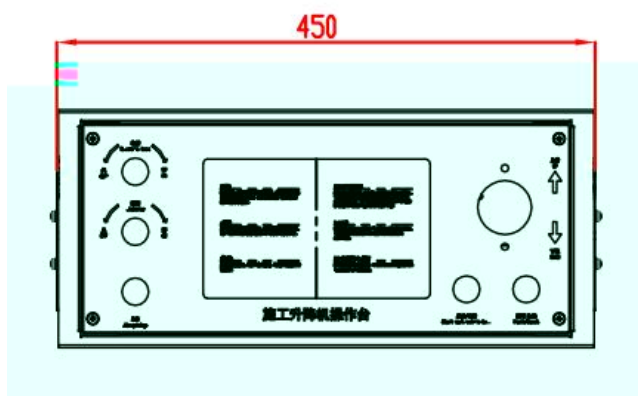
A

	CZT200()	
	CZT300()	CZT200
	GD300-NP31K	
	GD300-NP31	
	ZMHBX-3t ZMHBA-3t-GX12-5P	
	GDHF630N4PG01A1	
	LY-1X	CZT300
	GDHF-WP03	
	ENC-01-GX	
	WBSJ2020-0312-2 16Ω /25kW	37kW
	BZRL-15/25KW	37kW
	10.10.A36.03.XS00	BZRL-15/25KW
	22.10.A36.96.200	

A.1

CZT100



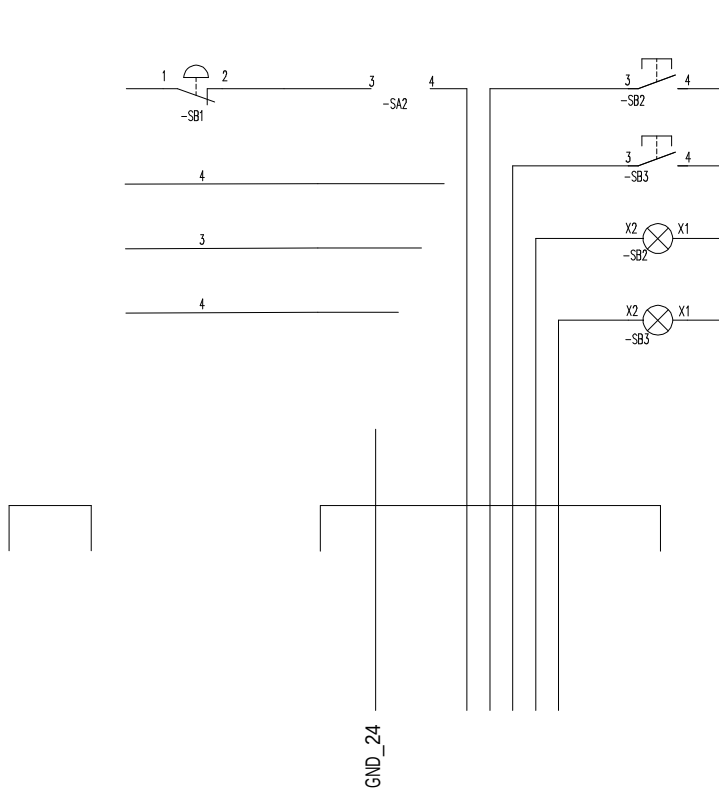


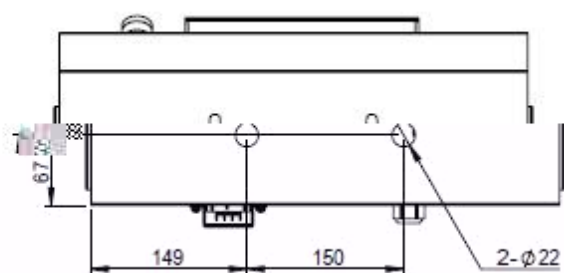
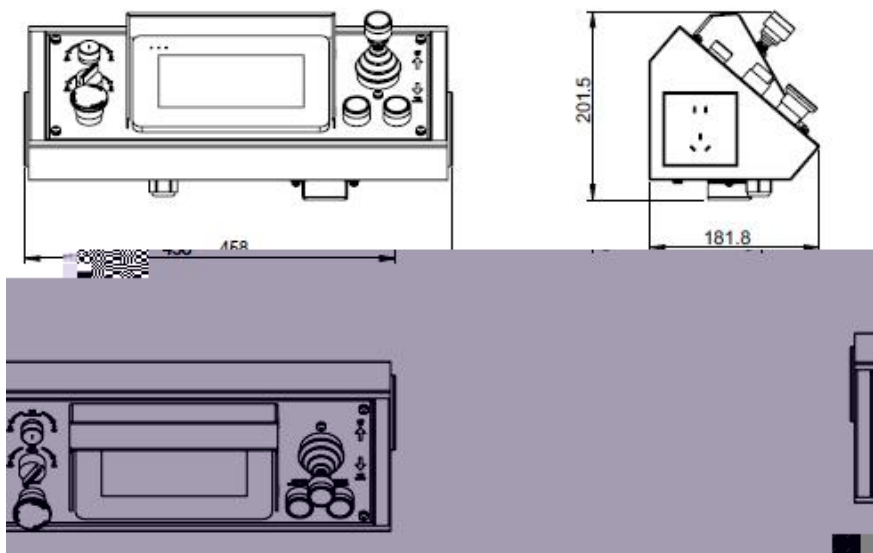
CZT200



