

HF682N

V1.00

Wuhan Guide Technology Co.,Ltd.



HF682N

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1.1		
1.2		4
1.3		4
2.		5
2.1		5
2.2		5
2.3		6
2.4		7
2.4.1		7
2.4.2		8
2.4.3		

7.2			44
7.2.1			44
7.2.2			44
7.2.3			45
7.2.4			45
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7.2.6			47
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7.2.8			48
7.2.9			49
8.			50
8.1		P2	50
8.2		P3	50
8.3		P4	52
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8.6		P7	58
8.7	1	P8	61
8.8	2	P9	64
8.9	3	P10	67
8.10	4	P11	70
8.11	1	P12	73
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8.13	3	P14	77
8.14	4	P15	79
8.15	1	V/F P16	81
8.16	2	V/F P17	84
8.17	3	V/F P18	87
8.18	4	V/F P19	90
8.19	1	P20	93
8.20	2	P21	98
8.21	3	P22	103
8.22	4	P23	108
8.23		P33	113
9.			123
9.1			123
9.2			124
9.3			127
10.			129
10.1			129
10.2			130
10.3			130
10.4			131
10.5			131
			132

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RCD

RCM

RCD

RCM 山

B

RCD

RCD

RCD

RCD III

2

W

500V

5M á W

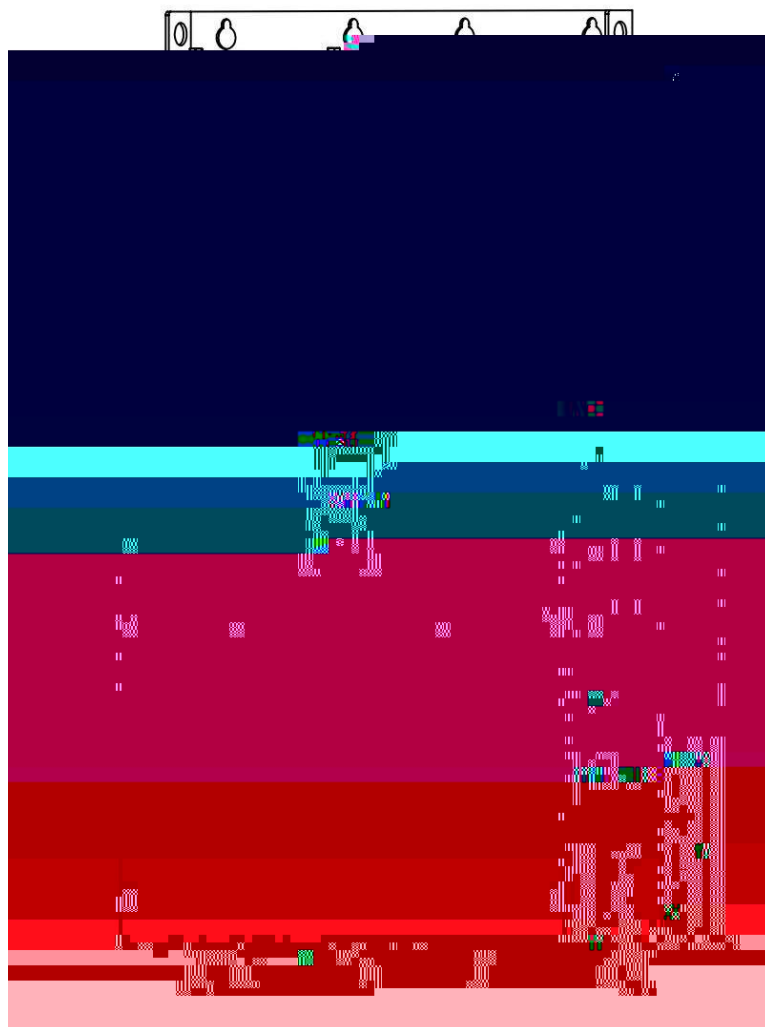
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HF682N03M-355-4



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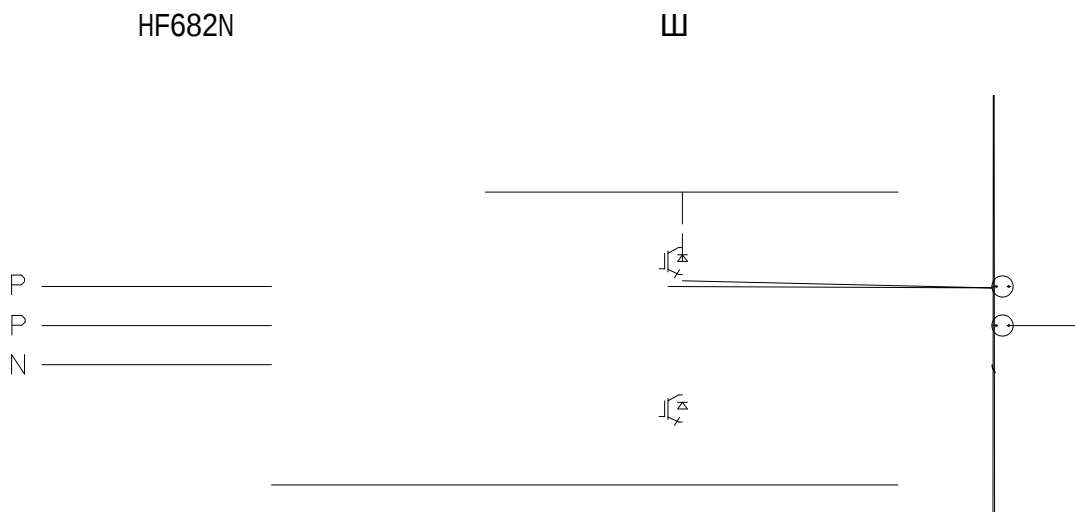
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2.3

DP	GDHF-ADPX1	GDHF-ADPX1 DP HF682N02M U	Profibus HF682N03M
PN	GDHF-APNX1	GDHF-APNX1 HF682N02M	Profinet HF682N03M
	GDHF-AKZY1	GDHF-AKZY1 2N03M	HF682N02M U HF68
2	GDHF-KL2	GDHF-KL2 2 HF682N03M	HF682N02M 2 U
4	GDHF-KL4	GDHF-KL4 4 HF682N03M	HF682N02M 4 U

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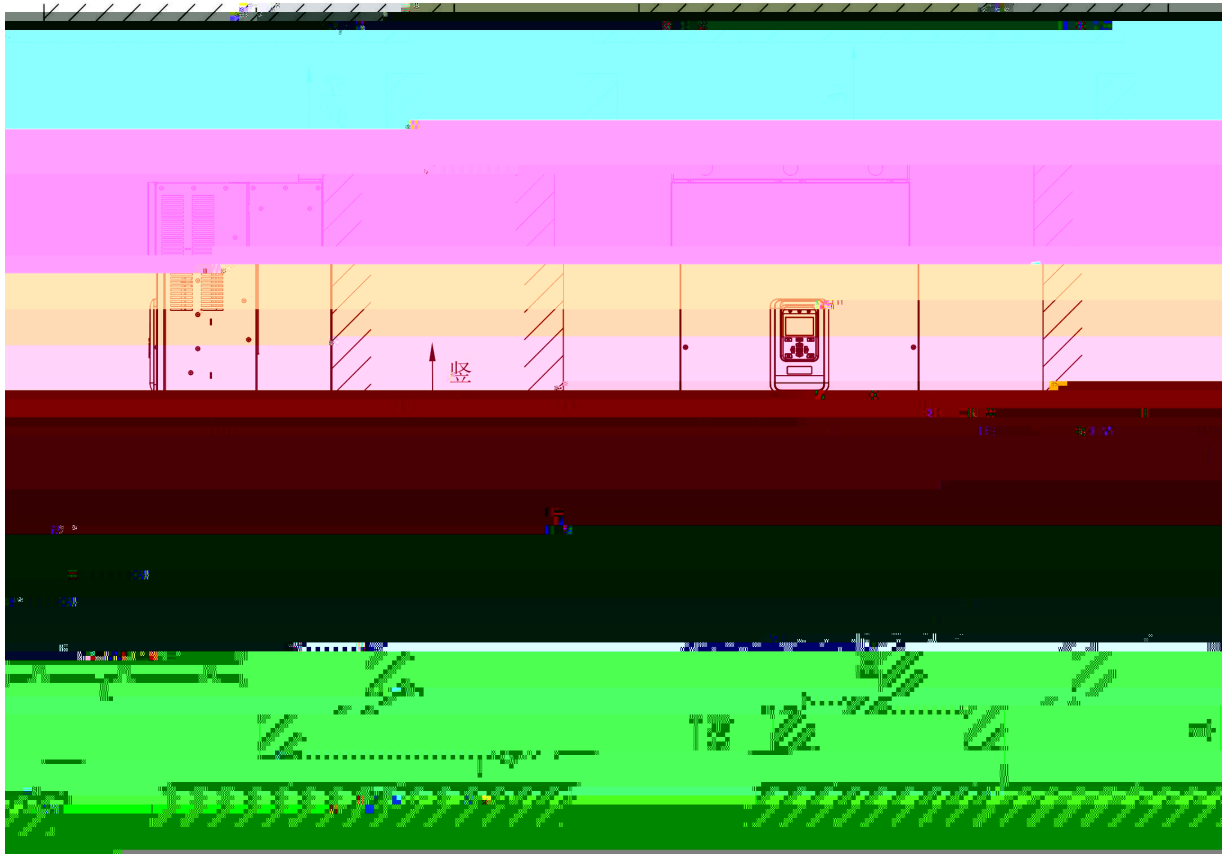
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2.4.2

- -
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- Ш
- 15 Њ +40 Њ Ш +40 Њ +50 Њ 1 Њ
- 2% Ш 50 Њ Ш
- 95%RH Ш
- Ш
- Ш
- Ч Ш
- Ч Ч Ш
- Ш
- 1000 Ш 1000 100 1%
- Ш 3000 Ш
- Ш

2.4.3

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	A ũ 200mm	B ũ 50mm

50mm Ш

2.4.4

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3.

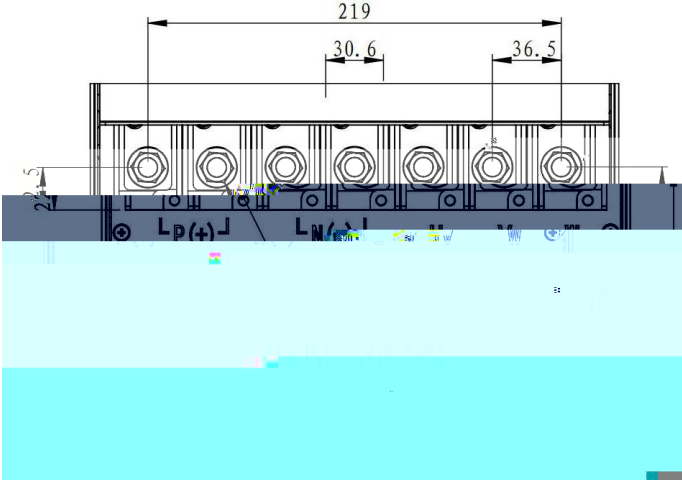
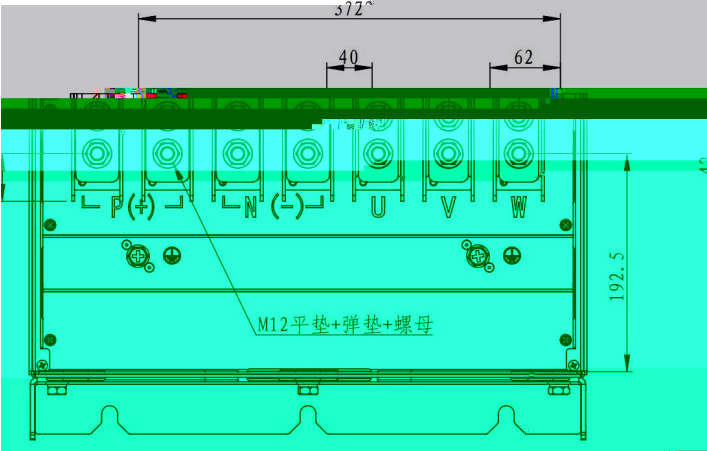
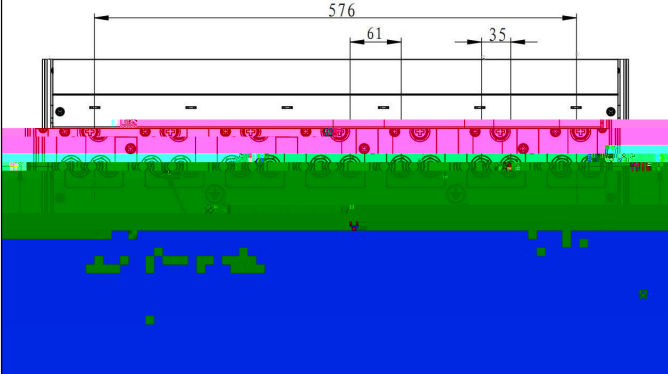
3.1

