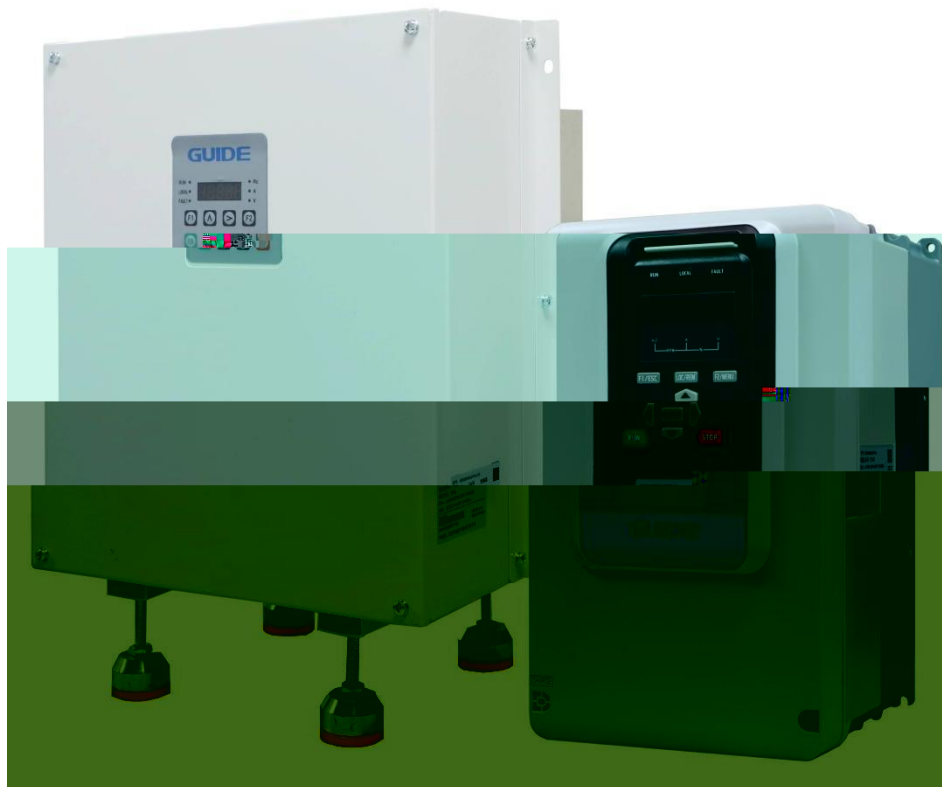


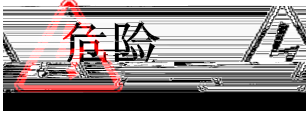


GF630N04

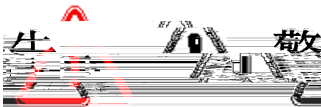
1

2

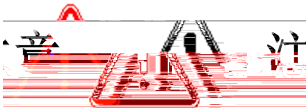
3



10



U V W



,

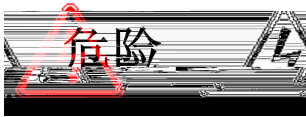




3

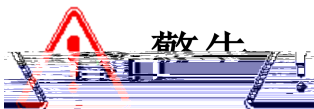
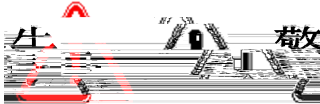


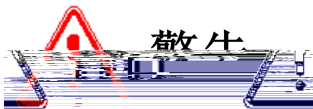
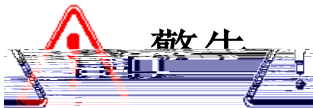
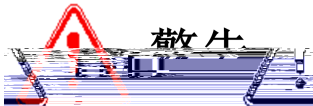
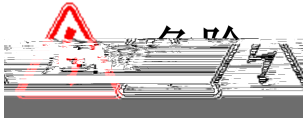
IEC



10

ESD





1

RCM

RCD

RCM

B

RCD

RCD

RCD

1

1.1

1.2

1.3

1.4

1.5

1.6

2

2.1

2.2

2.3

2.4

2.5

2.6 EMC

3

3.1

3.2

4

4.1

4.2 LED

5

5.1

5.2

5.3

5.4

5.5

6

6.1 P0

6.2 P2

6.3 P3

6.4 P4

6.5 P5

6.6 P6

6.7 P7

6.8 P8

6.9 P9

6.10 V/F 1 P10

6.11 2 P11

6.12 1 P12

6.13 2 P13

6.14 P14

6.15 PID P15

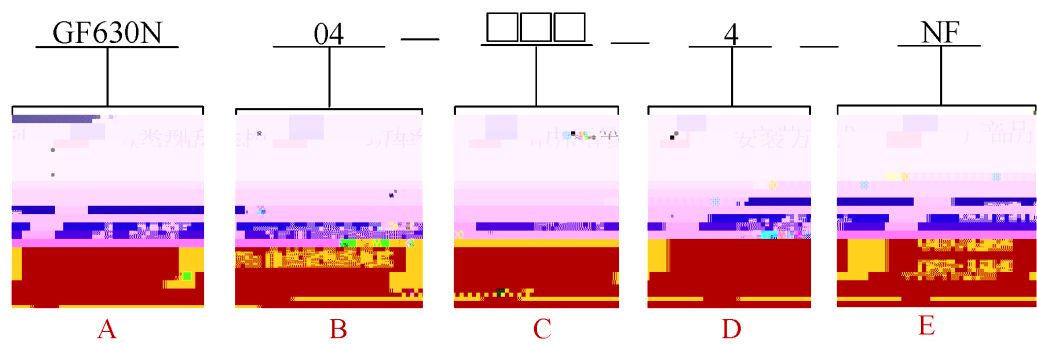
6.16 P16

6.17 P19

6.18	P20		
6.19		P21	
6.20	P23		
7			
7.1	P0		
7.2	P2		
7.3		P3	
7.4		P4	
7.5			P5
7.6			P6
7.7	P7		

1

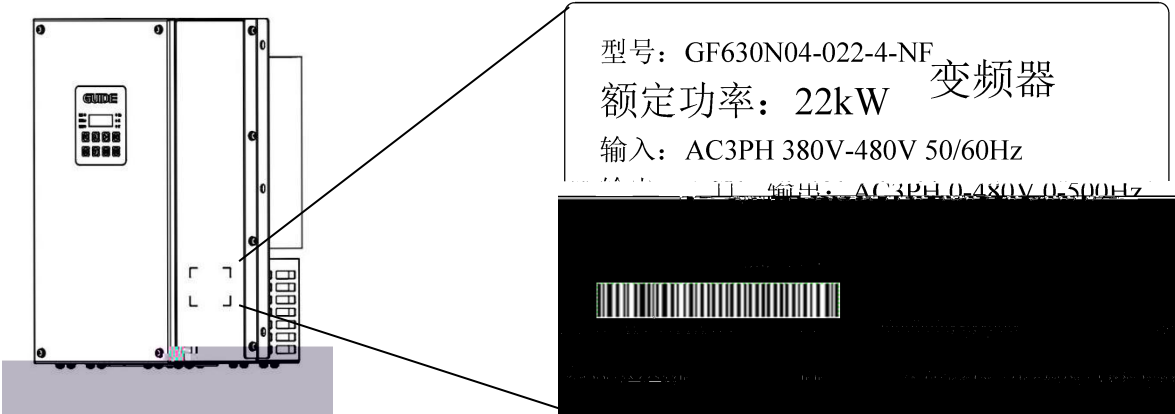
1.1



A	GF630N
B	04
C	022:22kW; 037:37kW; 045:45kW; 055:55kW;
D	4: 380V
E	NF: NFG:

GF630N04

22kW



GF630N04-022-4 GF630N04 22kW 380V

AC

3PH

380V-480V 50/60Hz

0-480V 0-500Hz

NF

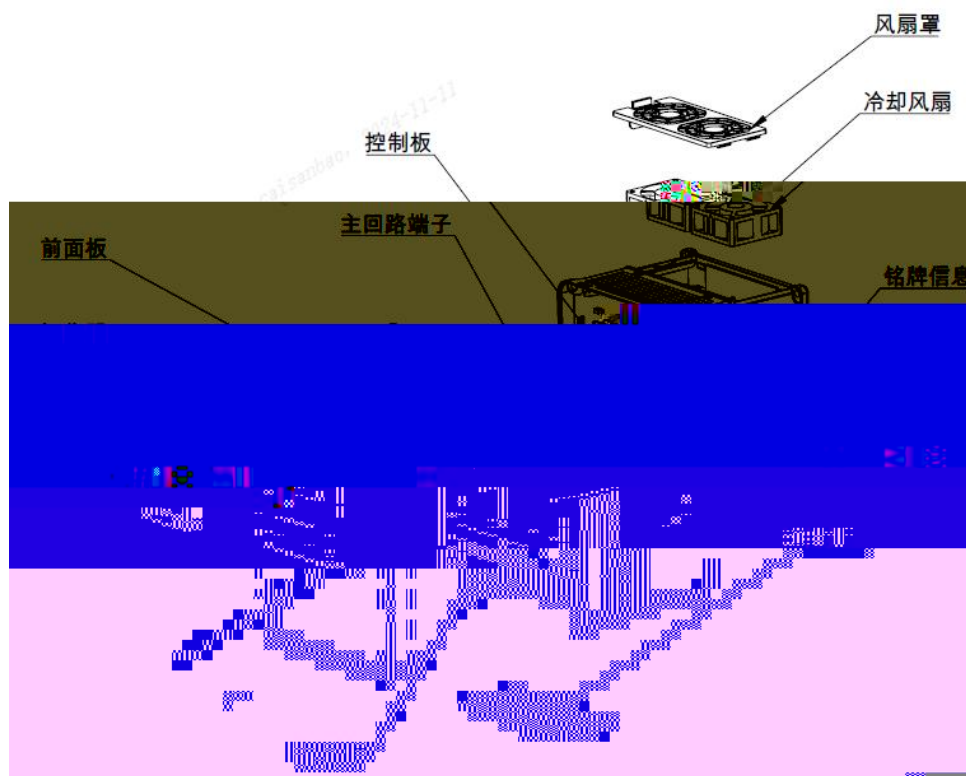
GF630N04			
	[A]	[kW]	
GF630N04-022-4	160	2.2-3	A1
GF630N04-037-4	240	3.7-4.5	
GF630N04-045-4	340	5.5-7.5	
GF630N04-055-4	480	5.5-7.5	A2
GF630N04-022-4-NF	160	2.2-3	A3
GF630N04-037-4-NF	240	3.7-4.5	
GF630N04-045-4-NF	340	5.5-7.5	
GF630N04-022-4-NFG	160	2.2-3	A4
GF630N04-037-4-NFG	240	3.7-4.5	
GF630N04-045-4-NFG	340	5.5-7.5	
GF630N04-055-4-NF	480	5.5-7.5	A5
GF630N04-055-4-NFG	480	5.5-7.5	A6