CZT200

CZT100



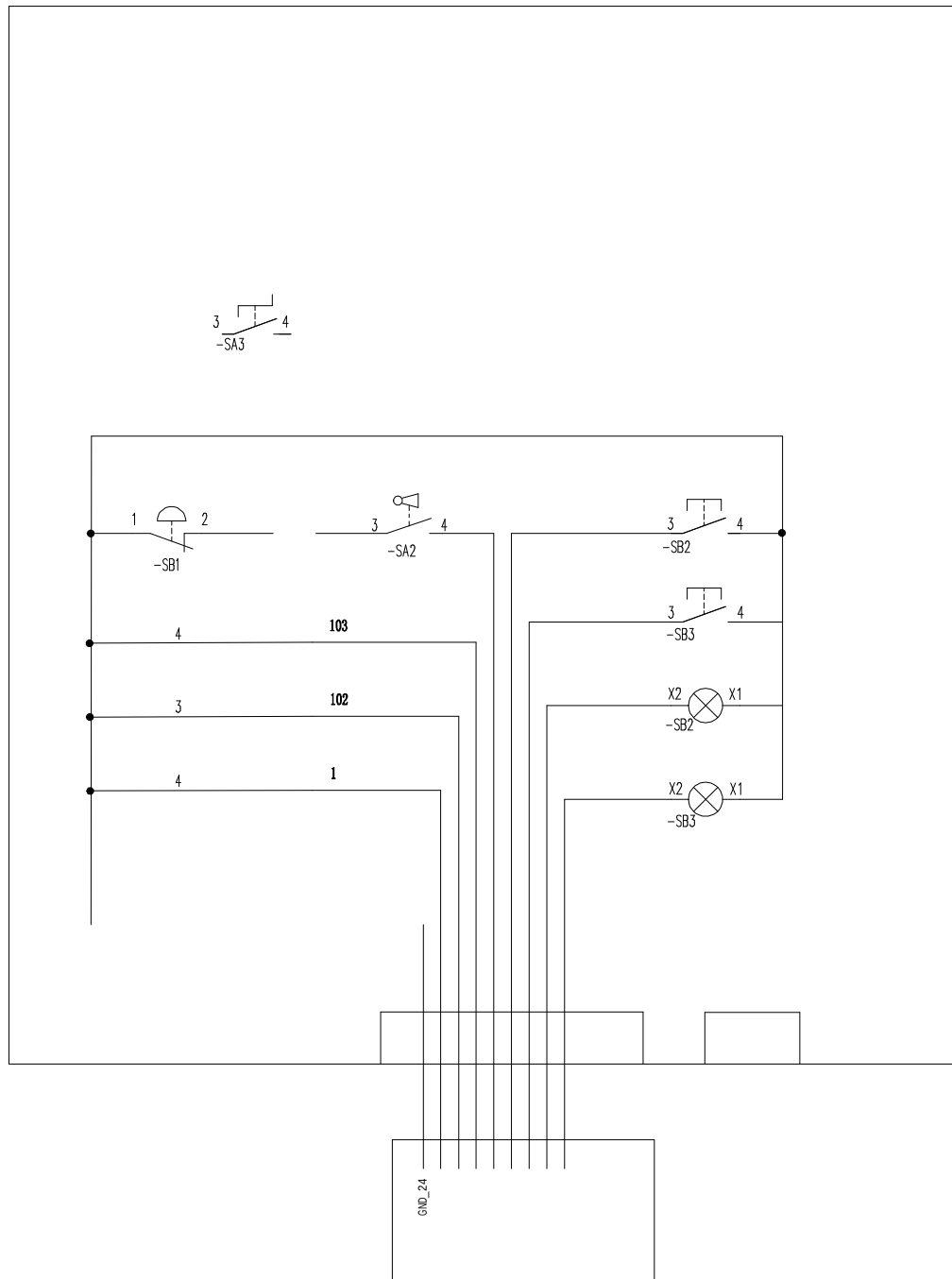


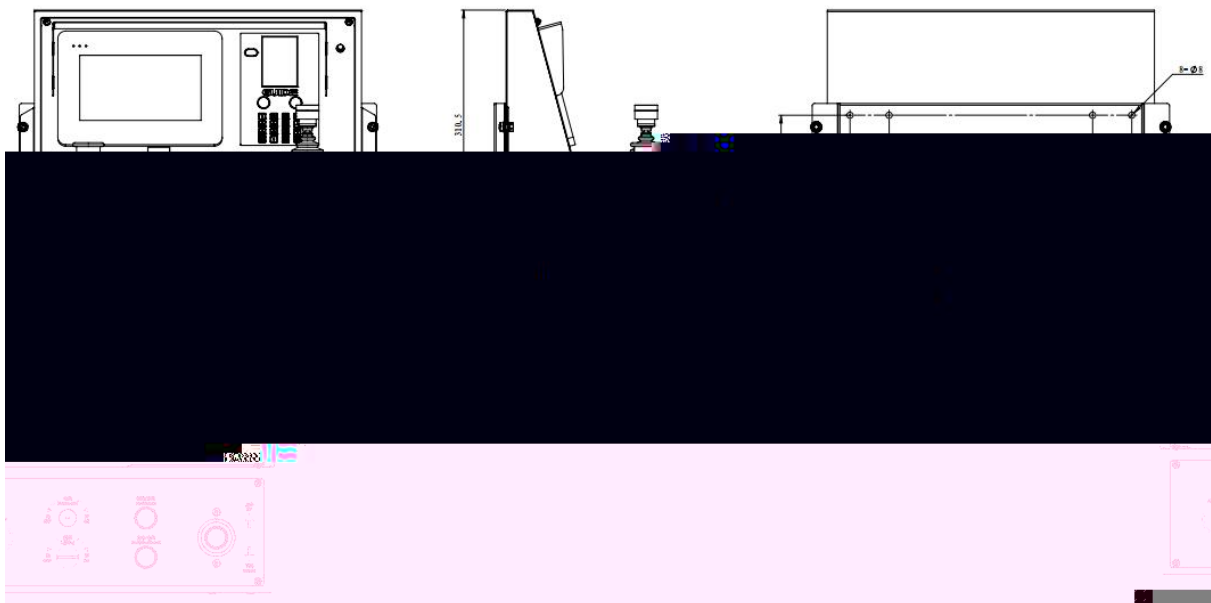
CZT300



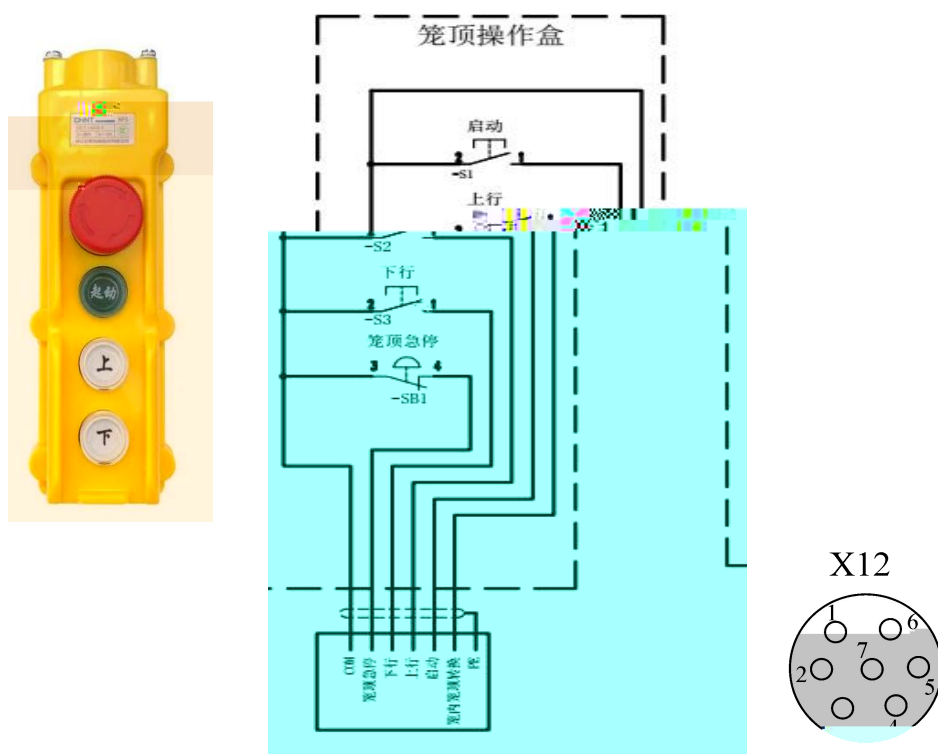
CZT300

CZT200





A.2

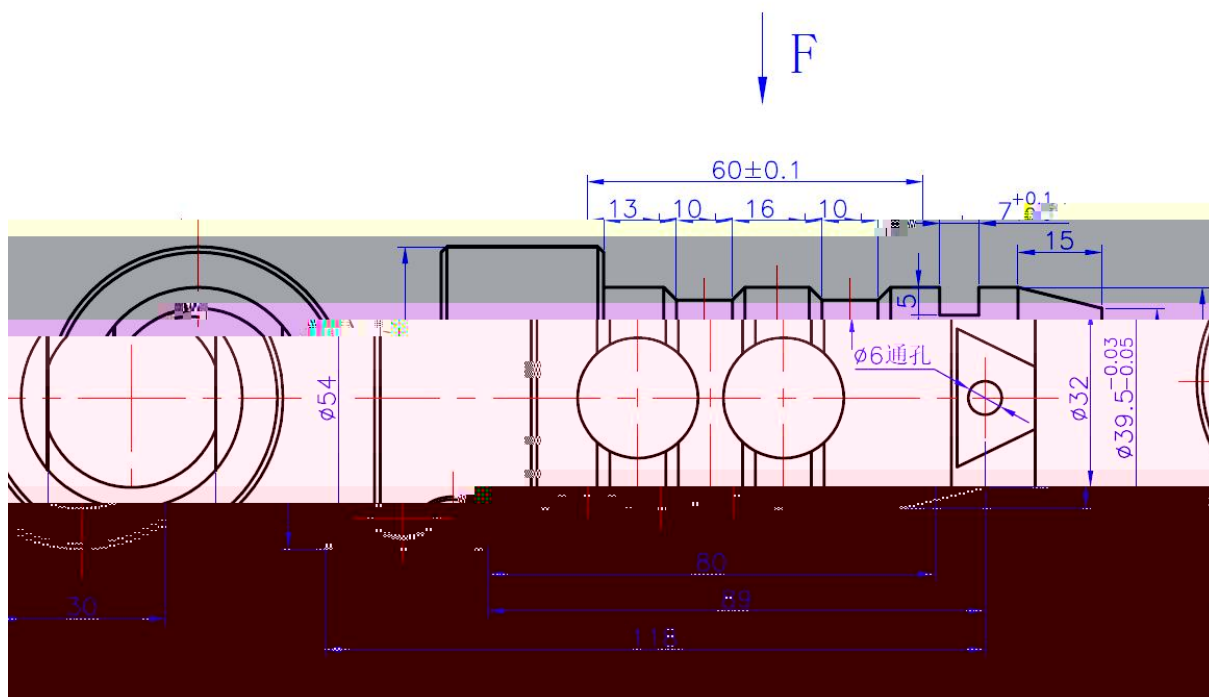