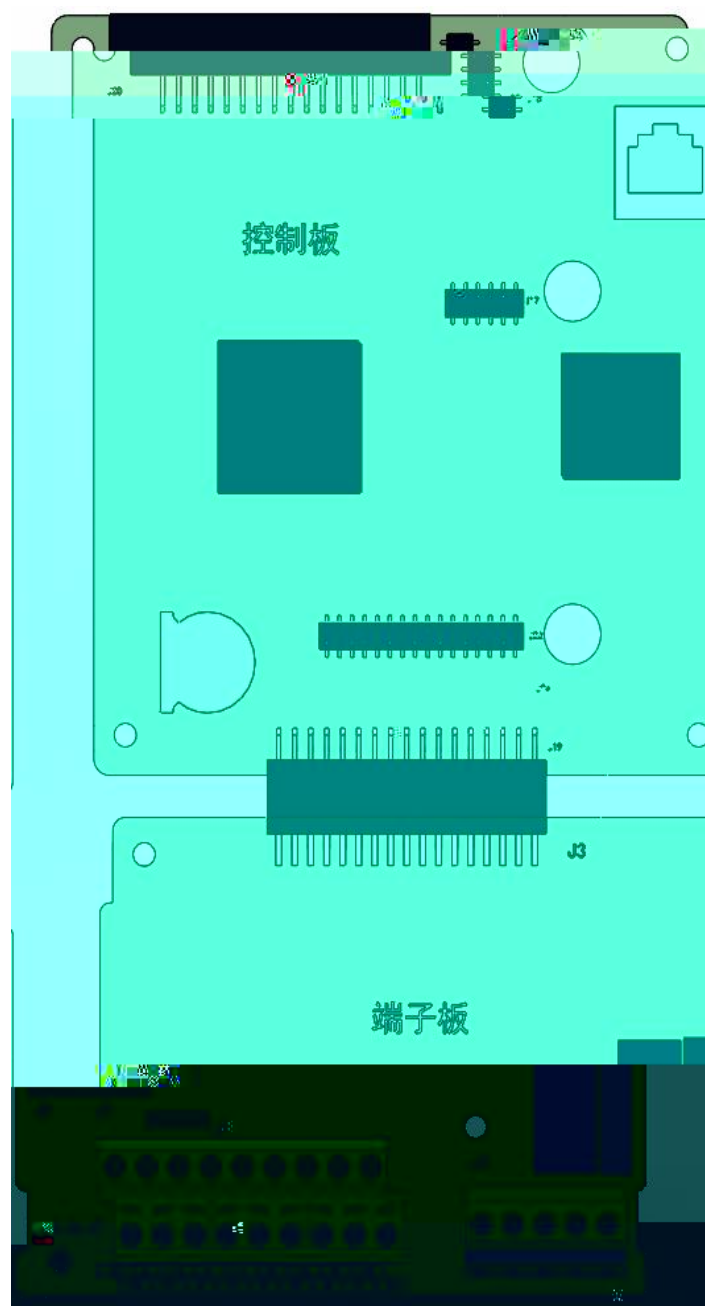
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3.2

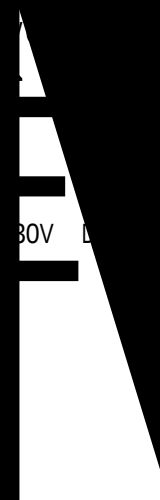
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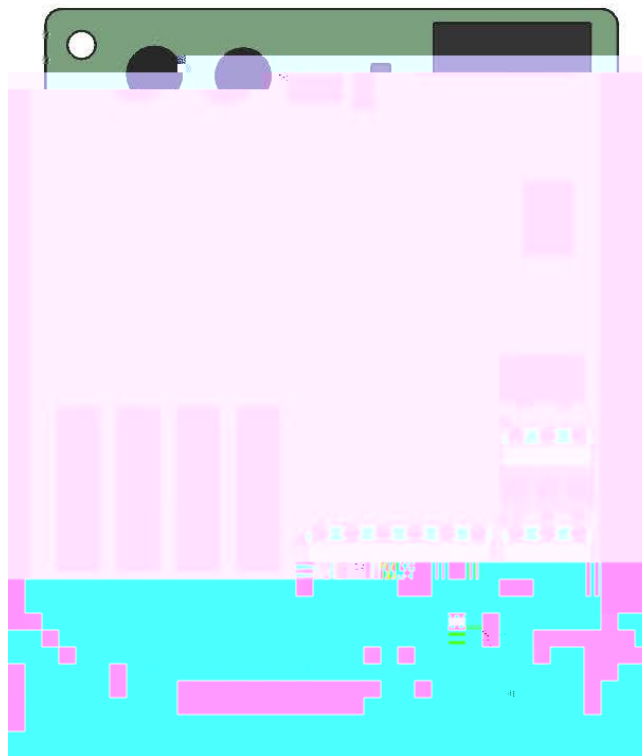
P(+)	
P(+)	
N(-)	
N(-)	
UЧVЧW	
PE	

90~110kW 	160kW 
220~250kW 	355kW 



+10V-GND	10V	á
+24V-COM	24V	
PW		
A11-GND	1	
A12-GND	2	J1
D11- PW	1	
D12- PW	2	
D13- PW	3	
D14- PW	4	
D15- PW	5	
A01-GND	1	
A02-GND	2	
D01-PW	1	
D04A-D04C	1	

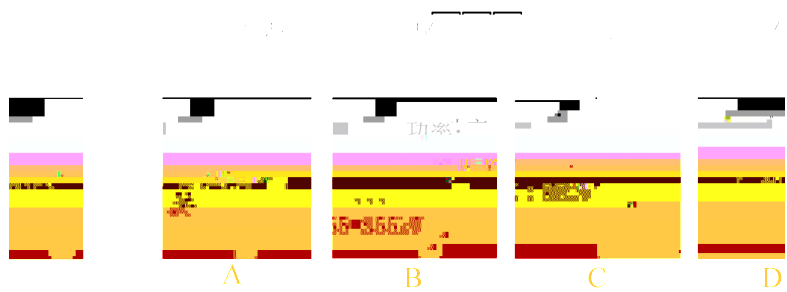




IO

	24V	24VDC	24VDC 24V 24V 11
	COM	24VDC	24VDC
	PW		24V
	DI6-PW	6	14 24 3.3K á 9~30V11
	DI7-PW	7	
	DI8-PW	8	
	DI9-PW	9	
	DI10-PW	10	
	DI11-PW	11	
	DI12-PW	12	
	D02A-D02C	2	AC 250V, 3AC, COS =0.411DC 30V, 1A
	D03A- D03C	3	
	D06A- D06C	6	
	D07A-D07C	7	

