

HF 680N- 6

V1.00

Wuhan Gui de Technology Co., Ltd.



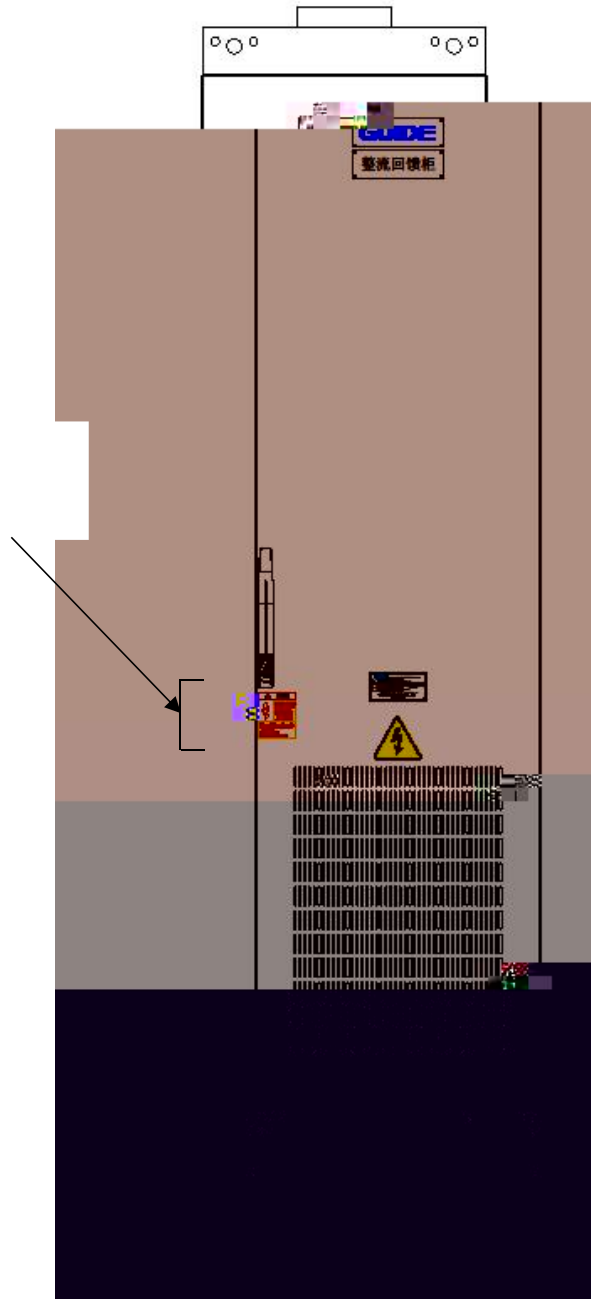
HF680N

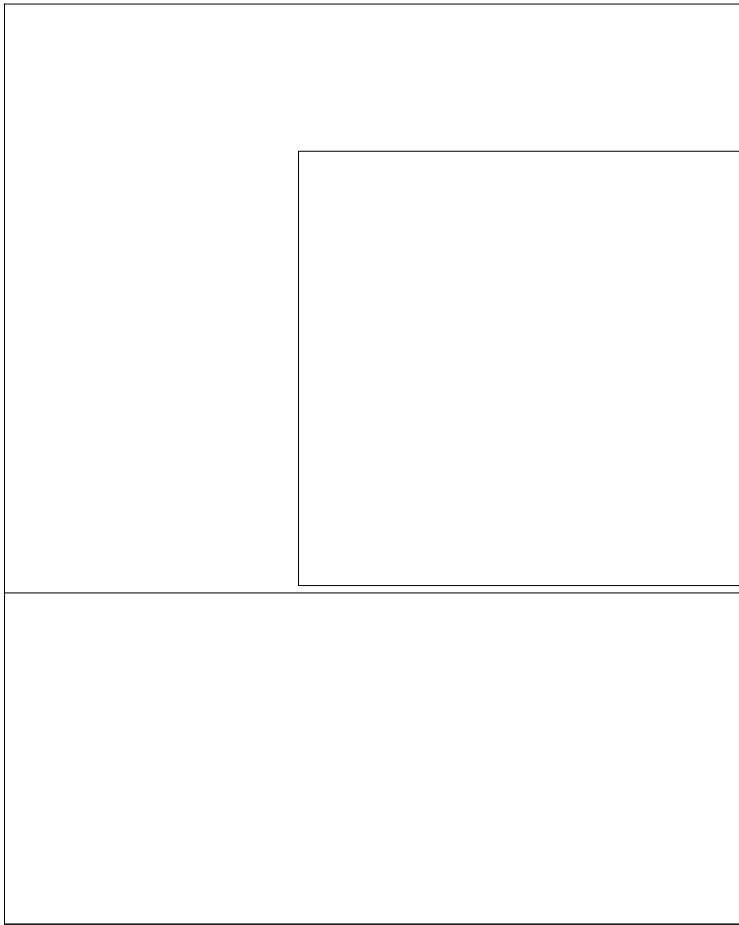
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1.1		

7.2	91
7.3	91
7.4	92
8	98
8.1	98
9	117
9.1	117
9.2	118
10		

1

HF680N02C- 630- 6





1. 2

(1)

(2)

(3)

1. 3

2 2

1

AFE

V/F

2

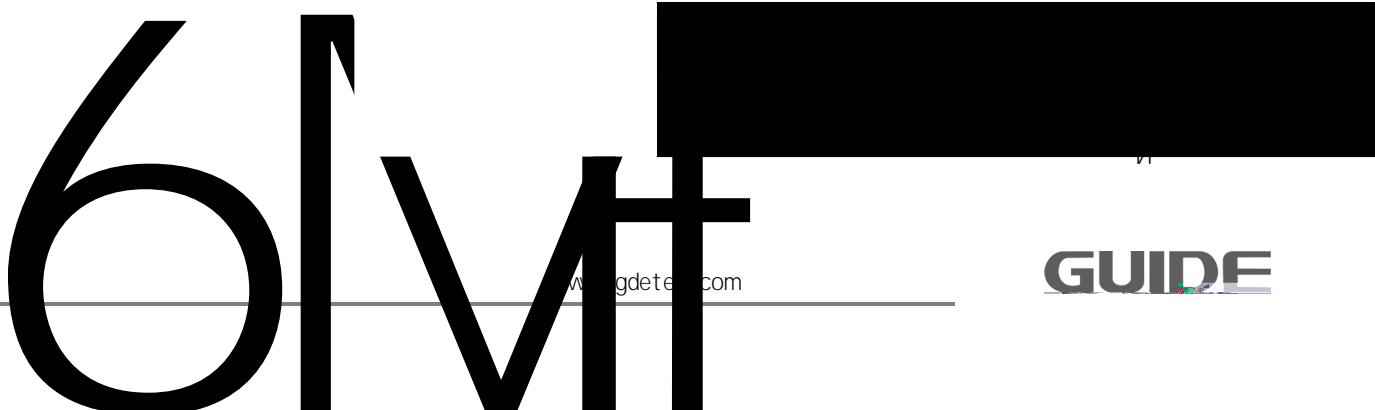
		PI D
		/
		/
		/
		/

2 3

DP	GDHF - ADPX1	GDHF - ADPX1 DP HF 680N02M	Profibus HF 680N03M
PG	GDHF - APGX1	GDHF - APGX1 PG HF 680N03M DHF	"



	GDHF680N4MFB3	HF680N	
GDHF680N4MFB3		1200kW	2





2.4.2

●

●

-15 +40

+40 +50

1

2%

50

●

95%RH

●

●

●

●

●

●

1000

1000

100

1%

3000

2.4.3



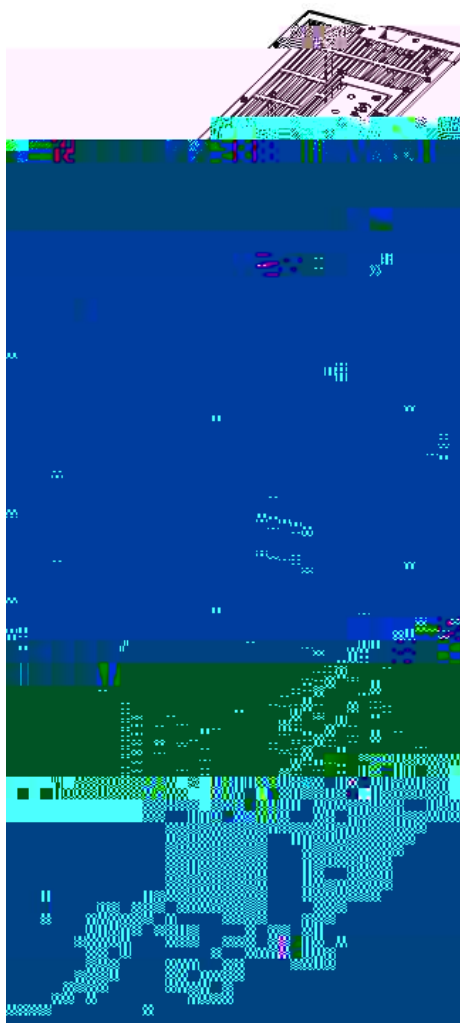
A 200mm

B 50mm

50mm

2.4.4

1	1
2	2





LCL

3.


3.1

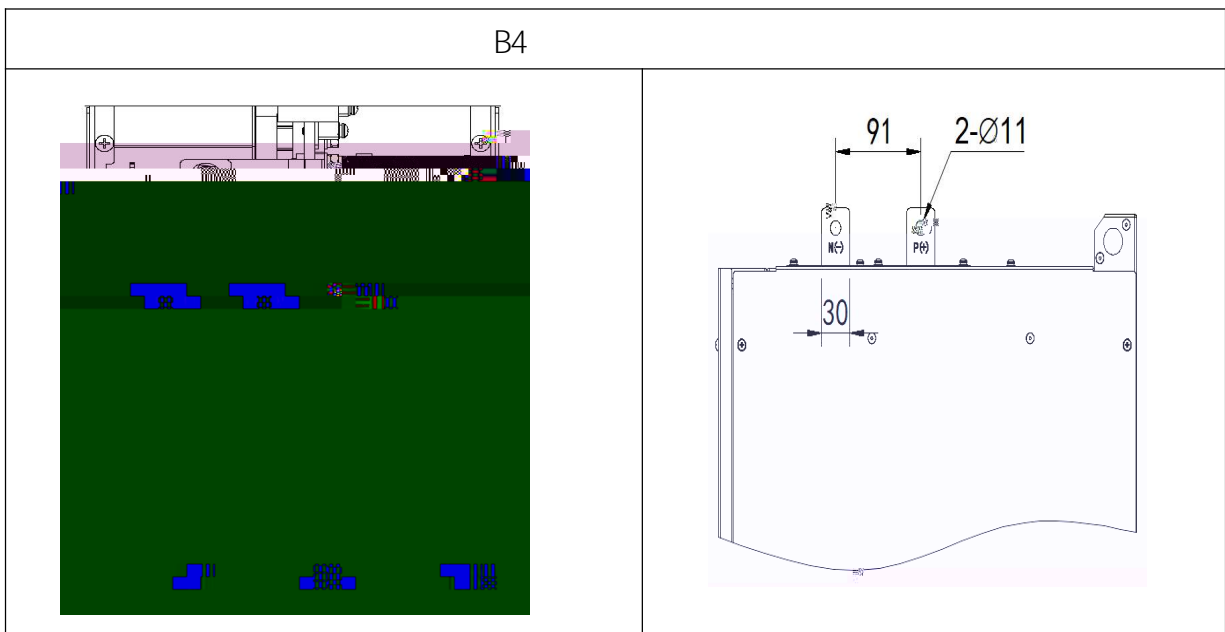
LCL

LCL

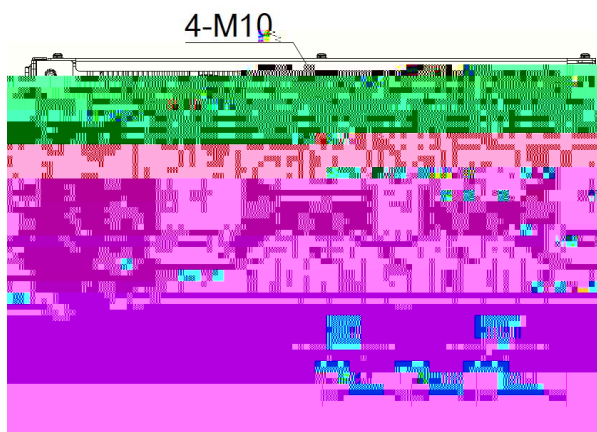
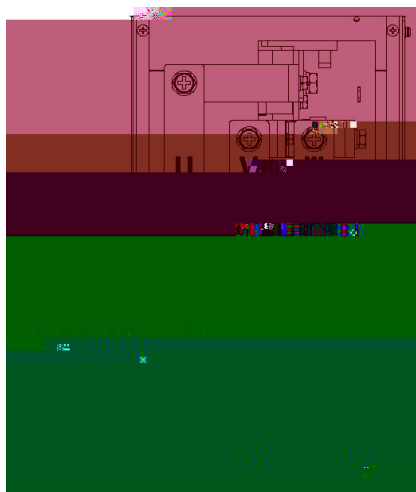
3.2

1

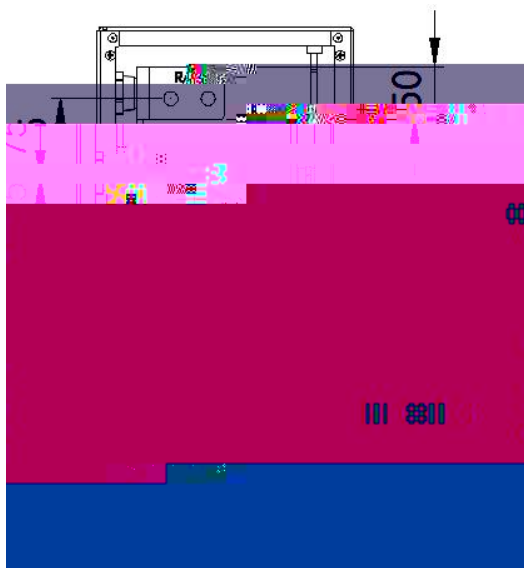
P +	
N -	
R/U S/V T/W	
	




B5



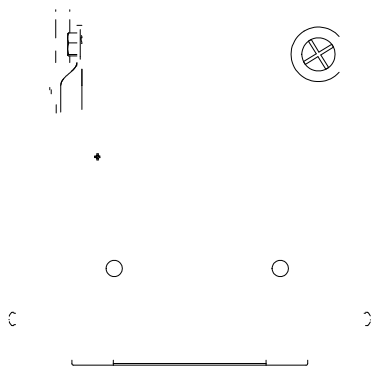
B7



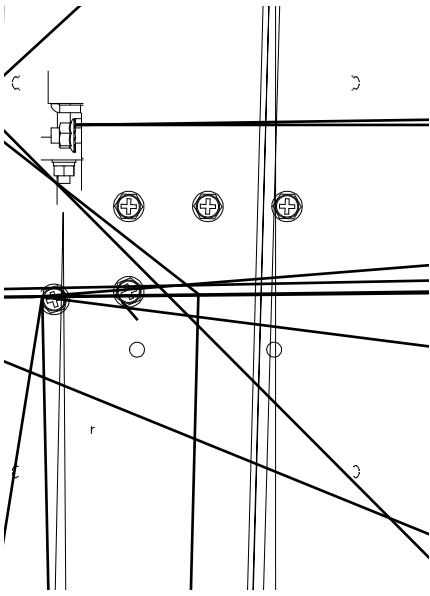
2 LCL
B4 B5 LCL

R S T	LCL
	LCL

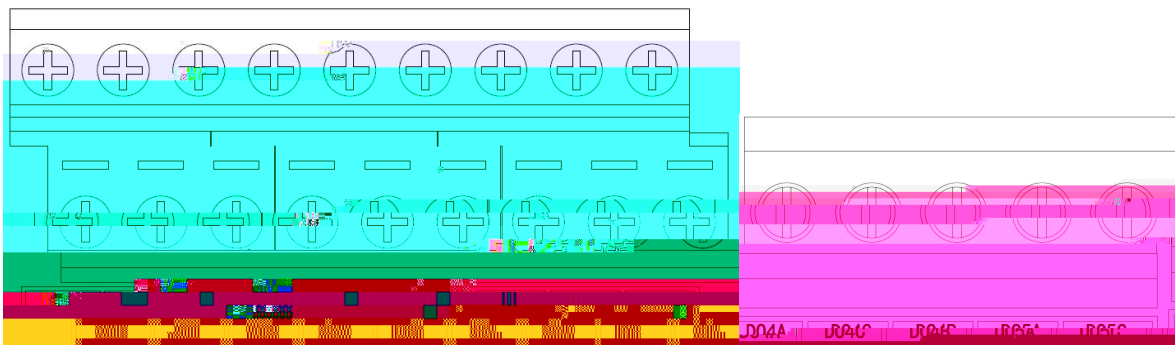
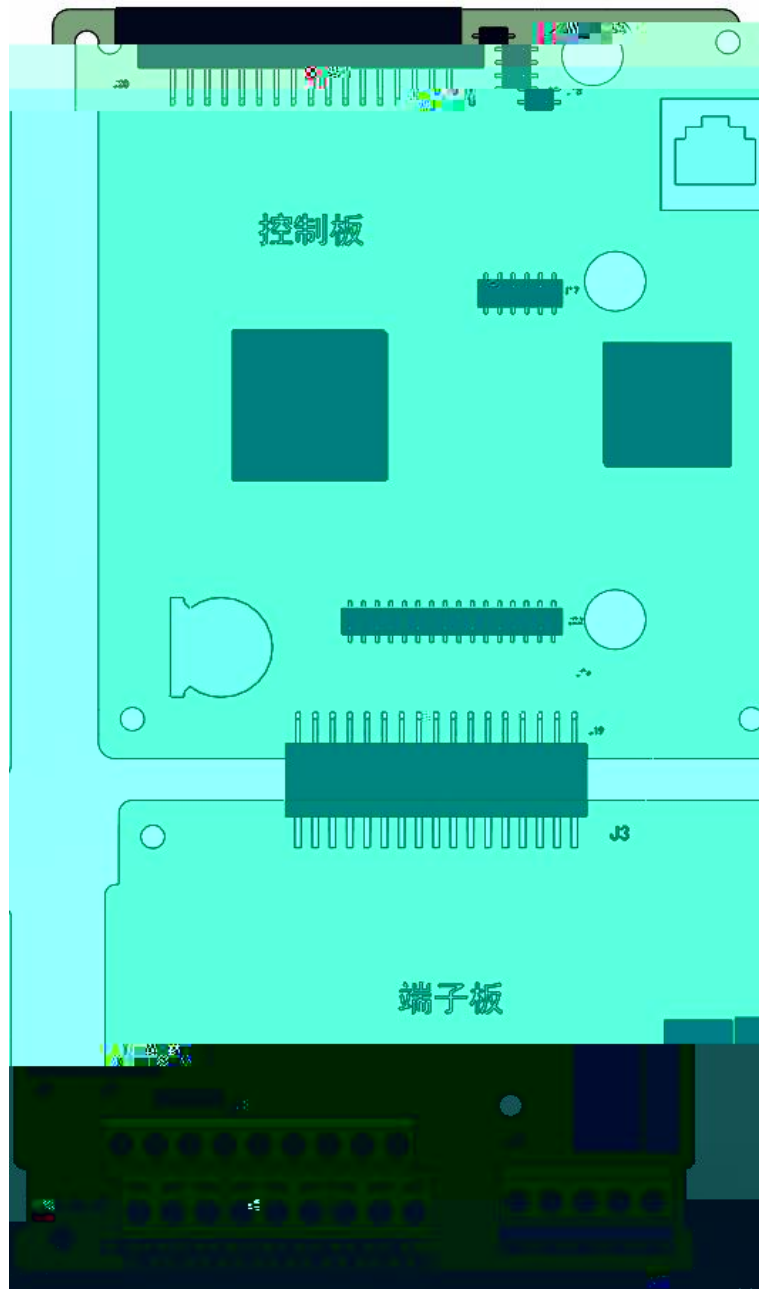
B4 LCL



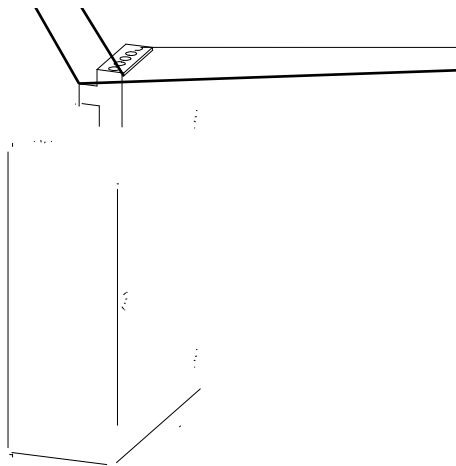
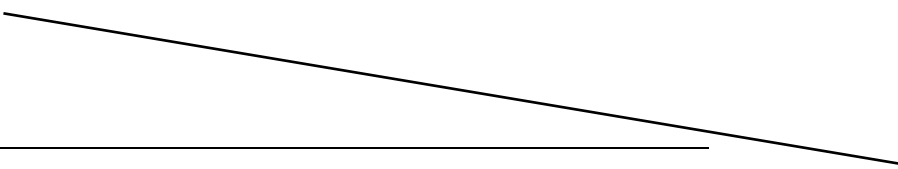
B5 LCL



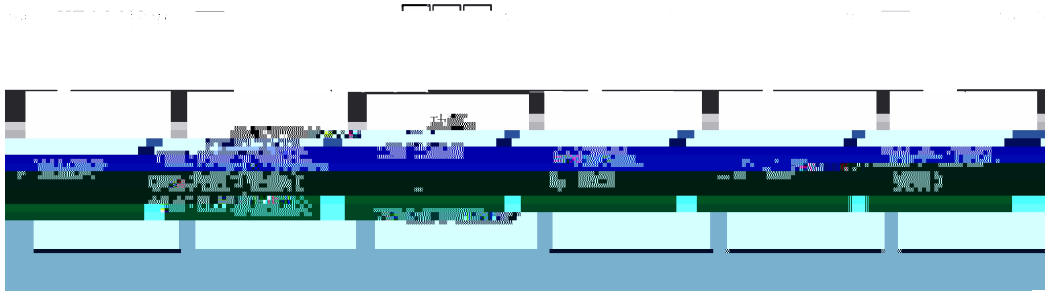




+10V- GND	10V		+10V	50mA
				1k ~5k
+24V- COM	24V		+24V	200mA
PW			24V	
			DI 1-DI 5 DO1	PW
			24V	
AI 1- GND		1	DC -10V~10V	100k
			-10VDC~10VDC/0mA~20mA	
AI 2- GND		2 J1		
			100k	500
DI 1- PW	1			
DI 2- PW	2			3. 3k
DI 3- PW	3		9V~30V DI 1- DI 4	
DI 4- PW	4	500Hz	DI 5	20KHz
DI 5- PW	5			
AO1- GND		1	J2	
			0V~10V	
			0mA~20mA	
AO2- GND		2	J8	
			0V~10V	
			0mA~20mA	
DO1- COM		1	0V~24V	
			0mA~50mA	



3.3



A	
B	02M 02C 02F LCL
C	132 132kW 2400 2400kW
D	6 690V
E	TL 12
F	

M01	M0bus RTU	DP01	Profi bus DP
P01	Profi net	CAN01	CANopen

Z1/	100mm
Z2	200mm
Z3	250mm
Z4	300mm

HF680N02C- 400- 6

HF680N02C- 400- 6+Z1

400kW

100mm

1050V

690V	I ac [A]					
		I dc [A]	Pdc [kW]	I dc [A]	Pdc [kW]	
HF 680N02M 132- 6	115	152	160	126	132	B4
HF 680N02M 160- 6	139	238	250	152	160	
HF 680N02M 250- 6	218	300	315	238	250	B5
HF 680N02M 315- 6	274	381	400	300	315	B7
HF 680N02M 400- 6	349	476	500	381	400	
HF 680N02M 500- 6	436	533	560	476	500	
HF 680N02M 560- 6	488	600	630	533	560	
HF 680N02M 630- 6	549	676	710	600	630	
HF 680N02C- 315- 6	274	381	400	300	315	B7
HF 680N02C- 400- 6	349	476	500	381	400	
HF 680N02C- 560- 6	488	600	630	533	560	
HF 680N02C- 630- 6	549	676	710	600	630	
HF 680N02C- 800- 6	697	1143	1200	762	800	2*B7
HF 680N02C- 1200- 6 HF 680N02C- 1200- 6- TL	1046	1714	1800	1143	1200	
HF 680N02C- 1800- 6	1568	1905	2000	1714	1800	3*B7
HF 680N02C- 2000- 6	1743	2286	2400	1905	2000	4*B7
HF 680N02C- 2400- 6 HF 680N02C- 2400- 6- TL	2091	2857	3000	2286	2400	
HF 680N02C- 3000- 6	2614	3429	3600	2857	3000	5*B7
HF 680N02C- 3600- 6 HF 680N02C- 3600- 6- TL	3137	3619	3800	3429	3600	6*B7