1

2 45kW 5.5-7.5kW , 7.5kW

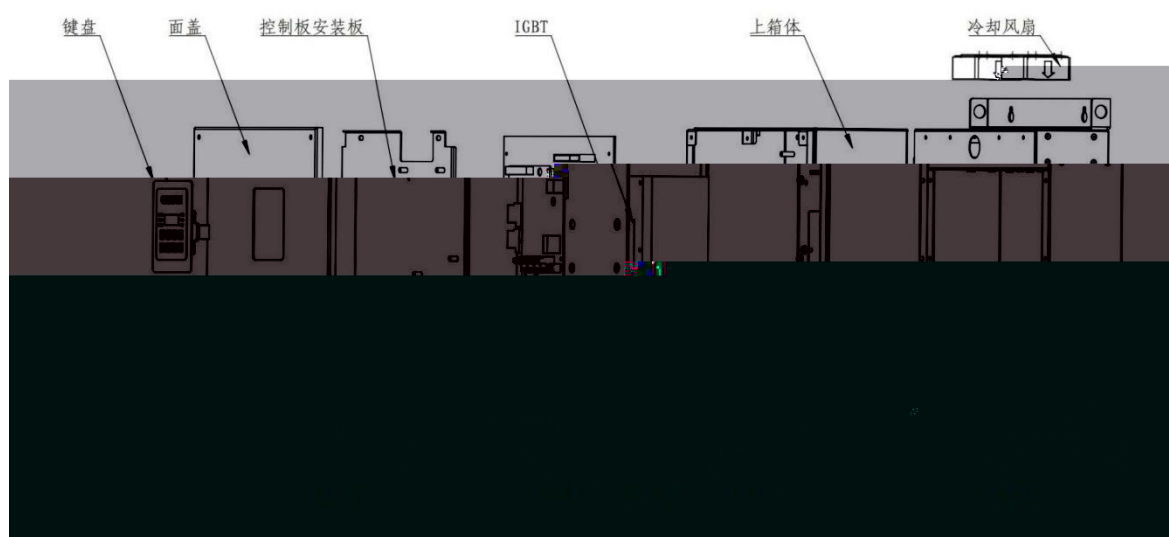
1.2

GF630N04



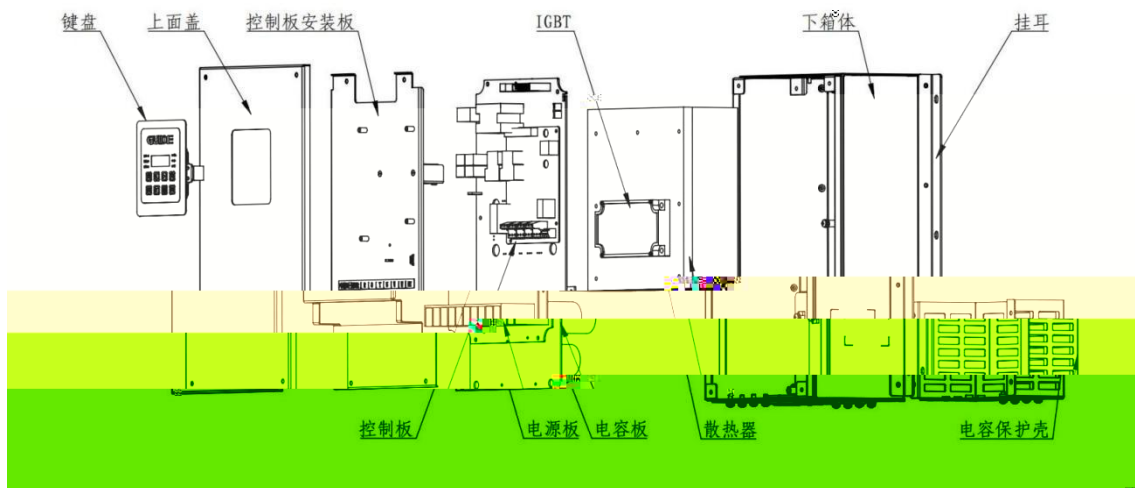
A1

380V 480V 22kW 45kW



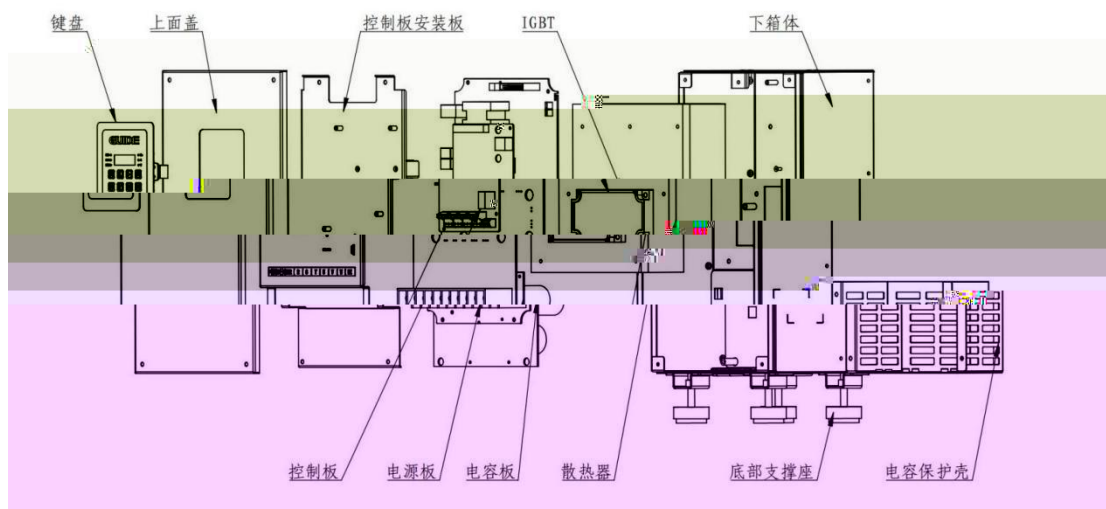
A2

380V 480V 55kW



A3/A5

380V 480V 22-55kW



A4/A6

380V 480V 22kW-55kW

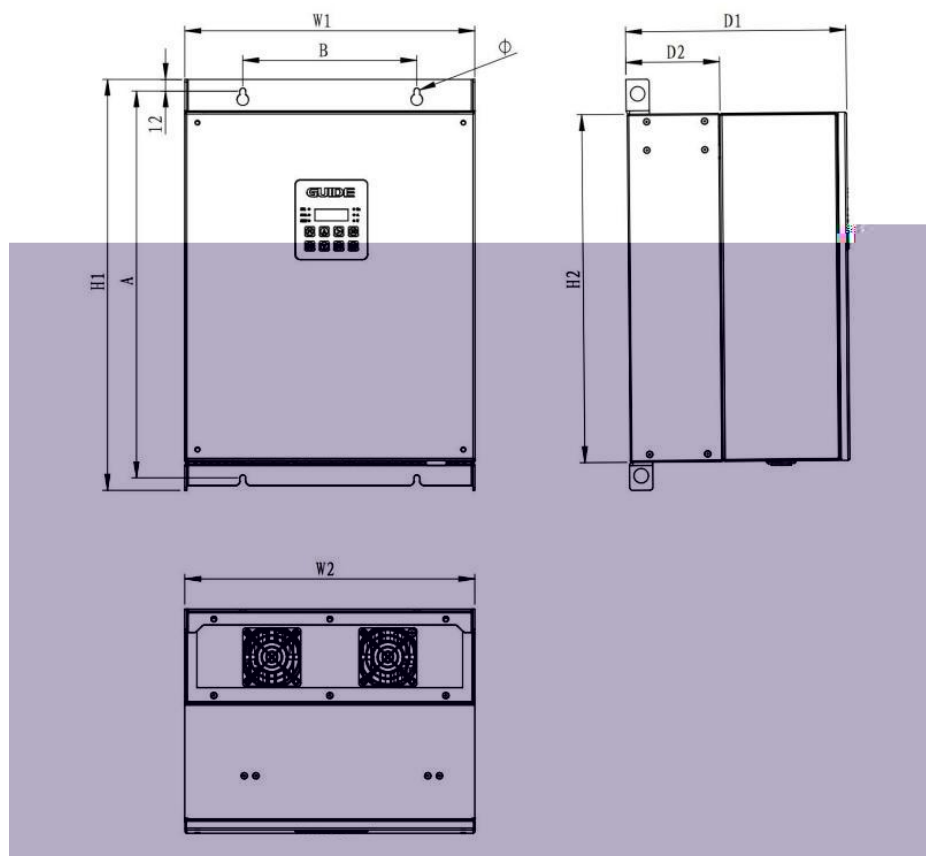
1.3



A1

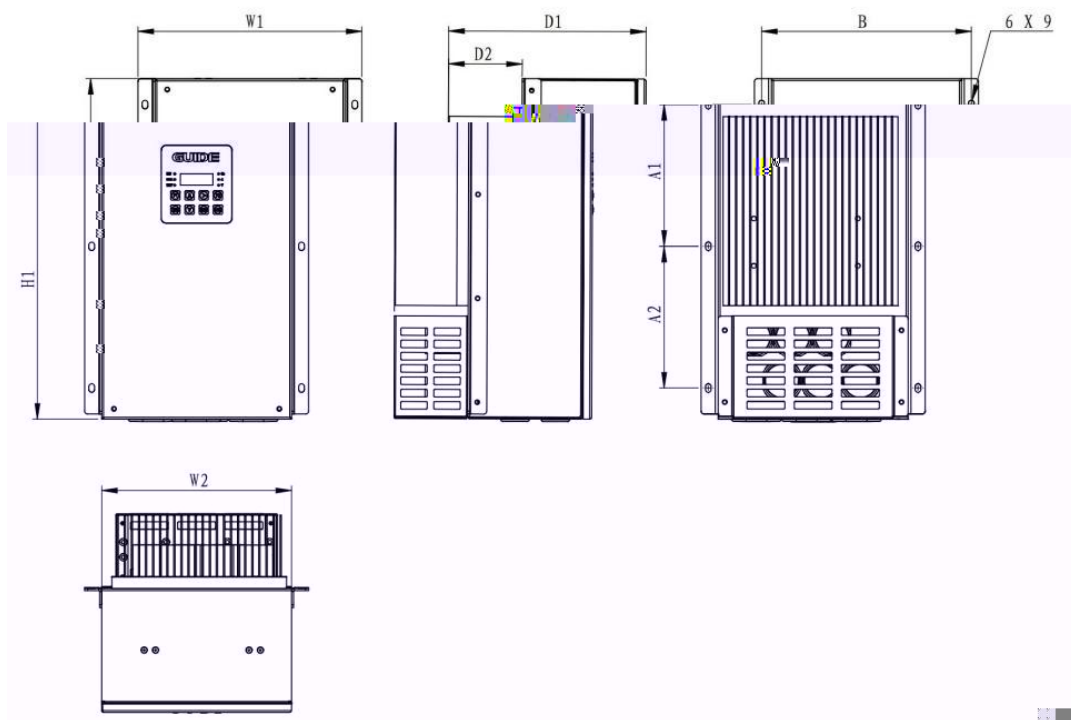
	(mm)						mm			8.8	kg
	H1	H2	W1	W2	D1	D2	A	B	φ	M	
22kW	302	294	180	174	194	78	288	162	4- φ 6	4-M5	6.5
37kW	302	294	180	174	194	78	288	162	4- φ 6	4-M5	6.5
45kW	302	294	180	174	194	78	288	162	4- φ 6	4-M5	6.5

A1



A2