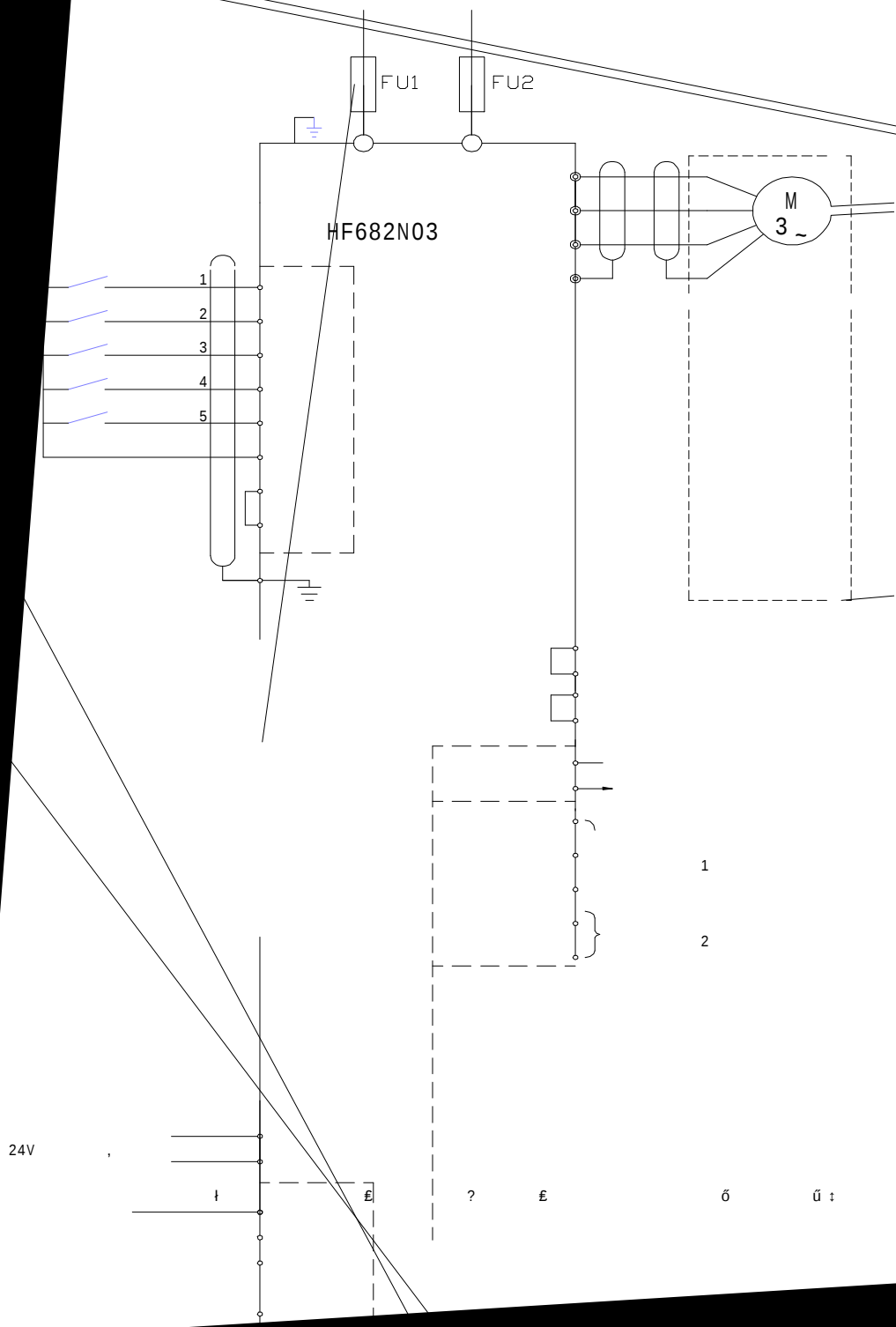
3.3



A	
B	03M
C	090 90kW 355 355kW
D	4 380V

MB01 Modbus RTU DP01 Profibus DP

PN01



3.6

460V 700V

PG

4

PG

4V/F

4

4

380VAC

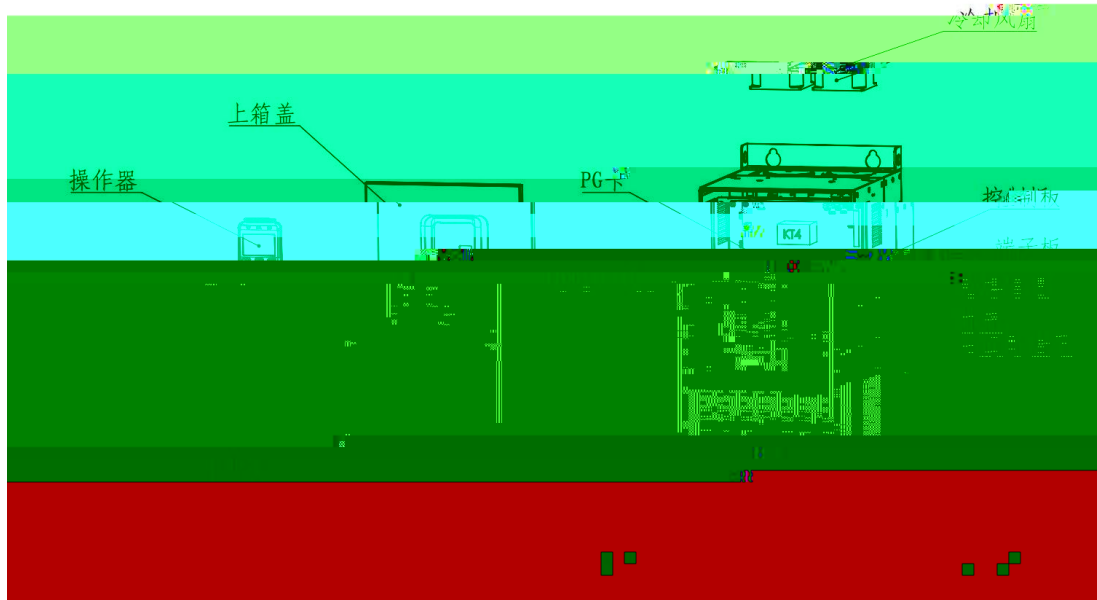
5%

0 300Hz

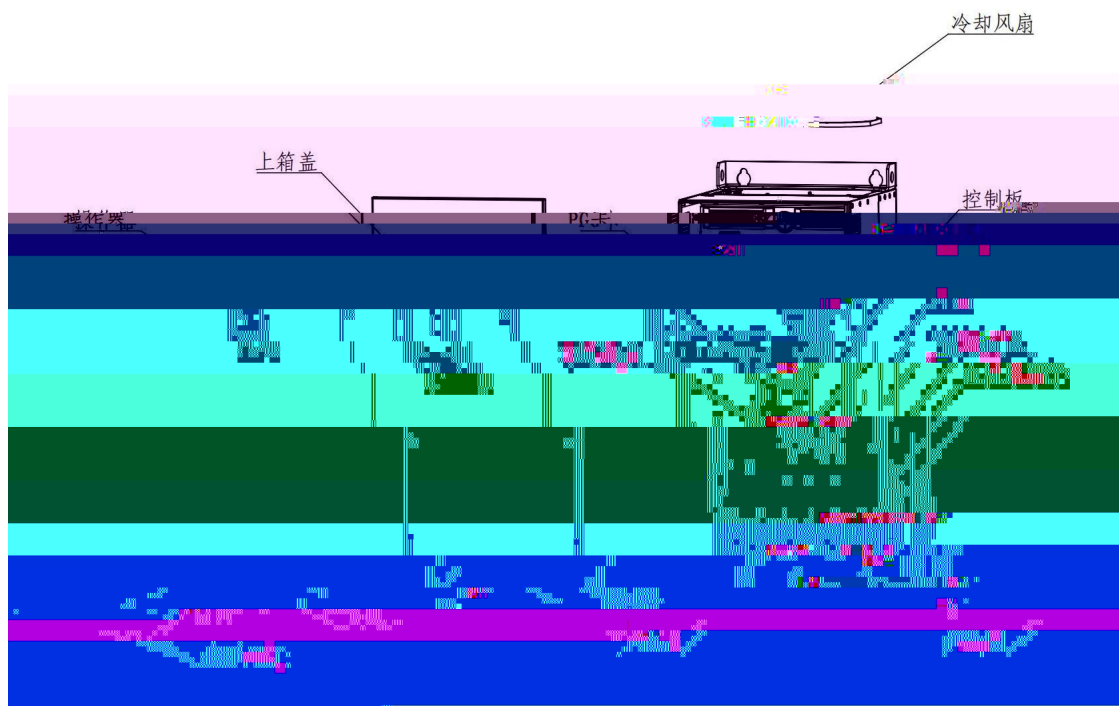
0Hz/200%(VC SVC) 40.0 z

4.