1 HF 680N02M

2 HF 680N02M

3 HF 680N02M B7

4 B7

8uH

3. 4

3. 4. 1 LCL

	LCL
HF 680N02M 160- 6	GDHF 680N02F - 160- 6
HF 680N02M 250- 6	GDHF 680N02F - 250- 6
HF 680N02M 315- 6	GDHF 680N02F - 400- 6
HF 680N02M 400- 6	GDHF 680N02F - 400- 6
HF 680N02M 500- 6	GDHF 680N02F - 630- 6
HF 680N02M 560- 6	GDHF 680N02F - 630- 6
HF 680N02M 630- 6	GDHF 680N02F - 630- 6

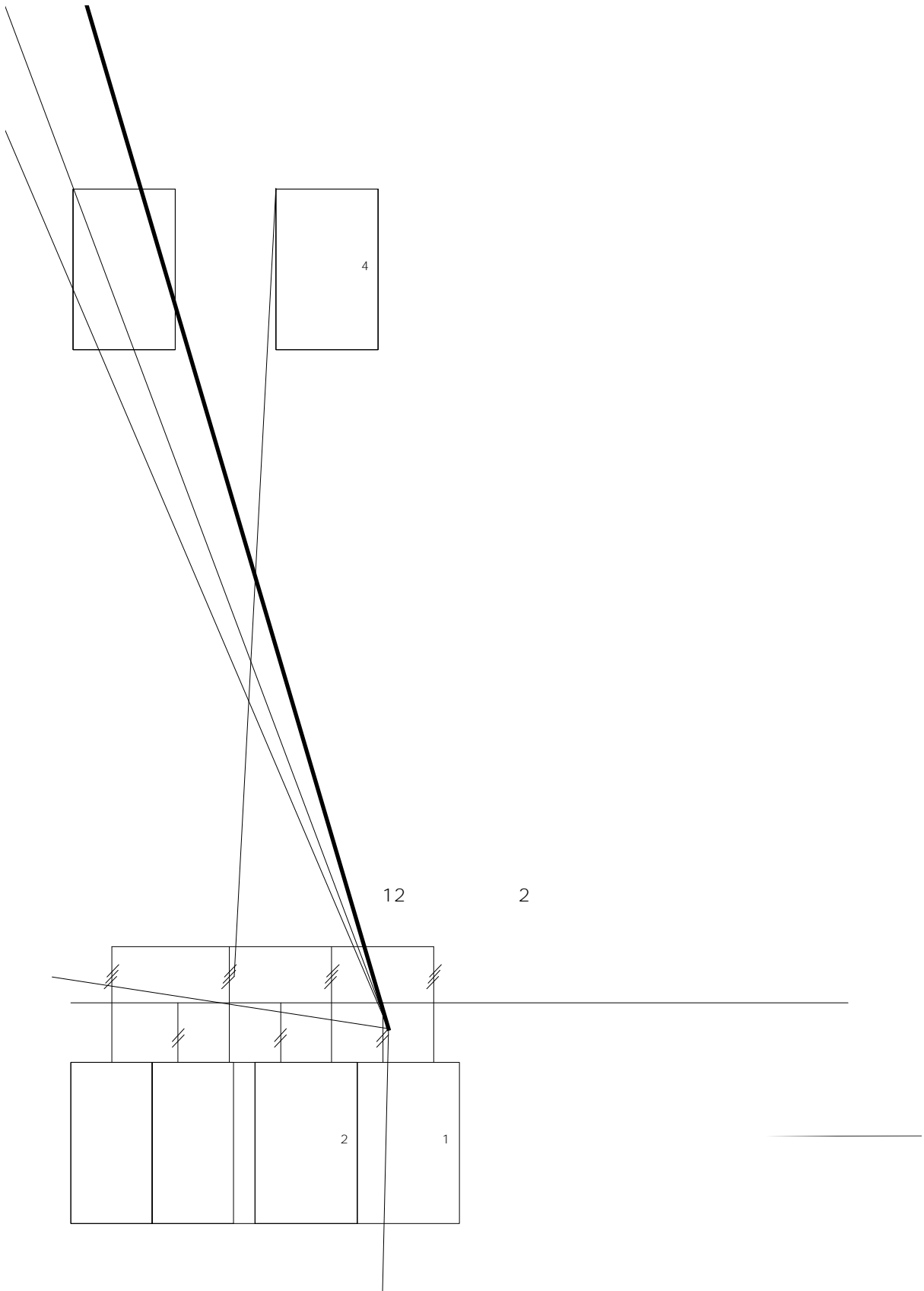
1. 630kW LCL

3. 4. 2

630- 2000KW	3× 5R/400W	100A/1800V	63A	38A
2500- 6300KW	3× 2. 5R/800W	100A/1800V	63A	38A

3.5

HF680N02M6



		mm ²	mm ²	A	A
HF680N02M 132- 6	115	25	35	160	160
HF680N02M 160- 6	139	35	50	200	200
HF680N02M 250- 6	218	70	95	315	315
HF680N02M 315- 6	274	95	120	350	400
HF680N02M 400- 6	349	2× 50 150	2× 70 185	500	500
HF680N02M 500- 6	436	2× 70 240	2× 95 240	630	630
HF680N02M 560- 6	488	2× 95 240	2× 95 300	630	700
HF680N02M 630- 6	549	2× 95 300	2× 120	700	800

6	HF680N15C- 630- 6	HF680N02C- 400- 6	1
6	HF680N15C- 630- 6	HF680N02C- 560- 6	1
6	HF680N15C- 630- 6	HF680N02C- 630- 6	1
6	HF680N15C- 800- 6	HF680N02C- 800- 6	1
6	HF680N15C- 1600- 6	HF680N02C- 1200- 6	1
6	HF680N15C- 2000- 6	HF680N02C- 1800- 6	1
6	HF680N15C- 2000- 6	HF680N02C- 2000- 6	1
6	HF680N15C- 2500- 6	HF680N02C- 2400- 6	1
6	HF680N15C- 3200- 6	HF680N02C- 3000- 6	1

6	HF680N15C- 4000- 6	HF680N02C- 3600- 6	1
12	HF680N15C- 1600- 6- TL	HF680N02C- 1200- 6- TL	1
12	HF680N15C- 2500- 6- TL	HF680N02C- 2400- 6- TL	1
12	HF680N15C- 4000- 6- TL	HF680N02C- 3600- 6- TL	1

3.6

660V 690V

50 / 60Hz

-15% +10%

<AC530V 15ms

AFE

0.999

3%

150% 5 1

12 *

3.7

+ LCL		(kW)
HF680N02M 160-6 + GDHF680N02F-160-6	B4	4.6
HF680N02M 250-6 + GDHF680N02F-250-6	B5	7.3
HF680N02M 315-6 + GDHF680N02F-400-6	B7	8.8
HF680N02M 400-6 + GDHF680N02F-400-6		11.2
HF680N02M 500-6 + GDHF680N02F-630-6		14.0
HF680N02M 560-6 + GDHF680N02F-630-6		15.7
HF680N02M 630-6 + GDHF680N02F-630-6		17.6

3.8

- (1) IGBT
- (2) 50%
- (3) 0.999
- (4) 3% GB/T 24337-2009
- (5) 660V 690V -15% +10%
- (6) DP PN
- (7)
- (8) 132kW 4000kW

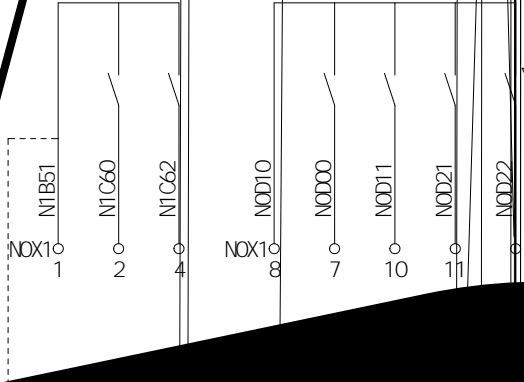
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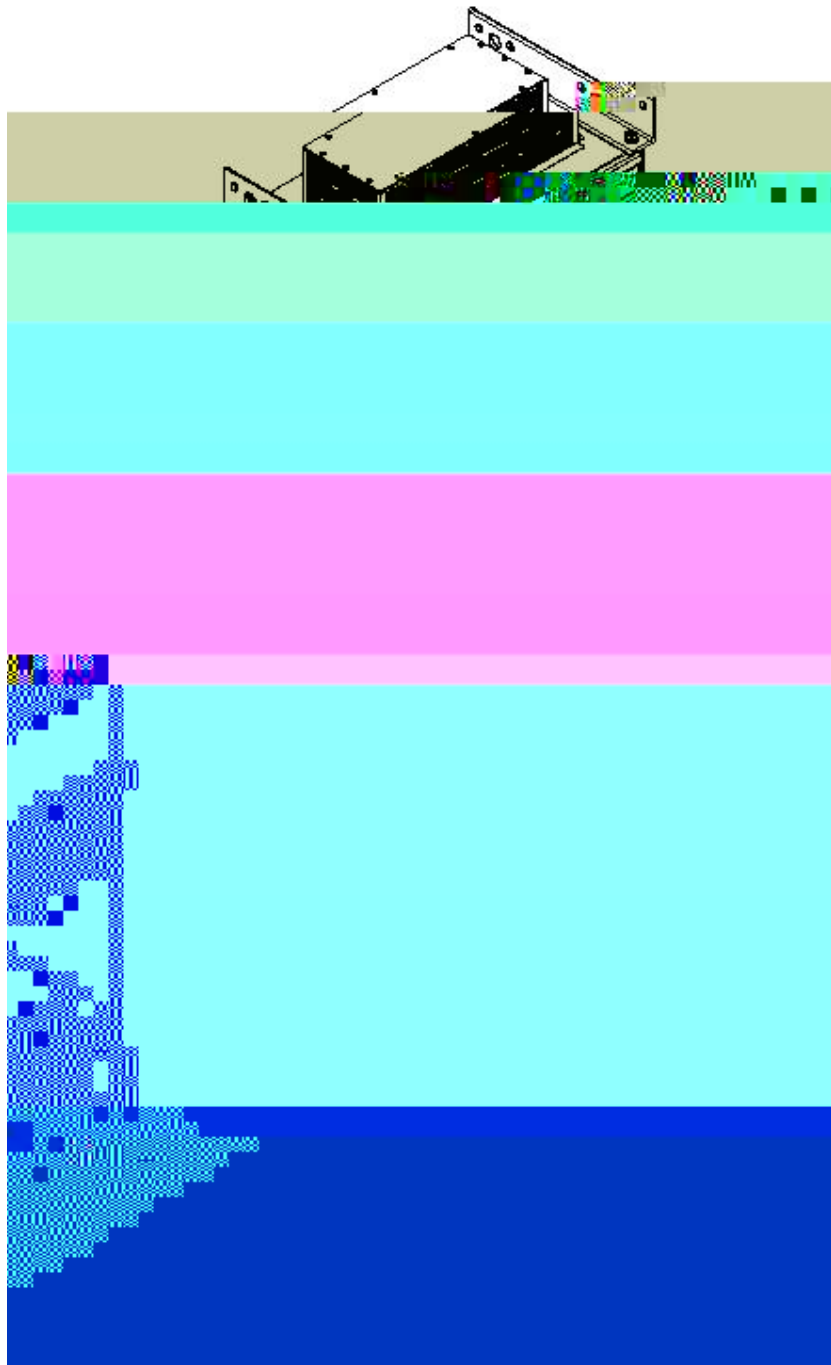
6

1

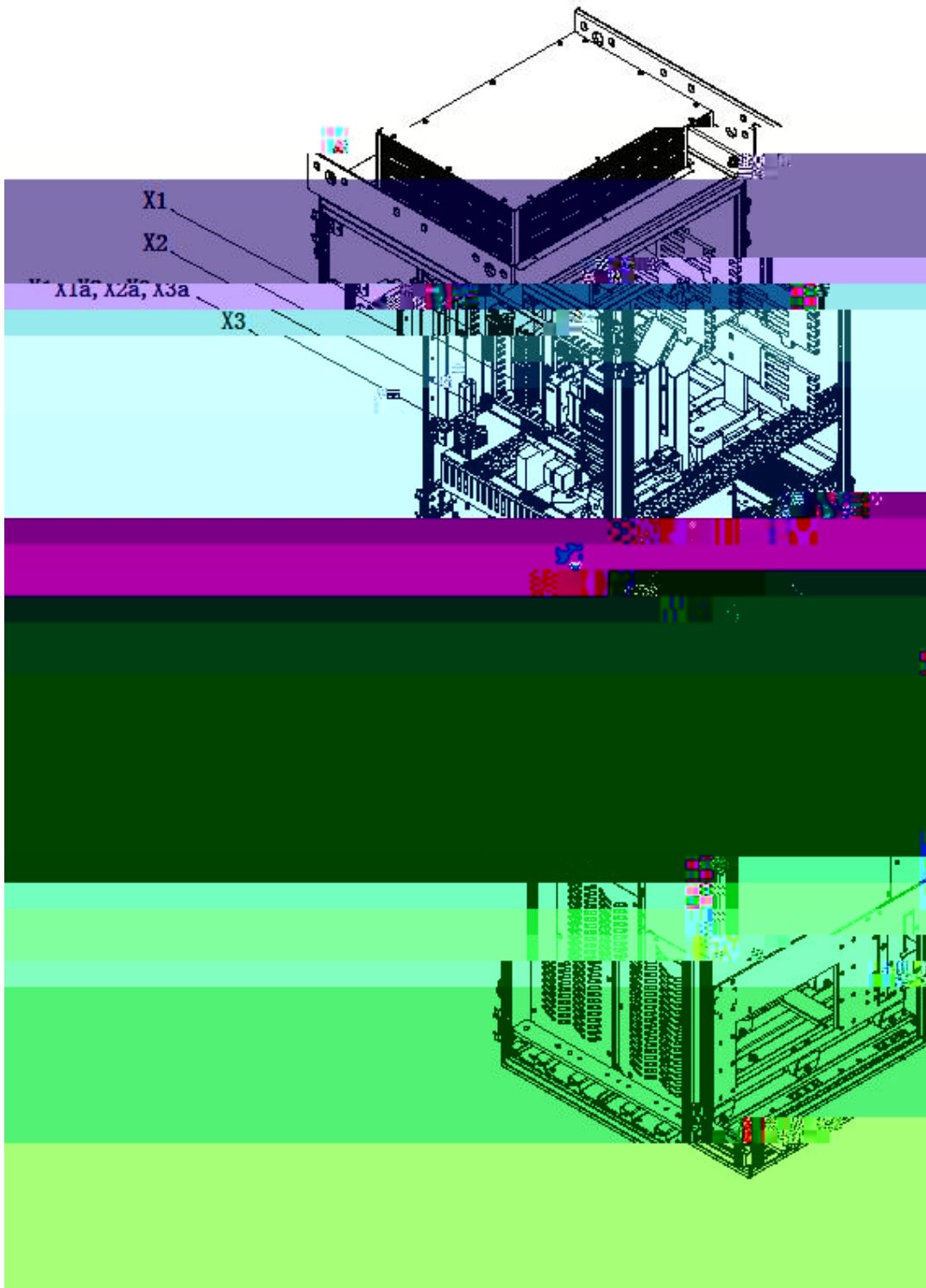
A 6

序号 号
N1X1





a



1 ()

b



4.


4.1

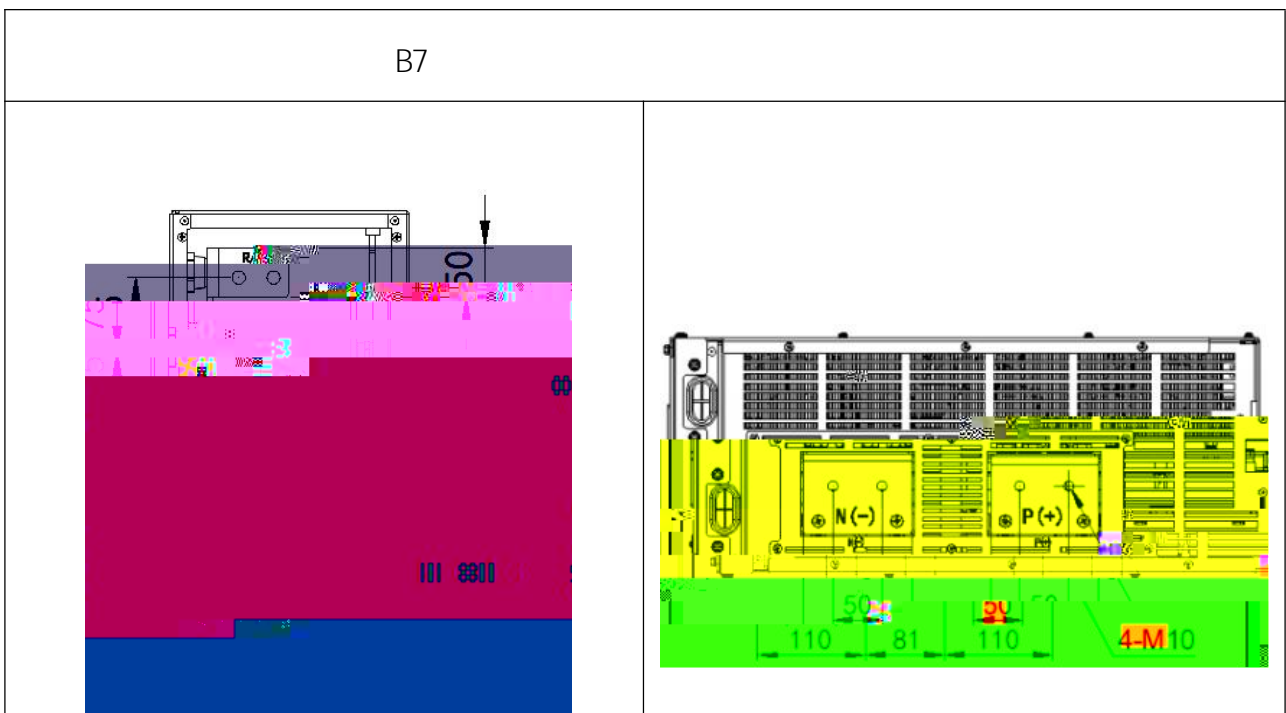
L

L


4.2

1

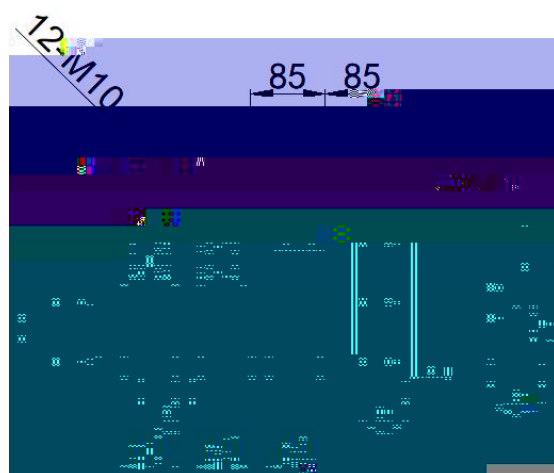
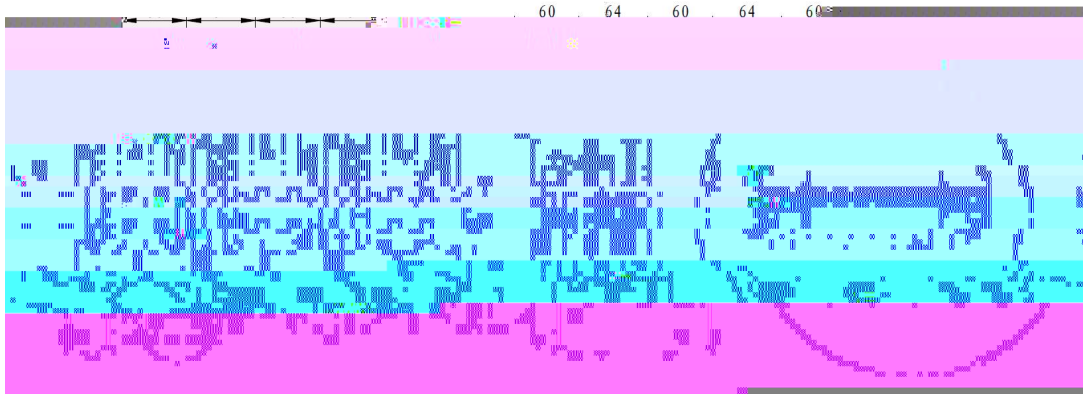
P +	
N -	
R/U S/V T/W	
	

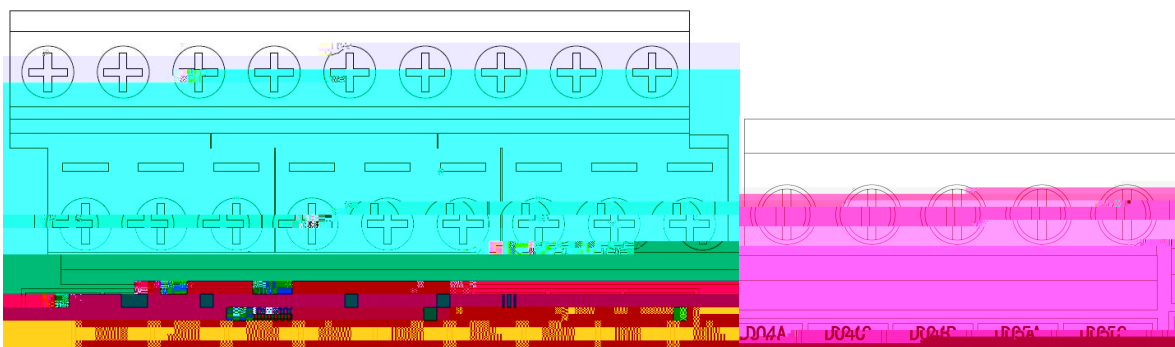
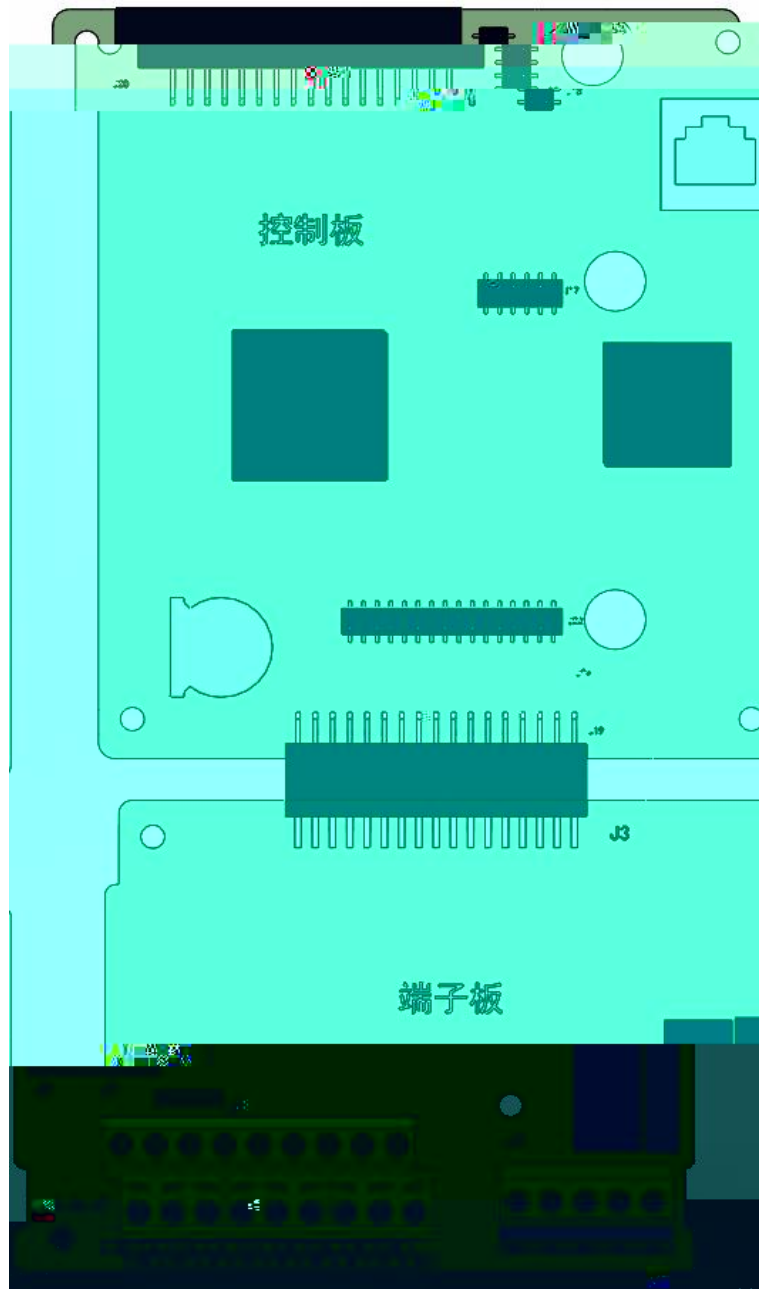