GD300-NP31K

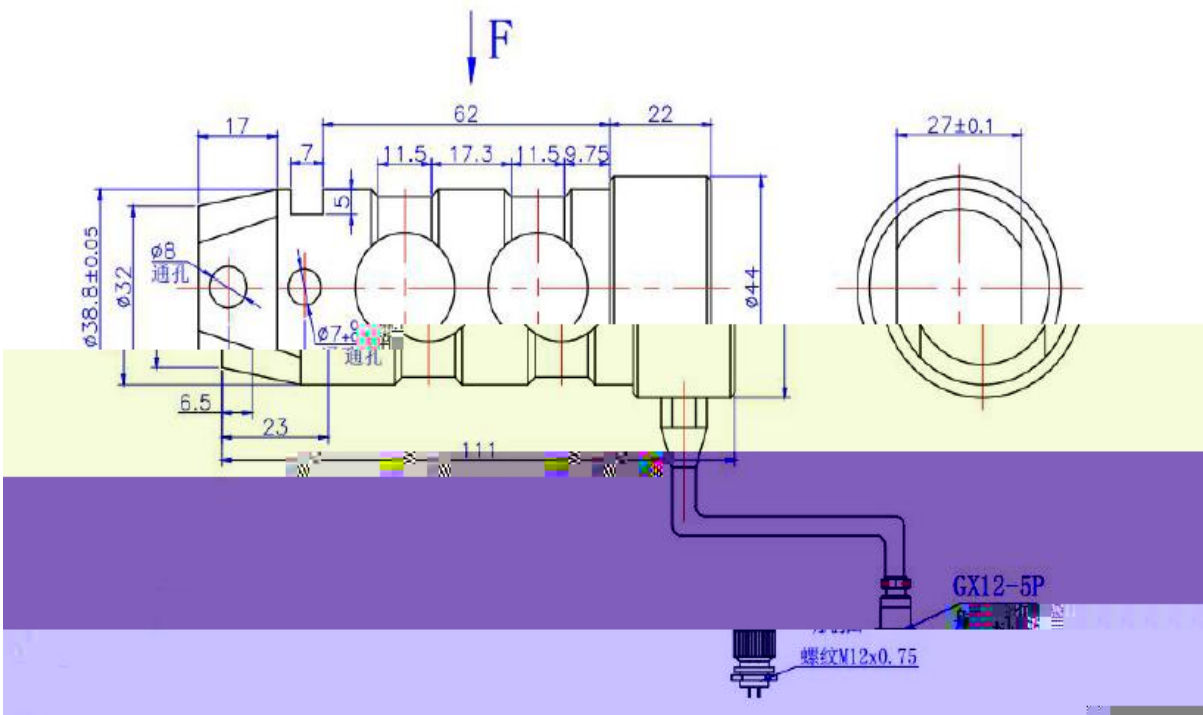
1			
2			
3		COM	
4	COM		
5	PE		

A.4

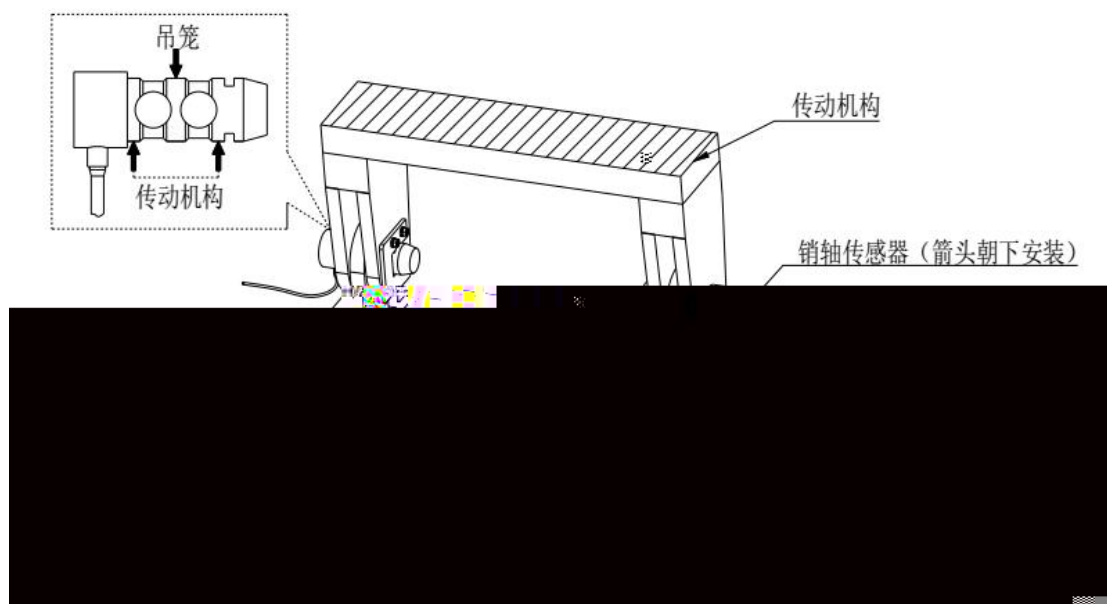




ZMHBX-3t

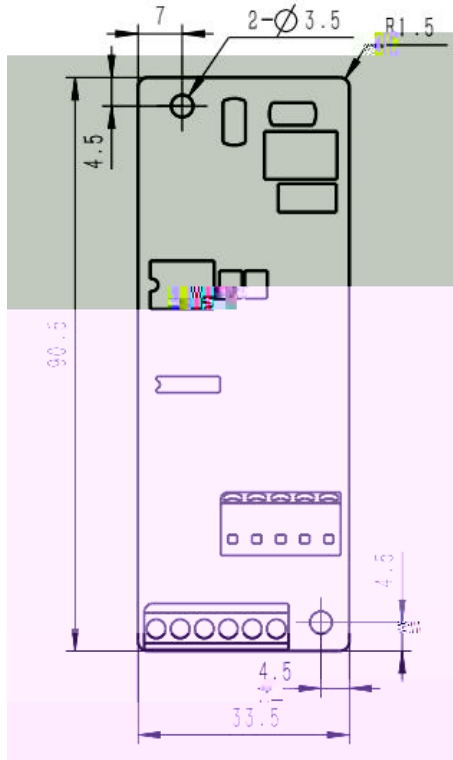


	3000 KG
mV/V	1.0mV/V
	0.5%F.S
	± 0.05%F.S/30min
	-35 ~+70
Ω	370 ± 20
Ω	350 ± 3
	150%F.S
	10VDC



A.5

1



PG

2

+15V , GND		...	15V ± 5%	300mA
A+ , A- B+ , B- Z+ , Z-		0-80kHz	0-15V	...