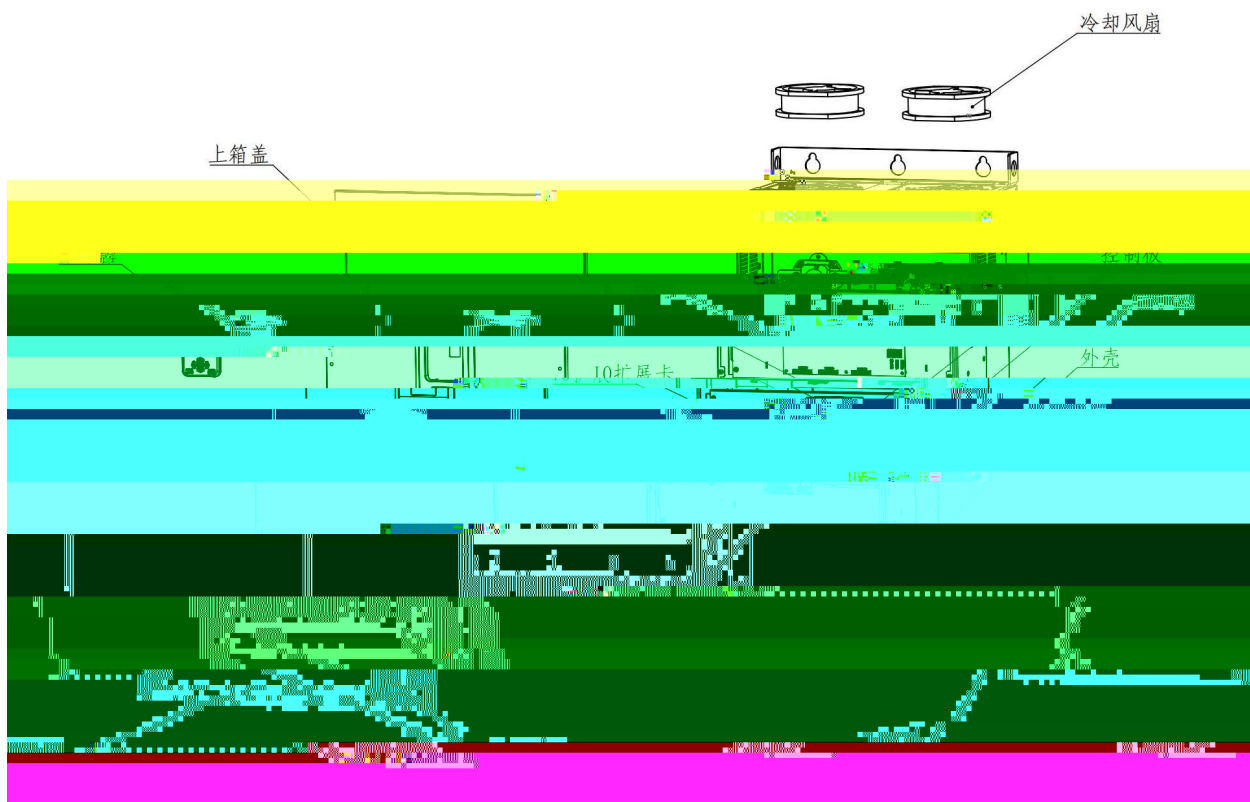
4.1



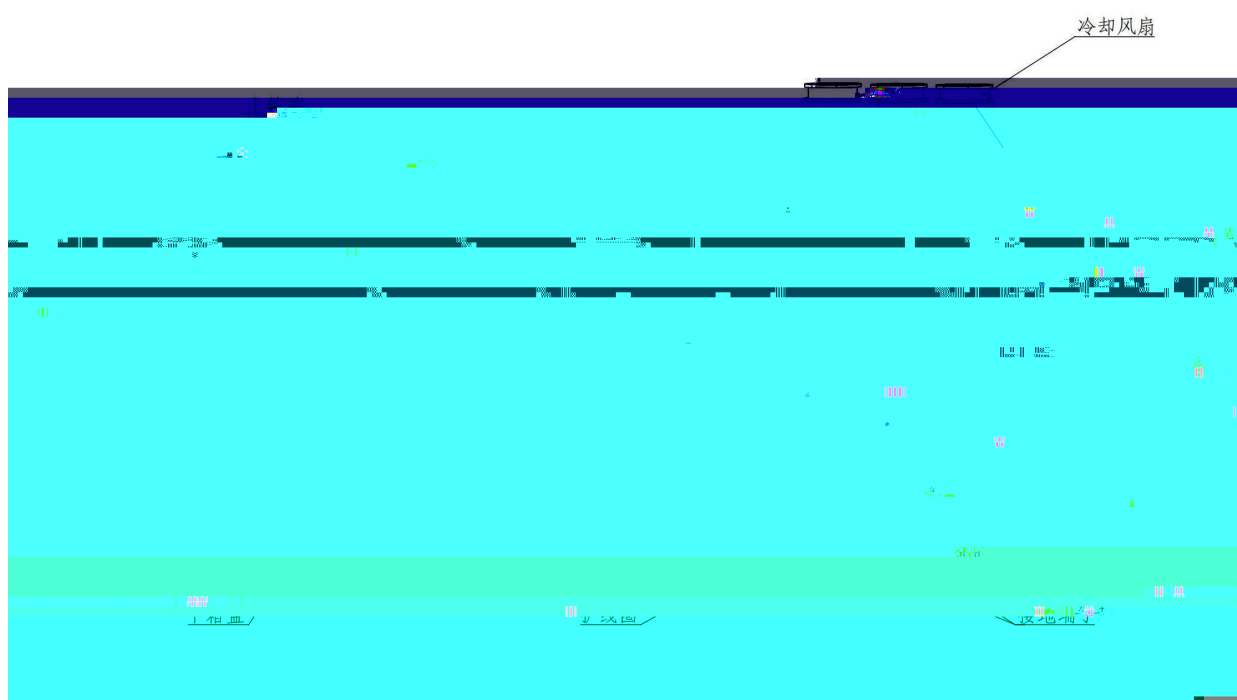
90~110kW



160kW

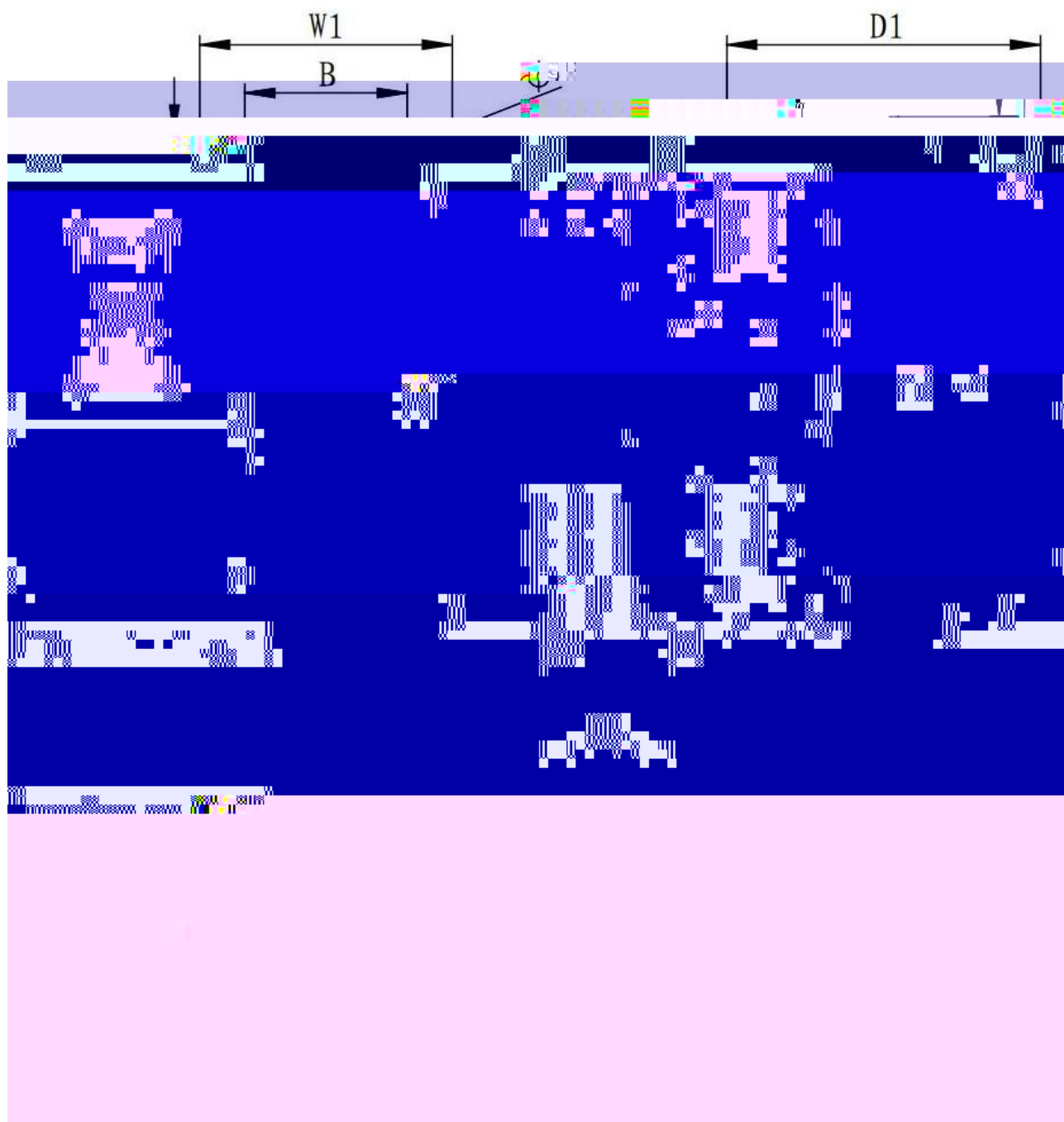


220~250kW

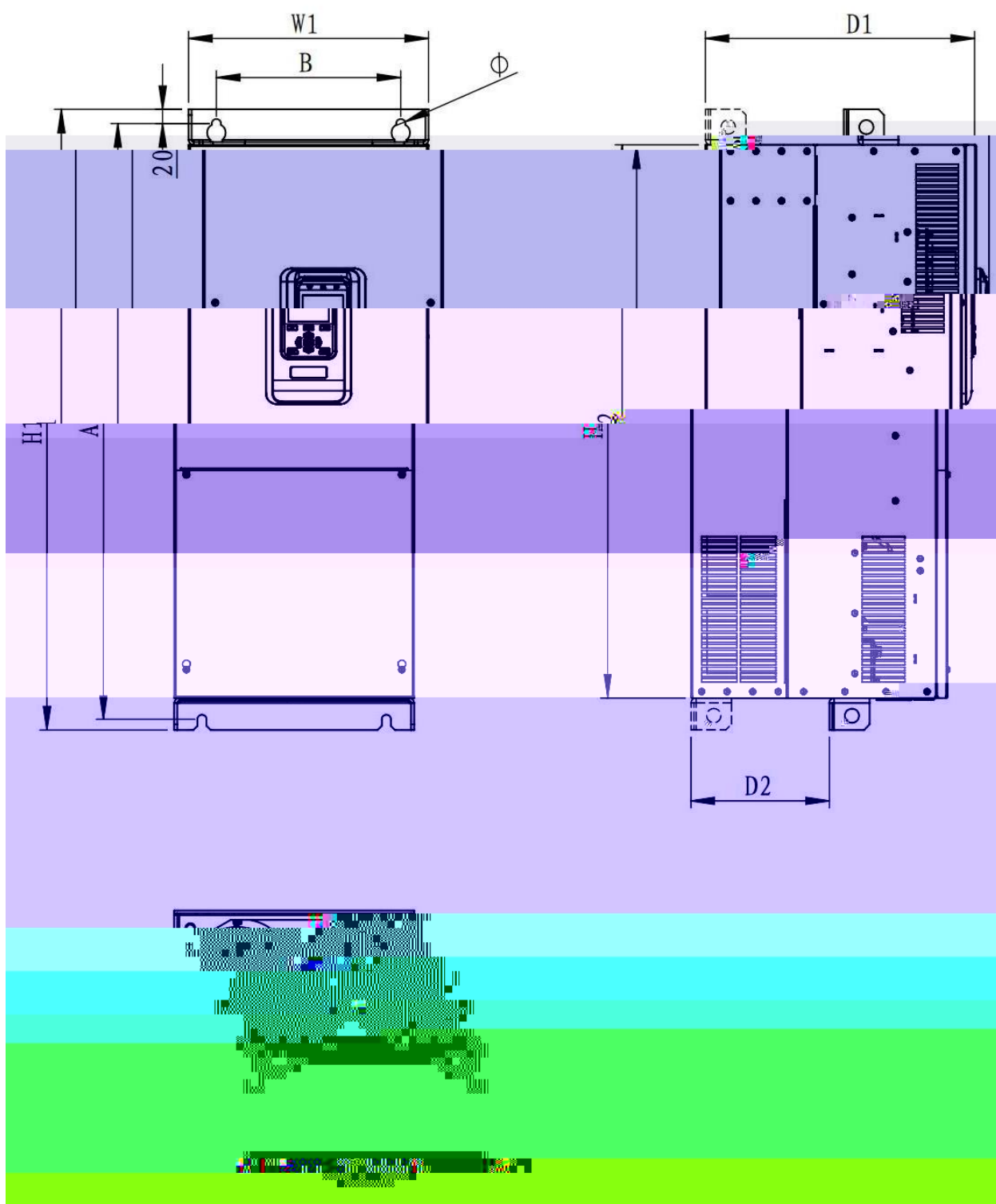


355kW

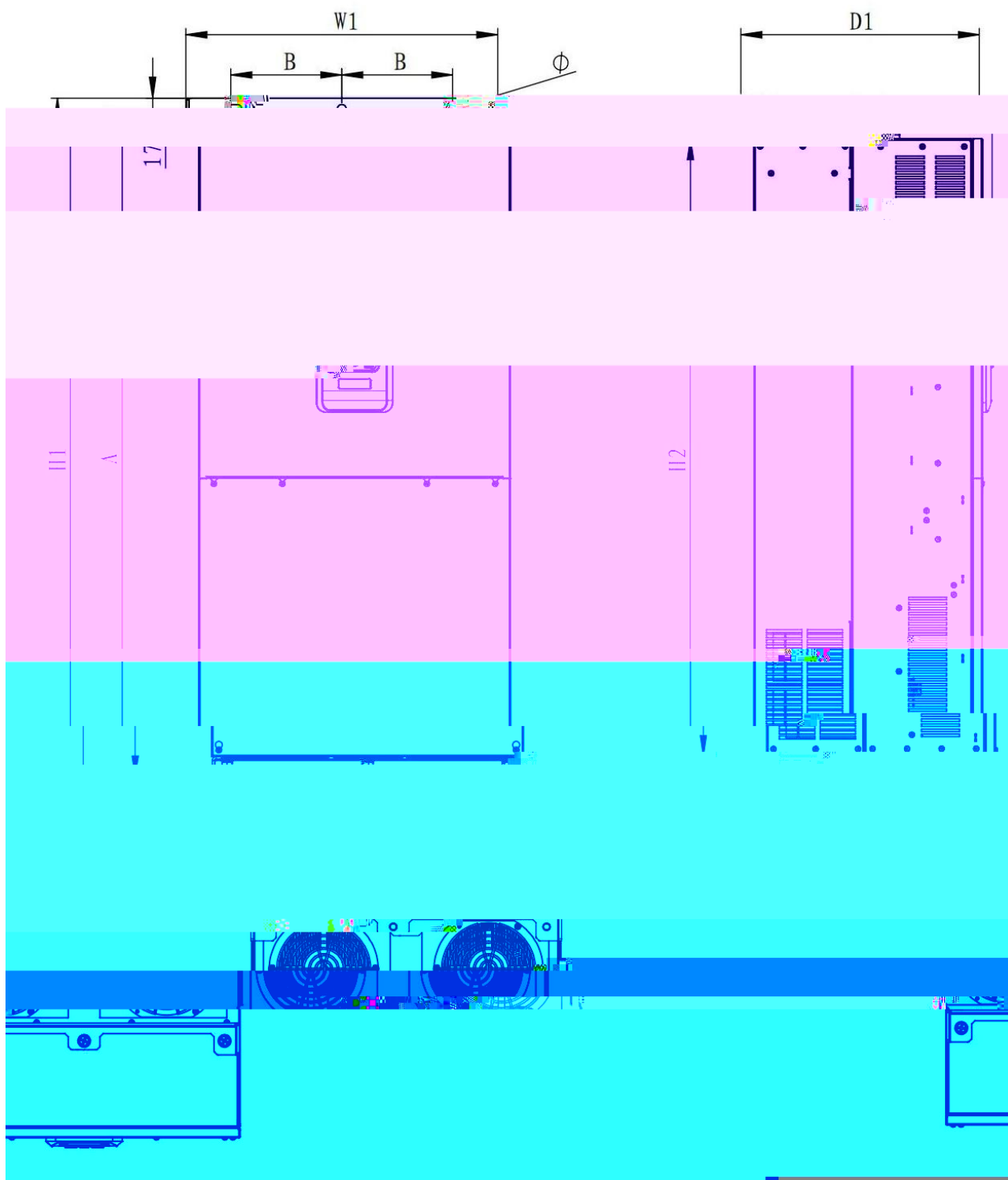
4.2



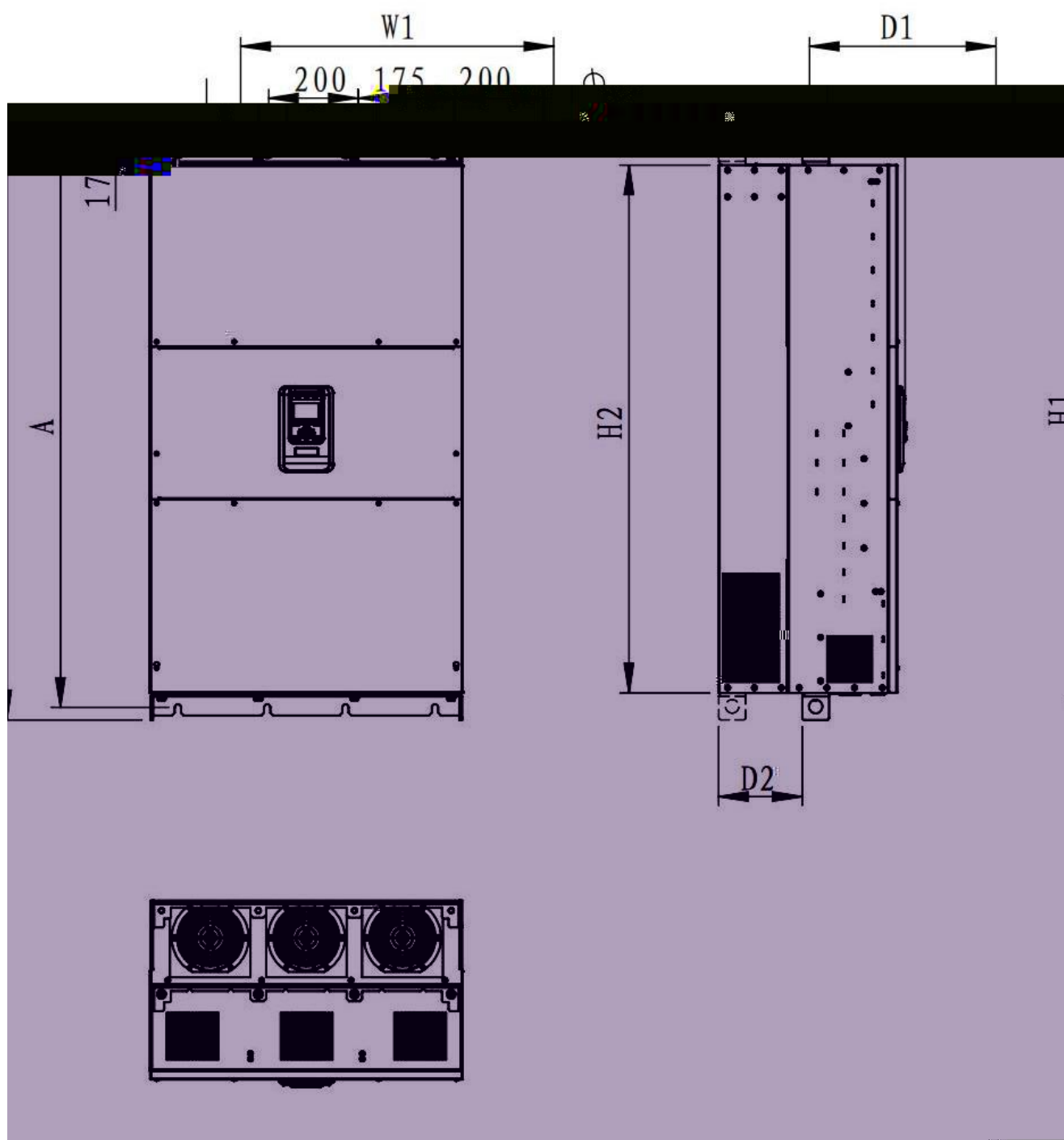
90~110kW



160kW



220~250kW

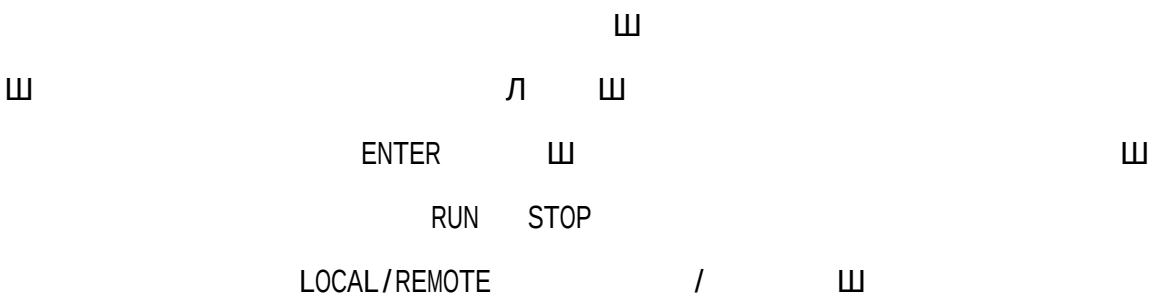


355kW

	mm								8.8	kg
	H1	H2	W1	D1	D2	A	B	ö	M	
90kW	580	508	280	347.5	140	553	180	2- ö 13	4-M12	35
110kW										
160kW	875	780	338	379.5	195	840	260	2- ö 13	4-M12	60
220 kW	1094	975	492	376	180	1054	175	3- ö 14	6-M12	100
250kW										
355kW	1305	1180	700	415	187	1260	/	4- ö 14	8-M12	175

5.1

5.2



5.3



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

	1 - 2
	:V
	A
1	N N W E

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ENTER

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F1/F2

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5	Fault Record	