2 L

R S T	L
	L
48V+ 48V-	L
SA SB	L

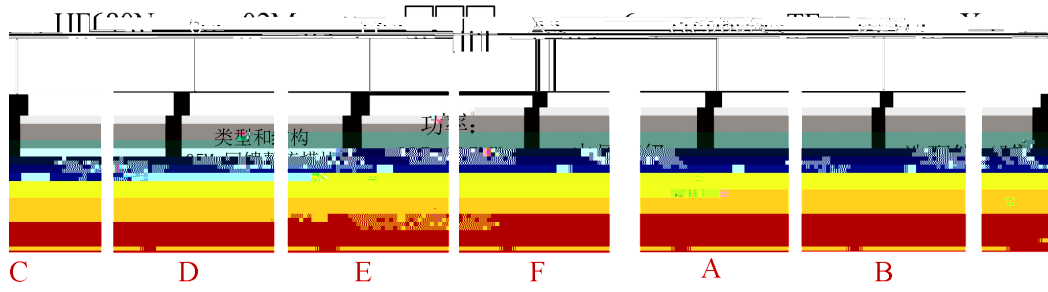
B7 L





+10V- GND	10V		+10V	50mA	
				1k	~5k
+24V- COM	24V		+24V		
				200mA	
PW			24V		
			DI 1-DI 5	DO1	PW
AI 1- GND	1		24V		
			DC -10V~10V		100k
AI 2- GND	2	J1	-10VDC~10VDC/0mA~20mA		
				100k	500
DI 1- PW	1				
DI 2- PW	2				3.3k
DI 3- PW	3		9V~30V	DI 1-DI 4	
DI 4- PW	4	500Hz	DI 5	20KHz	
DI 5- 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		
DO4B- DO4C	2	30VDC	1A		
DO5A- DO5C	3			250VAC 2A	COS =0.4
		30VDC	1A		

4.3



A

B

05

-
- 1 HF680N05M
 - 2 HF680N05M
 - 3 HF680N05MB7 8uH
 - 4 B7

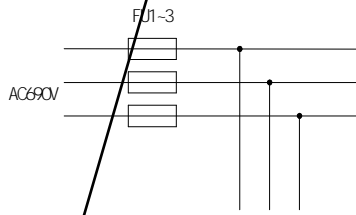
4.4

4.4.1 L

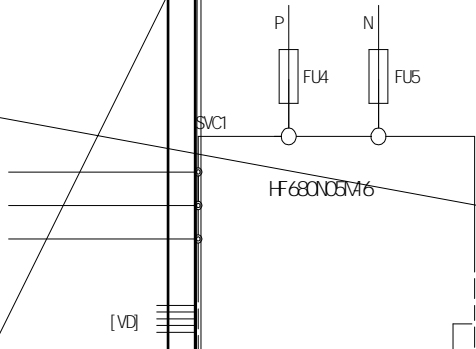
	L
HF680N05M 685- 6	HF680N02F - 685- 6
HF680N05M 1030- 6	HF680N02F - 1030- 6

1. 1030kW L

4.5



[VD]



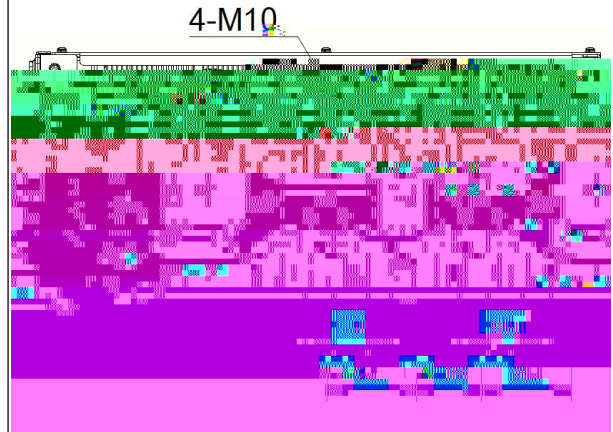
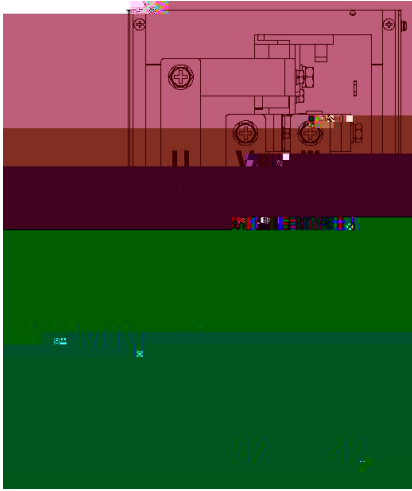
[VD]

4. 6

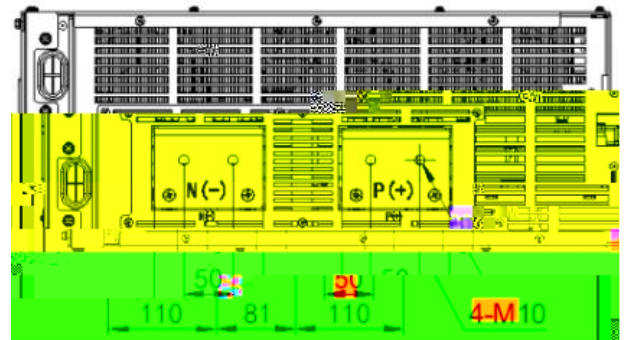
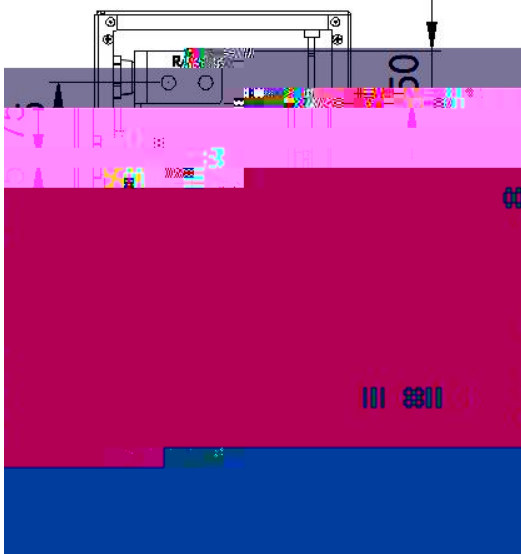
660V	690V			
50 / 60Hz				
-15%	+10%			
<AC530V	15ms			
0. 95				
		150%	5	1
		180%	5	1
740V	975V			

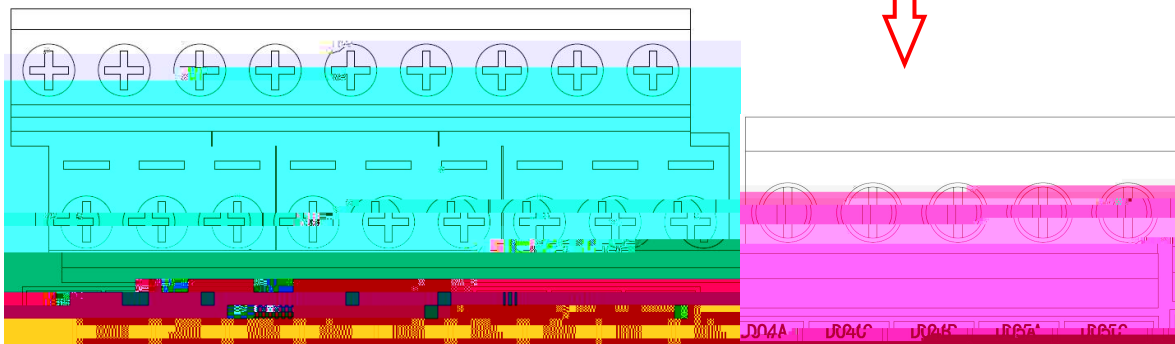
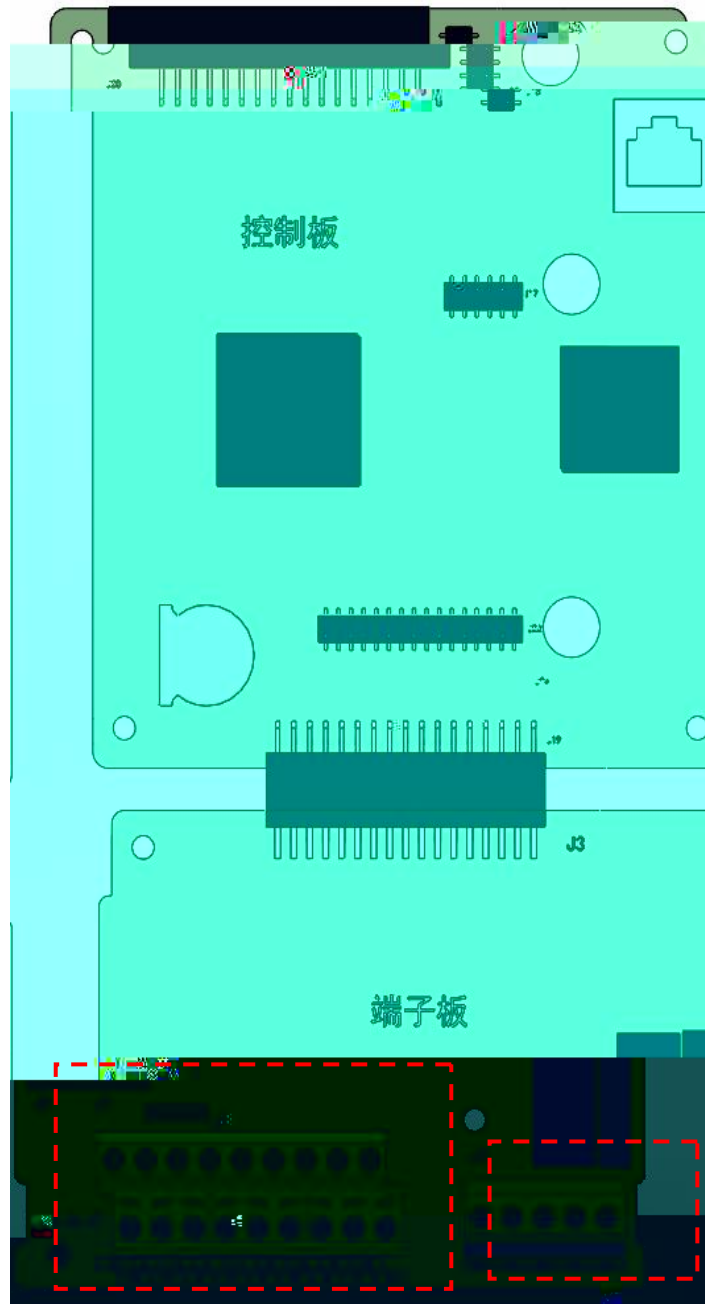


B5



B7

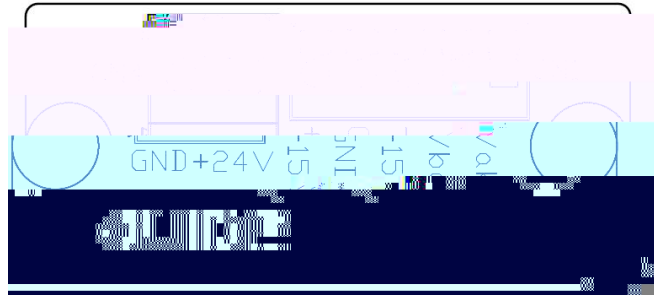




	+10V- GND	10V	+10V 50mA 1k ~5k
	+24V- COM	24V	+24V 200mA
	PW		24V DI 1-DI 5 DO1 PW 24V
	AI 1- GND	1	DC -10V~10V 100k
	AI 2- GND	2	J1 -10VDC~10VDC/0mA~20mA 100k 500
	DI 1- PW	1	500Hz DI 5 9V~30V DI 1-DI 4 20KHz 3. 3k
	DI 2- PW	2	
	DI 3- PW	3	
	DI 4- PW	4	
	DI 5- PW	5	
	AO1- GND	1	J2 0V~10V 0mA~20mA
	AO2- GND	2	J8 0V~10V 0mA~20mA
	DO1- COM	1	0V~24V 0mA~50mA
	DO4A- DO4C	1	250VAC 3A COS =0.4 30VDC 1A 250VAC 2A COS =0.4 30VDC 1A
	DO4B- DO4C	2	
	DO5A- DO5C	3	

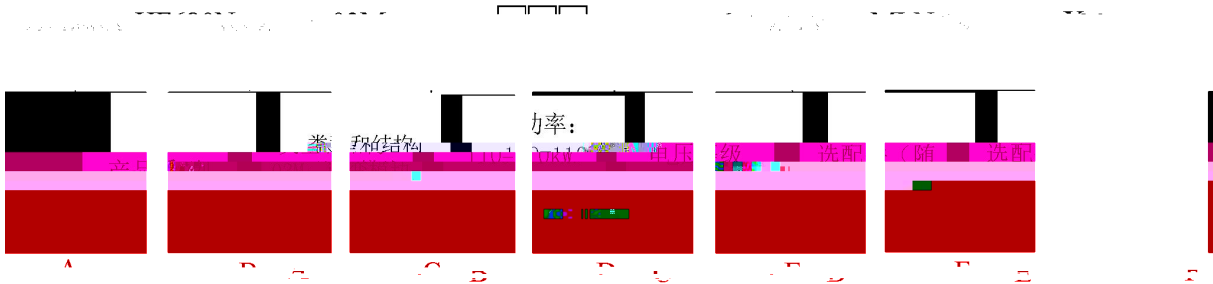
	J1	AI 2	
	J2	AO1	
	J8	AO2	

3



DC+24V	CN4	+24V- GND	
	CN1		+15 -15 GND Vab
			Vac

5.3



A	
B	03M 03C
C	110 110kW 2000 2000kW
D	6 690V
E	MLN
F	

MB01	Modbus RTU	DP01	Profibus DP
PN01	Profinet	CAN01	CANopen
PG02			
ST0	ST0		

HF680N03M 250- 6	290	250	230	200	
HF680N03M 315- 6	355	315	295	250	
HF680N03M 355- 6	390	355	358	315	
HF680N03M 400- 6	420	400	395	355	
HF680N03M 450- 6	472	450	425	400	B7
HF680N03M 500- 6	545	500	477	450	
HF680N03M 560- 6	600	560	548	500	
HF680N03M 630- 6	675	630	605	560	
HF680N03M 710- 6	735	710	678	630	
HF680N03M 315- 6- MLN	355	315	295	250	
HF680N03M 355- 6- MLN	390	355	358	315	
HF680N03M 400- 6- MLN	420	400	395	355	
HF680N03M 450- 6- MLN	472	450	425	400	B7A
HF680N03M 500- 6- MLN	545	500	477	450	
HF680N03M 560- 6- MLN	600	560	548	500	
HF680N03M 630- 6- MLN	675	630	605	560	
HF680N03M 710- 6- MLN	735	710	678	630	
HF680N03C- 800- 6	832	800	735	710	
HF680N03C- 900- 6	944	900	832	800	B7*2
HF680N03C- 1000- 6	1060	1000	944	900	
HF680N03C- 1200- 6	1292	1200	1060	1000	

HF680N03C-1600-6	1720	1600	1480	1400	B7*3
HF680N03C-1800-6	1858	1800	1730	1600	
HF680N03C-2000-6	2065	2000	1868	1800	

1. B7

8uH B7A

2. B7 B7A

3. 710KW 1400KW 2000KW

5

1

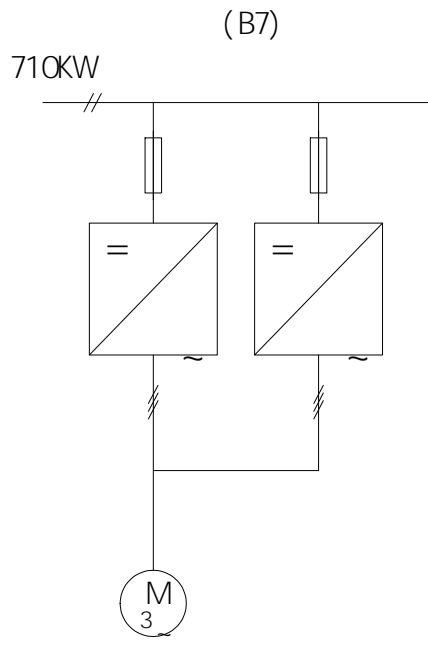
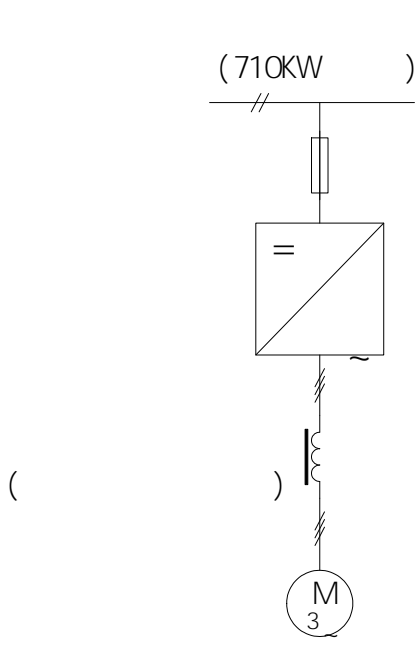
110%

5.4

690V

HF680N03M 500- 6	545	0. 020
HF680N03M 500- 6- MLN		
HF680N03M 560- 6	600	0. 020
HF680N03M 560- 6- MLN		
HF680N03M 630- 6	675	0. 020
HF680N03M 630- 6- MLN		
HF680N03M 710- 6	735	0. 016
HF680N03M 710- 6- MLN		





HF680N03M 560- 6	2× 95	800
HF680N03M 630- 6	3× 70/2× 120	900
HF680N03M 710- 6	3× 95/2× 150	1000

1. 710kW

2.

HF680N

5. 6

		800V 1150V
		(VC) (SVC) V/F
		Profibus DP
		660V 690V 5%
		0 300Hz
		0Hz/200%(VC SVC) 0.8Hz/150%(V/F)
		1kHz 10kHz
		150% 5 1
		180% 5 1

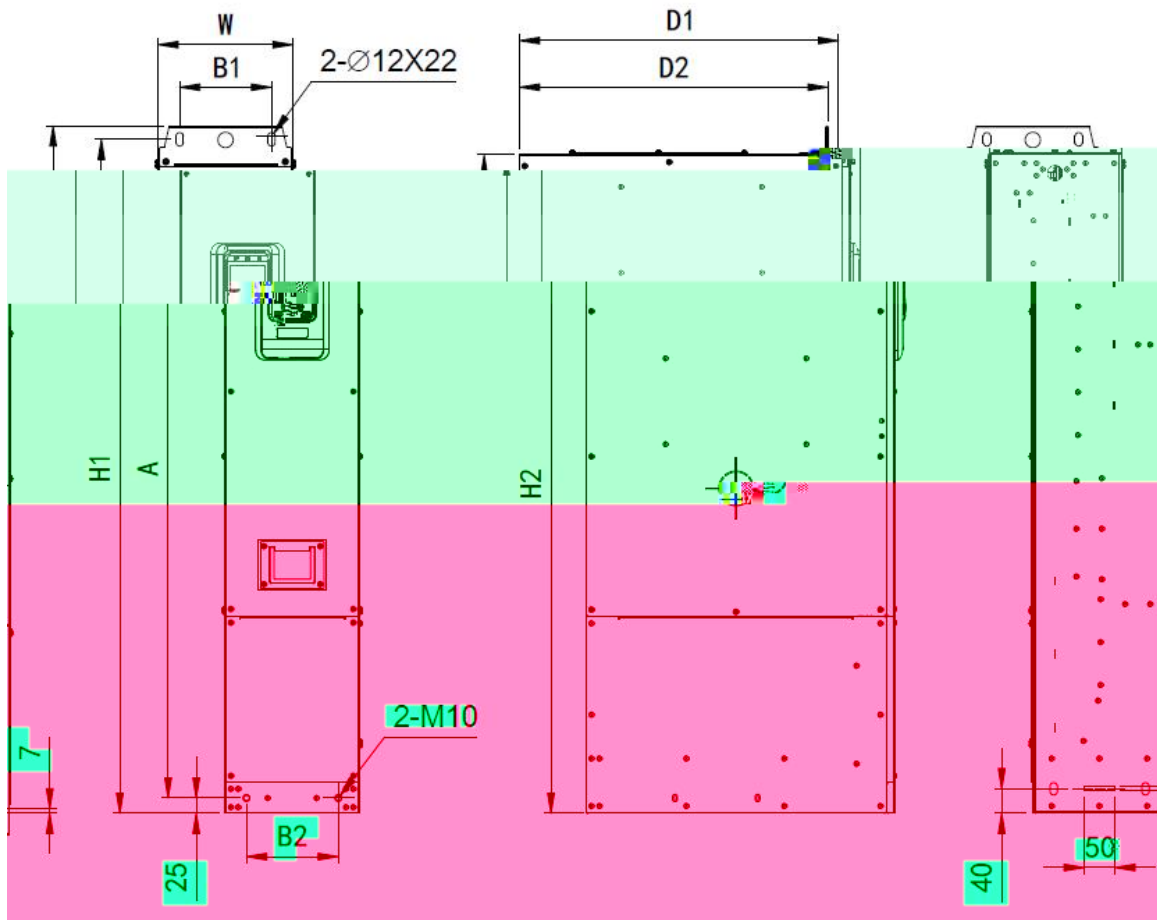
5.7

HF680N03M 110- 6	B4	1. 76	HF680N03M 630- 6	B7	10. 71
HF680N03M 132- 6		2. 11	HF680N03M 710- 6		11. 36
HF680N03M 160- 6		2. 56	HF680N03M 315- 6- MLN	B7A	5. 36
HF680N03M 200- 6	B5	2. 80	HF680N03M 355- 6- MLN		6. 04
HF680N03M 250- 6		3. 50	HF680N03M 400- 6- MLN		6. 80
HF680N03M 315- 6	B7	5. 36	HF680N03M 450- 6- MLN	B7A	7. 65
HF680N03M 355- 6		6. 04	HF680N03M 500- 6- MLN		8. 50
HF680N03M 400- 6		6. 80	HF680N03M 560- 6- MLN		9. 52
HF680N03M 450- 6		7. 65	HF680N03M 630- 6- MLN		10. 71
HF680N03M 500- 6		8. 50	HF680N03M 710- 6- MLN		11. 36
HF680N03M 560- 6		9. 52	/		

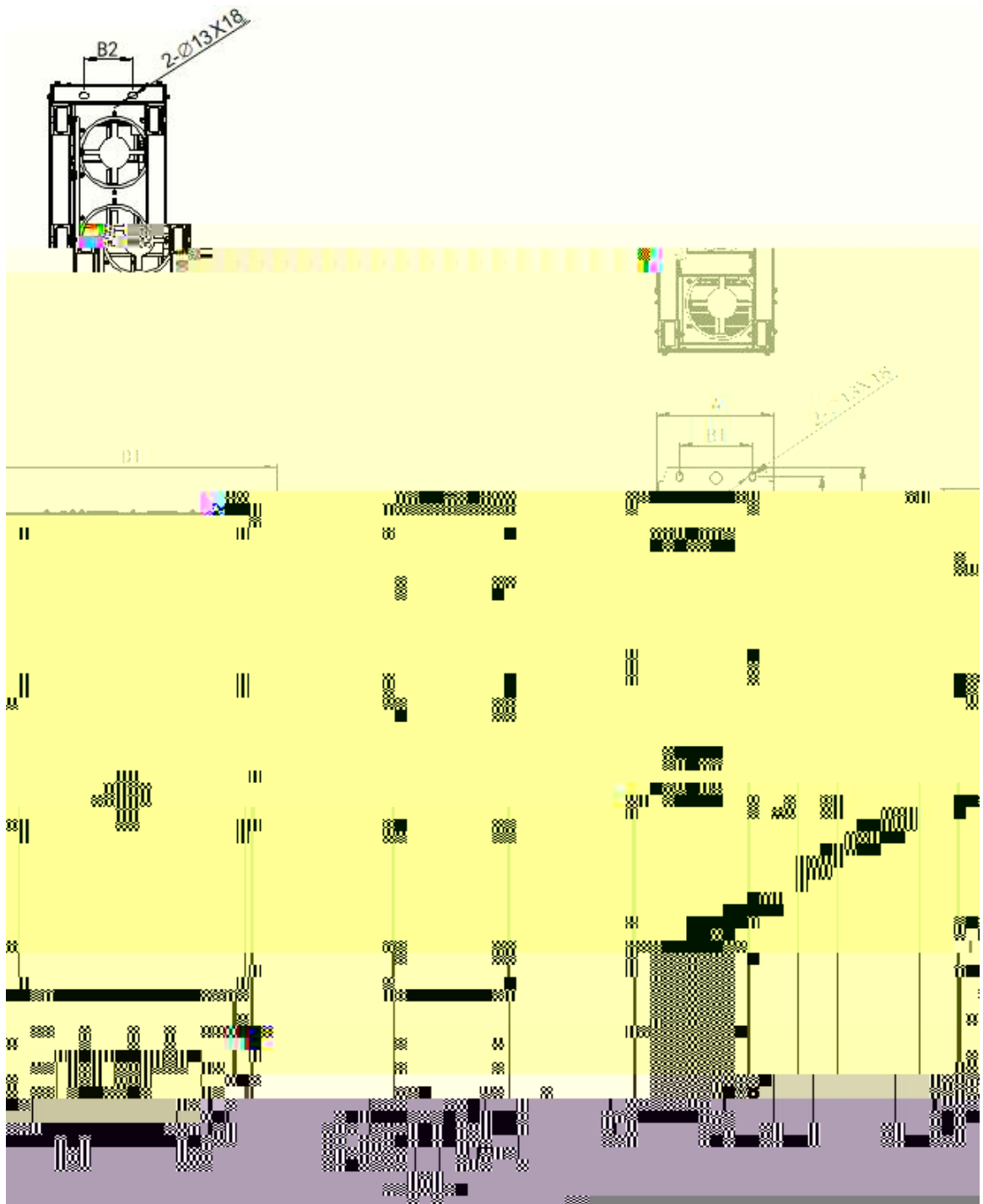
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(1)