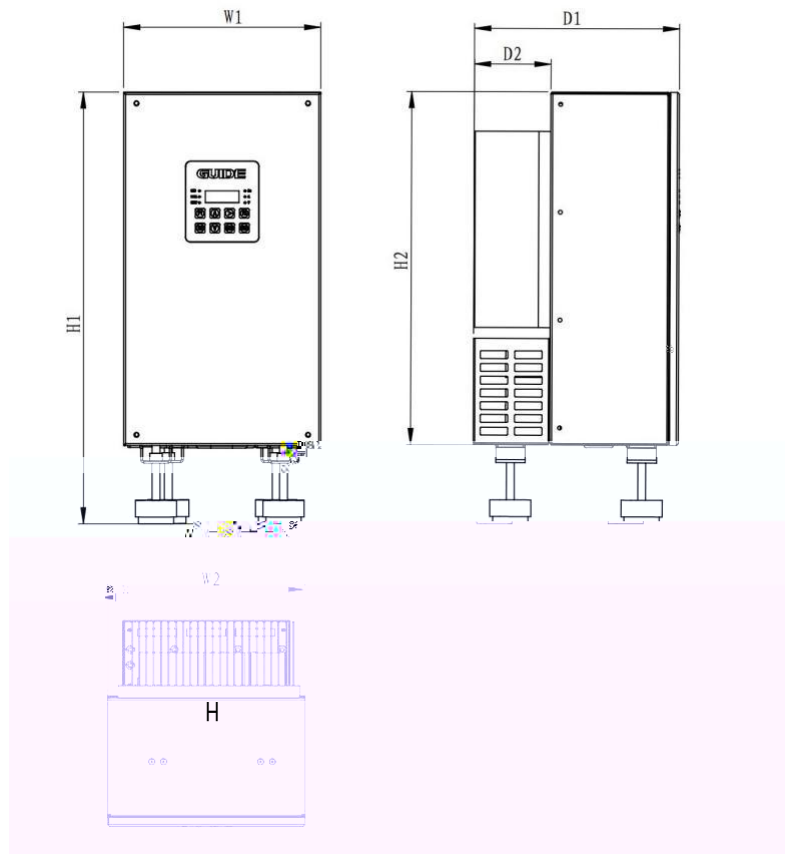
	(mm)						mm		φ	8.8	kg
	H1	H2	W1	W2	D1	D2	A	B		M	
55kW	425	360	300	300	227	97	400	180	4 - φ 6	4-M5	12.8



A3/A5

	(mm)						mm			8.8	kg
	H1	H2	W1	W2	D1	D2	A1/A2	B	φ	M	
22kW	360	/	236	200	208	78	150/150	222	6- φ 6X9	6-M5	8.3
37kW	360	/	236	200	208	78	150/150	222	6- φ 6X9	6-M5	8.3
45kW	360	/	236	200	208	78	150/150	222	6- φ 6X9	6-M5	8.3
55kW	360	/	336	300	225	95	150/150	320	6- φ 6X9	6-M5	10.8

A3/A5



A4/A6

(mm)

kg

H1

H2

W1

W2

A4/A6

1.4

		± ±
		≤

5Hz

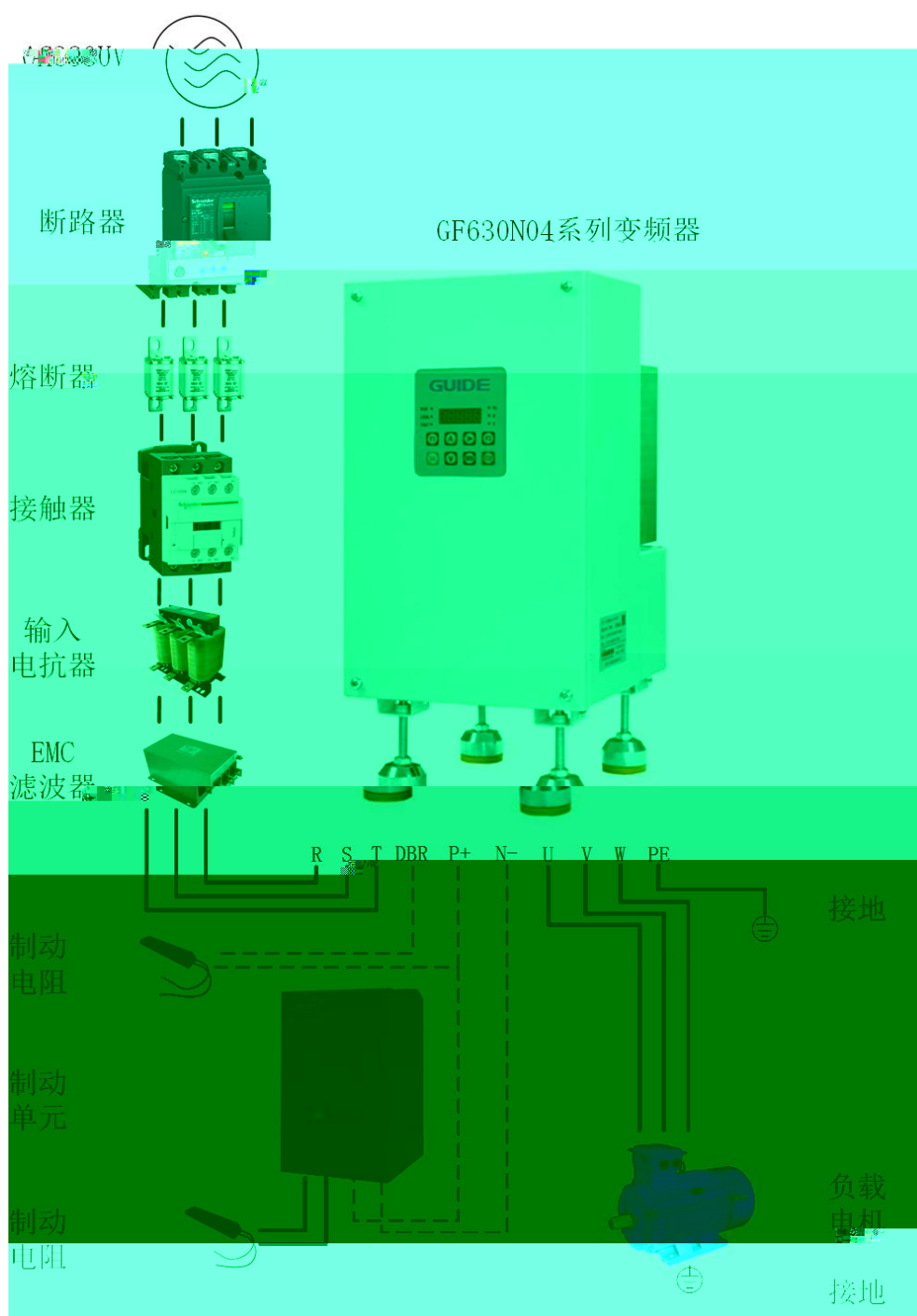
30

-

1.6

	
1.	/ " "
2.	/
3.	- R S T - U V W - P N - DBR
4.	10
5.	
	