6	Security	 

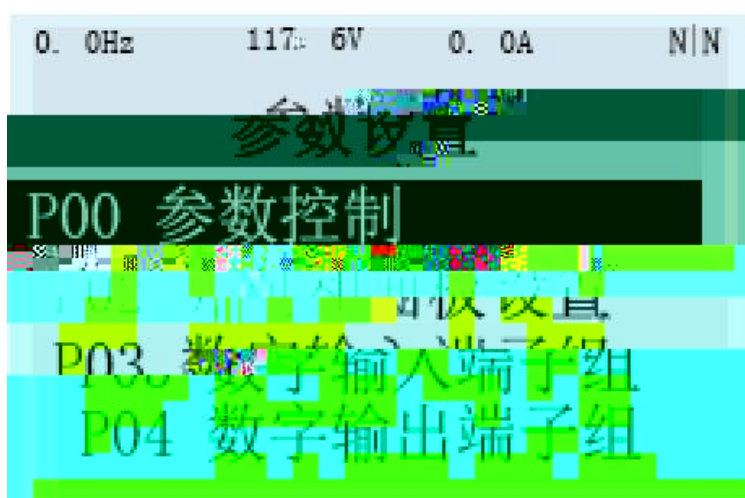
5.4.13 Ю

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- 1 Choose Direction
- 2 Reset Error
- 3 Menu Language
- 4 Monitor Setting
- 5 LCD Contr] n

6	Time Setting	
7	Version	
8	OLD COM	

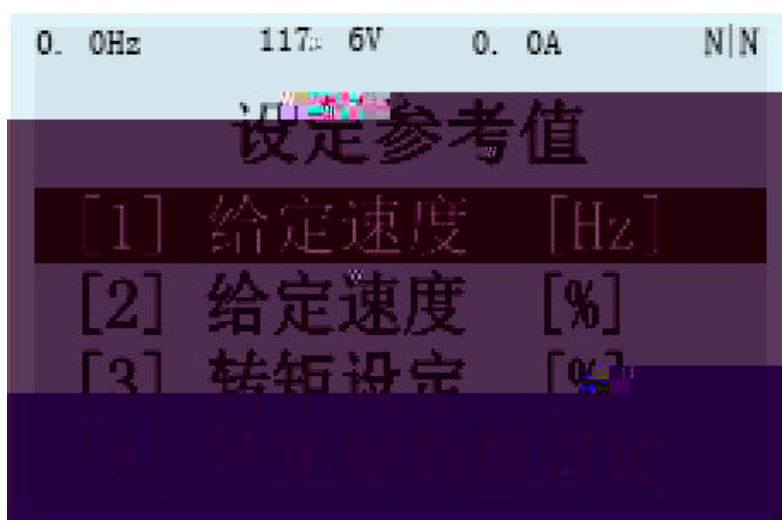
5.4.2③ IO



Parameter Setting

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5.4.3③ IO



1	MotoTuning I	
2	MotoTuning II	
3	MotoTuning III	
4	DC-Link Tuning (AFE)	AFE
5	Sh3tcut PaCAs Setting	
6	PamaCter Initializatin	III
7	Delete Fault Recomds	
8	System Restamt	
9	Backup PaCmeter	
10	Recover PamaCter	
11	Cnpame PamaCter	
12	Backup Pama DSP	



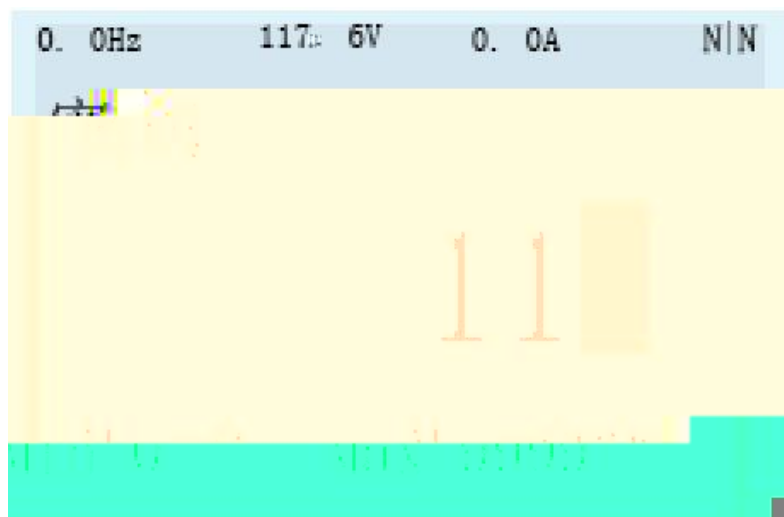
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5.4.6Э

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Access Permissions

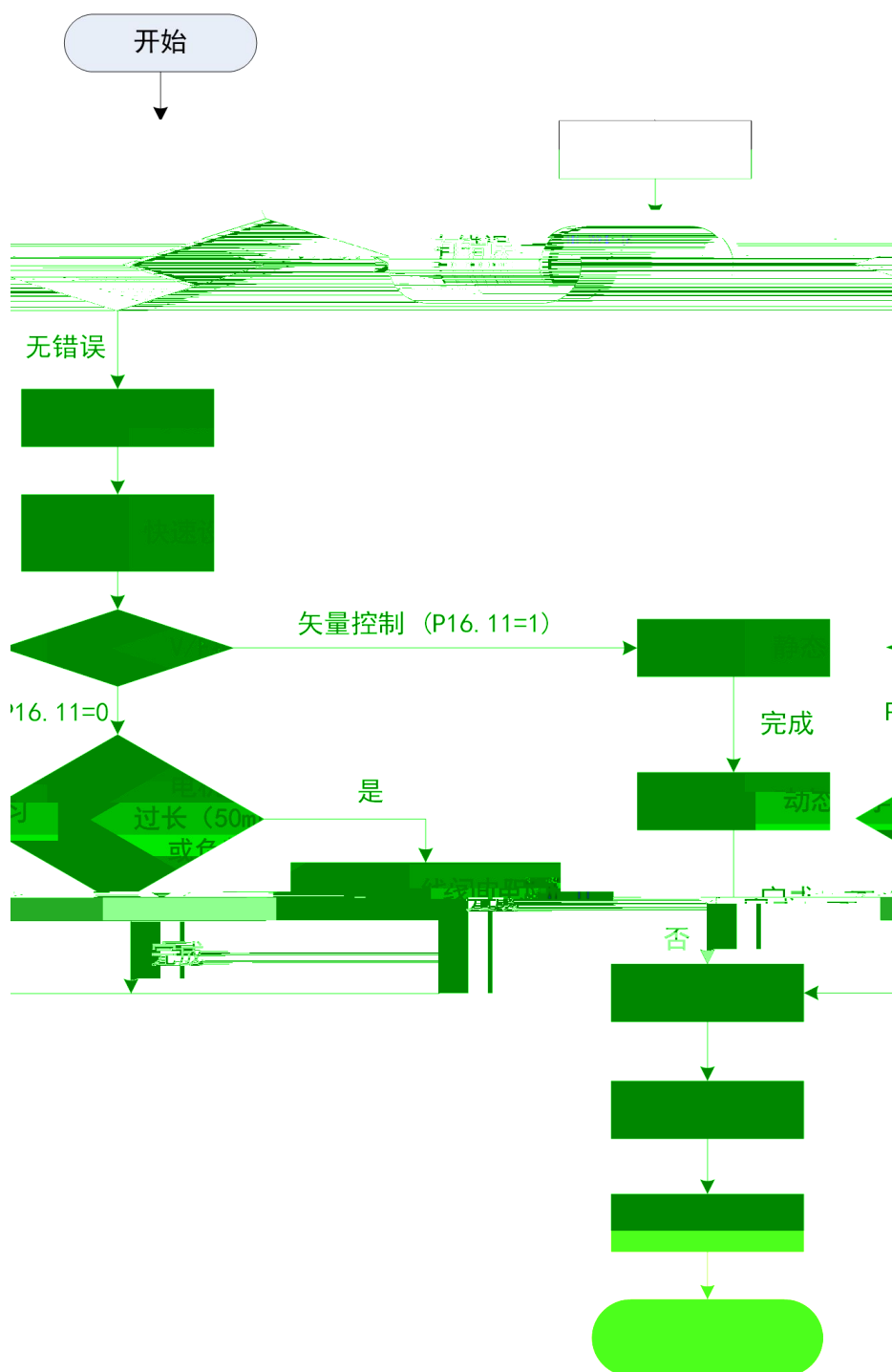
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6.1