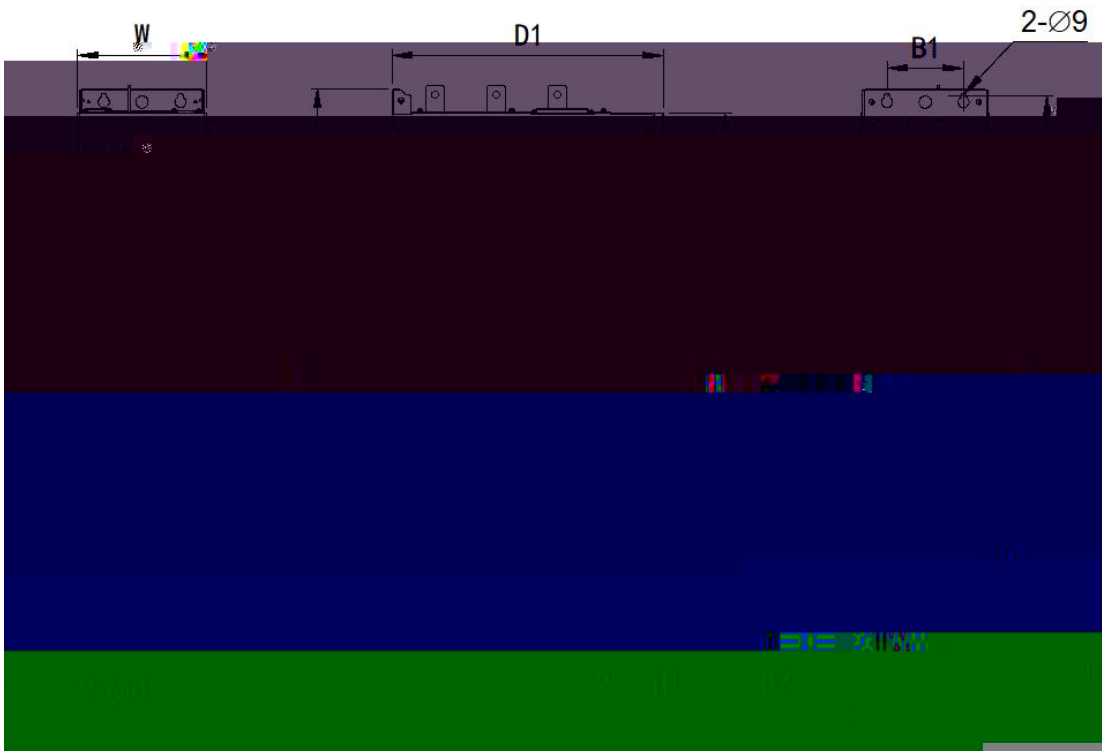
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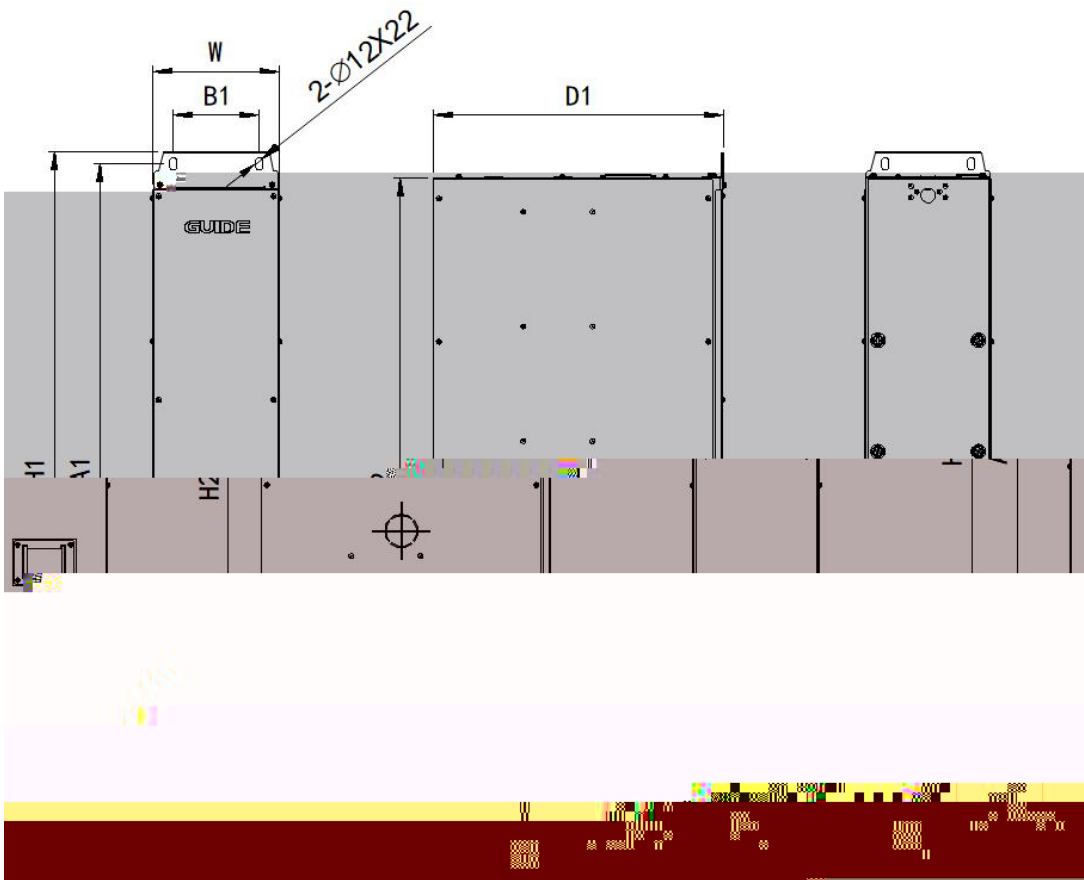
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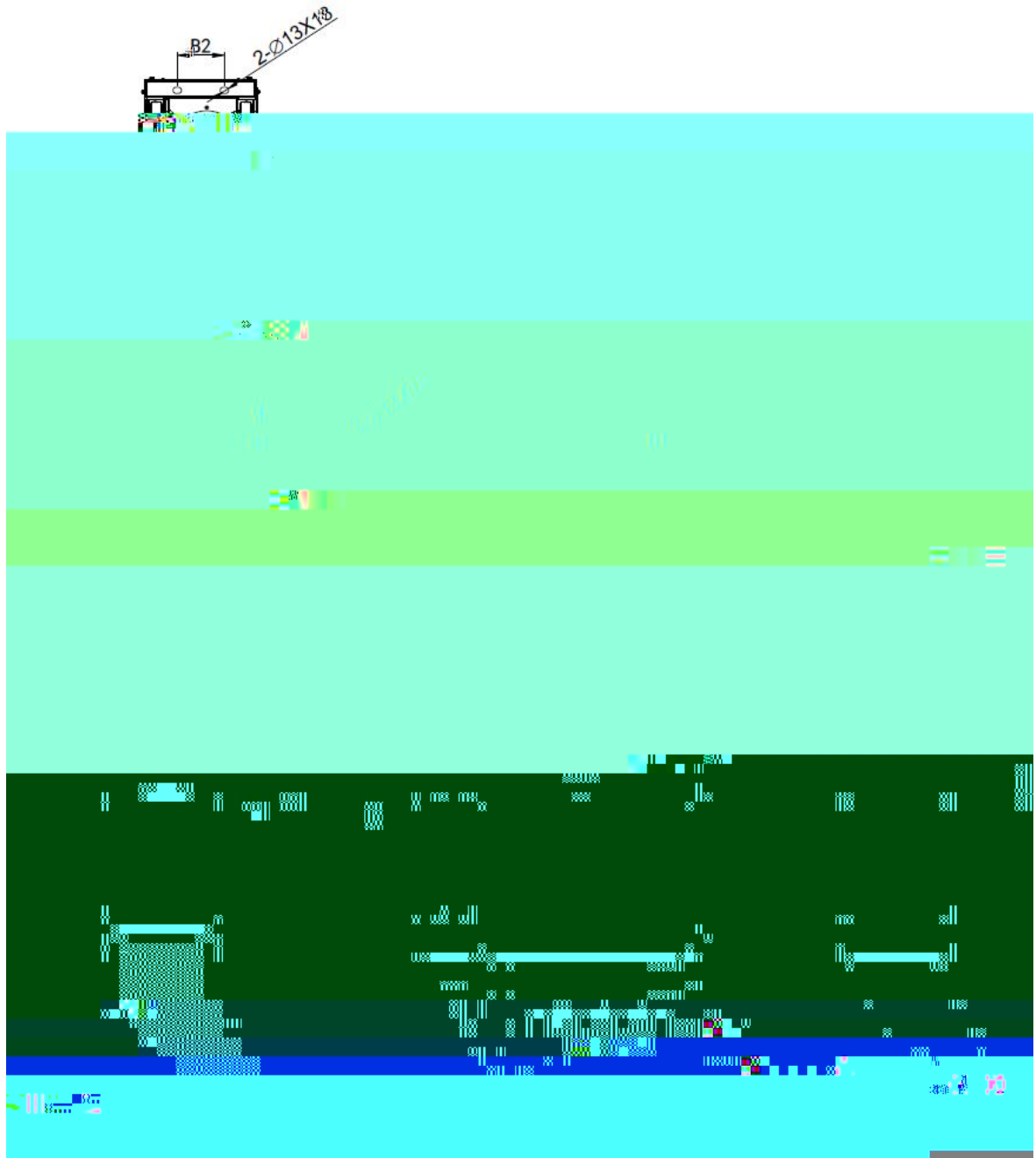
B7



132kW LCL



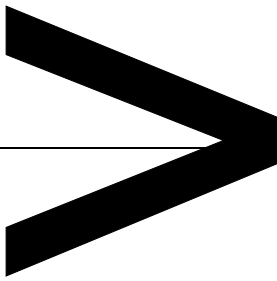
185kW LCL



B7 LCL

1.

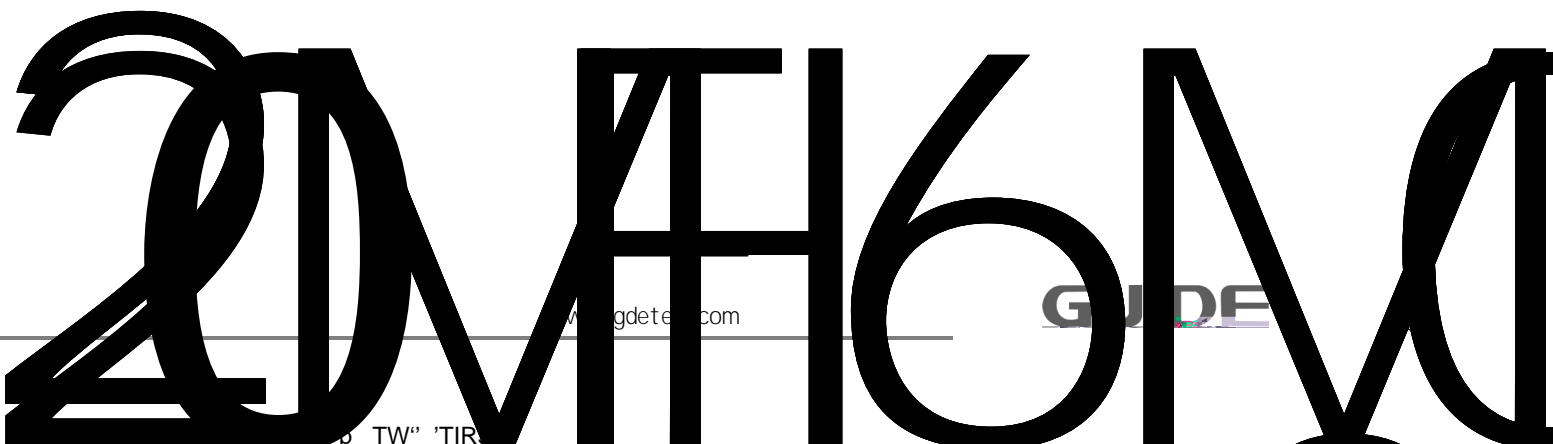
v



		mm								=ê C Ä8.8	kg
		H1	H2	W	D1	D2	A	B1	B2		
HF680N02M132-6	B4	920	880	210	462	444	899	125	150	4-M8	55
HF680N02M160-6											
HF680N02M250-6	B5	1122	1075	221	522	505	1075	150	150	4-M10	80
HF680N02M315-6	B7	1395	1350	240	600	/	1375	150	100	4-M12	145
HF680N02M400-6											
HF680N02M500-6											
HF680N02M560-6											
HF680N02M630-6											