1.	
2.	

2.1



GF630N04

2.3

	A	CEFR / mm ² 40%	A (AC-3)
22kW	15	2.5	18
37kW	18	2.5	18
45kW	18	2.5	18
55kW	24	2.5	25

2.4

2%					
	A	mH		A	mH
22kW	12	1.17	45kW	21.0	0.67
37kW	18.0	0.78	55kW	28.0	0.5

2.5

	Ω	Ω	KW 30% Kc	KW 50% Kc
22kW	100	40	≥ 0.9	≥ 1.5
37kW	100	40	≥ 2.0	≥ 2.5
45kW	100	40	≥ 2.0	≥ 2.5
55kW	75	40	≥ 3.0	≥ 3.5

1 100%

2 Kc

3

2.6 EMC

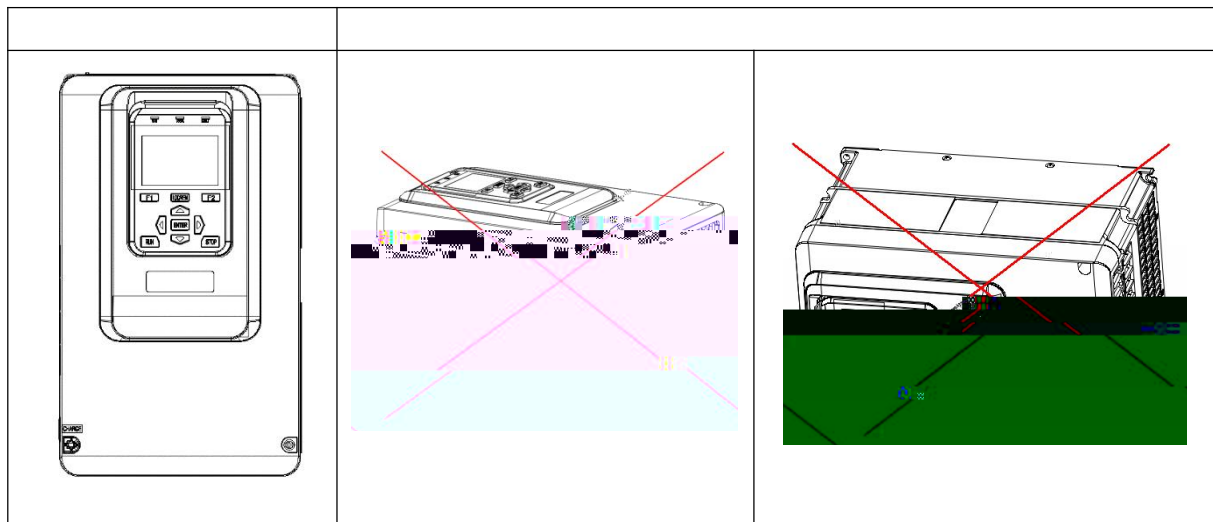
3

3.1

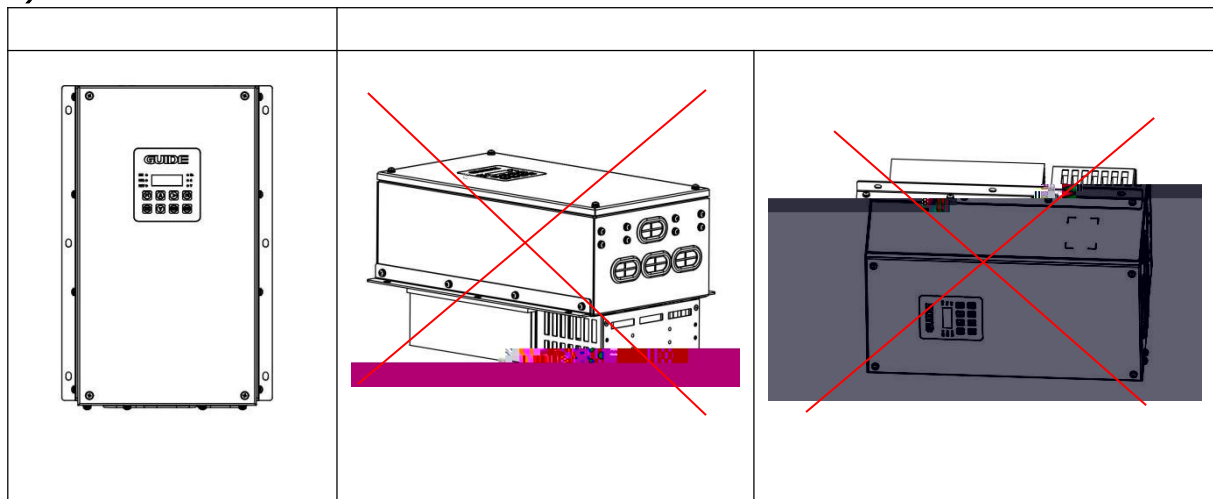
3.2

3.2.1

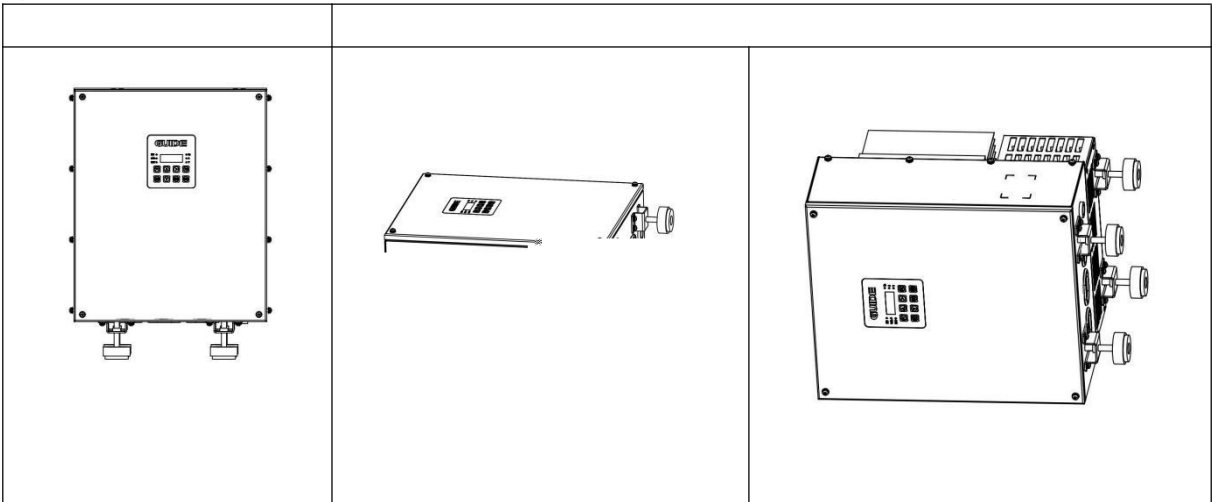
1)A1/A2



2)A3/A5

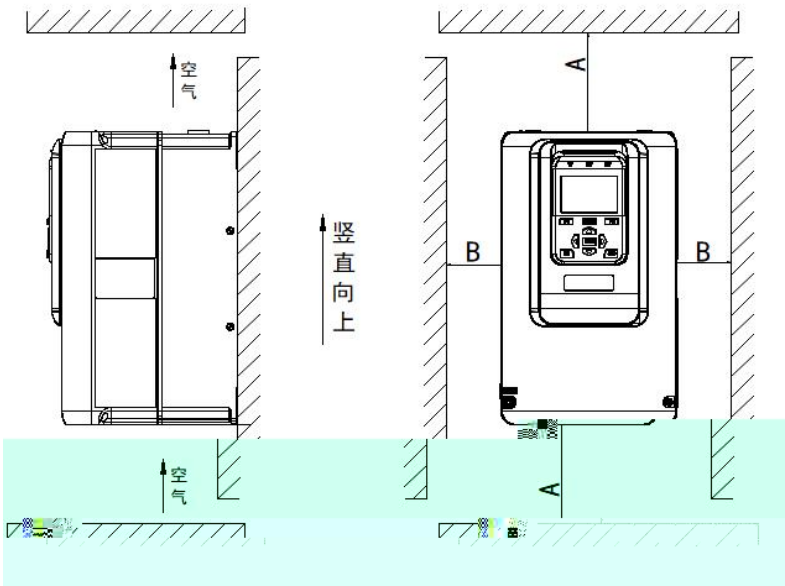


3)A4/A6



3.2.2

1)A1/A2



	(mm)	
22kW	$A \geq 100$	$B \geq 20$
37kW	$A \geq 100$	$B \geq 20$
45kW	$A \geq 100$	$B \geq 20$
55kW	$A \geq 200$	$B \geq 50$