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6.2.1

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6.2.2

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P16.2

P16.3

P16.4

P16.5

P16.6

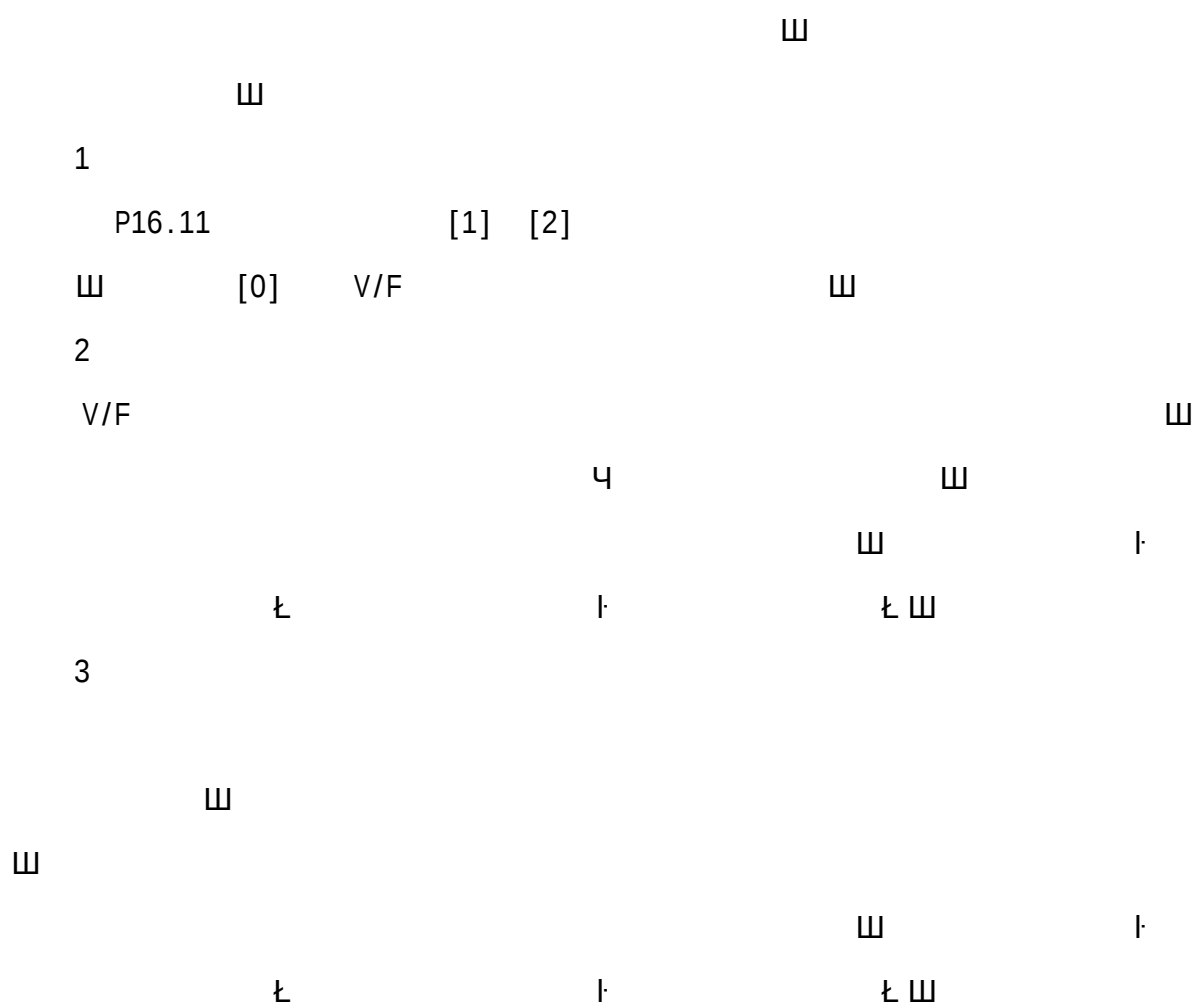
P16.7

120 § P16.5 / P16.6

P16.9

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%

6.2.3



⏏

⏏

1

2

LOC/REM

LOCAL

LOCAL

3

ENTER

[1]

RUN

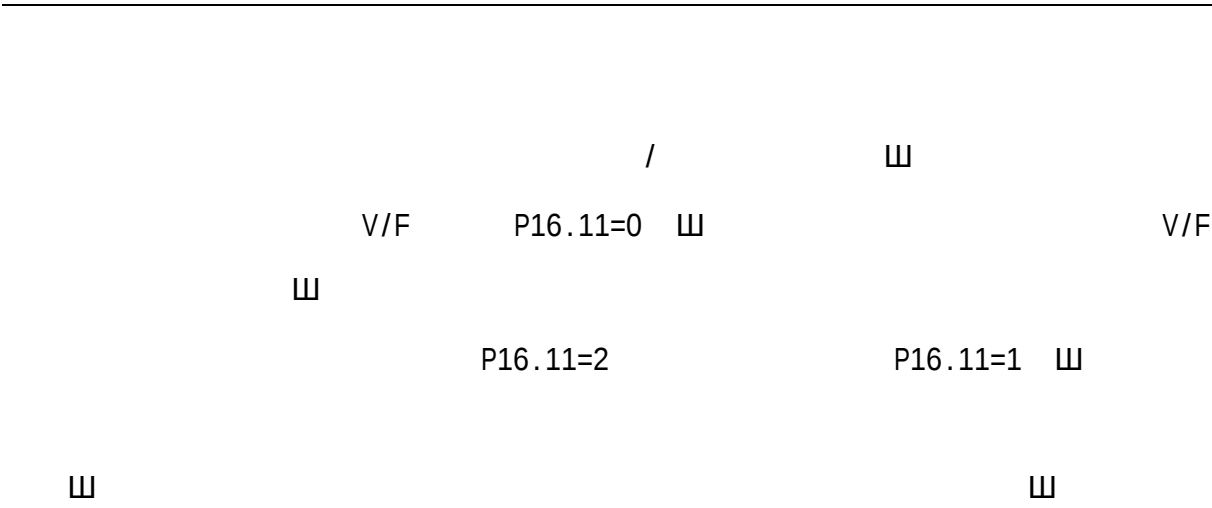
RUN

5Hz

7.

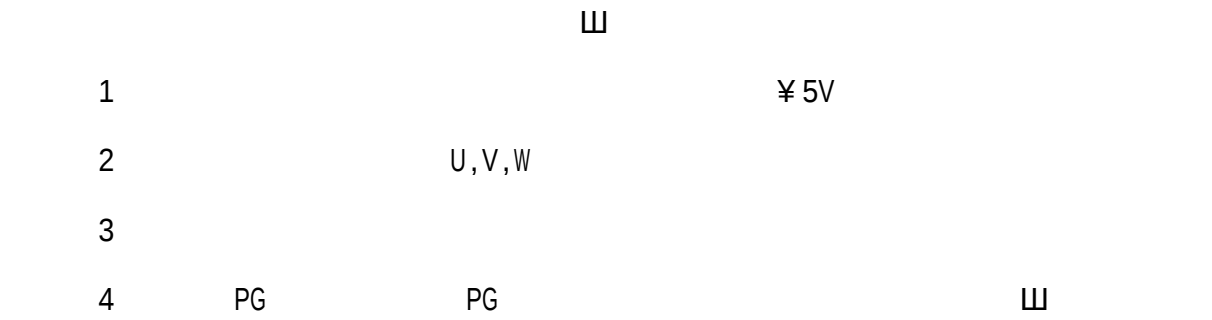
7.1





7.2

7.2.1



7.2.2

Wiring Diagram			
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		

7.2.3

III 6 III

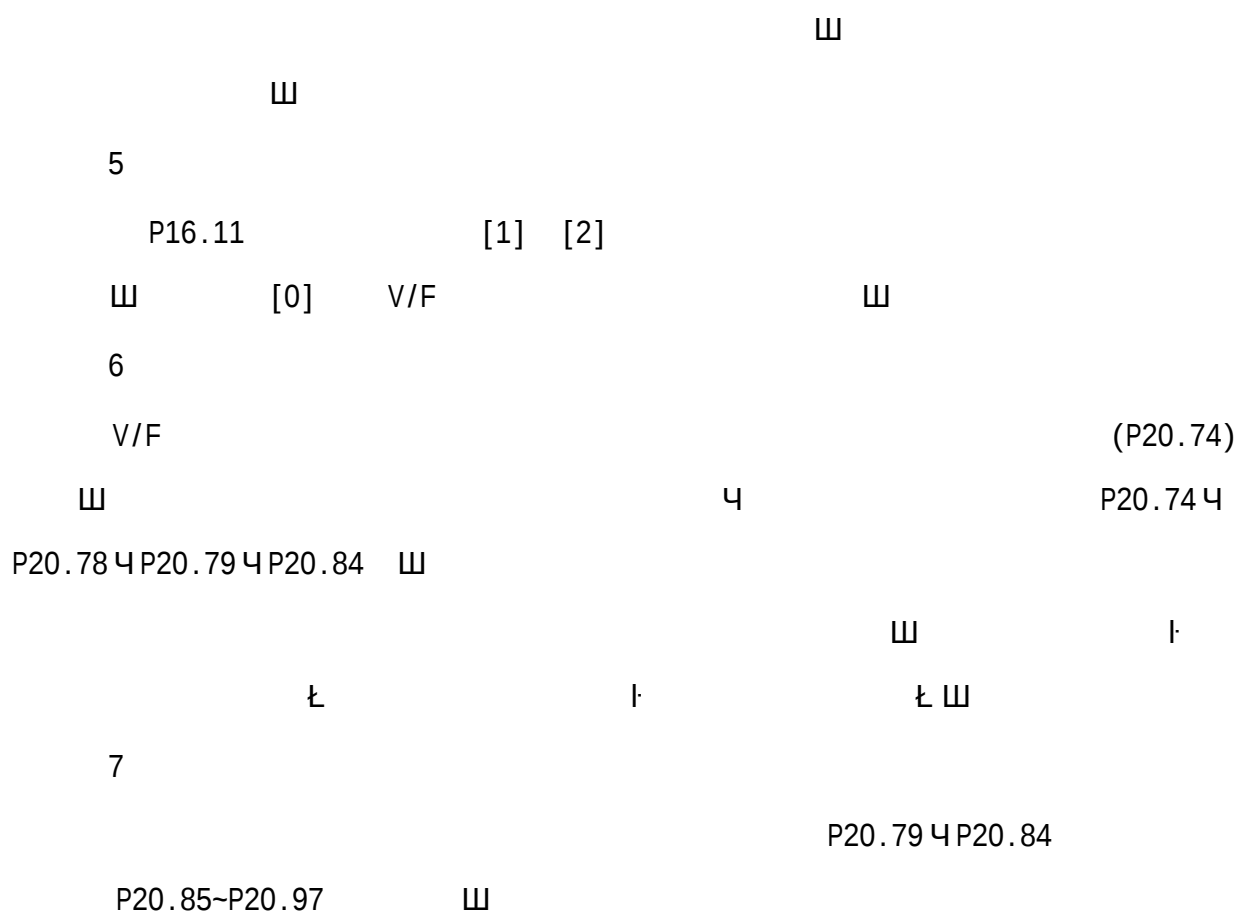
7.2.4

III

		[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]		
		[4]DP		

P16.0		380V
P16.2		
P16.3		
P16.4		
P16.5		
P16.6		
P16.7		(120 S P16.5 / P16.6)
P16.9		(120 S P16.5 / P16.7)
P16.11		[0]V/F [1] [2]

7.2.5



7.2.7



7.2.8



1

2

W

W

1

2

W

7.2.9

W

W

8.

8.1 P2

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

8.2 P3

P3. -3

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8.4

P5

P5.0	AI1	[0] [1]0 +10V [2]-10 +10V [3]0 20mA	0	3	1
P5.1	AI1	AI1 Ш Ш	0.0	1000.0	25.0
			[ms]		[ms]
P5.2	AI1	AI1	-10.00	10.00	0.000
			[V]		[V]
P5.3	AI1	AI1	-20.00	20.00	0.000
			[mA]		[mA]
P5.4	AI1	AI1	-10.00	10.00	0.000
			[V]		[V]
P5.5	AI1	AI1	0.00	20.00	0.000
			[mA]		[mA]
P5.6	AI1	AI1	-300.0	300.0	0.0
			[%]		[%]
P5.7	AI1	AI1	-10.00	10.00	10.000
			[V]		[V]
P5.8	AI1	AI1	0.00	20.00	20.000
			[mA]		[mA]
P5.9	AI1	AI1	-300.0	300.0	100.0
			[%]		[%]
P5.18	AI2	[0] [1]0 +10V [2]-10 +10V [3]0 20mA	0	3	3

A12

Ш

P5.19 A12

Ш

.19

8.5

P6

P6.0	A01	7-1	0 14	2	
P6.1	1		0 1000	0	
P6.2	A01	A01	-300.0 300.0 [%]	0.0 [%]	
P6.3	A01	A01	-300.0 300.0 [%]	100.0 [%]	
P6.4	A01 [mA V]	A01	0.0 100.0 [%]	0.0 [%]	
P6.5	A01 [mA V]	A01	0.0 100.0 [%]	100.0 [%]	
P6.6	A01	A01	-100.00 100.00 [%]	0.00 [%]	
P6.7	A01	A01 (P6.0 [13])	0.0 100.0 [%]	0.0 [%]	
P6.8	A01	A01 Ш Ш Ш	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
[13]

(P6.14
)