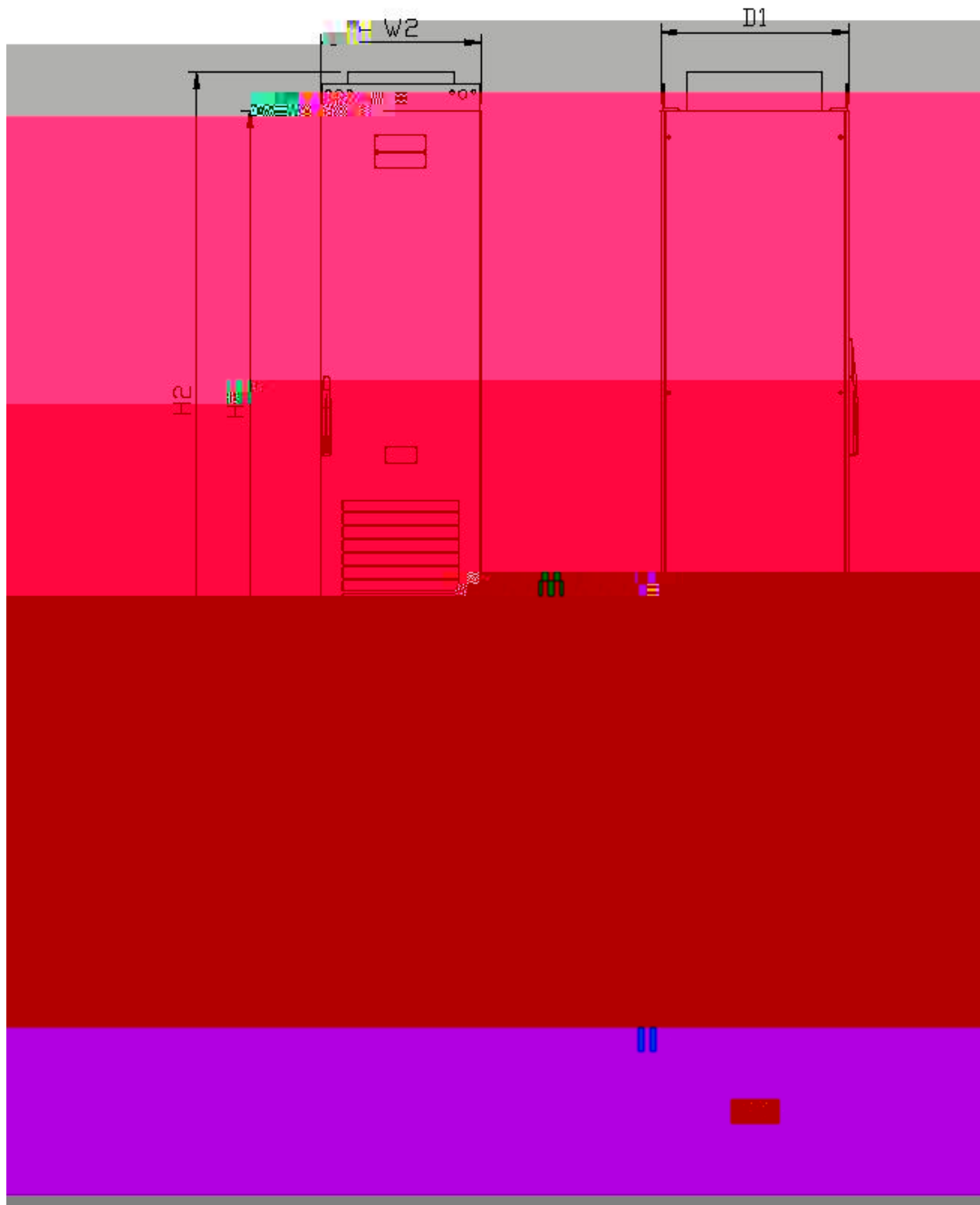
LCL

mm				mm			
135	55	95		5	4-M8	5	
105	5	8	8	105		4-M1	
8	8	5		5		5	

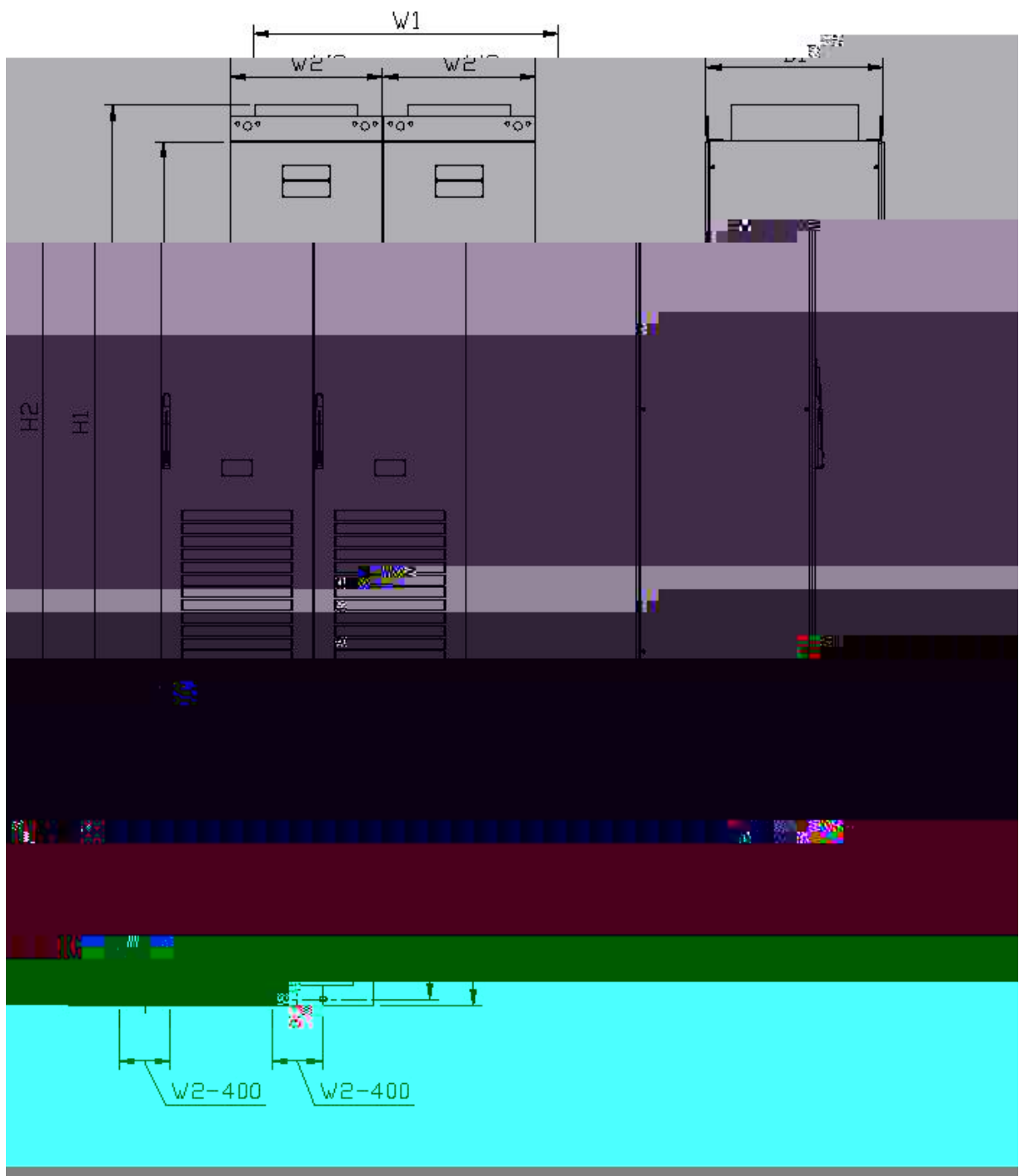


6.2

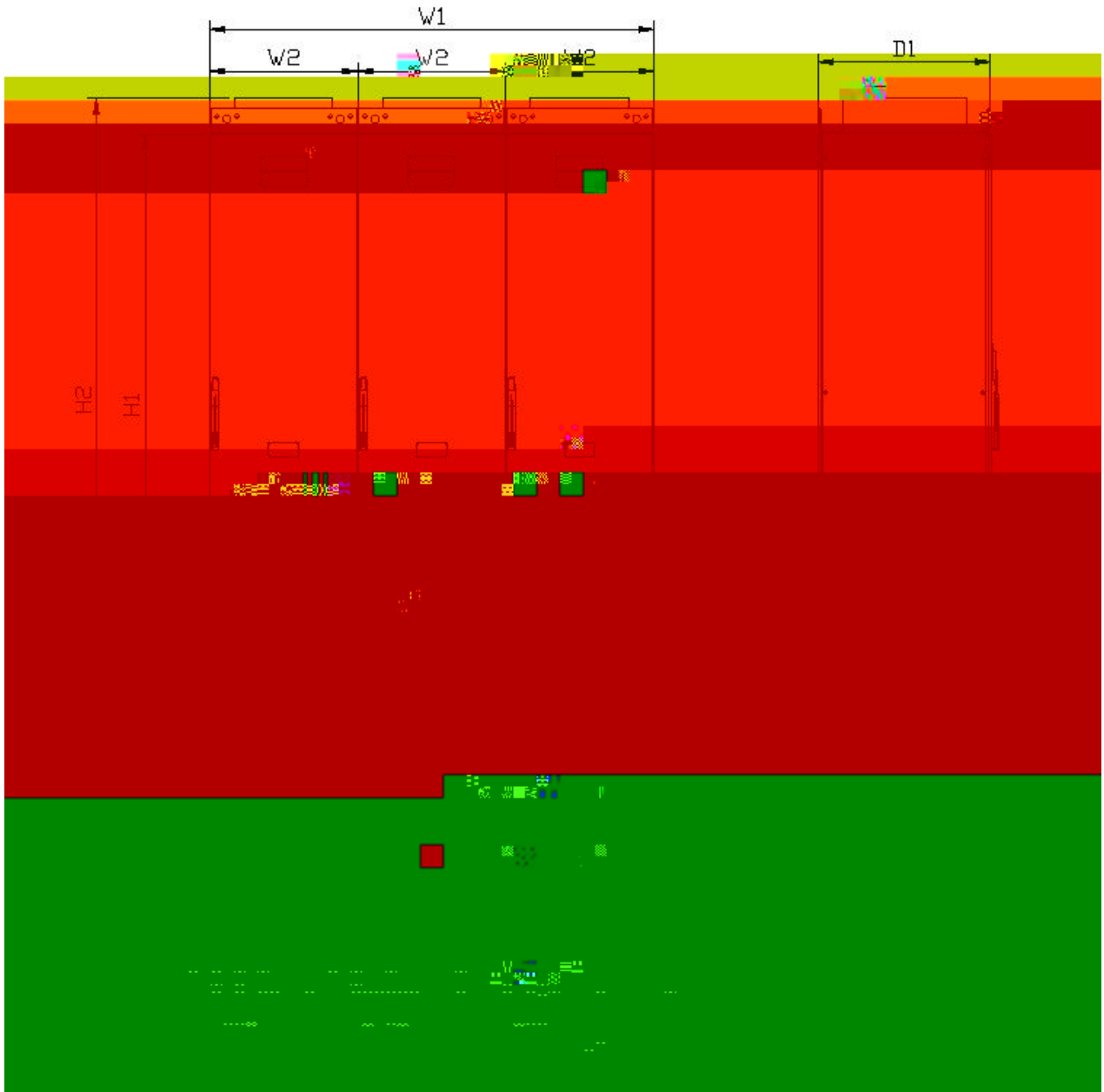
400kW-3600kW



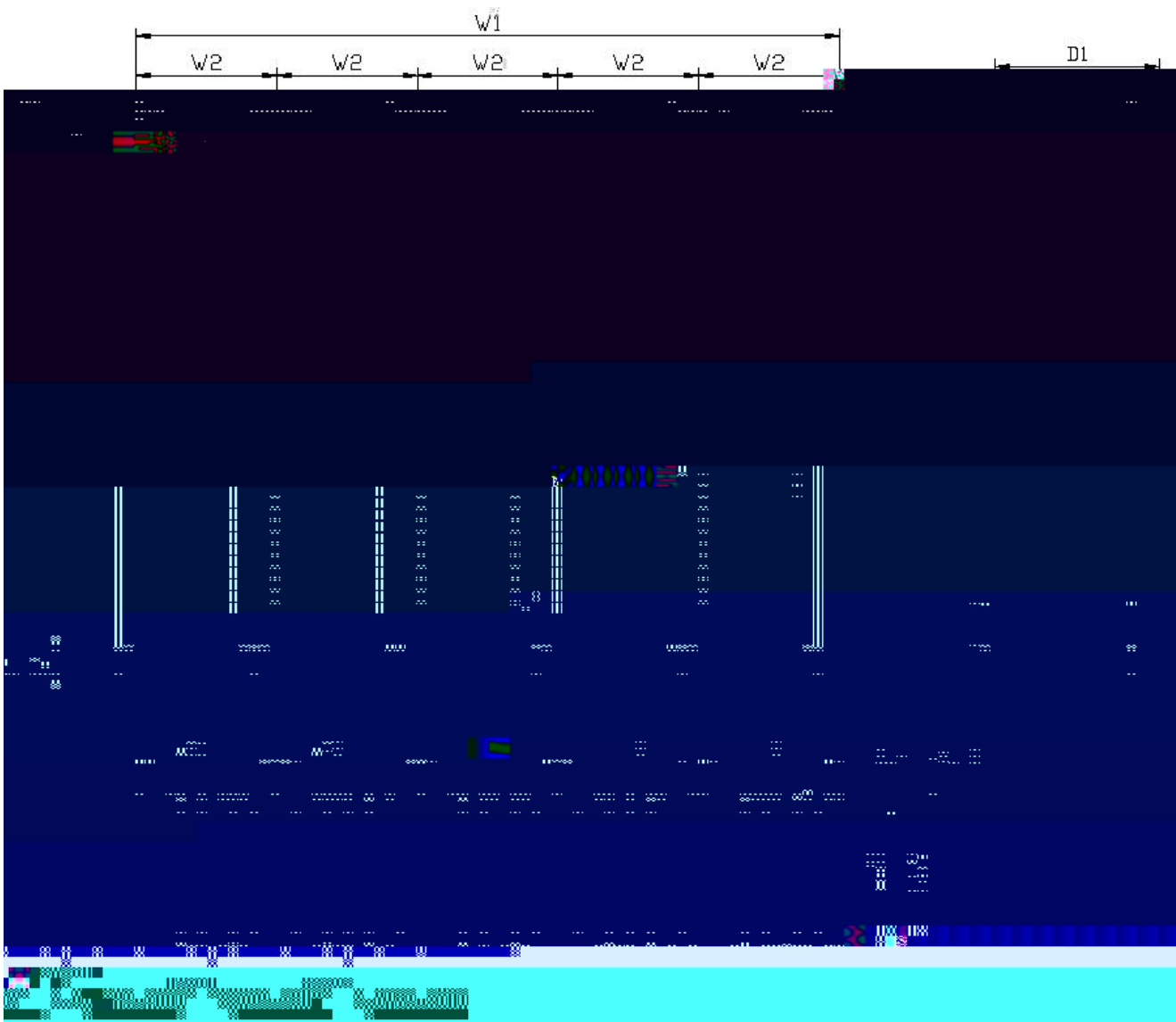
HF680N02C-400-6 HF680N02C-560-6 HF680N02C-630-6



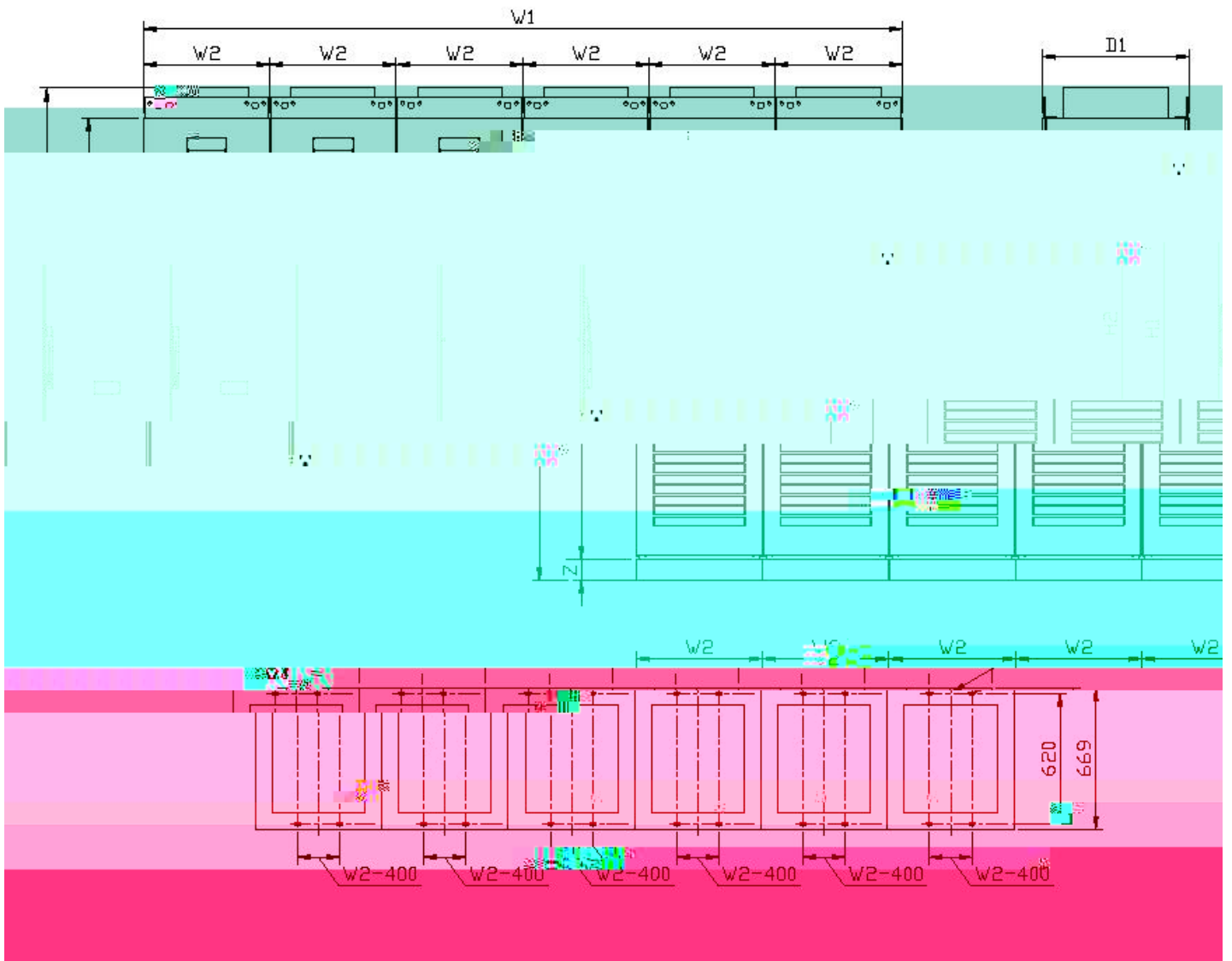
HF680N02C-800-6 HF680N02C-1200-6



HF680N02C-1800-6



HF680N02C-3000-6



HF680N02C- 3600- 6

400kW 560kW 630kW

		mm						kg
		H1	H2	V1	V2	D1	Z	
1	HF680N02C- 400- 6 HF680N02C- 400- 6+Z1	2200	2440	/	600	700	100	1000
	HF680N02C- 560- 6 HF680N02C- 560- 6+Z1							
	HF680N02C- 630- 6 HF680N02C- 630- 6+Z1							
2	HF680N02C- 400- 6+Z2 HF680N02C- 560- 6+Z2	2200	2540	/	600	700	200	1000
	HF680N02C- 630- 6+Z2							
	HF680N02C- 400- 6+Z3 HF680N02C- 560- 6+Z3							
3	HF680N02C- 560- 6+Z3 HF680N02C- 630- 6+Z3	2200	2590	/	600	700	250	1000
	HF680N02C- 400- 6+Z4 HF680N02C- 560- 6+Z4							
	HF680N02C- 630- 6+Z4							
4	HF680N02C- 400- 6+Z4 HF680N02C- 560- 6+Z4	2200	2640	/	600	700	300	1000
	HF680N02C- 630- 6+Z4							

800kW 1200kW

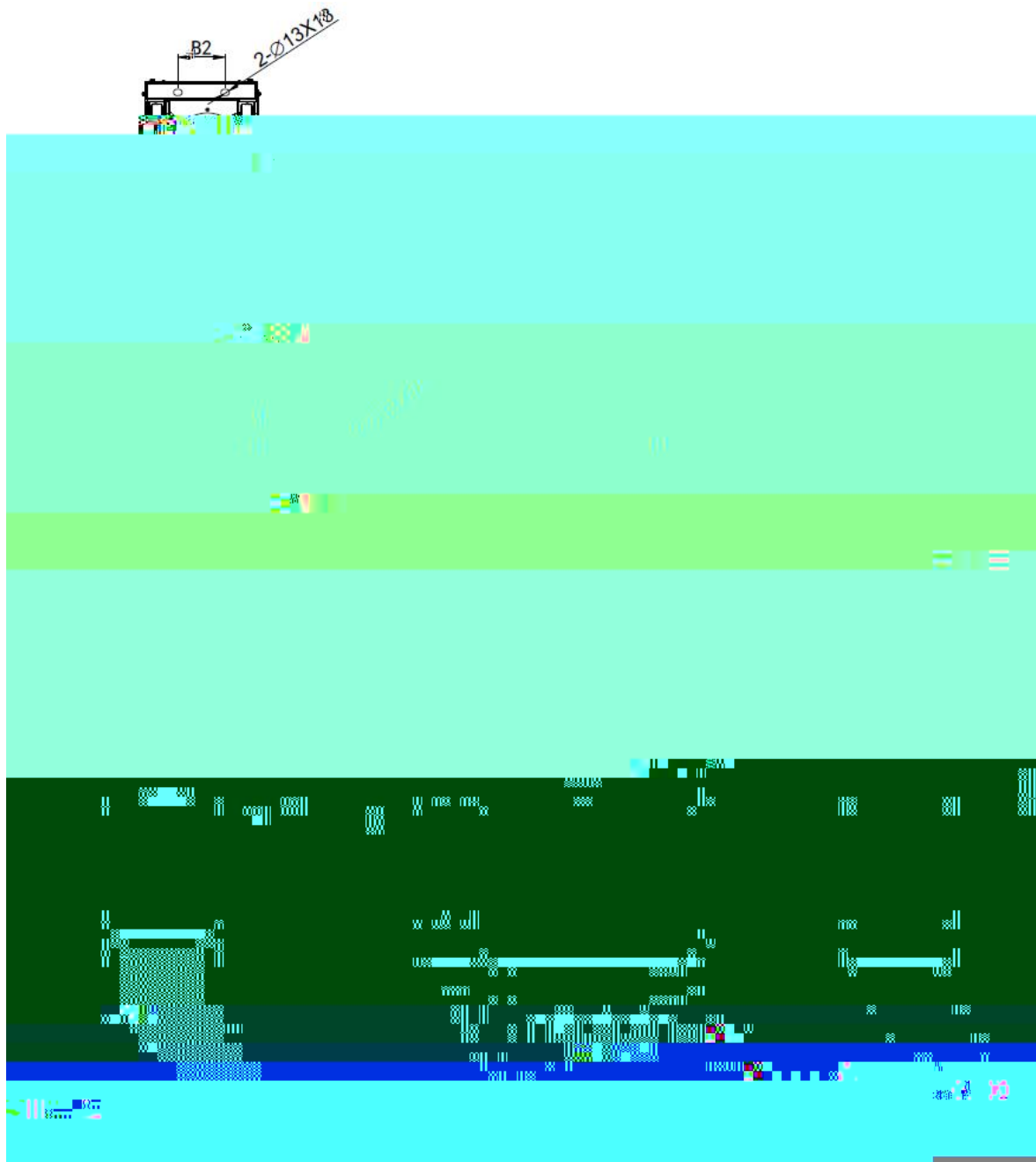
		mm						kg
		H1	H2	V1	V2	D1	Z	
1	HF680N02C- 800- 6 HF680N02C- 800- 6+Z1	2200	2440	1200	600	700	100	1800
	HF680N02C- 1200- 6 HF680N02C- 1200- 6+Z1							
	HF680N02C- 800- 6+Z2 HF680N02C- 1200- 6+Z2							
2	HF680N02C- 800- 6+Z2 HF680N02C- 1200- 6+Z2	2200	2540	1200	600	700	200	1800
	HF680N02C- 800- 6+Z3 HF680N02C- 1200- 6+Z3							
	HF680N02C- 800- 6+Z4 HF680N02C- 1200- 6+Z4							
3	HF680N02C- 800- 6+Z3 HF680N02C- 1200- 6+Z3	2200	2590	1200	600	700	250	1800
	HF680N02C- 800- 6+Z4 HF680N02C- 1200- 6+Z4							
	HF680N02C- 800- 6+Z4 HF680N02C- 1200- 6+Z4							
4	HF680N02C- 800- 6+Z4 HF680N02C- 1200- 6+Z4	2200	2640	1200	600	700	300	1800
	HF680N02C- 800- 6+Z4 HF680N02C- 1200- 6+Z4							
	HF680N02C- 800- 6+Z4 HF680N02C- 1200- 6+Z4							

1800kW

		mm						kg
		H1	H2	V1	V2	D1	Z	
1	HF680N02C- 1800- 6 HF680N02C- 1200- 6+Z1	2200	2440	1800	600	700	100	2800
	HF680N02C- 1800- 6+Z2							
2	HF680N02C- 1800- 6+Z2	2200	2540	1800	600	700	200	2800

H1 H2 W1 W2 D1 Z kg

mm



B7 L

1.

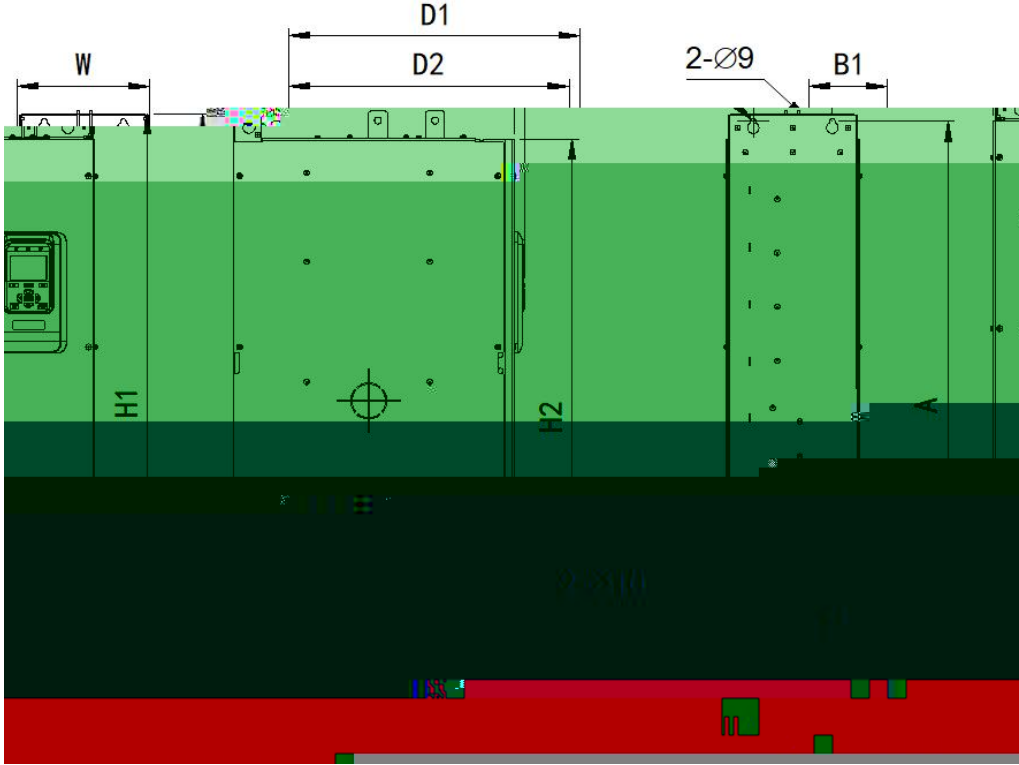
2. LCL

		mm					mm			8.8	kg
		H1	H2	W	D1	D2	A	B1	B2		
HF680N05M 685-6	B7	1395	1350	240	600	/	1375	150	100	4-M2	145
HF680N05M 1030-6											

LCL

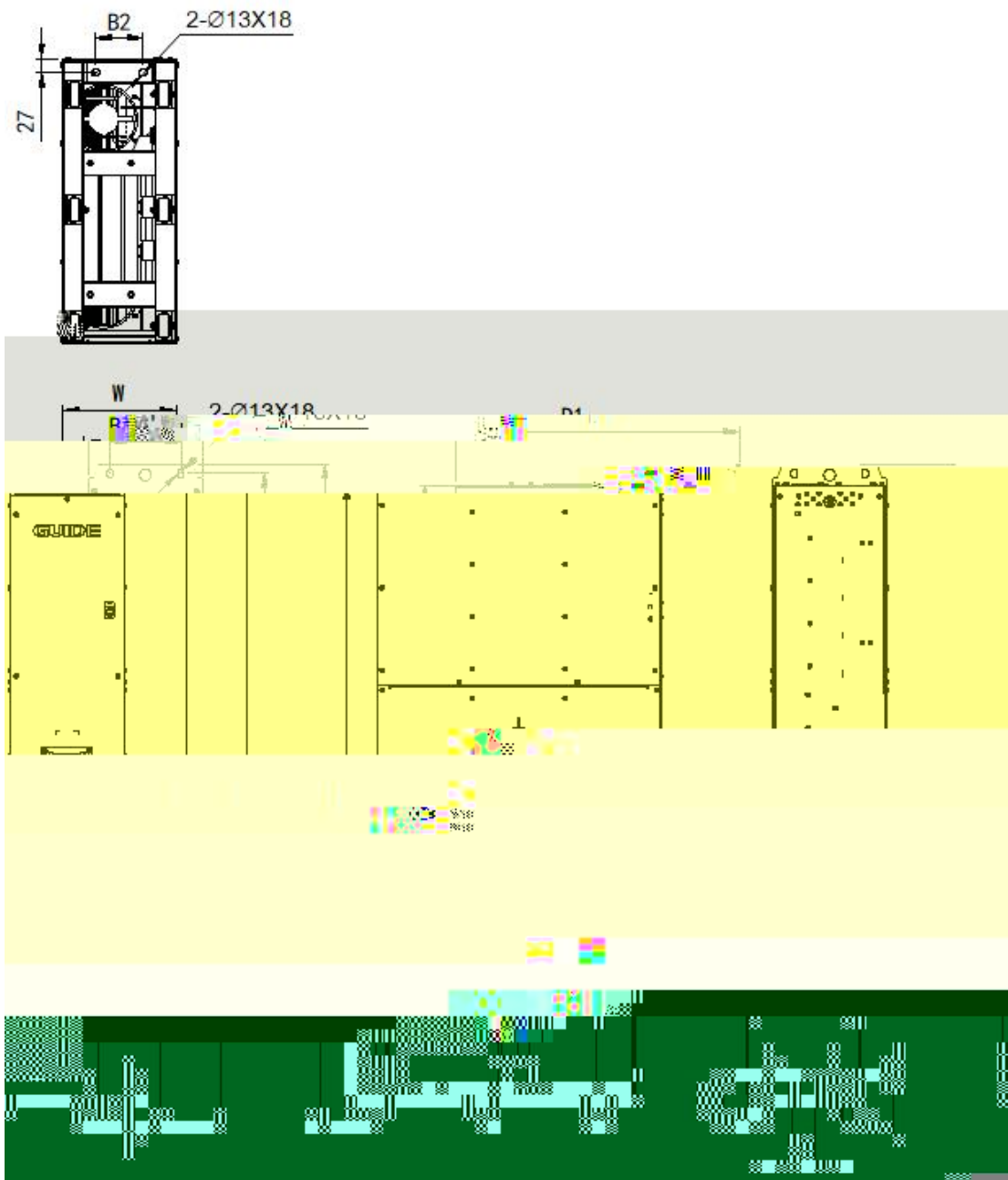
		mm					mm			8.8	kg
		H1	H2	W	D1	D2	A	B1	B2		
HF680N02F-685-6	B7	1395	1350	240	600	/	1375	150	100	4-M2	325
HF680N02F-1030-6											