3

1

PG PG

+15V

PG 8

PG 8

A+	A-	B+	B-	Z+	Z-
----	----	----	----	----	----

+15V	GND
------	-----

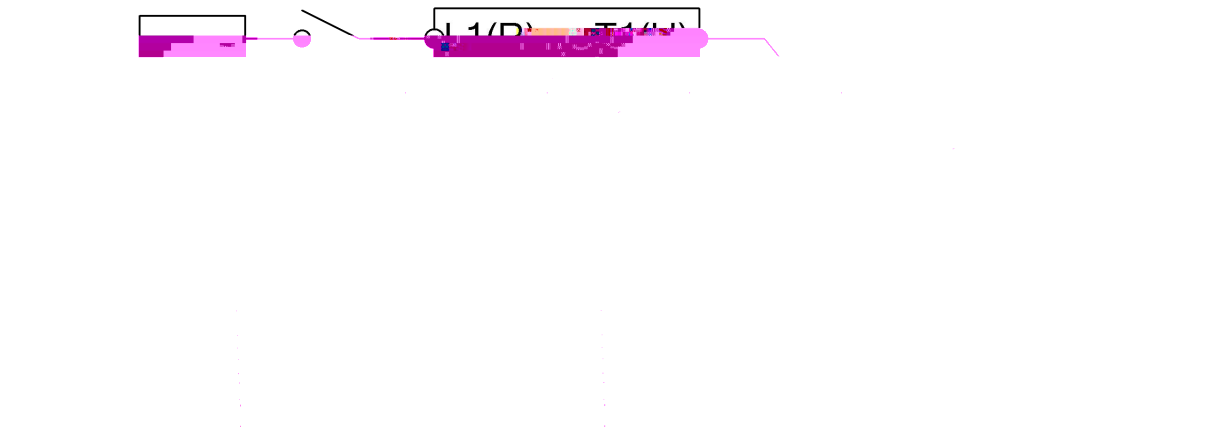
+15V GND A+ A- B+ B- Z+ Z-

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

PE

PE

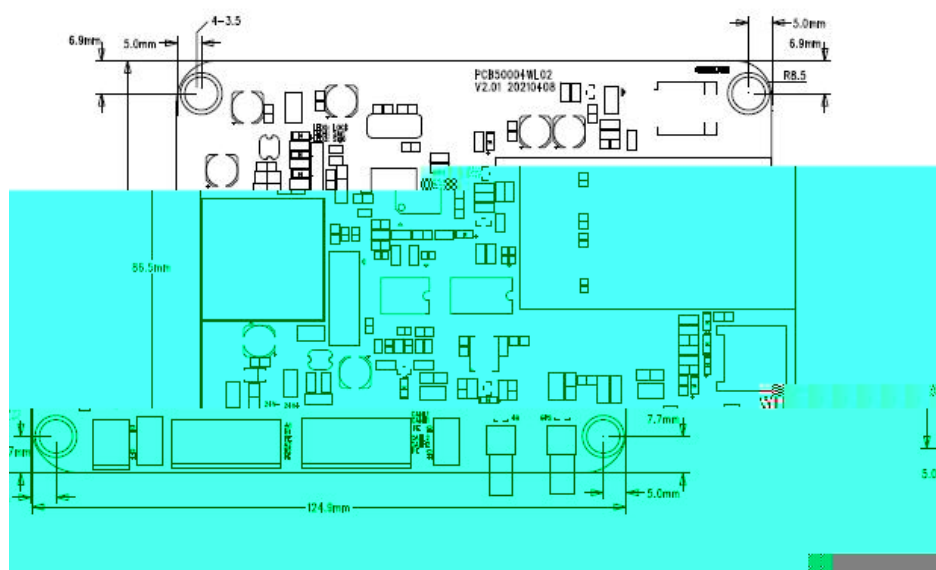
PG

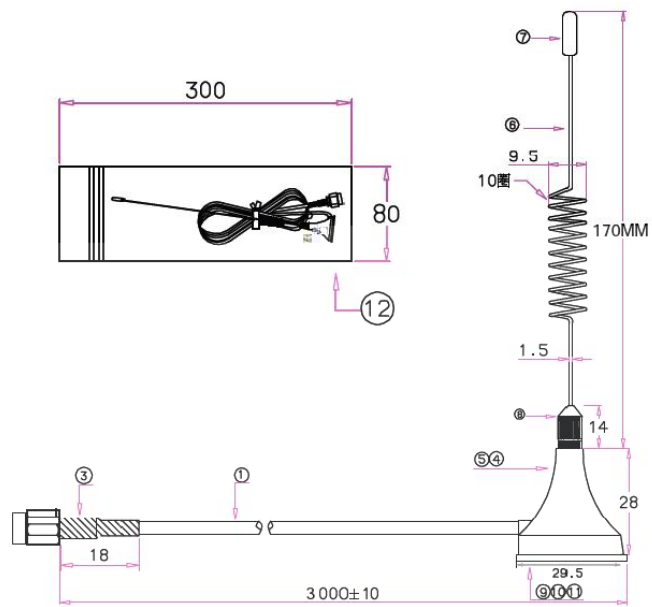


- | | | | | | | | | |
|-----|----|--|----|----|----|----|-----|--|
| (1) | PG | | | | | | | |
| (2) | | | | | | | PG | |
| (3) | | | | | | | PE | |
| (4) | | | PG | A- | B- | Z- | GND | |