0.0



8.6

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 [Ñ]	87.5 [Ñ]
P7.15			50.0 100.0 [Ñ]	80.0 [Ñ]
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	1 M2	2	0.00 3.00 [s]	0.50 [s]	
P7.25	1 M3	3	0.00 3.00 [s]	0.50 [s]	
P7.26	1 M4	4	0.00 3.00 [s]	0.50 [s]	
P7.27	1	1	0.00 3.00 [s]	2.00 [s]	
P7.28	2	2	0.00 3.00 [s]	2.00 [s]	
P7.29	3	3	0.00 3.00 [s]	2.00 [s]	
P7.30	4	4	0.00 3.00 [s]	2.00 [s]	
P7.31			0.0 100.0 [%]	25.0 [%]	
P7.32			0.00 5.00 [s]	1 [s]	
P7.33			0.0 1000.0 [s]	360.0 [s]	
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]	
P7.55		[0] [1]	0 1	0	
P7.56			0.0 200.0 [%]	120.0 [%]	
P7.57			0.0 12.0 [s]	5 [s]	
P7.59		[0] [1]	0 1	1	

P7.60			0.10 3.00 [s]	0.30 [s]	
P7.64		[0] [1]	0 1	0	
P7.65			-25 100 [V]	0 [V]	
P7.66			-25 100 [V]	0 [V]	
P7.69		[0] [1]	0 1	0	
P7.70			-25 100 [V]	0 [V]	
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	
P7.95		AFE	0.0 3000.0 [s]	15.0 [s]	
P7.96			0.00 300.00 [s]	0.00 [s]	

8.7	1	P8
		[0]
		[1]
P8.0		[2]DP

P8.18

2

P8.15

8.8 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	
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 [%]	

P9.18	2	P9.15 P9.17	0.0 300.0 [s]	4.00 [s]	
P9.19	3		0.0 300.0 [%]	240.0 [%]	
P9.20	3	P9.17 P9.19	0.0 300.0 [s]	7.00 [s]	
P9.21	4		0.0 300.0 [%]	300.0 [%]	
P9.22	4	P9.19 P9.21	0.0 300.0 [s]	10.00 [s]	
P9.23	5		0.0 300.0 [%]	300.0 [%]	
P9.24	5	P9.21 P9.23	0.0 300.0 [s]	10.00 [s]	
P9.25	6		0.0 300.0 [%]	300.0 [%]	
P9.26	6	P9.23 P9.25	0.0 300.0 [s]	10.00 [s]	
P9.27	7		0.0 300.0 [%]	300.0 [%]	
P9.28	7	P9.25 P9.27	0.0 300.0 [s]	10.00 [s]	
P9.29	8		0.0 300.0 [%]	300.0 [%]	
P9.30	8	P9.27 P9.29	0.0 300.0 [s]	10.00 [s]	
P9.32		[0] [1]PROFIBUS [2]MODBUS [3]	0 3	0	
P9.33			0.1 10.0	1.0	
P9.34	1		0.0 300.0 [%]	100.0 [%]	
P9.35	1	P9.34	0.0 300.0 [s]	3.00 [s]	
P9.36	2		0.0 300.0 [%]	200.0 [%]	

P9.37	2	P9.34	P9.36	0.0	300.0	4.00
				[s]		[s]
P9.38	3			0.0	300.0	240.0
				[%]		[%]
P9.39	3	P9.36	P9.38	0.0	300.0	7.00
				[s]		[s]
P9.40	4			0.0	300.0	300.0
				[%]		[%]
P9.41	4	P9.38	P9.40	0.0	300.0	10.00
				[s]		[s]
P9.42	5			0.0	300.0	300.0
				[%]		[%]
P9.43	5	P9.40	P9.42	0.0	300.0	10.00
				[s]		[s]
P9.44	6			0.0	300.0	300.0
				[%]		[%]
P9.45	6	P9.42	P9.44	0.0	300.0	10.00
				[s]		[s]
P9.46	7			0.0	300.0	300.0
				[%]		[%]
P9.47	7	P9.44	P9.46	0.0	300.0	10.00
				[s]		[s]
P9.48	8			0.0	300.0	300.0
				[%]		[%]
P9.49	8	P9.46	P9.48	0.0	300.0	
				[s]		

8.9 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	
P10.6			0.00 300.00 [s]	0.00 [s]	
P10.7			0.00 300.00 [s]	0.00 [s]	
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	
P10.14			0.1 10.0	1.0	
P10.15	1		0.0 300.0 [%]	100.0 [%]	
P10.16	1	P10.15	0.0 300.0 [s]	3.00 [s]	
P10.17	2		0.0 300.0 [%]	200.0 [%]	

P10.18	2	P10.15	P10.17	0.0	300.0	4.00
				[s]		[s]
P10.19	3			0.0	300.0	240.0
				[%]		[%]
P10.20	3	P10.17	P10.19	0.0	300.0	7.00
				[s]		[s]
P10.21	4			0.0	300.0	300.0
				[%]		[%]
P10.22	4	P10.19	P10.21	0.0	300.0	10.00
				[s]		[s]
P10.23	5			0.0	300.0	300.0
				[%]		[%]
P10.24	5	P10.21	P10.23	0.0	300.0	10.00
				[s]		[s]
P10.25	6			0.0	300.0	300.0
				[%]		[%]
P10.26	6	P10.23	P10.25	0.0	300.0	10.00
				[s]		[s]
P10.27	7			0.0	300.0	300.0
				[%]		[%]
P10.28	7	P10.25	P10.27	0.0	300.0	10.00
				[s]		[s]
P10.29	8			0.0	300.0	300.0
				[%]		[%]
P10.30	8	P10.27	P10.29	0.0	300.0	10.00
				[s]		[s]
P10.32						

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

8.10 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	
P11.6			0.00 300.00 [s]	0.00 [s]	
P11.7			0.00 300.00 [s]	0.00 [s]	
P11.10		[0] I/O [1] 1 [2] 2 [3] [4]DP [5]MODBUS [6]	0 6	0	
P11.11					
P11.13		[0] [1]PROFIBUS [2]MODBUS [3]	0 3	0	
P11.14			0.1 10.0	1.0	
P11.15	1		0.0 300.0 [%]	100.0 [%]	
P11.16	1	P11.15	0.0 300.0 [s]	3.00 [s]	
P11.17	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]	

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]	
P12.37			0.00 2.00 [s]	0.50 [s]	

8.12 2 P13

P13.0		[0]	0	1	1
		[1]			
P13.1		[0] [%]	0	2	1
		[1] [Hz]			
		[2] [rpm]			
P13.2	1		0.0	3000.0	10.0
P13.3	2		0.0	3000.0	20.0
P13.4	3		0.0	3000.0	35.0
P13.5	4		0.0	3000.0	50.0
P13.6	5				

8.13

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

8.14 4

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]	

8.15 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			0 6000 [rpm]	1465 [rpm]	
P16.7			2 12 [pole]	4 [pole]	
P16.9			0 7200 [rpm]	1500 [rpm]	
P16.11		[0]V/F [1] [2] [3] [4]	0 4	0	
P16.12			1.00 10.00 [kHz]	3.00 [kHz]	
P16.14	V/F	[0] V/F [1] V/F [2]	0 3	0	
P16.15		[0] [1]	0 1	0	
P16.16			2 500 [ms]	500 [ms]	
P16.17	V/F	[0] [1]	0 1	0	
P16.18			10 1000 [ms]	200 [ms]	
P16.19		[0] [1]	0 1	0	

[illegible]

P16.48

8.16 2 V/F P17

P17.0			320 460	380
			[V]	[V]
P17.2			0.0 4000.0	
			[kW]	[kW]
P17.3			320 460	380
			[V]	[V]
P17.4			0.0 6500.0	
			[A]	[A]
P17.5			0.0 300.0	50.0
			[Hz]	[Hz]
P17.6			0 6000	1465
			[rpm]	[rpm]
P17.7			2 12	4
			[pole]	[pole]
P17.9			0 7200	1500
			[rpm]	[rpm]
		[0]V/F		
		[1]		
P17.11		[2]	0 4	0
		[3]		
		[4]		
P17.12			1.00 10.00	3.00
			[kHz]	
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			0.0 100.0	0.0
			[%]	[%]
P17.33	V/F	V/F	0 6	2
P17.34	V/F	1	0.0 300.0	5.0
			[Hz]	[Hz]
P17.35	V/F	1	0.0 125.0	11.5
			[%]	[%]
P17.36	V/F	2	0.0 300.0	50.0
			[Hz]	[Hz]
P17.37	V/F	2	0.0 125.0	100.0
			[%]	[%]
P17.38	V/F	3	0.0 300.0	50.0
			[Hz]	[Hz]
P17.39	V/F	3	0.0 125.0	100.0
			[%]	[%]
P17.40	V/F	4	0.0 300.0	50.0
			[Hz]	[Hz]
P17.41	V/F	4	0.0 125.0	100.0
			[%]	[%]
P17.42	V/F	5	0.0 300.0	50.0
			[Hz]	[Hz]
P17.43	V/F	5	0.0 125.0	100.0
			[%]	[%]
P17.44	V/F	6	0.0 300.0	50.0
			[Hz]	[Hz]
P17.45	V/F	6	0.0 125.0	100.0
			[%]	[%]
P17.46	V/F	@	0 300	0
P17.47		@	0	

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 [%]	

8.17 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]	
P18.6			0 6000 [rpm]	1465 [rpm]	
P18.7			2 12 [pole]	4 [pole]	
P18.9			0 7200 [rpm]	1500 [rpm]	
P18.11		[0]V/F [1] [2] [3] [4]	0 4	0	
P18.12			1.00 10.00 [kHz]	3.00 [kHz]	
P18.14	V/F	[0] V/F [1] V/F [2]	0 3	0	
P18.15		[0] [1]	0 1	0	
P18.16			2 500 [ms]	500 [ms]	
P18.17	V/F	[0] [1]	0 1	0	
P18.18			10 1000 [ms]	200 [ms]	
P18.19		[0] [1]	0 1	0	

P18.22			0.00 100.00 [s]	0.00 [s]	
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 [%]	
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 [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]	
P18.51			0.0 150.0 [%]	70.0 [%]	
P18.52			0.00 5.00 [Hz]	0.00 [Hz]	
P18.54			0.00 300.00 [s]	0.00 [s]	
P18.55			0.0 150.0 [%]	75.0 [%]	
P18.56			0.00 5.00 [Hz]	0.00 [Hz]	
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 [%]	
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 [%]	

8.18 4 V/F P19

P19.0			320 460	380
			[V]	[V]
P19.2			0.0 4000.0	
			[kW]	[kW]
P19.3			320 460	380
			[V]	[V]
P19.4			0.0 6500.0	
			[A]	[A]
P19.5			0.0 300.0	50.0
			[Hz]	[Hz]
P19.6			0 6000	1465
			[rpm]	[rpm]
P19.7			2 12	4
			[pole]	[pole]
P19.9			0 7200	1500
			[rpm]	[rpm]
		[0]V/F		
		[1]		
P19.11		[2]	0 4	0
		[3]		
		[4]		
P19.12			1.00 10.00	3.00
			[kHz]	[kHz]
		[0] V/F		
P19.14 V/F		[1] V/F	0 3	0
		[2]		
P19.15		[0]	0 1	0
		[1]		
P19.16			2 500	500
			[ms]	[ms]
		[0]		
P19.17 V/F		[1]		

P19.22

0.00 100.00
[s]

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 [%]	

8.19

P2

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

P20.3

-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

[%] [%]

[0]

[1]

P20.8

P20.9

[2] 1

P20.7

[3] 2

0 7 0

[4]

[5]DP

[6]MODBUS

[7]

P20.8

P20.7 [1]

0.0 300.0 200.0

[%] [%]

P20.9

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			0.0 300.0 [%]	0.0 [%]	
P20.20		[0] [1]	0 1	0	
P20.21		[0] [1]	0 1	0	
P20.22			0.0 300.0 [%]	160.0 [%]	
P20.23			0.0 200.0 [%]	20.0 [%]	
P20.24			0.0 300.0 [%]	100.0 [%]	
P20.25			0.0 200.0 [%]	100.0 [%]	
P20.26			0.0 1000.0 [%]	0.0 [%]	
P20.27			0.00 15.00 [%]	2.00 [%]	
P20.28		[0] P20.16 P20.17 [1] [2] [3]DP	0 3	0	
P20.30		[0] P20.32 [1] 1 [2] 2 [3]	P20.31 0 3	0	

P20.31

0.0 100.0 5.0
[%] [%]

P20.32

0.0 100.0 5.0
[%] [%]