6.4

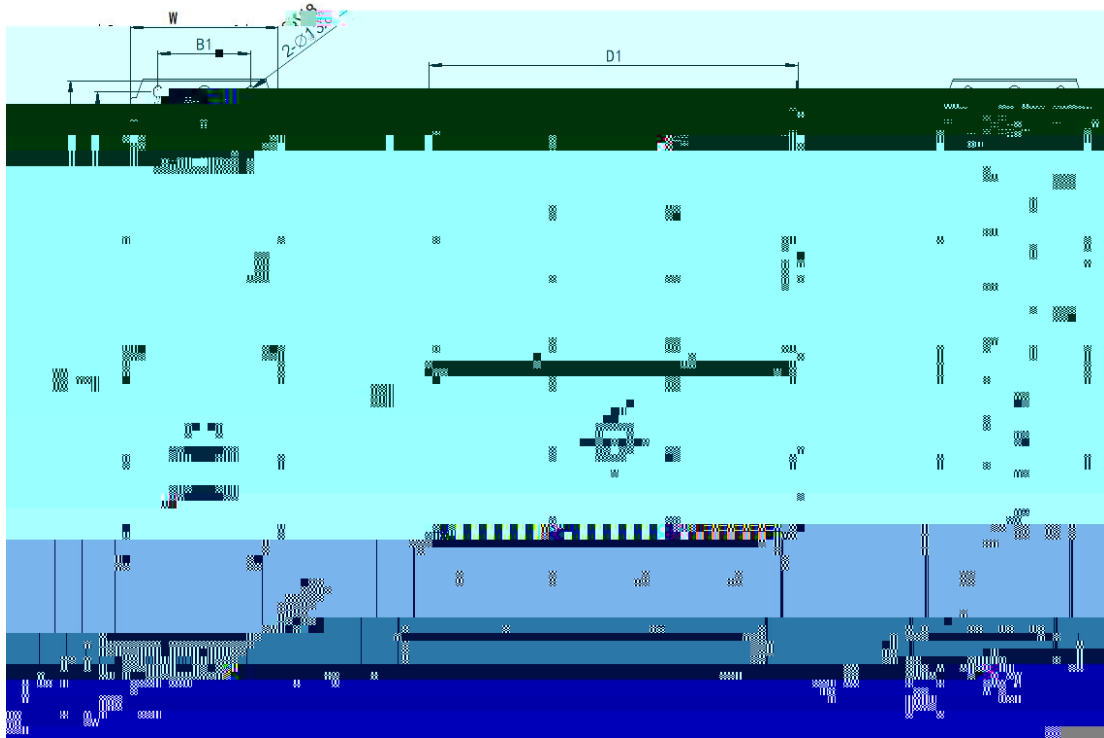


B4





B7



B7A

- 1.
2. B7A
3. B7A

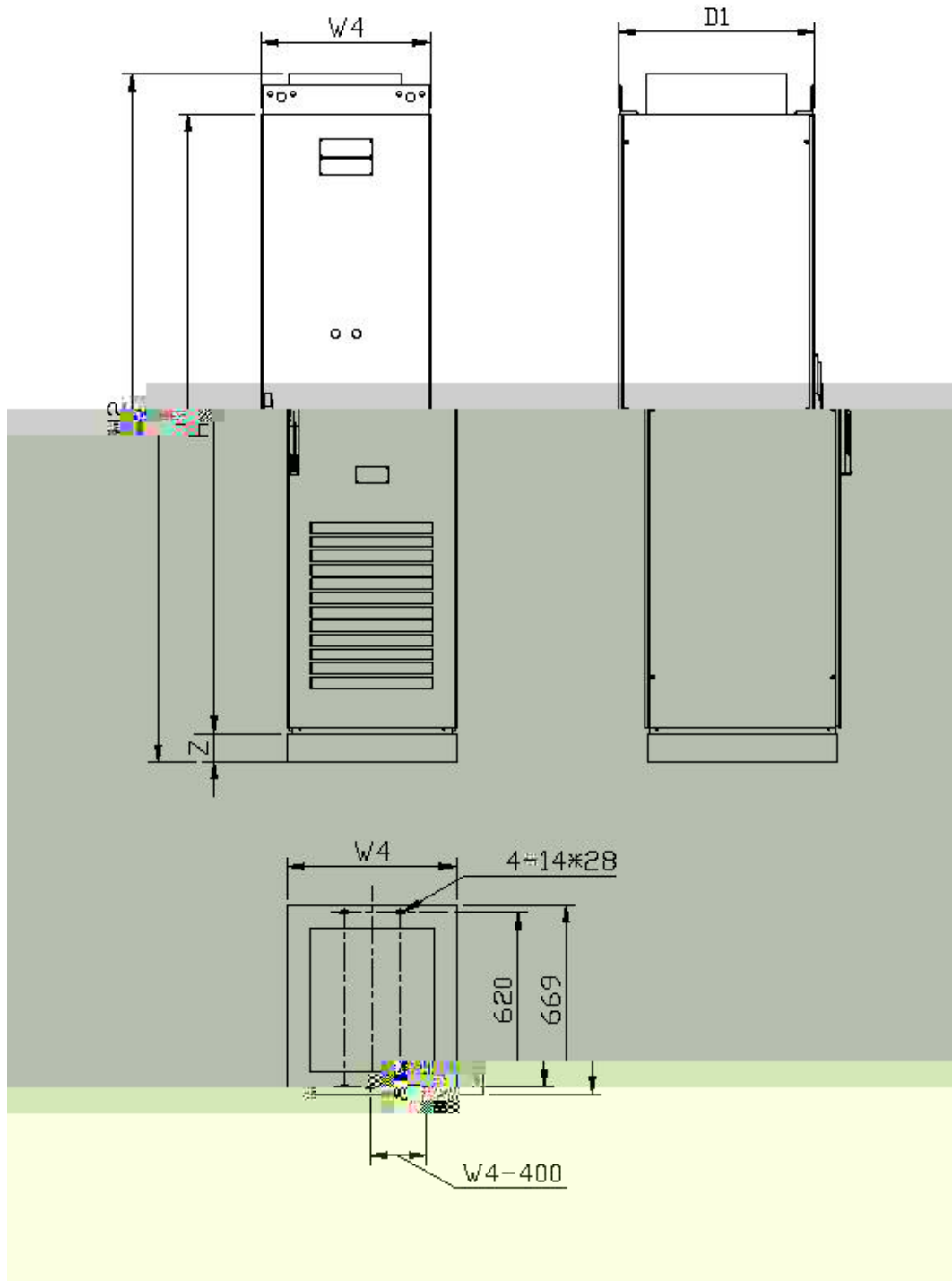


				mm				mm		8.8	kg
	H1	H2	W	D1	D2	A	B1	B2			
HF680N03M110-6											
	B4	920	880	210	462						

~~HECEN~~

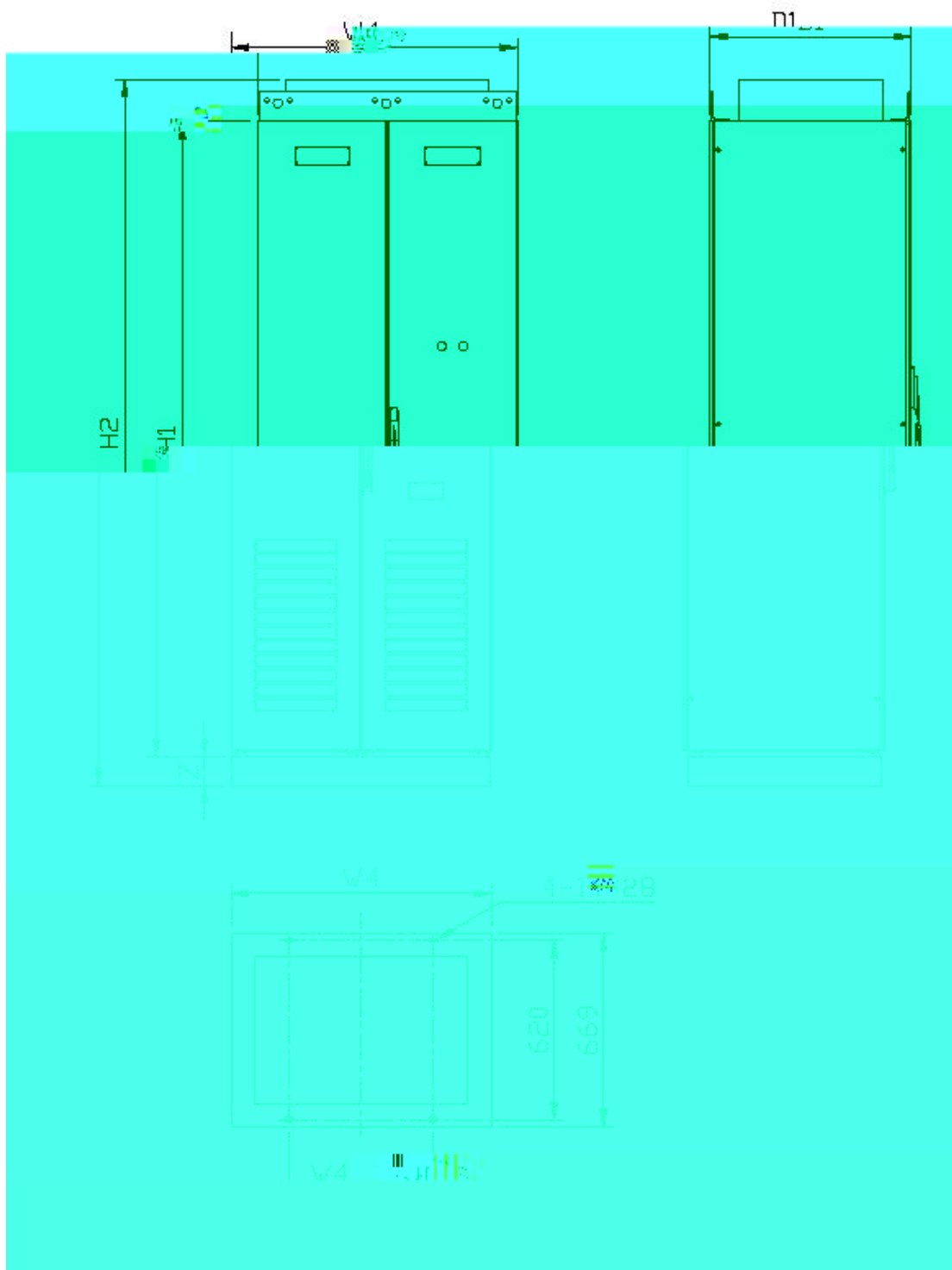


6.5



HF680N03C-800-6 HF680N03C-900-6 HF680N03C-1000-6 HF680N03C-1200-6

HF680N03C-1400-6

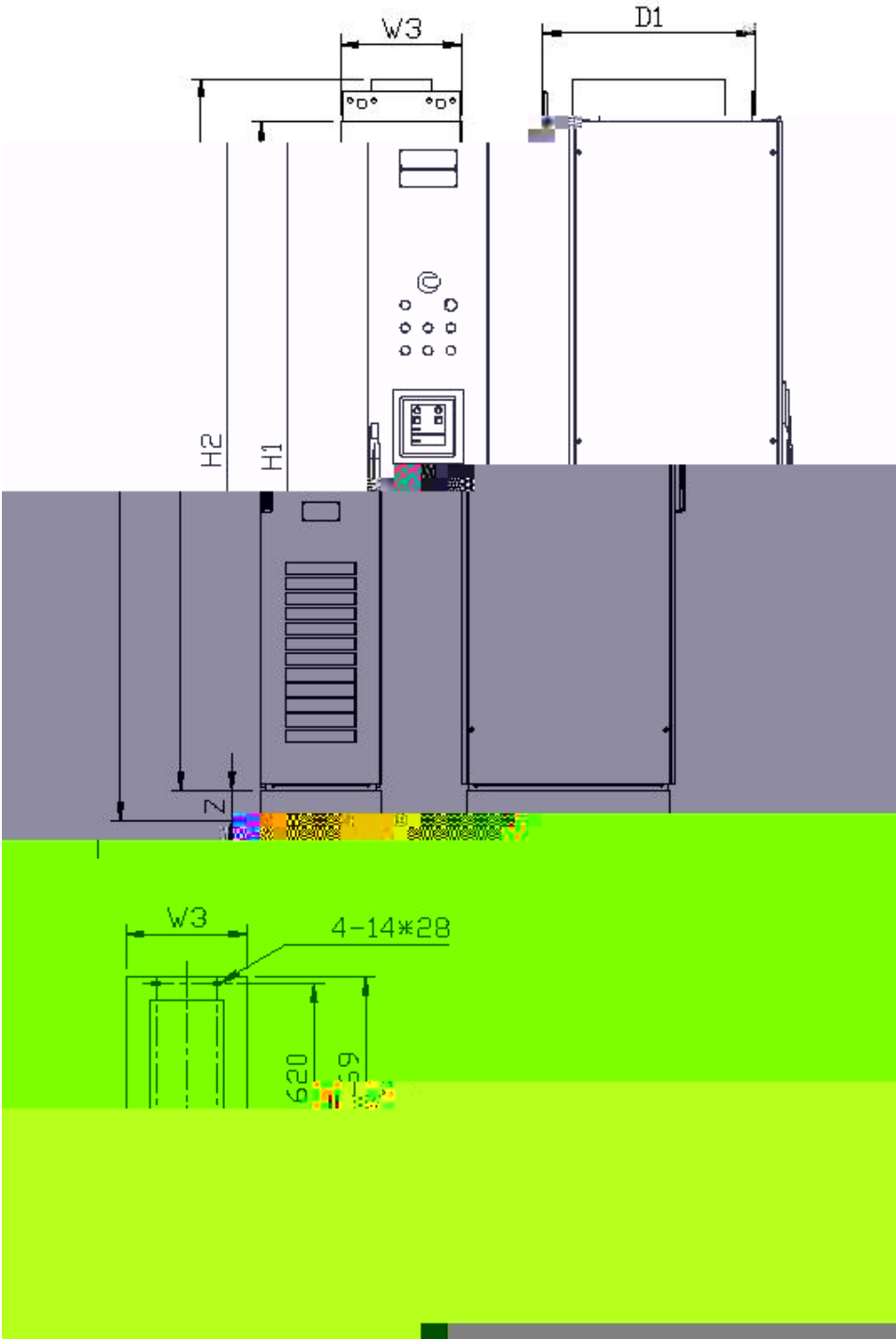


HF680N03C-1600-6 HF680N03C-1800-6 HF680N03C-2000-6

		mm					kg
		H1	H2	W4	D1	Z	
1	HF680N03C- 800- 6 HF680N03C- 800- 6+Z1	2200	2440	600	700	100	900
	HF680N03C- 900- 6 HF680N03C- 900- 6+Z1						
	HF680N03C- 1000- 6 HF680N03C- 1000- 6+Z1						
	HF680N03C- 1200- 6 HF680N03C- 1200- 6+Z1						
	HF680N03C- 1400- 6 HF680N03C- 1400- 6+Z1	2200	2440	900	700	100	1500
	HF680N03C- 1600- 6 HF680N03C- 1600- 6+Z1						
	HF680N03C- 1800- 6 HF680N03C- 1800- 6+Z1						
	HF680N03C- 2000- 6 HF680N03C- 2000- 6+Z1						
2	HF680N03C- 800- 6+Z2	2200	2540	600	700	200	900
	HF680N03C- 900- 6+Z2						
	HF680N03C- 1000- 6+Z2						
	HF680N03C- 1200- 6+Z2						
	HF680N03C- 1400- 6+Z2	2200	2540	900	700	200	1500
	HF680N03C- 1600- 6+Z2						
	HF680N03C- 1800- 6+Z2						
	HF680N03C- 2000- 6+Z2						
3	HF680N03C- 800- 6+Z3	2200	2590	600	700	250	900
	HF680N03C- 900- 6+Z3						
	HF680N03C- 1000- 6+Z3						



5.5



HF680N15C- 630- 6 HF680N15C- 800- 6



		mm					kg
		H1	H2	W8	D1	Z	
1	HF680N15C- 630- 6 HF680N15C- 630- 6+Z1	2200	2440	400	700	100	700
	HF680N15C- 800- 6 HF680N15C- 800- 6+Z1						
	HF680N15C- 1600- 6 HF680N15C- 1600- 6+Z1	2200	2440	600	700	100	900
	HF680N15C- 2000- 6 HF680N15C- 2000- 6+Z1						
	HF680N15C- 2500- 6 HF680N15C- 2500- 6+Z1						
	HF680N15C- 3200- 6 HF680N15C- 3200- 6+Z1						
	HF680N15C- 4000- 6 HF680N15C- 4000- 6+Z1						
2	HF680N15C- 630- 6+Z2	2200	2540	400	700	200	700
	HF680N15C- 800- 6+Z2						
	HF680N15C- 1600- 6+Z2	2200	2540	600	700	200	900
	HF680N15C- 2000- 6+Z2						
	HF680N15C- 2500- 6+Z2						
	HF680N15C- 3200- 6+Z2						
	HF680N15C- 4000- 6+Z2						
3	HF680N15C- 630- 6+Z3	2200	2590	400	700	250	700
	HF680N15C- 800- 6+Z3						
	HF680N15C- 1600- 6+Z3	2200	2590	600	700	250	900
	HF680N15C- 2000- 6+Z3						
	HF680N15C- 2500- 6+Z3						
	HF680N15C- 3200- 6+Z3						

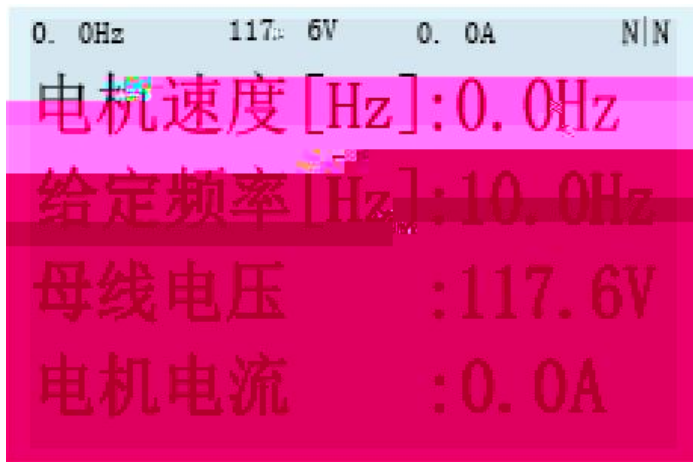
7.

7.1

7.2

ENTER
 RUN STOP
 LOCAL/REMOTE /

7.3

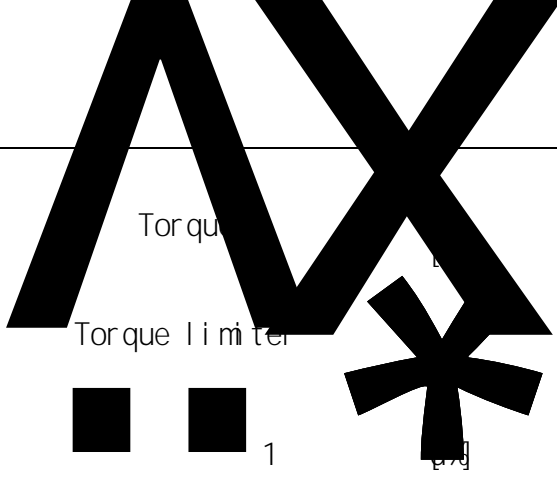
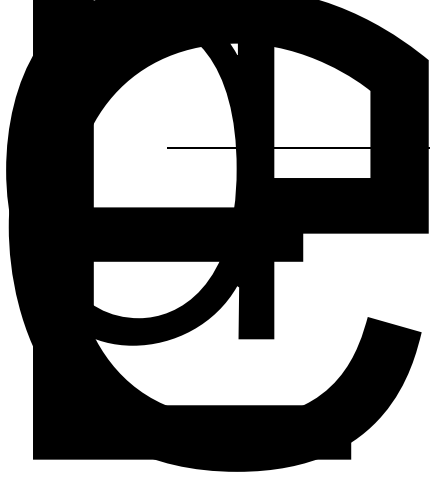


" " " " 2

	" _ "
	: V
	A
	N N W E

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

7. 4. 2



Torque

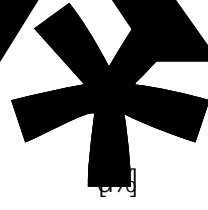
%

Torque Limiter

%

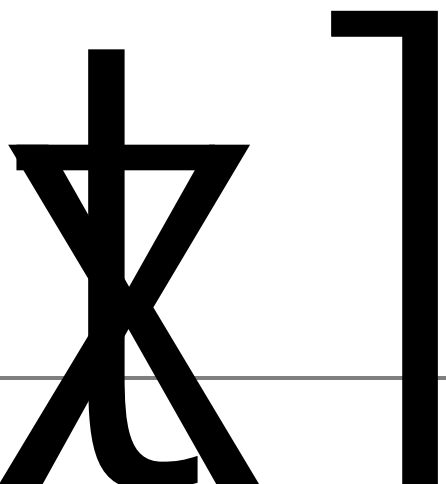


1



1

1



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

1

2

5

SUMM

"Enter"



8.

8.1

8.1.1

DI 1

DI 2

DI 3: 14

DI 4

DO1

DO2:

DO4

DO

DO5

1

690V

220V

PO. 1

"

"

"

"

" DO4A"

" DO4C"

" DO5A"

" DO5C"

DO1

PLC

1

P3. 0- P3. 7

0

PLC

DI

"

"

"

H L"

DI

1

P3. 0

1

P3. 1

20

P3. 2

14

LCL

P3. 3

5

P4. 1 DO1

2

P4. 2 D02	1	
P4. 3 D04	0	DO
P4. 4 D05	32	
P7. 0	180%	
P7. 4	200%	
P7. 12	1200V	
P8. 6	300s	!" 300s 0. 5s
P16. 0	690V	
P16. 2		400kW 400kW
P16. 4		400kW 353A
P16. 11	3	
P16. 12	3	3K
P24. 7	OV	ADJ

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

I GBT 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

2

690V 220V

<http://www.gui-de-edri-ve.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



0111

P16. 0 680V 102
 680V P16. 0 700V 104
 700V P16. 0 720V 107
 720V P16. 0 740V 110
 740V P16. 0 760V 1120V
 P16. 0 760V 1140V
 1060V P16. 0 690V P24. 7

20V 1060V
 690V " / " " "
 运行 103. 23
 I GBT 300s 103. 31 AFE
 49- 51Hz 103. 30 AFE

停止

P8. 6 0. 5s 运行 103. 23
 102. 54 102. 55 102. 56

停止

P N P N
 " / " " "
 P24. 21 0
 电容自学习 停止

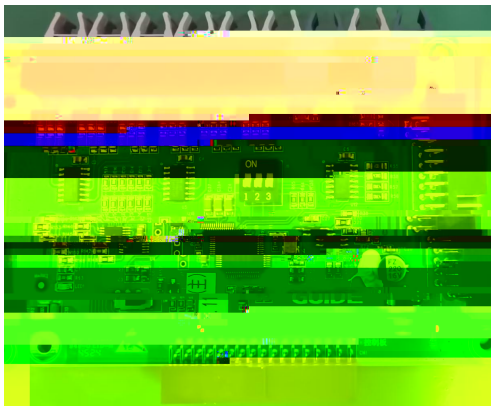
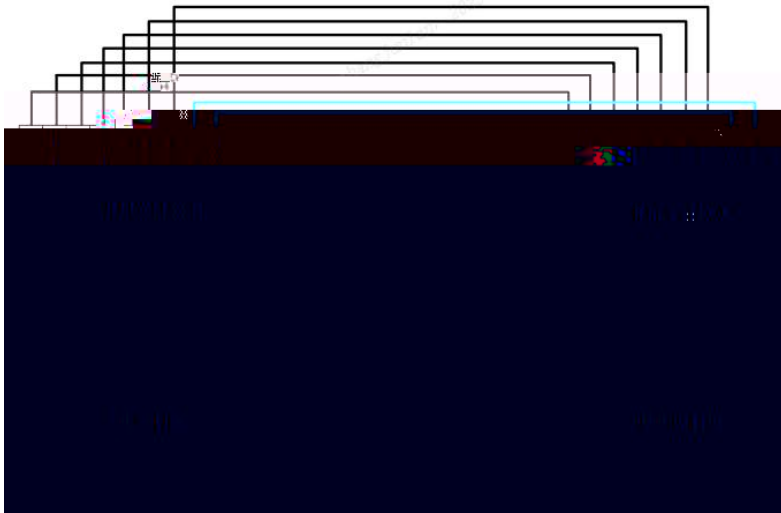
P24. 28 P24. 21 1

" / " " "

PLC

8. 1. 2

800kW



" "

PI N

PI N

P16. 0	690V		
P16. 2		1/2	800kW 800kW
P16. 4		1/2	800kW 670A
P16. 11	3		
P16. 12	3		3K

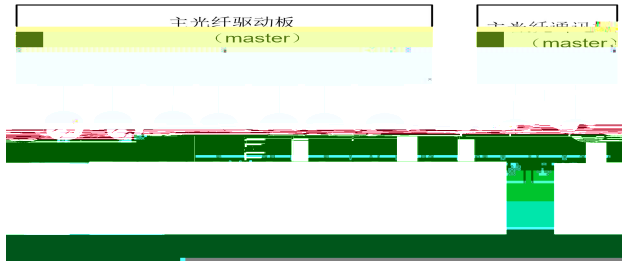
P2. 0 1
 P2. 3 1
 P3. 0 1
 P3. 1 20
 P3. 2 14
 P3. 3 5
 P4. 1 D01 2
 P4. 2 D02 1
 P4. 3 D04 0
 P4. 4 D05 32
 P7. 0 180%
 P7. 4 200%
 P7. 12 1200V

P8. 6 300s
 300s
 0. 5s

P16. 0 690V

P16. 2 800kW 800kW
 P16. 4 800kW 832A
 P16. 11 3





P2.0

2

P3.2

14

L-

P



P4. 1 001 2

P4. 2 002 1

P4. 3 00 0

20V

1060V

220V

220V

220V

101. 2

[W]

101. 77 CAN

@

101. 80 CAN

@

0

690V

" / " " "

运行

I GBT

300s

103. 31

49- 51Hz

103. 30

AFE

停止

P8. 6

0. 5s

运行

103. 23

102. 54

102. 55 102. 56

113. 11 A

102. 54

停止

P N

P N

" / " " "