A.6

- | | | | |
|---|-----------|-----|---|
| 1 | GDHF-WP03 | | |
| 2 | 4G | GPR | 1 |





4G



GPS

GSM

GSM

•

P28.36

•

•

GPS

•

GPS

P28

P28.0		[0] [1] [2]	0 3	0
P28.1	_A	SIM 3	0 999	139
P28.2	_B	SIM 4	0 9999	0000
P28.3	_C	SIM 4	0 9999	0000
P28.4		[0] [1] + [2] + [3] + +	0 3	0
P28.5		VX.XX	0.00 10.00	1.00
P28.6	0_A	SIM 3	0 999	139
P28.7	0_B	SIM 4	0 9999	0000
P28.8	0_C	SIM 4	0 9999	0000
P28.9	1_A	SIM 3	0 999	139
P28.10	1_B	SIM 4	0 9999	0000
P28.11	1_C	SIM 4	0 9999	0000

...	...	...	...	...
P28.33	9_A	SIM 3	0 999	139
P28.34	9_B	SIM 4	0 9999	0000
P28.35	9_C	SIM 4	0 9999	0000
P28.36		Hz	0.0 5.0	5.0

10

	11	13912345678
P28.06 – P28.35	10	11
3 4 4		
	13912345678	
P28.06	139	
P28.07	1234	

P28.08

5678

1.

2. lock

3. Lock Done

4.

5.

6. unlock

7. unLock Done

8.

9.

10. state

11.

12. state:Lock(unLock)

13. Exxx Wxxx

14. GPS:+-DDDMM.MMMM +-DDMM.MMMM

15. Lock unLock

Exxx Wxxx

000

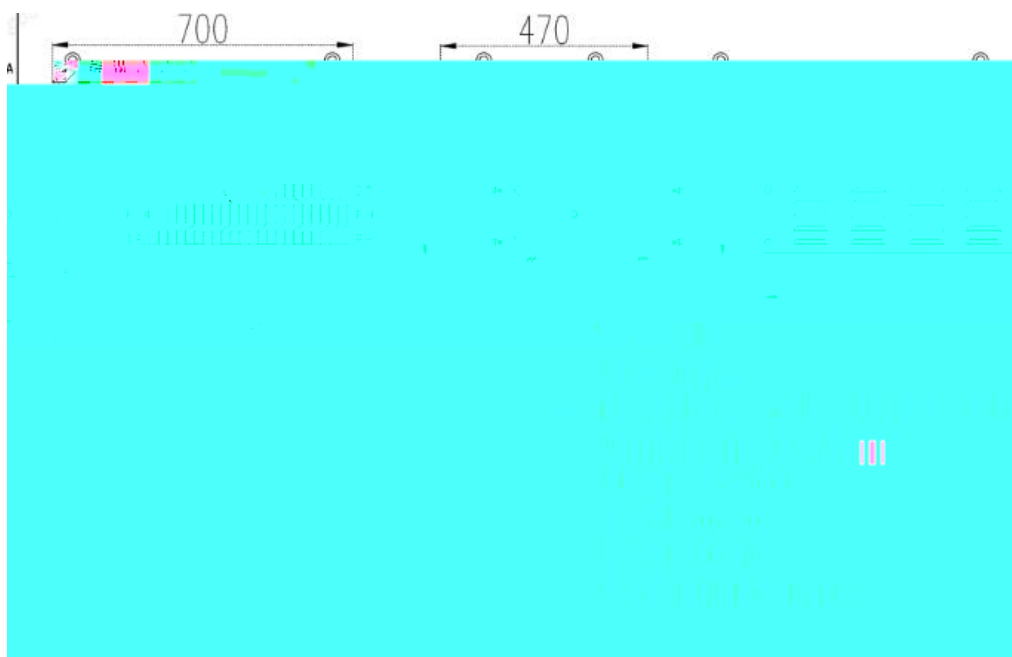
16.	GPS:+-DDDMM.MMMM +-DDMM.MMMM			
17.		D	GPS	M
18.	GPS			GPS:No Signal
19.				
20.	GPS			
21.	gps			
22.	GPS:+-DDDMM.MMMM +-DDMM.MMMM			
23.		D	GPS	M
24.	GPS			GPS:No Signal
25.				GPS