P20.53

Kp

0.0 1000.0
[%]

P20.77	2	2	90.0	110.0	100.0
			[%]		[%]
P20.78			0.00	650.00	0.00
			[mOhm]		[mOhm]
P20.79			0.00	65.50	0.000
			[mH]		[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	0.00
			[mH]		[mH]
P20.85	85%	85%	40.0	150.0	108.0
			[%]		[%]
P20.86	87.5%	87.5%	40.0	150.0	106.5
			[%]		[%]
P20.87	90%	90%	40.0	150.0	105.0
			[%]		[%]
P20.88	92.5%	92.5%	40.0	150.0	103.5
			[%]		[%]
P20.89	95%	95%	40.0	150.0	102.0
			[%]		[%]
P20.90	102.5%	102.5%	40.0	150.0	99.0
			[%]		[%]
P20.91	105%	105%	40.0	150.0	96.5
			[%]		[%]
P20.92	110%	110%	40.0	150.0	93.0
			[%]		[%]
P20.93	115%	115%	40.0	150.0	88.5
			[%]		[%]
P20.94	120%	120%	40.0	150.0	83.0
			[%]		[%]
P20.95	125%	125%	40.0	150.0	77.0
			[%]		[%]
P20.96	130%	130%	40.0	150.0	70.5
			[%]		[%]
P20.97	135%	135%	40.0	150.0	63.5
			[%]		[%]
P20.98		()	0.01	300.00	0.75
			[s]		[s]

8.20 2 P21

P21.0		[0] [1]	0 1	0	
P21.1		[0] [1] 1 [2] 2 [3] [4] P21.3 [5]DP [6]MODBUS [7]	0 7	0	
P21.2			0 7	0	
P21.3			-300.0 300.0 [%]	0.0 [%]	
P21.4	@		0 300	0	
P21.5			0 1000 [ms]	0 [ms]	
P21.6			0.0 200.0 [%]	100.0 [%]	
P21.7		[0] [1] P21.8 P21.9 [2] 1 [3] 2 [4] [5]DP [6]MODBUS [7]	0 7	0	
P21.8		P21.7 [1]	0.0 300.0 [%]	200.0 [%]	
P21.9		P21.7 [1]	0.0 300.0 [%]	200.0 [%]	
P21.10			0 300	0	
P21.11			0 1000 [ms]	0 [ms]	
P21.13			20.0 500.0 [ms]	100.0 [ms]	

P21.54	Ki			0.0	1000.0	100.0
				[%]		[%]
P21.55				0.0	1000.0	100.0
				[%]		[%]
P21.56				0.0	1000.0	100.0
				[%]		[%]
P21.57		[0]		0	1	0
		[1]				
P21.58				0.0	125.0	100.0
				[%]		[%]
P21.59				1.0	25.0	2.5
				[%]		[%]
P21.60	DR00P	0	DR00P	0.0	100.0	0.0
				[%]		[%]
P21.61	DR00P	DR00P	III	30	2000	50
				[ms]		[ms]
P21.62				0.0	1000.0	100.0
				[%]		[%]
P21.63				0.0	1000.0	100.0
				[%]		[%]
P21.66		1	1	0.0	1000.0	100.0
				[%]		[%]
P21.67						

P21.78			0.00	650.00	0.00
			[mOhm]		[mOhm]
P21.79			0.00	65.50	0.000
			[mH]		[mH]
P21.80	1	1	0.800	1.350	1.140
P21.81	2	2	0.800		

8.21 3 P22

P22.0	[0]		0	1	0
	[1]				
	[0]				
	[1]	1			
	[2]	2			
P22.1	[3]		0	7	0
	[4]	P22.3			
	[5]DP				
	[6]MODBUS				
	[7]				
P22.2			0	7	0
P22.3					

P22.31			0.0 100.0 [%]	5.0 [%]	
P22.32			0.0 100.0 [%]	5.0 [%]	
P22.34		[0] [1]	0 1	0	
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] [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
[%]

P22.77	2	2	90.0	110.0	100.0
			[%]		[%]
P22.78			0.00	650.00	0.00
			[mOhm]		[mOhm]
P22.79			0.00	65.50	0.000
			[mH]		[mH]
P22.80	1	1	0.800	1.350	1.140
P22.81	2	2	0.800	1.350	0.940
P22.82	3	3	0.800	1.350	1.000
P22.83	4	4	0.800		

8.22

4

P23

P23.0	[0]		0	1	0
	[1]				
	[0]				
	[1]	1			
	[2]	2			
P23.1	[3]		0	7	0
	[4]	P23.3			
	[5]DP				
	[6]MODBUS				
	[7]				
P23.2			0	7	0
P23.3			-300.0	300.0	0.0
			[%]		[%]
P23.4	@		0	300	0
P23.5					

P23.54	Ki			0.0	1000.0	100.0
				[%]		[%]
P23.55				0.0	1000.0	100.0
				[%]		[%]
P23.56				0.0	1000.0	100.0
				[%]		[%]
P23.57		[0]		0	1	0
		[1]				
P23.58				0.0	125.0	100.0
				[%]		[%]
P23.59				1.0	25.0	2.5
				[%]		[%]
P23.60	DR00P	0	DR00P	0.0	100.0	0.0
				[%]		[%]
P23.61	DR00P	DR00P	III	30	2000	50
				[ms]		[ms]
P23.62				0.0	1000.0	100.0
				[%]		[%]

P23.78

		[0] § 1		
		[1] § 10		
P33.18	[W2]	[2] § 100	0 4	0
		[3] § 1000		
		[4] § 10000		
P33.19	[W3]	7-2	0 37	0
		[0] § 1		
		[1] § 10		
P33.20	[W3]	[2] § 100	0 4	0
		[3] § 1000		
		[4] § 10000		
P33.21	[W4]	7-2	0 37	1
	[W4]	00	3	
		[0] § 1		
		[1] § 10		
P33.22	[W4]	[2] § 100	0 4	0
		[3] § 1000		
		[4] § 10000		
P33.23	[W5]	7-2	0 37	18
		[0] § 1		
		[1] § 10		
P33.24	[W5]	[2] § 100	0 4	2
		[3] § 1000		
		[4] § 10000		
P33.25	[W6]	7-2	0 37	21
		[0] § 1		
		[1] § 10		
P33.26	[W6]	[2] § 100	0 4	1
		[3] § 1000		
		[4] § 10000		
P33.27	[W7]	7-2	0 37	22

0

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	

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

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

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	

9.

9.1

W01

SYS_NOT_RDY

9.2

[E050]	U	ERR_UT not reset	IGBT		
			IGBT		
[E051]	U	ERR_UT not reset	IGBT		
			IGBT		
[E052]	V	ERR_UT not reset	IGBT		
			IGBT		
[E053]	V	ERR_UT not reset	IGBT		
			IGBT		
[E054]	W	ERR_UT not reset	IGBT		
			IGBT		
[E055]	W	ERR_UT not reset	IGBT		
			IGBT		
[E056]		ERR_SLAVE_FAULT not reset			
[E100]	OV		P8.35(	1)	
			P7.12(	)	
[E105]	UV		P7.13(		
[E110]	OC		P7.4(	[	1])
				P7.4(	)

[E113]	MIP		
[E114]	MOP		
			P7.19
[E115]	OS	P7.19	
[E116]	SLVC Fail	P7.23	
[E117]	MOTOR STALL		P20.14 4 P20.15
[E118]	PG ERROR		P20.14 4 P20.15
			P20.14 4 P20.15
[E119]	SPEED ABNORMAL	P7.31 P7.32	
[E121]	IGBT1 m "		

[E138] TEMP_SENSING FAIL

[E139] Pre_charging Fail

P7.95

[E140] Line UV

4

[E141] Line OPEN

[E142] Line Detection Error

DI

[E143] Line SW Fail

[E144] Line SW SHORT

(AFE)

[E145] Line OV

P16.0

(AFE)

[E146] Line Over_Freq

[E151] U IGBT IGBT
PDP [UT] IGBT

[E152] U IGBT IGBT
PDP [UB] IGBT

[E153] V IGBT IGBT
PDP [VT] IGBT

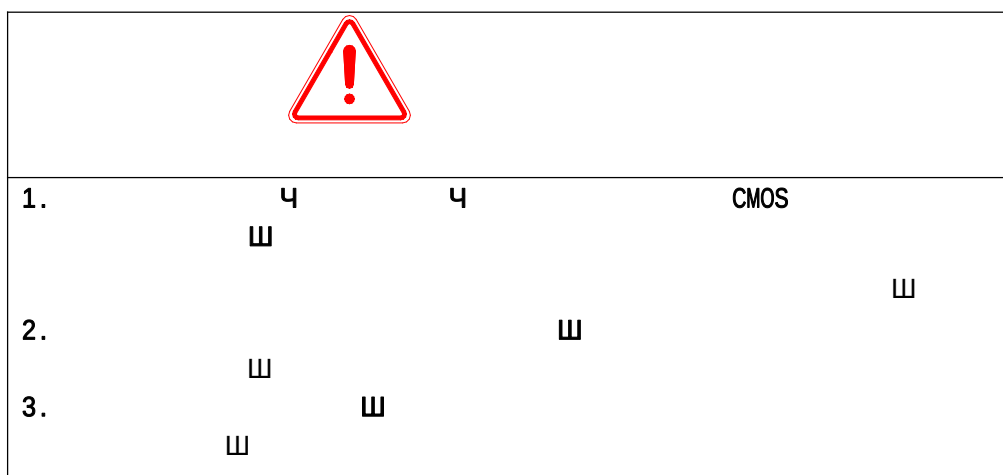
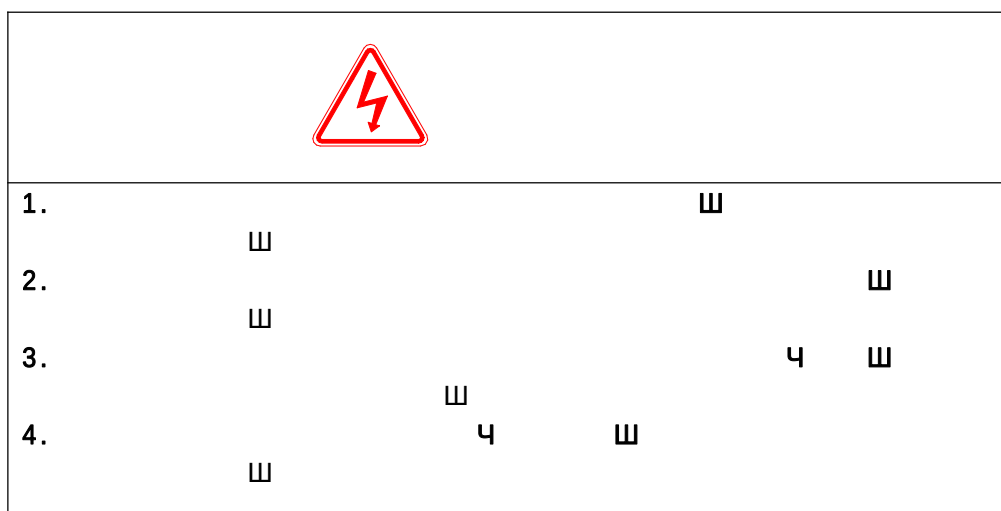
[E154] V IGBT IGBT
PDP [VB] IGBT

[E155] W IGBT IGBT
PDP [WT] IGBT

[E156] W IGBT IGBT
PDP [WB] IGBT

[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]	5 SLV5_CAN_ERR	5	
[E170]	MOTOR TUNING FAIL	P7.33	
[E180]	DP P/B ERROR		
[E181]	DP P/B_EM	CW0.4	
[E200]	LOCAL_EM	P3 Δ0	[]
[E201]	REMOTE_EM	P3	[]
[E202]	Modbus MODBUS EMERGENCY	Modbus	
[E203]	DRIVE DISABLED	DP	

10.



10.1



10.2

	1. 4 2. 4	1. > 40 Ñ < 95% 2. 4
	1. 2.	1. 2.
	1. 4 2. 4 3. 4	1. 4 2. 4 3.
	1. 4 2.	1. 4 2. 4
4	1. 2.	1. 2.

10.3

	4	
	4	
	4	
		1
	2	2
PCB	4	

10.4



5



5



(400-0077-570) 



1

40 Ñ

2

80%

3

24 / 

10.5

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