P24. 21

0

电容自学习

停止

P24. 28

P24. 21

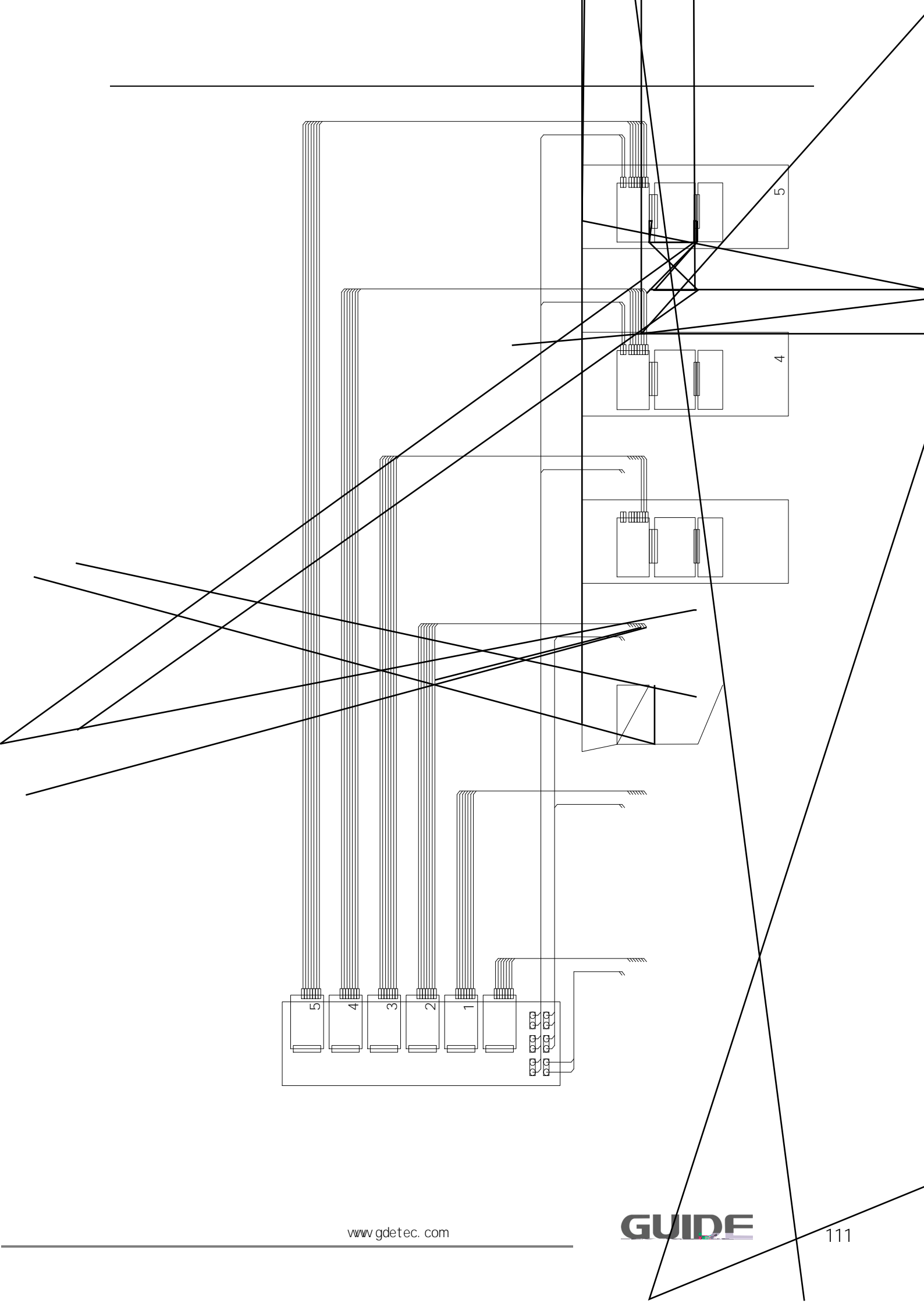
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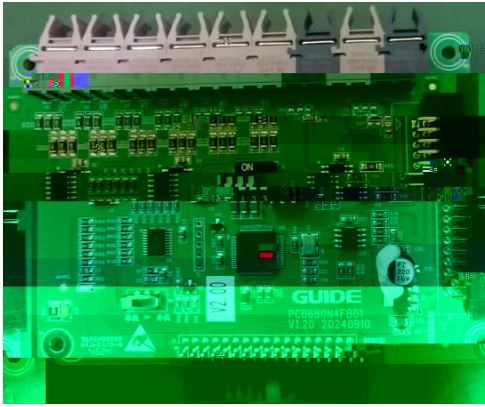
" / " " "

PLC

8 1. 3

1200KW





P24. 7	OV	ADJ V1. 12
--------	----	---------------

P16. 0 P24. 7 =P16. 0

+P24. 7

P16. 0 680V 1020V
 680V P16. 0 700V 1040V
 700V P16. 0 720V 1070V
 720V P16. 0 740V 1100V
 740V P16. 0 760V 1120V
 P16. 0 760V 1140V

1060V P16. 0 690V P24. 7

20V 1060V

220V 220V

101. 2 [W] 101. 77 CAN

@ 101. 80 CAN @ 0

380V " / " " "

AFE 2s

I GBT P8. 06 300 300s I GBT

103. 31 49- 51Hz 103. 30 AFE

P8. 06 0. 5s

103. 23 102. 54

102. 55 102. 56

	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. 46
4	113. 68	113. 69	113. 70	113. 65
5	113. 87	113. 88	113. 89	113. 84

P N

P N

" / " " " P24. 21 0

电容自学习

停止

P24. 28

P24. 21

1

" / " " "

PLC

8. 2



/

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

9.2

9.2.1

1		$\pm 5V$
2	U, V, W	
3		
4	PG	PG

9.2.2



9.2.3

6

9.2.4

P8. 0		[0] [1] [2] DP [3] MODBUS [4]	1
P8. 3		[0] [1]	1
P8. 6		0 300s	0
P8. 7		0 300s	0
P8. 10		[0] I/O [1] 1 [2] 2 [3] [4] DP [5] MODBUS [6]	3
P8. 14		0.1 10.0	1
P8. 15	1		100
P8. 16	1	P8. 15	3
P8. 17	2		200
P8. 18	2	P8. 15 P8. 17	4
P8. 33		0.1 10.0	1
P8. 34	1		100
P8. 35	1	P8. 34	3
P8. 36	2		200
P8. 37	2	P8. 34 P8. 36	4

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

4

"

"

"

"

P20. 98

P20. 98

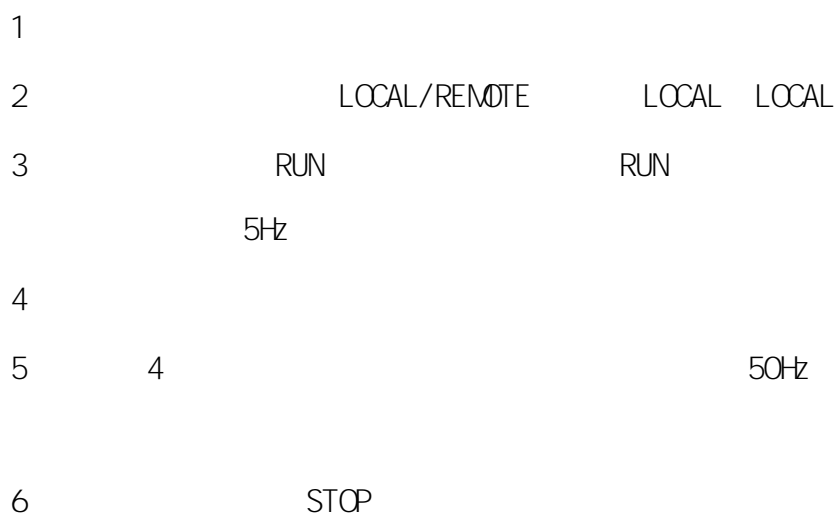
50%

9.2.6

HF680N

	7.5%
	5
	0% 50%
	1/5
	P16
	V
	/F

9.2.7



9.2.8



1
2

10.

10.1

10.1.1

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	

10.1.2

P3.0	1	0 32	1
P3.1	2	0 32	2
P3.2	3	0 32	5
P3.3	4	0 32	6
R304	5	0 32	7
P3.5	6	0" 32	871 " p

0		
1		
5		</RST
14		
15	. NC	
20		

10.1.3

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	[32]

0		
1		
2		ON
32		

10.1.4

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

P8. 6			0. 00 300. 00 [s]	0. 00 [s]	I GBT
-------	--	--	-------------------------	--------------	-------

10. 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

10. 1. 7 AFE

P24. 0		[0] [1] 1 [2] 2 [3] [4] DP [5] MODBUS [6]	0 6	0	AFE [0]
P24. 1	@		0 347	0	

P24. 2

P24. 28			0 6500 [nF]	0[nF]	
P24. 29			0 6500 [nF]	0	AFE
P24. 30			0 6.5 [nF]	0	AFE

11.

11.1

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	

11.2

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	

0		
1		

2

3

4 . NC

5

</RST

6 1 LC 0

7 2 1

8.2

8 3 2

9 4 3

10

11

12

13 . NC

14

15 . NC

16

17 0 1 0 00

18 1 1 01 2 10 3 11

19 4

20

AFE

21

22 FUNC 22

23 FUNC rC N

11. 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	
P4. 16	1		0 500	0	
P4. 17	2		0 500	0	
P4. 18	3		0 500	0	
P4. 19	4		0 500	0	

0

1

8. 3

2

ON

3

8. 3

4

5

6

1

7

2

[6] [9]

8

3

9

4

10

FUNC 10

11

12

13

14

15

16

18

1

2

19

2

3

20

3

4

21



P7. 54



22

11. 4

P5

P5. 0 0A1 1

[0]

[1] 0 +10V

[2] -10 +10V

[3] 0 20mA

[1] 0

0210 01011

001

0

		AI 2			
P5. 19	AI 2		0. 0 1000. 0 [ms]	25. 0 [ms]	
P5. 20	AI 2	AI 2	-10. 00 10. 00 [V]	0. 000 [V]	
P5. 21	AI 2	AI 2	-20. 00 20. 00 [mA]	0. 000 [mA]	
P5. 22	AI 2	AI 2	-10. 00 10. 00 [V]	0. 000 [V]	
P5. 23	AI 2	AI 2	0. 00 20. 00 [mA]	0. 000 [mA]	
P5. 24	AI 2	AI 2	-300. 0 300. 0 [%]	0. 0 [%]	
P5. 25	AI 2	AI 2	-10. 00 10. 00 [V]	10. 000 [V]	
P5. 26	AI 2	AI 2	0. 00 20. 00 [mA]	20. 000 [mA]	
P5. 27	AI 2	AI 2	-300. 0 300. 0 [%]	100. 0 [%]	

11. 5

P6

P6. 0	AO1		7-1	0	14	2
P6. 1			1	0	1000	0
P6. 2	AO1		AO1	- 300. 0	300. 0	0. 0
				[%		[%
P6. 3	AO1		AO1	- 300. 0	300. 0	100. 0
				[%		[%
P6. 4	AO1	[mA V]	AO1	0. 0	100. 0	0. 0
				[%		[%
P6. 5	AO1	[mA V]	AO1	0. 0	100. 0	100. 0
				[%		[%
P6. 6	AO1		AO1	- 100. 00	100. 00	0. 00
				[%		[%
P6. 7	AO1		AO1			
			[13]			

(P6. 0

P6. 21	AO2	AO2 (P6. 14 [13])	0. 0 100. 0 [%]	0. 0 [%]	
P6. 22	AO2	AO1	0. 0 1000. 0 [ms]	10. 0 [ms]	

7-1

BY, D. D. i

P7. 22	[4]	4	100.0 720.0 [%]	120.0 [%]	
P7. 23	1 M	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. 52		[0] [1] PT1 [2] PT2 [3] PT1, PT2	0 3	0	
P7. 53			30 200 []	110 []	
P7. 54			30 200 []	90 []	

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. 58	STO	[0] [1]	0 1	0	
P7. 59		[0] [1]	0 1	1	
P7. 60			0.10 3.00 [s]	0.30 [s]	
P7. 61	1	[0] [1]	0 1	0	
P7. 62	2	[0] [1]	0 1	0	
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]	

110.7 1 P8

P8. 18

2

P8. 15

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]	
P8. 54				0.0 300.0 [%]	0.0 [%]	
P8. 55		[0] [1]		0 1	0	
P8. 56				0.00 300.00 [s]	3.00 [s]	
P8. 57		[0] [1]		0 1	1	
P8. 58				0.00 300.00 [s]	1.50 [s]	

11.8

2

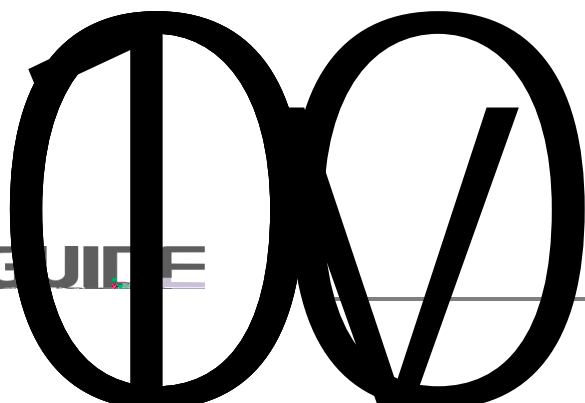
P9

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 [%]	

11.9 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	0.00
			[s]	[s]
P10.7			0.00 300.00	0.00
			[s]	[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	3.00
			[s]	[s]
P10.17			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	30000	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]
		[0]				
		[1] PROFIBUS				
P10. 32		[2] MODBUS		0	3	0
		[3]				
P10. 33				0.1	10.0	1.0
P10. 34	1			0.0	300.0	
				[%]		



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]	

11. 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	4.00
				[s]		[s]
P11. 38	3			0.0	300.0	240.0
				[%]		[%]
P11. 39	3	P11. 36	P11. 38	0.0	300.0	7.00
				[s]		[s]
P11. 40	4			0.0	300.0	300.0
				[%]		[%]
P11. 41	4	P11. 38	P11. 40	0.0	300.0	10.00
				[s]		[s]
P11. 42	5			0.0	300.0	300.0
				[%]		[%]
P11. 43	5	P11. 40	P11. 42	0.0	300.0	10.00
				[s]		[s]
P11. 44	6			0.0	300.0	300.0
				[%]		[%]
P11. 45	6	P11. 42	P11. 44	0.0	300.0	10.00
				[s]		[s]
P11. 46	7			0.0	300.0	300.0
				[%]		[%]
P11. 47	7	P11. 44	P11. 46	0.0	300.0	10.00
				[s]		[s]
P11. 48	8			0.0	300.0	300.0
				[%]		[%]
P11. 49	8	P11. 46	P11. 48	0.0	300.0	10.00
				[s]		[s]
P11. 54				0.0	300.0	0.0
				[%]		[%]
P11. 55		[0]		0	1	0
		[1]				
P11. 56				0.00	300.00	3.00
				[s]		[s]
P11. 57		[0]		0	1	1
		[1]				
P11. 58				0.00	300.00	1.50
				[s]		[s]

11. 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. 37			0.00 2.00 [s]	0.50 [s]	

11. 12 2 P13

P13. 0		[0] [1]	0 1	1	
P13. 1		[0] [%] [1] [Hz] [2] [rpm]	0 2	1	
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		0.0 3000.0	50.0	
P13. 7	6		0.0 3000.0	50.0	
P13. 8	7		0.0 3000.0	50.0	
P13. 9	8		0.0 3000.0	50.0	
P13. 10	9		0.0 3000.0	50.0	

P13. 1	10	0.0	3000.0	50.0
P13. 2	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				

b in V 31.02.09

50'0

11. 13

3

P14

P14. 0

[0]

0 1

1

[1]

P14. 1

[0] [%]

0 2

1

[1] [Hz]

[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

M0

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]	

11. 15 1 V/F P16

P16. 0

P16. 22

0. 00 100. 00
[s]

	[0]			
P16.48	[1] PID 1		0 3	0
	[2] PID 2			
	[3]			
P16.49	@		0 300	0
P16.50		0.00 300.00		0.00
		[s]		[s]
P16.51		0.0 150.0		70.0
		[%]		[%]
P16.52		0.00 5.00		0.00
		[Hz]		[Hz]
P16.54		0.00 300.00		0.00
		[s]		[s]
P16.55		0.0 150.0		75.0
		[%]		[%]
P16.56		0.00 5.00		0.00
		[Hz]		[Hz]
P16.59		0.0 1000.0		
		[E]		

11. 16 2 V/F P17

P17. 0				320 460	380
			-	[V]	[V]
P17. 2				0. 0 4000. 0	b
] S]	[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]	[kHz]
			[0] V/F		
P17. 14 V/F			[1] V/F	0 3	0
			[2]		
P17. 15			[0]	0 1	0
			[1]		
P17. 16				2 500	500
				[ms]	[ms]
			[0]		
P17. 17 V/F			[1]		

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	n				

no'o

P17. 48	[0] [1] P [2] P [3]	1 2	0 3	
P17. 49	@		0 300	0
P17. 50			0.00 300.00	0.00
			[s]	[s]
P17. 51			0.0 150.0	70.0
			[%]	[%]
P17. 52			0.00 5.00	0.00
			[Hz]	[Hz]
P17. 54			0.00 300.00	0.00
			[s]	[s]
P17. 55			0.0 150.0	75.0
			[%]	[%]
P17. 56			0.00 5.00	0.00
			[Hz]	[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
			[%]	[%]

11. 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	0.00
			[s]		[s]
P18. 23		V/F	0.00	300.00	0.00
			[Hz]		[Hz]
P18. 24		V/F	0.00	300.00	50.00
			[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	-00(,	

	[0]			
P18. 48	[1] P I D	1	0 3	0
	[2] P I D	2		
	[3]			
P18. 49	@		0 300	0
P18. 50			0.00 300.00	0.00
			[s]	[s]
P18. 51			0.0 150.0	70.0
			[%]	[%]
P18. 52			0.00 5.00	0.00
			[Hz]	[Hz]
P18. 54			0.00 300.00	0.00
			[s]	[s]
P18. 55				

11. 18 4 V/F P19

PR

P19. 22		0. 00 100. 00	0. 00
		[s]	[s]
P19. 23	V/F	0. 00 300. 00	0. 00
		[Hz]	[Hz]
P19. 24	V/F	0. 00 300. 00	50. 00
		[Hz]	[Hz]
P19. 25E			



11. 19 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 20. 2

P20.13			20.0	500.0	100.0
			[ms]		[ms]
P20.14		1	0	60000	1024
P20.15	[0]				
	[1]	.0 v	(,		

P20. 31

0.0 100.0 5.0
[% [%

P20. 32

0.0 100.0 5.0
[% [%



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. 57		[0]		0	1	0
		[1]				
P20. 58				0. 0	125. 0	100. 0
				[%]		[%]
P20. 59				1. 0	25. 0	2. 5
				[%]		[%]
P20. 60	DROOP	0	DROOP	0. 0 -	100. 0	0. 0
				[%]		[%]
P20. 61	DROOP		DROOP	30	2000	50
				[ms]		[ms]
P20. 62				0. 0	1000. 0	100. 0
				[%]		[%]
P20. 63				0. 0	1000. 0	100. 0
				[%]		[%]
P20. 66		1	1	0. 0	1000. 0	100. 0
				[%]		[%]
P20. 67		2	2	0. 0	1000. 0	100. 0
				[%]		[%]
P20. 69				0. 00	2. 00	1. 00
				[%]		[%]
P20. 70				0. 00	2. 00	1. 00
				[%]		[%]
P20. 71		[0]		0	1	0
		[1]				
P20. 72		[0]		0	1	1
		[1]				
P20. 73		[0] × 1		0	1	0
		[1] × 10				
P20. 74				0. 00	650. 00	0. 00
				[nChm]		[nChm]
P20. 75				0. 70	1. 00	0. 90
P20. 76						

P20. 77	2	2	90. 0 110. 0 [%]	100. 0 [%]	
P20. 78			0. 00 650. 00 [nOhm]	0. 00 [nOhm]	
P20. 79			0. 00 65. 50 [mH]	0. 000 [mH]	
P20. 80	1	1	0. 800 1. 350	1. 140	
P20. 81	2	2	0. 800 1. 350	0. 940	
P20. 82	3	3	0. 800 1. 350	1. 080	
P20. 83	4	4	0. 800 1. 350	0. 950	
P20. 84			0. 00 655. 00 [mH]	0. 00 [mH]	
P20. 85	85%	85%	40. 0 150. 0 [%]	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 [s]	0. 75 [s]	
P20. 99			0. 00 10. 00 [%]	0. 00 [%]	

1 0

7 0

7 0

300.0 0.0

4 [%

300 0

4
0 0



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	DROOP		0	DROOP		0.0
				[%		[%
P21. 61	DROOP		DROOP			
			.61			



11. 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			- 300. 0 300. 0	0. 0
			[%]	[%]
P22. 4	@		0 300	0
P22. 5			0 1000	0
			[ms]	[ms]
P22. 6			0. 0 200. 0	100. 0
			[%]	[%]
		[0]		
		[1]	P22. 8	
		P22. 9		
		[2]	1	
P22. 7		[3]	2	0 7
		[4]		0
		[5] DP		
		[6] MODBUS		
		[7]		
P22. 8		P22. 6		

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

O

P22. 77	2	2	90.0 110.0 [%]	100.0 [%]	
P22. 78			0.00 650.00 [nOhm]	0.00 [nOhm]	
P22. 79			0.00 65.50 [mH]	0.000 [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	1.080	
P22. 83	4	4	0.800 1.350	0.950	
P22. 84			0.00 655.00 [mH]	0.00 [mH]	
P22. 85	85%	85%	40.0 150.0 [%]	108.0 [%]	
P22. 86	87.5%	87.5%	40.0 150.0 [%]	106.5 [%]	
P22. 87	90%	90%	40.0 150.0 [%]	105.0 [%]	
P22. 88	92.5%	92.5%	40.0 150.0 [%]	103.5 [%]	
P22. 89	95%	95%	40.0 150.0 [%]	102.0 [%]	
P22. 90	102.5%	102.5%	40.0 150.0 [%]	99.0 [%]	
P22. 91	105%	105%	40.0 150.0 [%]	96.5 [%]	
P22. 92	110%	110%	40.0 150.0 [%]	93.0 [%]	
P22. 93	115%	115%	40.0 150.0 [%]	88.5 [%]	
P22. 94	120%	120%	40.0 150.0 [%]	83.0 [%]	
P22. 95	125%	125%	40.0 150.0 [%]	77.0 [%]	
P22. 96	130%	130%	40.0 150.0 [%]	70.5 [%]	
P22. 97	135%	135%	40.0 150.0 [%]	63.5 [%]	
P22. 98		()	0.01 300.00 [s]	0.75 [s]	
P22. 99			0.00 10.00 [%]	0.00 [%]	

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]		0 1	0
	[1]			
P23. 16			0.0	

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] [1]	0 1	0	
P23. 58			0.0 125.0 [%]	100.0 [%]	
P23. 59			1.0 25.0 [%]	2.5 [%]	
P23. 60	DROOP	0 DROOP	0.0 100.0 [%]	0.0 [%]	
P23. 61	DROOP	DROOP	30 2000 [ms]	50 [ms]	
P23. 62			0.0 1000.0 [%]	100.0 [%]	
P23. 63			0.0 1000.0 [%]	100.0 [%]	
P23. 66	1	1	0.0 1000.0 [%]	100.0 [%]	
P23. 67	2	2	0.0 1000.0 [%]	100.0 [%]	
P23. 69			0.00 2.00 [%]	1.00 [%]	
P23. 70			0.00 2.00 [%]	1.00 [%]	
P23. 71		[0] [1]	0 1	0	
P23. 72		[0] [1]	0 1	1	
P23. 73		[0] × 1 [1] × 10	0 1	0	
P23. 74			0.00 650.00 [nChm]	0.00 [nChm]	
P23. 75			0.70 1.00	0.90	
P23. 76	1	1	90.0 110.0 [%]	100.0 [%]	
P23. 77	2	2	90.0 110.0 [%]	100.0 [%]	

11. 23

P33

P33. 0	Profi bus	[0] [1]	0 1	0	
P33. 1		PLC	1 255	1	
P33. 2		[0] PPO 1 [1] PPO 2 [2] PPO 5 [3] GUI DE	0 3	2	
P33. 3			0 16	14	
P33. 4			0 16	14	
P33. 5		[0] [1] [2] [3]	0 3	0	
P33. 6			0 1000 [ms]	50 [ms]	
P33. 7		[0] [1]	0 1	0	
P33. 8			0.0 10.0 [s]	3.0 [s]	
P33. 13	[V0]	7-2	0 37	0	
P33. 14	[V0]	[0] × 1 [1] × 10 [2] × 100 [3] × 1000 [4] × 10000	0 4	0	
P33. 15	[W1]	7-2	0 37	0	
P33. 16	[W1]	[0] × 1 [1] × 10 [2] × 100 [3] × 1000 [4] × 10000	0 4	0	
P33. 17	[V0]	7-2	0 37	0	

P33. 31	[WØ]	7-2	0 37	0	
P33. 32	[WØ]	[0] × 1 [1] × 10 [2] × 100 [3] × 1000 [4] × 10000	0 4	0	
P33. 33	[W0]	7-2	0 37	0	
P33. 34	[W0]	[0] × 1 [1] × 10 [2] × 100 [3] × 1000 [4] × 10000	0 4	0	
P33. 35	[W1]	7-2	0 37	0	
P33. 36	[W1]	[0] × 1 [1] × 10 [2] × 100 [3] × 1000 [4] × 10000	0 4	0	
P33. 37	[W2]	7-2	0 37	0	
P33. 38	[W2]	[0] × 1 [1] × 10 [2] × 100 [3] × 1000 [4] × 10000	0 4	0	
P33. 39	[W3]	7-2	0 37	0	
P33. 40	[W3]	[0] × 1 [1] × 10 [2] × 100 [3] × 1000 [4] × 10000	0 4	0	
P33. 41	[W4]	7-2	0 37	0	
P33. 42	[W4]	[0] × 1 [1] × 10 [2] × 100 [3] × 1000 [4] × 10000	0 4	0	
P33. 43	[W5]	7-2	0 37	0	