3.2.3

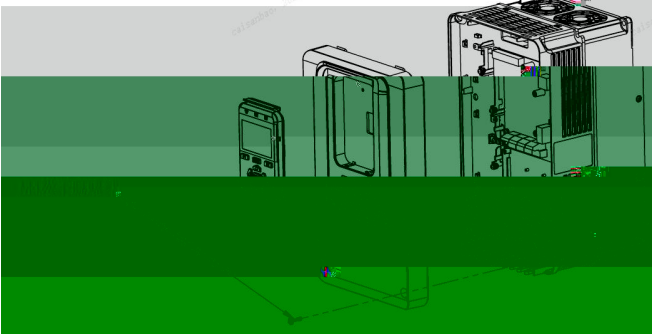
A

B

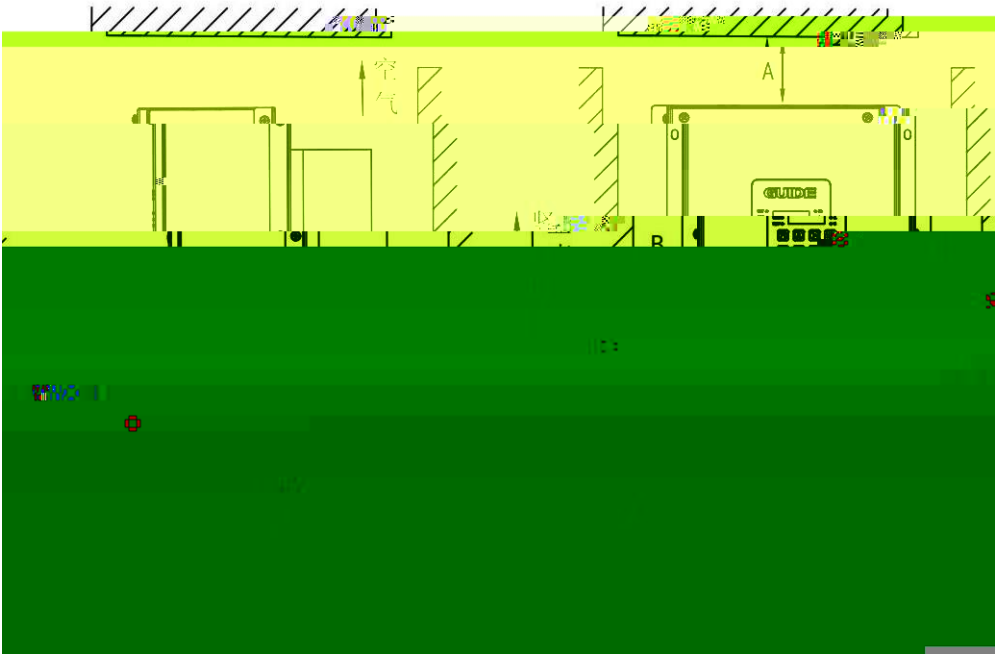
C

GF630N04-N3	N3	1

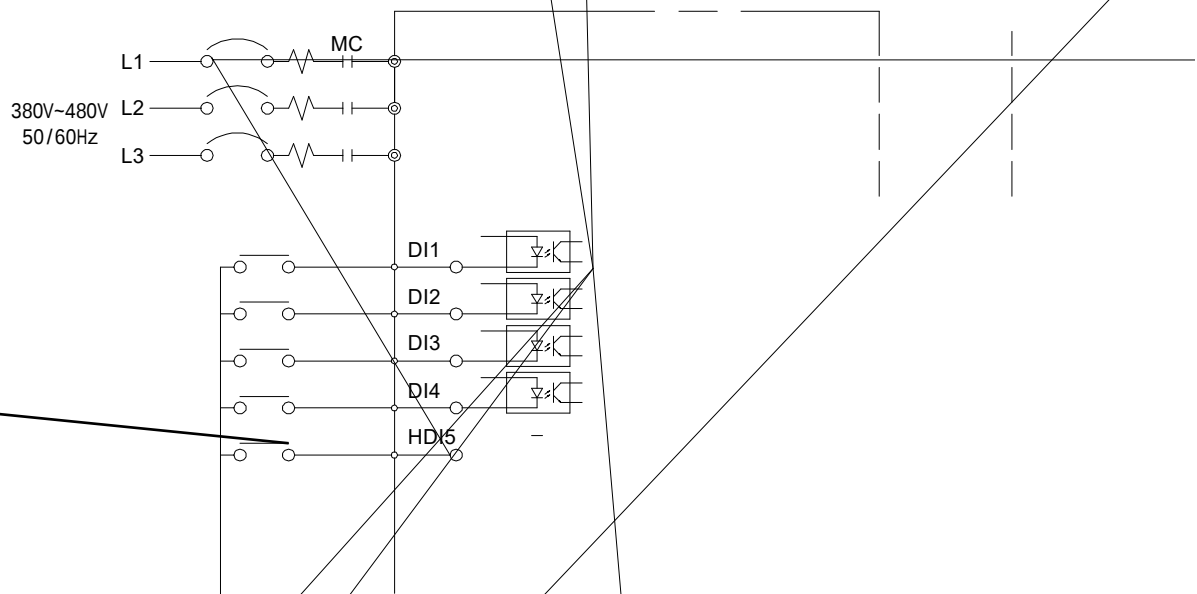
3.2.4

1		
2	M4	

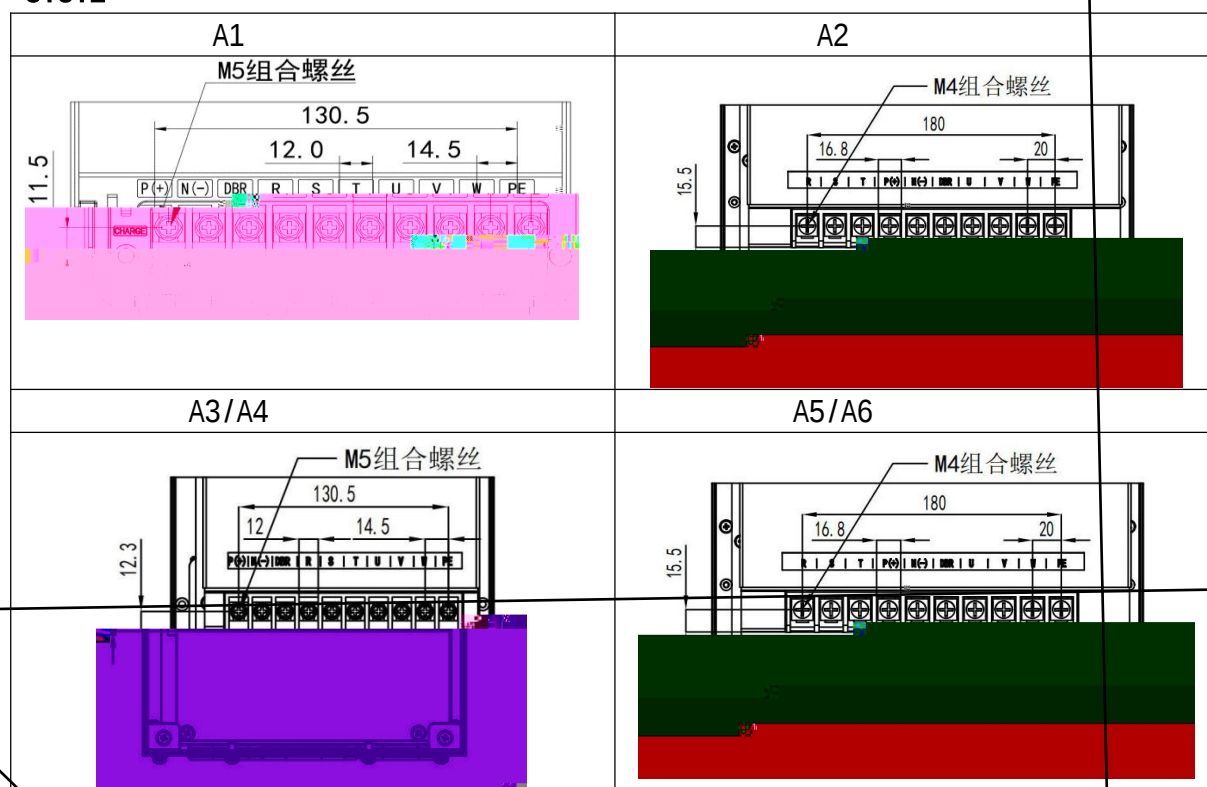
2 A3/A5



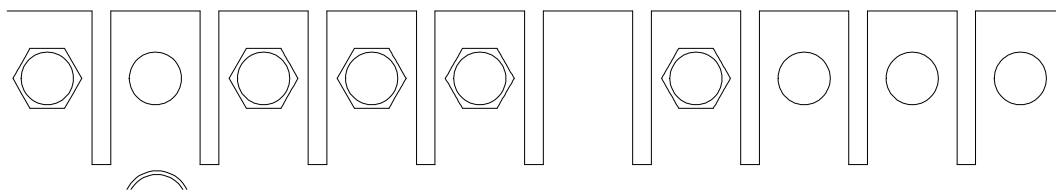
3.3.1



3.3.2



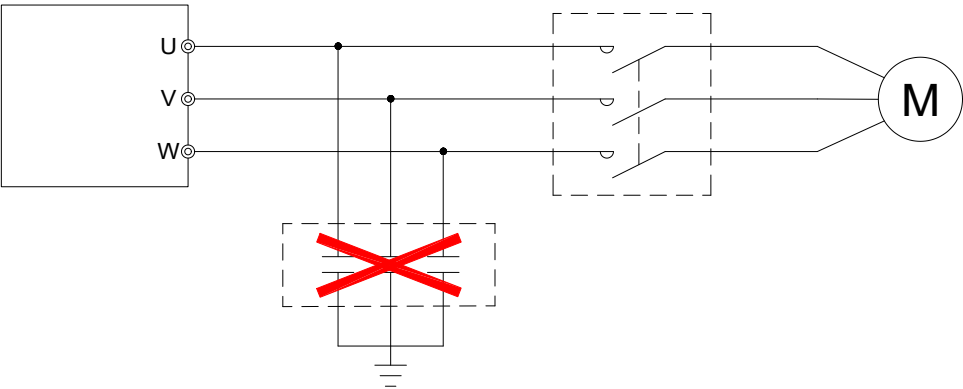
(1)A1/A3/A4



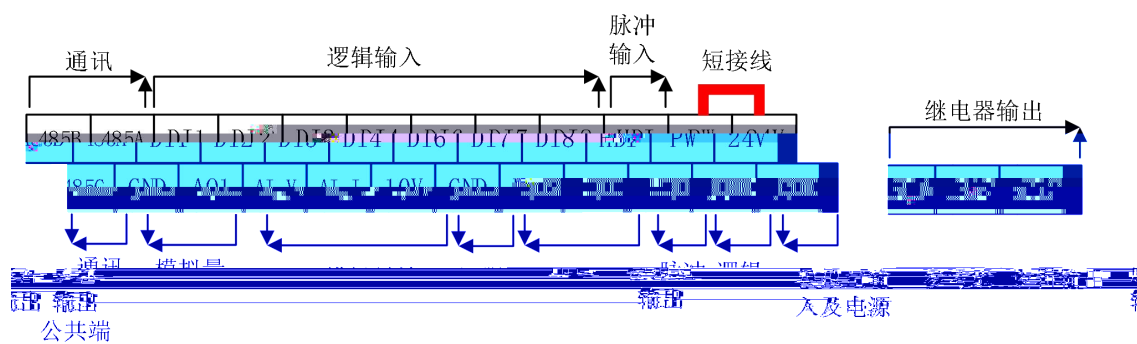
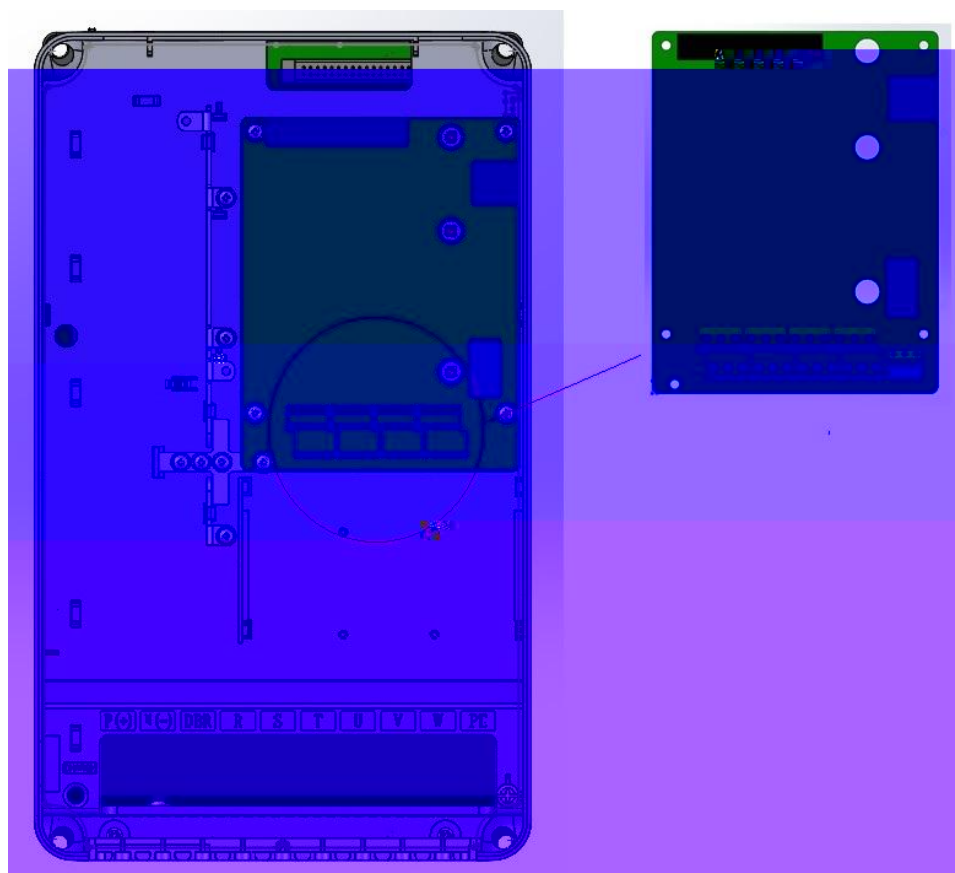
3.2.3

1		
2	10	
3	U V W	
4		
5		
6		
7	U V W	
8		
9	10cm	
10	0.75mm ² 50m	
11	10cm	
12	50m 50m	

13		
14		
15	30 m	



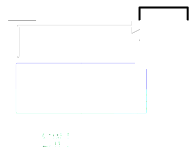
3.2.4



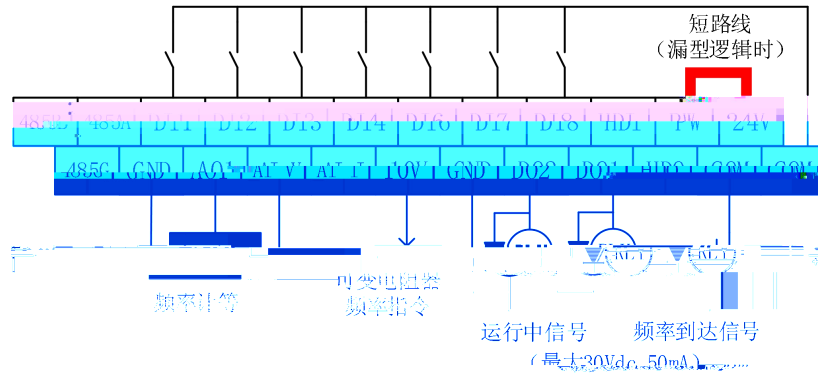
模拟量输出选择



485终端电阻



10V	10V			10V		10mA	
						5kΩ	
24V—COM	24V			24V ± 10%		200mA	
AI_I—GND		1	1	0~20mA			
			2	500Ω			
			3	20mA	50Hz		
			4	0.01mA			
				± 1%	25		
AI_V—GND		2	1	0~10V			
			2	100kΩ			
			3	10V	50Hz		