A.7

37kW

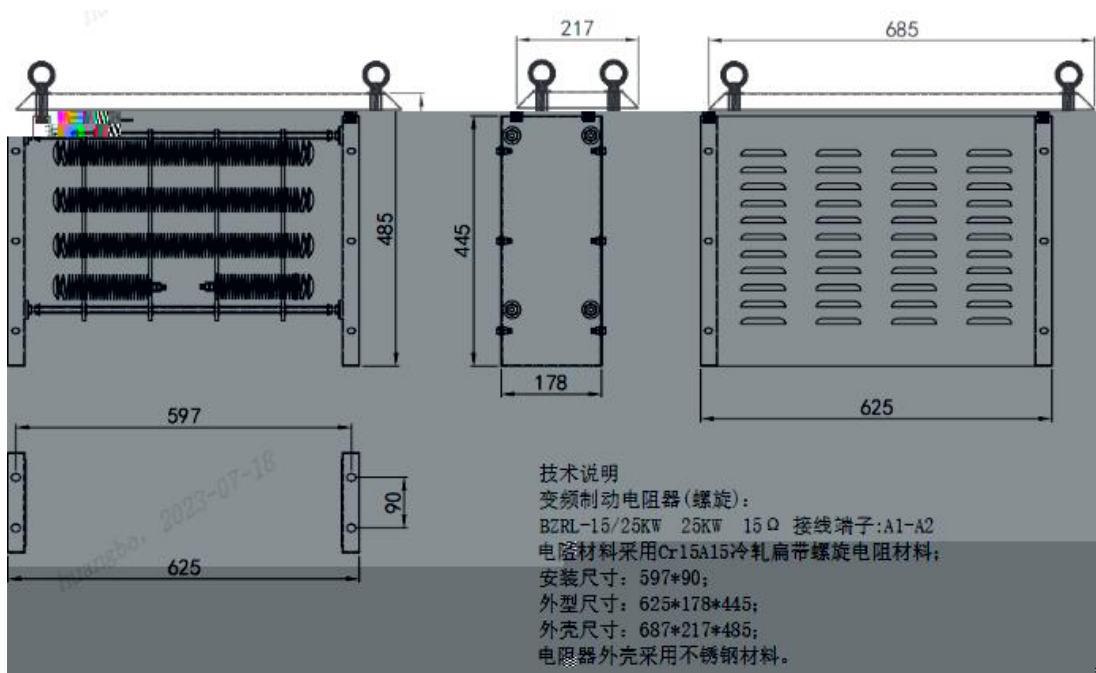
WBSJ2020-0312-2

16 Ω / 25kW



BZRL-15/25KW

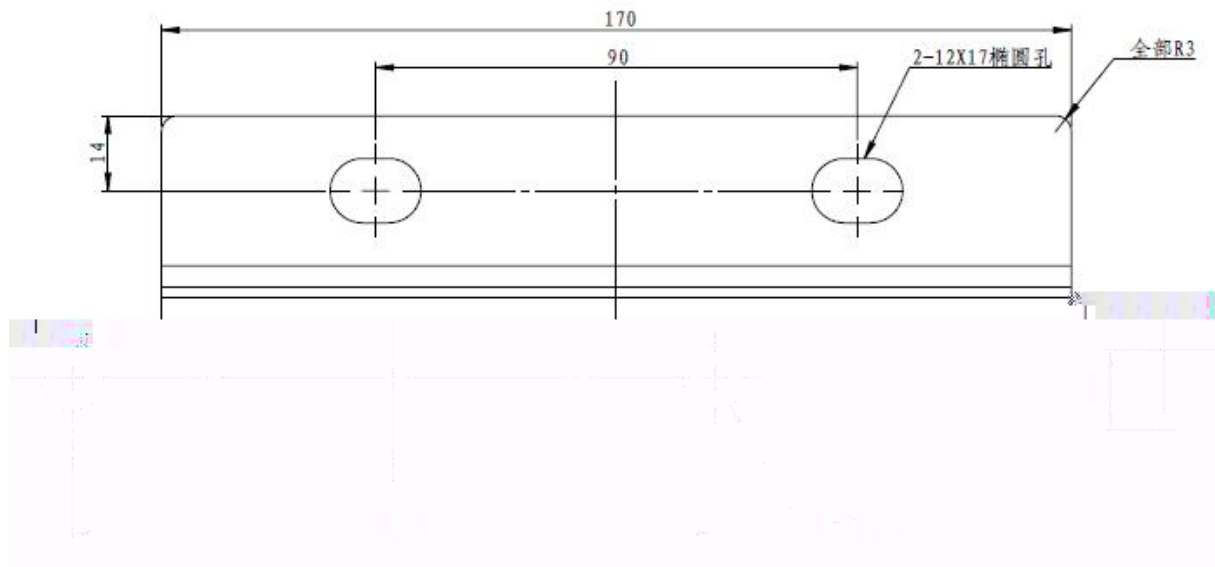
15 Ω / 25kW



A.8

BZRL-15/25KW

10.10.A36.03.XS00



A.9

	WBSJ2020-0312- 2	16 Ω /25kW	22.10.A36.96.200	

B

B.1

3

1

1.1

ID

1.2

3

“

”

ID

ID

2

2.1

2.2

2.3

2.4

2.5

3

3.1

3.2

3.3

3.4

B.2

4



1

“ ”

“ ”

“ ”

”

“ 123123 ”

“ ”

2

“ OK ”

2

“ ESC ”