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

P33. 62	[W8]	[0] × 1 [1] × 1000 [2] × 100 [3] × 1000 [4] × 1000 [5] [%] × 1 [6] [%] × 10 [7] [%] × 100	0 7	0
P33. 63	[W9]	7-3 [0] × 1 [1] × 10 [2] × 100 [3] × 1000 [4] × 10000 [5] [%] × 1 [6] [%] × 10 [7] [%] × 100	0 48	13
P33. 64	[W0]	[0] × 1 [1] × 10 [2] × 100 [3] × 1000 [4] × 10000 [5] [%] × 1 [6] [%] × 10 [7] [%] × 100	0 7	0
P33. 65	[W0]	7-3 [0] × 1 [1] × 10 [2] × 1000 [3] × 1000 [4] × 10000 [5] [%] × 1 [6] [%] × 10 [7] [%] × 100	0 48	40
P33. 66	[W0]	7-3 [0] × 1 [1] × 10 [2] × 1000 [3] × 1000 [4] × 10000 [5] [%] × 1 [6] [%] × 10 [7] [%] × 100	0 7	6
P33. 67	[W1]	7-3	0 6	



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 @32bi t
13	1 @32bi t
14	2 @32bi t
15	3 @32bi t
16	4 @32bi t
17	5 @32bi t
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 @32bi t
8	1 @32bi t
9	2 @32bi t
10	3 @32bi t
11	4 @32bi t
12	5 @32bi t
13	[32]
14	[32]
15	32bi t_MSW
16	32bi t_LSW
17	
18	
19	
20	[rpn]
21	[rpn]
22	
23	
24	
25	
26	
27	A
28	B

29	C
30	
31	
32	
33	1
34	2
35	
36	
37	
38	
39	
40	
41 48	AV22 29

12

12.1

V01	SYS_NOT_RDY	(Ready)	
V02	NO_DRV_ENABLE	[]	P3
V03	LOCAL_EM	[]	P3
V04	REMOTE_EM	[]	P3
V06	O.T	P7.14()	
V09	DP P/B ALARM	DP	DP
V10	MODBUS MODBUS ALARM	Modbus	Modbus
V15	PARAMETER ERROR		
V18	Temp_Sensing Fail		
V20	SLV_NOT_RDY		
V21	1 SLV1_CAN_ERR	1	1
V22	2 SLV2_CAN_ERR	2	2
V23	3 SLV3_CAN_ERR	3	3
V24	4 SLV4_CAN_ERR	4	4
V25	5 SLV5_CAN_ERR	5	5

12 2

[E113]	MP		
[E114]	MP		P7. 19
[E115]	OS	P7. 19	
[E116]	SLVC Fail	P7. 23	
[E117]	MOTOR STALL		P20. 14 P20. 15
[E118]	PG1 ERROR		r

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[E138]	TEMP_SENSING FAIL	
[E139]	Pre_Charging Fail	P7.95
[E140]	Line UV	
[E141]	Line OPEN	
[E142]	Line Detection Error	
[E143]	Line SWFail	DI
[E144]	Line SWSHORT	
[E145]	(AFE) Line OV	P16.0
[E146]	(AFE) Line Over_Freq	
[E147]	2 PG2 ERROR	2
[E152]	U IGBT	IGBT IGBT
[E154]	V IGBT	IGBT IGBT
[E155]	W IGBT	IGBT IGBT
[E156]	Hardware OC	IGBT IGBT
[E158]	Motor OT	
[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	CV0. 4
[E200]	LOCAL_EM	[] P3
[E201]	REMOTE_EM	[] P3
[E202]	Mdbus MODBUS EMERGENCY	Mdbus
[E203]	DRIVE DISABLED	DP
[E210]	Panel Error	
[E220]	CRC MEMORY CRC ERR	
[E221]	PARAMETER ERROR	
[E231]	ST01	ST01 " Low , ST01/ST02
[E232]	ST02	ST02 " Low , ST01/ST02
[E233]	ST03	ST01/ST02 " Low

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13.

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1. CMS
2.
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13.1

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F

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	1. 2. 3.	1. 2. 3.
	1. 2.	1. 2.
	1. 2.	1. 2.



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- 1 40 ; È Ñ
- 2 80%
- 3 24 /

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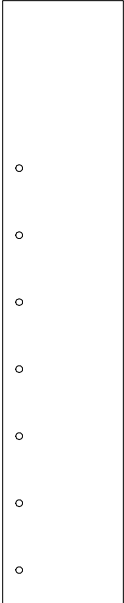
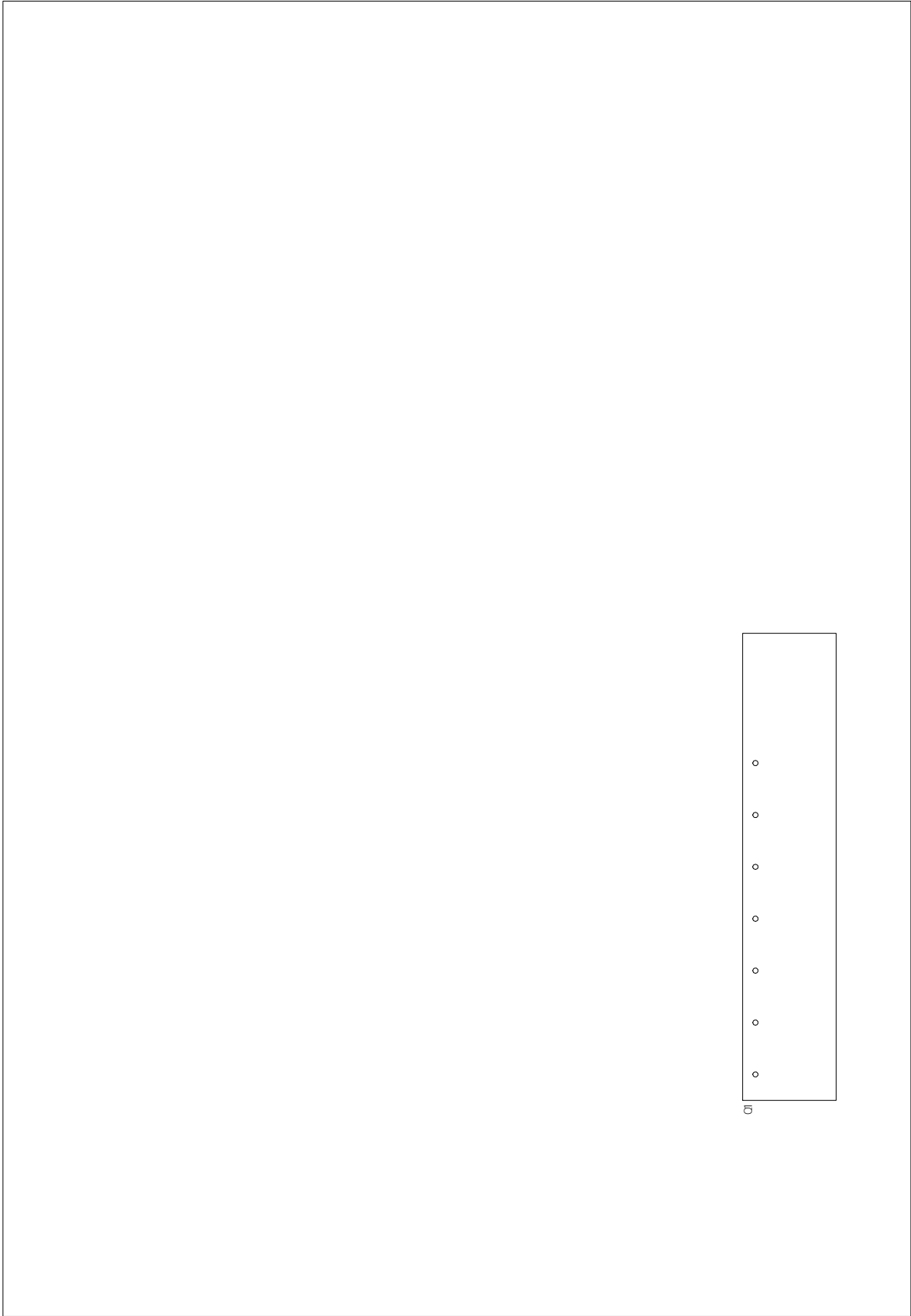
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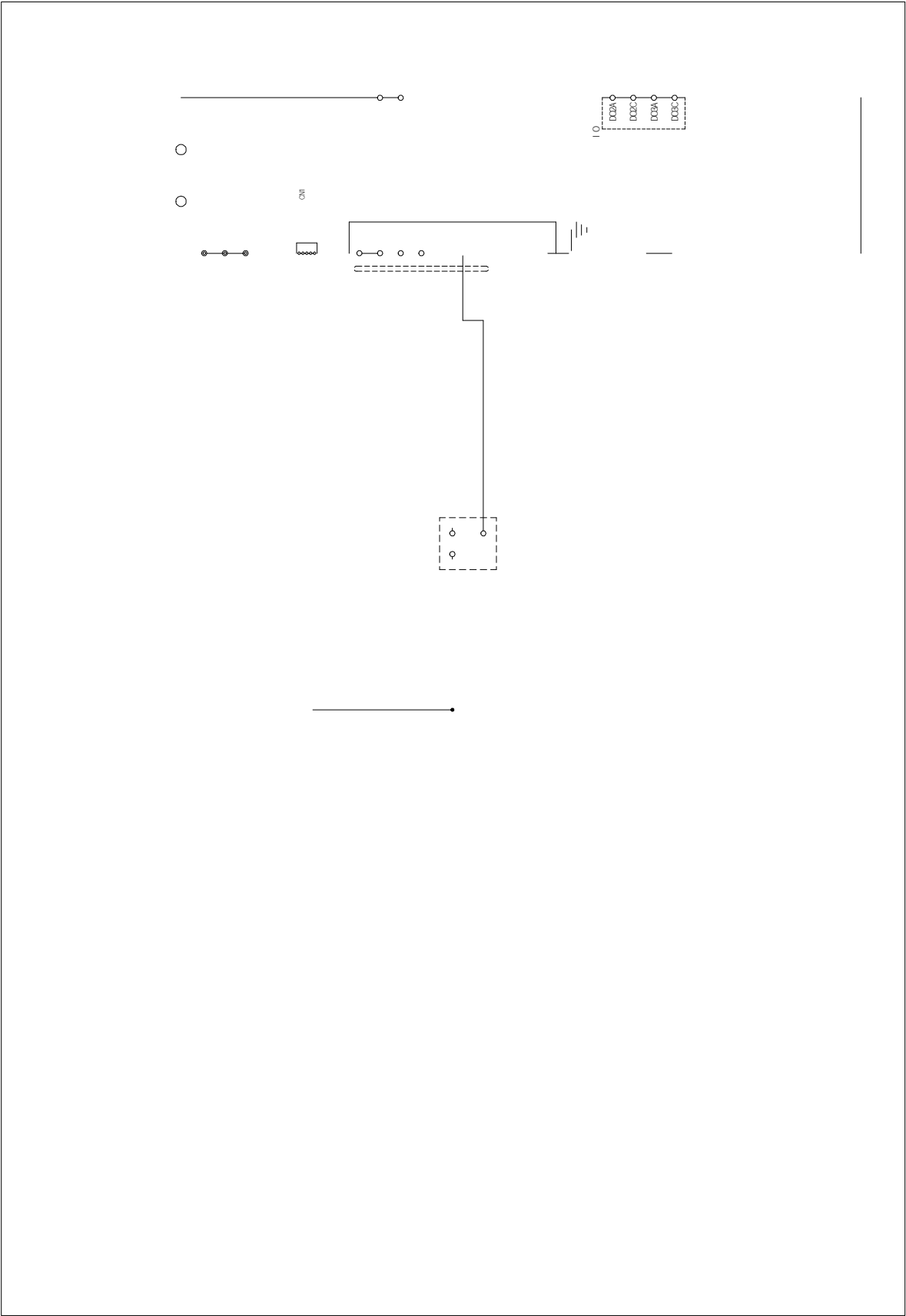
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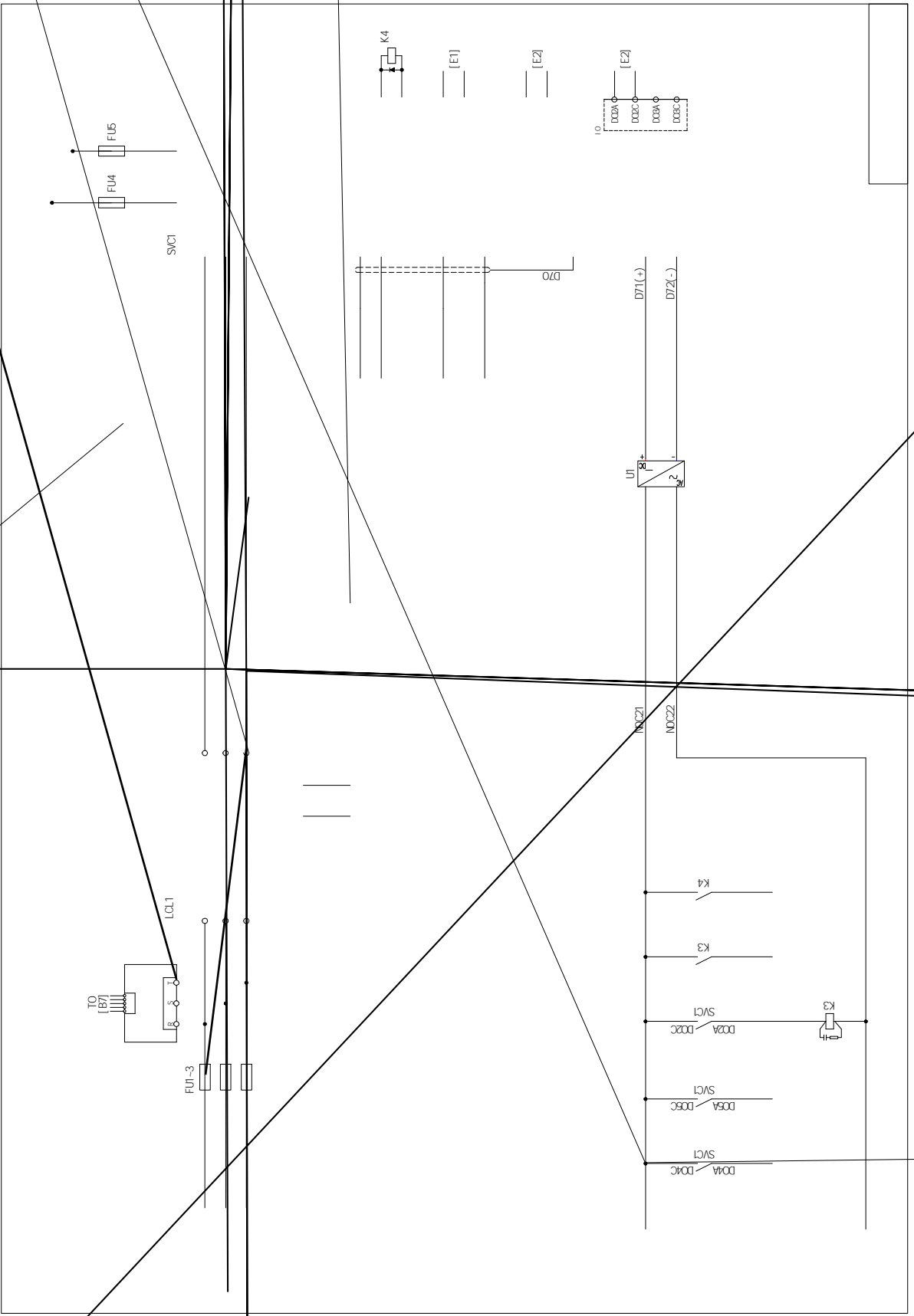
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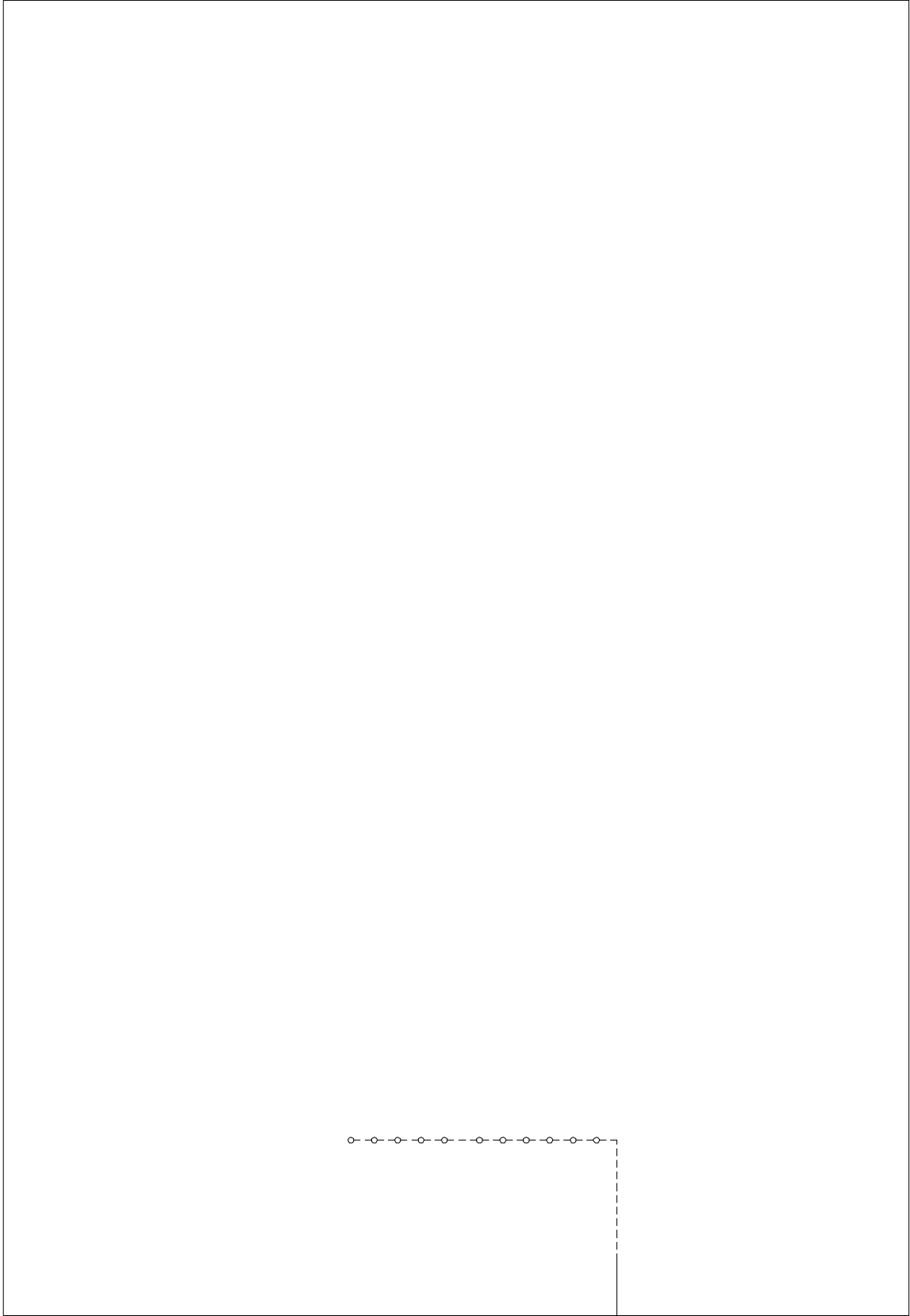
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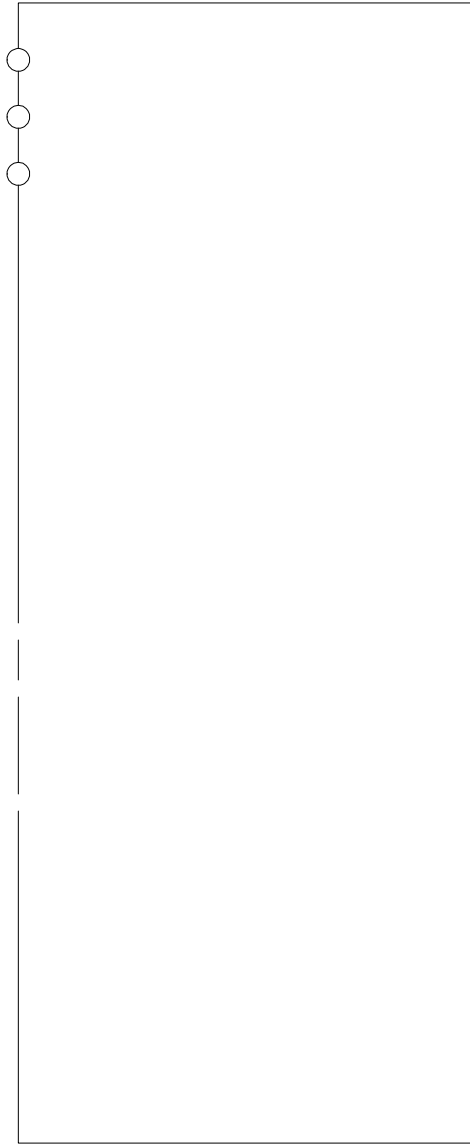


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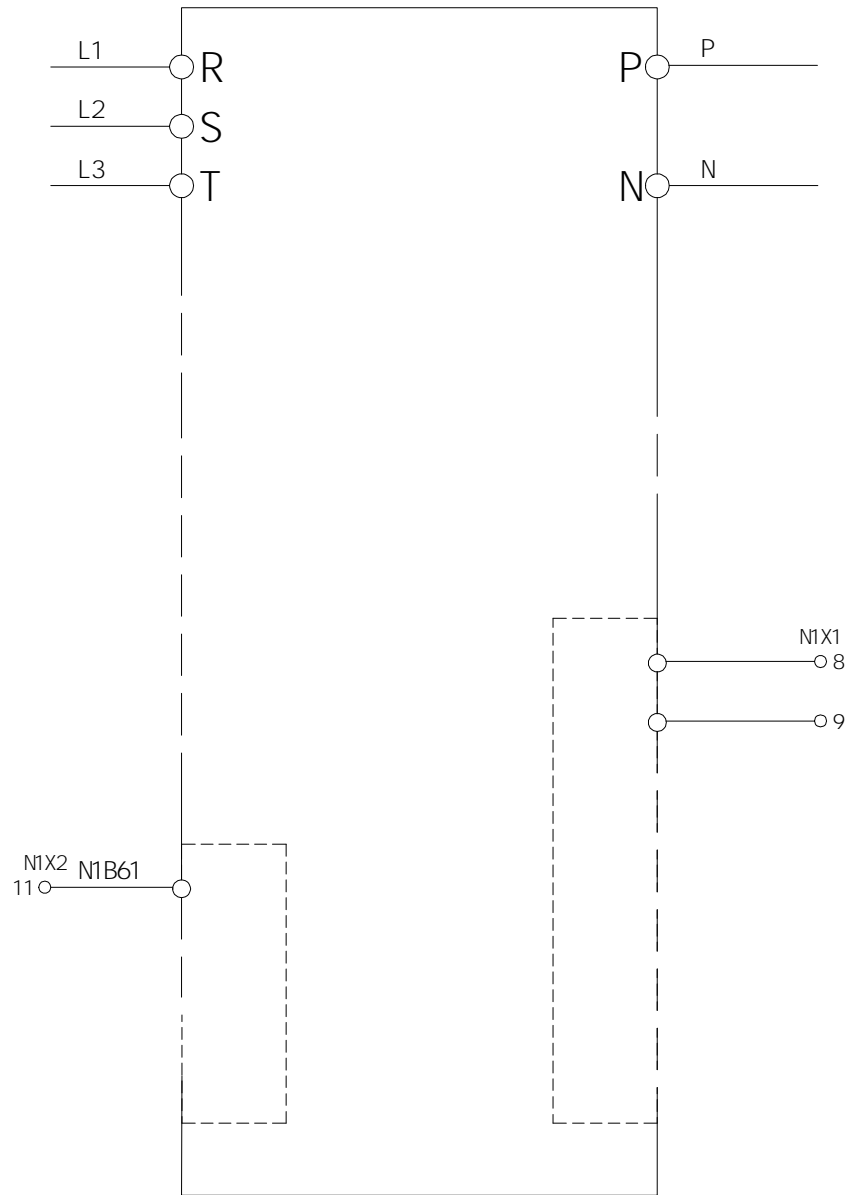








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