			4	0.01V			
				± 1%	25		
AO—GND		1	1	0 10V	4 20mA		
			2				
			3	10bit	1%		
			4	± 1%	25		
DI1—COM		1	1	3.3kΩ			
DI2—COM		2	2	12 30V			
DI3—COM		3	3				
DI4—COM		4	4	1KHz			
DI6—COM		6	5	PW 24V COM		NPN	PNP
DI7—COM		7					
HDI—COM				50kHz			
				20%~80%			
DO1-COM			1				
			2	50mA/30V			
DO2-COM			3	0 1kHz			
			4	DO_C ON	4V		
HDO-COM	(FMP)		1	50kHz			
			2	30%-70%			
			3		0-30V		
R1A			RO				
R1C				3A/AC250V	1A/DC30V		
R1B							
485	485A	485	485			485	
	485B						
RJ45	RJ45						
PG							



AI

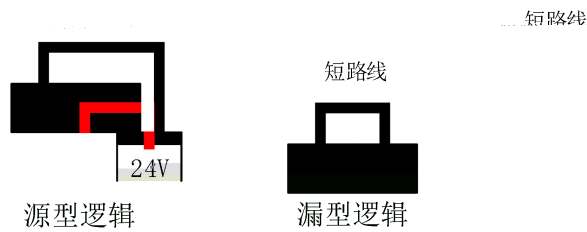
D01, D02

ON OFF

(2)

24V PW

PW COM



AI

D01, D02

ON OFF

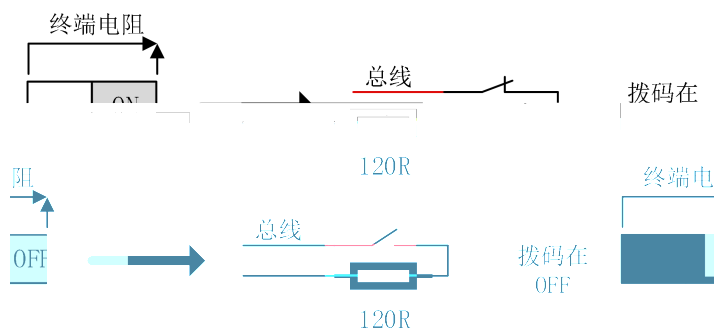
(3)

485

SW2

ON

ON



4

AO

0-10V

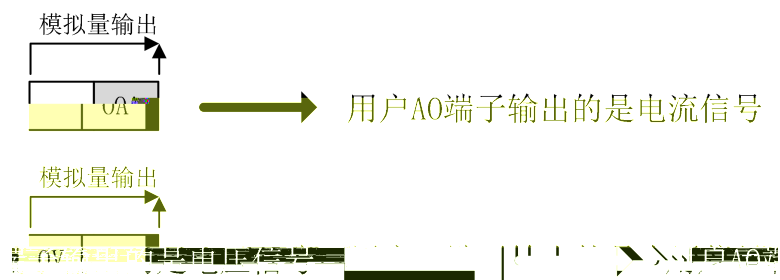
4-20mA

SW1

OV

OA

AO

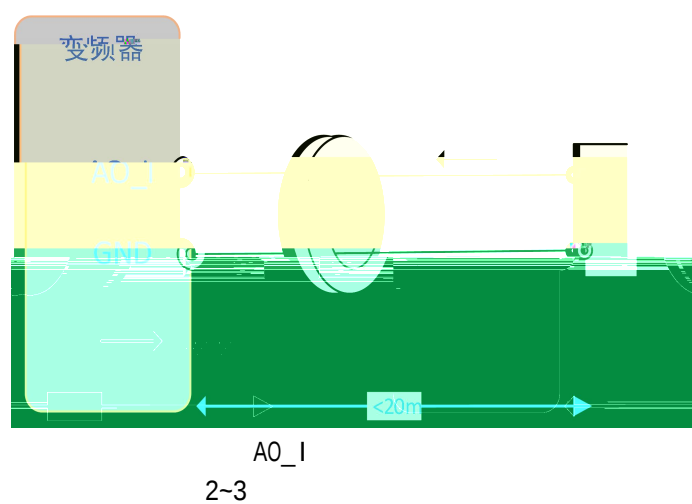
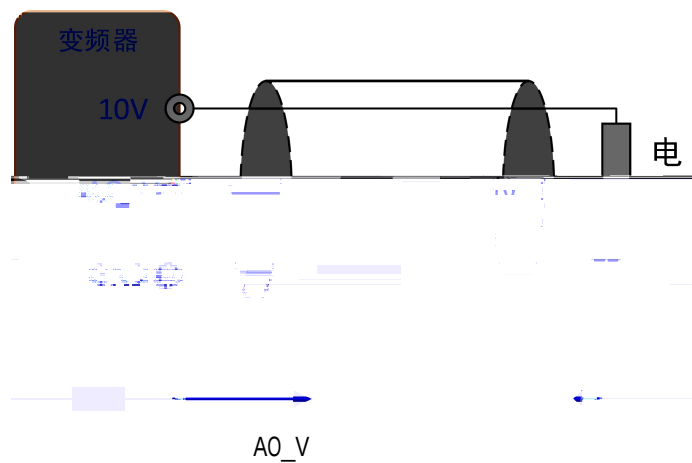