3

T9

4

5
6 “ ESC ” “ ” 8

B.3

1
/ 10

	→	
	10 →	

2 X16 ; [

4

100

“ 斤 ” F



2

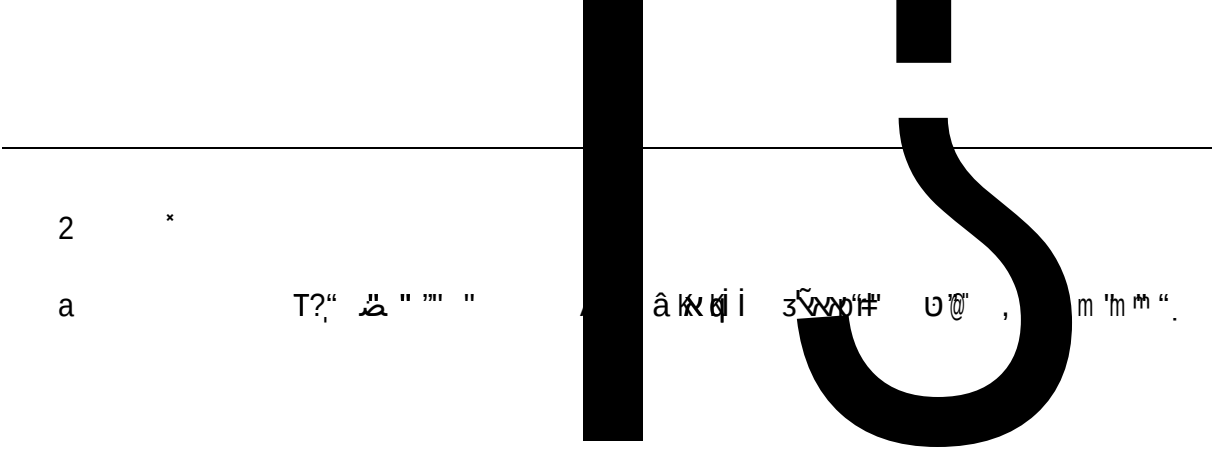
R4

10

B.4

1 · m f T

塔吊模式



2

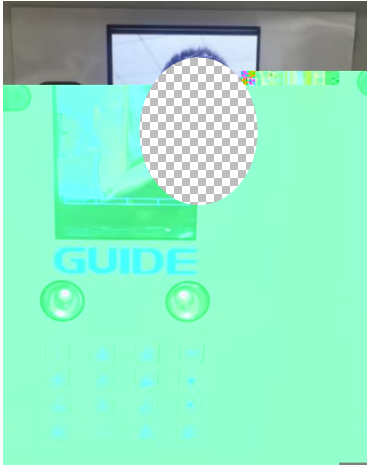
*

a

T? " 2 " " " "

â k i 3 w o t u , m ' m " .

Ĝ , m

	4 4

3

2

a) ID ID ID 1~100

b)

c) “ ” “ ” “ ” 2

d) 2 4~8

e) 4 4

1

B.5

a) “ ” “ ”

b) “ ” ID “ ”

“ ” “ ” “ ”

” “ ”

c) “ ID

B.6

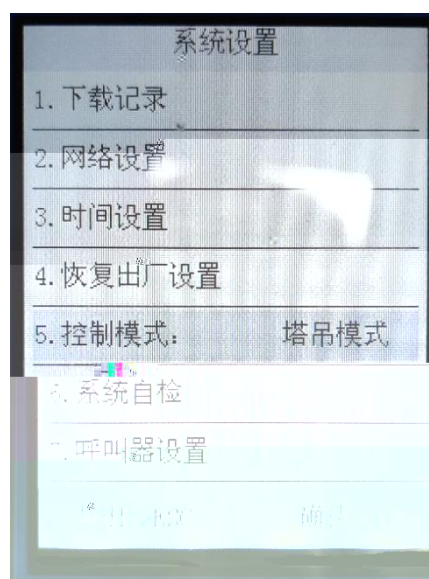
“ ” “ ”

a)

b)

c)

d)



4

B.7

a)

1

b)

1

1

1

2

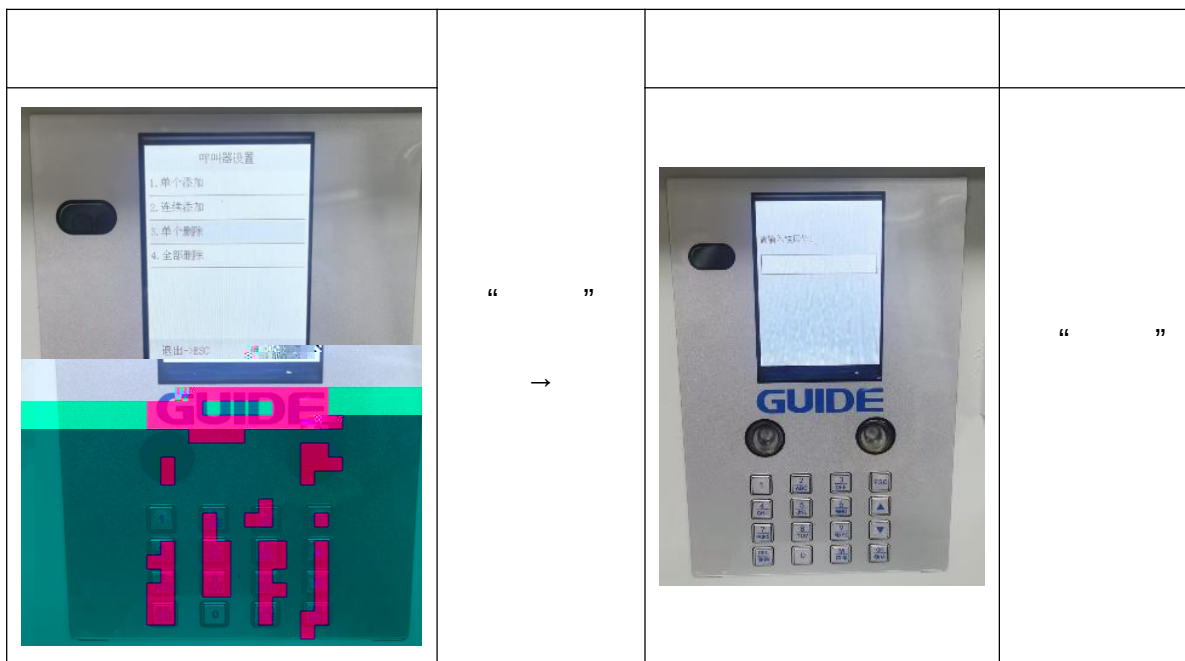
+1

1

“ ”

c)

d)



	“ ” →		“ ” →
	1 →		“ ”

1

2

“ ESP ”



GUIDE

1
2
3

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6

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