AI AO DI DO

RST UVW 20CM

A0_V A0_I

20



2~3

4

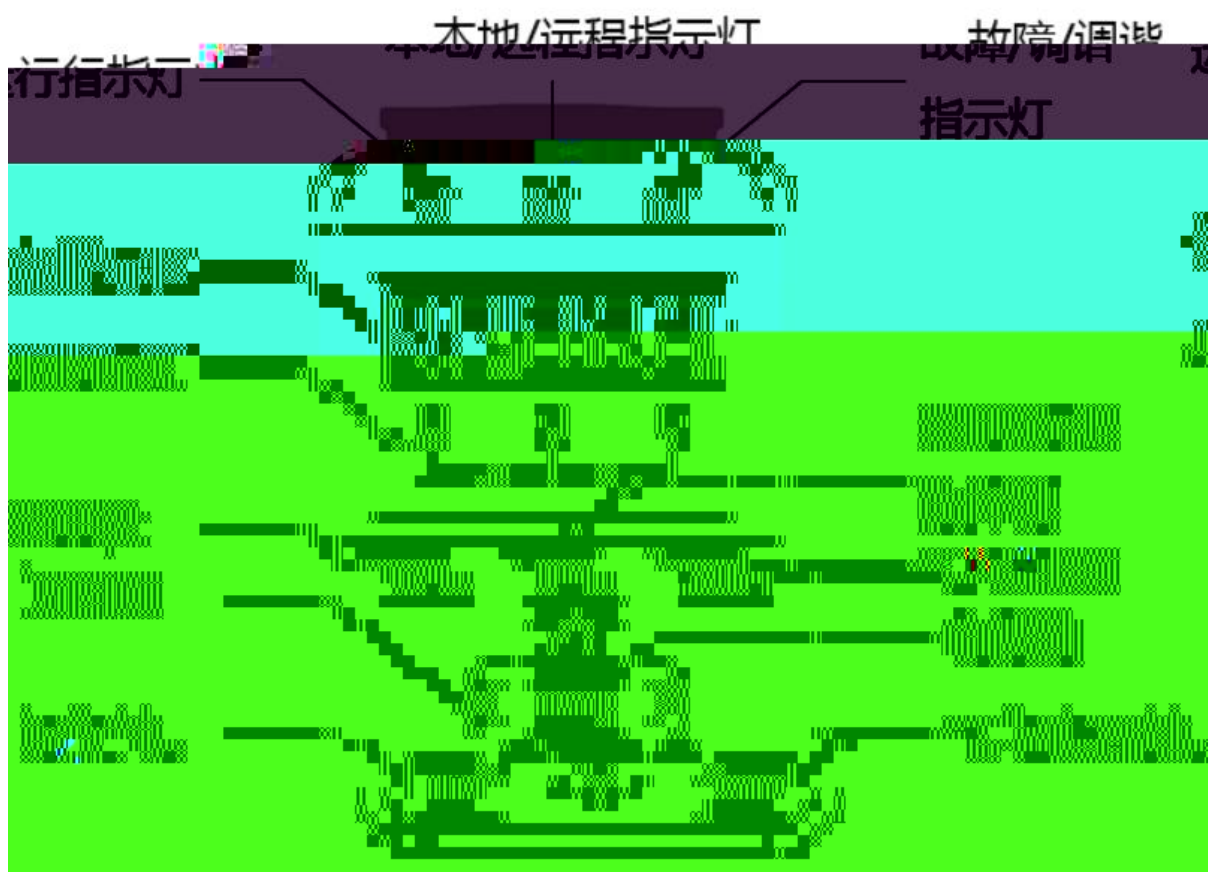
4.1

GF630N04

LED

4.2 LED

4.2.1 LED



A1



A2/A3/A4/A5/A6

1 LED

“ RUN ”

“ LOCAL ” /

“ FAULT ”

“ HZ ”

Hz RPM

“ A ”

A RPM %

“ V ”

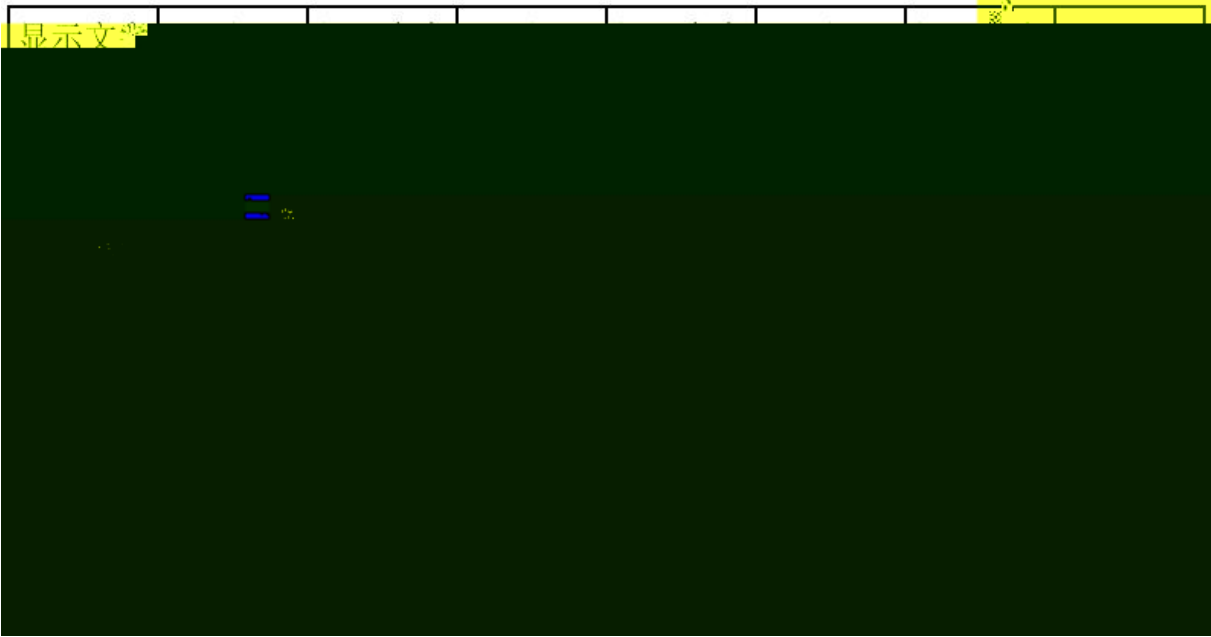
V %

2 LED

LED

5 LED

LED



		F1
	/	
		
		+1
		-1
		

		
		
		
		/

A1

		
		/
		+1
		-1
		
		
		



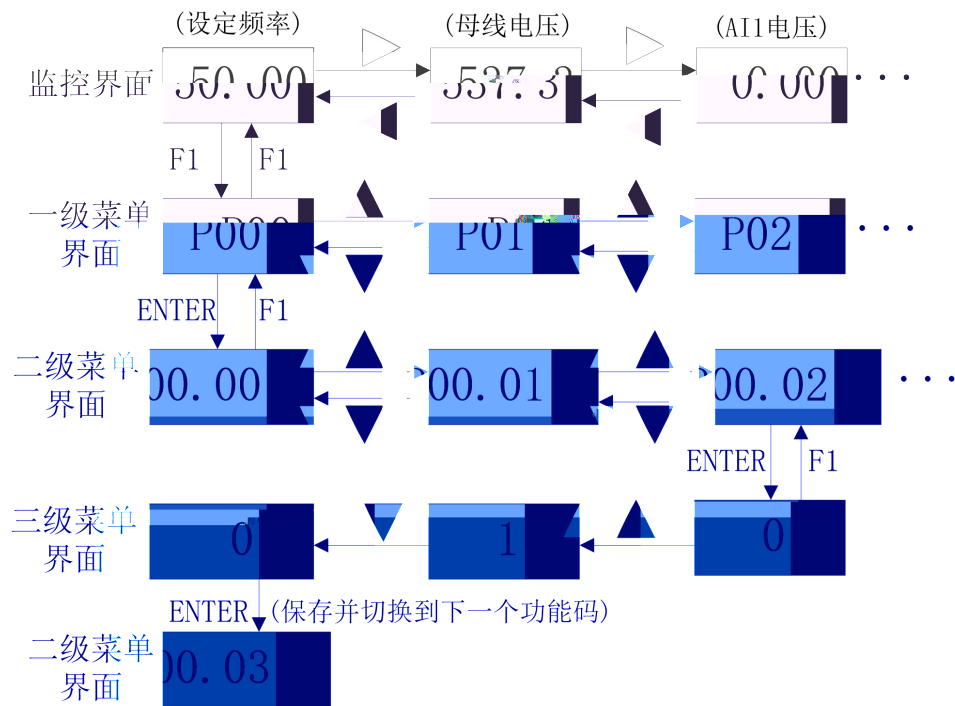
A2/A3/A4/A5/A6

4.2.2 LED

1

LED

/



() /

()

P02.05

F1

(▲) /

(▼)

F1

ENTER

(▲) / (▼)

(

)

() / ()

(

)

(▲) / (▼)

(

)

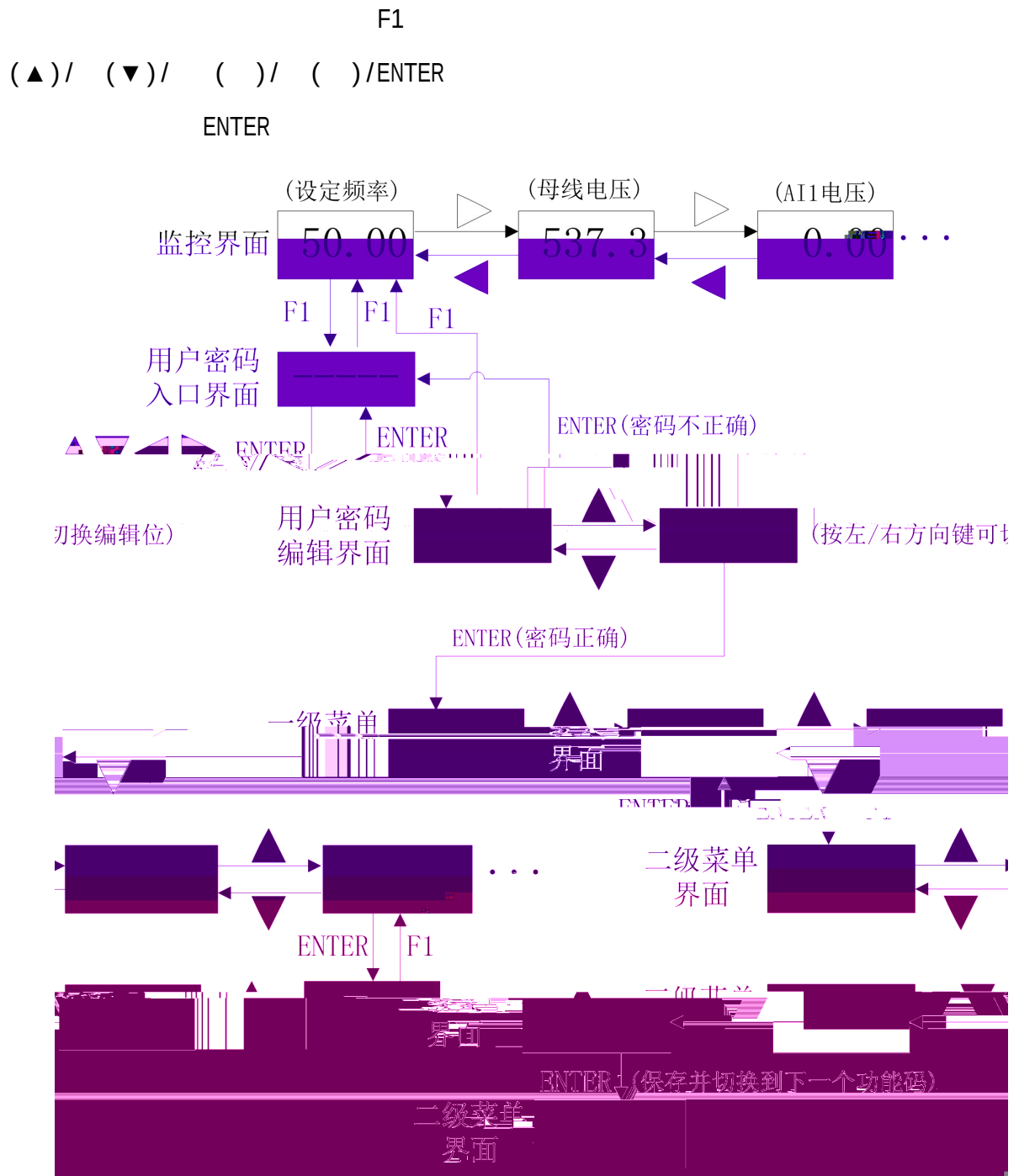
(

)

F1

ENTER ()/ (▲)/ (▼) ()/ ()/ ENTER F1

1

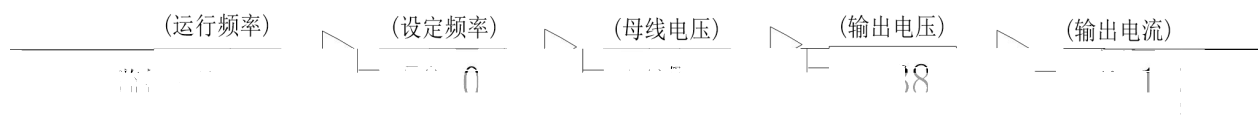


2

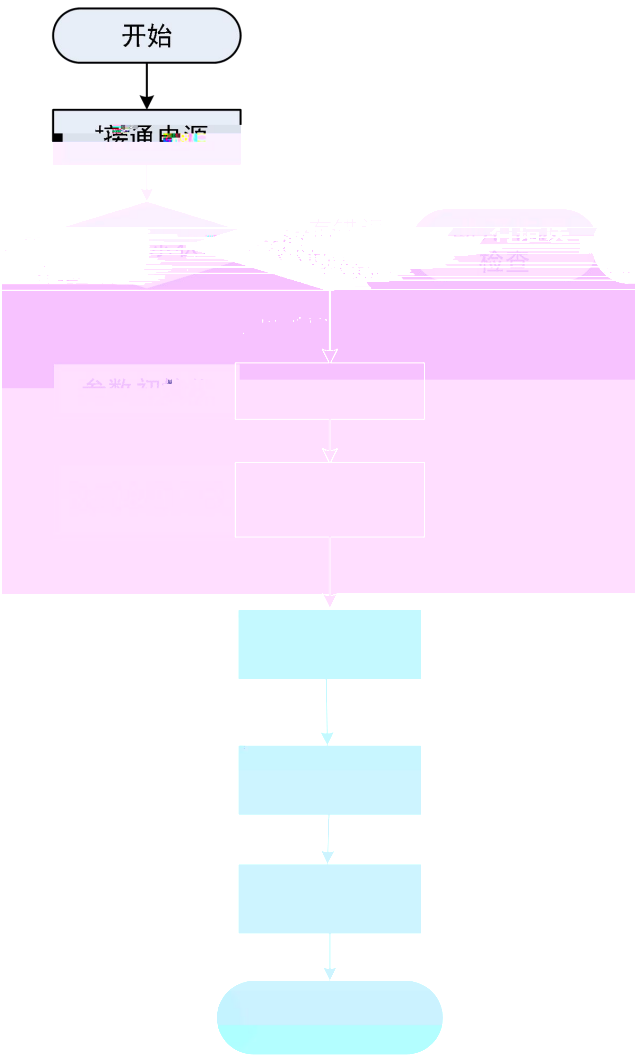
LED

/

P02.03 P02.04



5.1



5.2

--	--

5.3

LED

50.00

E

P00.01

P00.01	0: 1 () 2 ()	0

5.4

V/F

P08.10	(Hz)	/ / / /	50 [Hz]
P08.12	(Hz)		
P10.35	(Kw)		
P10.36	(V)		
P10.37	(A)		
P10.38	(Hz)		
P10.39		(r/min)	
P08.01		[0] [1] [2] V/F	2

5.5

1

1		
2	LOCAL	
3	UP / DOWN 5Hz	
4	RUN RUN	
5	4 50Hz	
6	STOP	

2

	STOP	
	1	

	2	LOCAL		
	3	UP/DOWN 5Hz		
	4	RUN	RUN	
	5	4	50Hz	
	6	STOP		

6.1 P0

P00.00		0 65535	0	
P00.01		0 01 02	0	
P00.02		P23, P27 0 1 P11, P13, P16, P19, P20, P21 0 1	11	
P00.03				
P00.04		0 1	0	

6.2 P2

P02.01	F2	0 1 2 3 4	0	
P02.02	STOP	0 , STOP 1 , STOP	1	

P02.05	LED	0000 FFFF Bit00: Hz Bit01: V Bit02: DI Bit03: D0 Bit04: AI1 V Bit05: AI2 V Bit06: AI3 V Bit07: Bit08: Bit09: PLC Bit10: Bit11: PID Bit12 PULSE kHz	33	
P02.06		0.0001 6.5000	1	
P02.07		0.0 100.0	-	●
P02.08		-	-	●
P02.09		0h 65535h	-	●
P02.11		-	-	●
P02.12		P23.14 0 0 1 1 2 2 3 3 P23.19/P23.29 1 1 2 2	21	
P02.13		0h 65535h	-	●
P02.14		0 65535	-	●

6.3

P3

--	--	--	--	--

P03.00	1	0		1	
		1			
		2		1	
		3			
		4			
P03.01	2	5			
		6	UP		
		7	DOWN	4	
		8			
		9			
		10			
P03.02	3	11			
		12	1	9	
		13	2		
		14	3		
		15	4		
P03.03	4	16		1	
		17		2	
		18			
		19	UP/DOWN	12	
		20	1		
P03.04	HDI	21			
		22	PID	13	
		23	PLC		
		24			
		25			
P03.05	6	26			
		27		0	
		28			
		29			
		30			
			DI5		
P03.06	7	31			
		32		0	
		33			
		34			
		35	PID		

P03.07	8	36 1 37 2 38 PID 39 X 40 Y	0	
P03.08		41 1 42 2 43 PID 44 1 45 2	0	
P03.09		46 / 47 48 2 49 50 51,52: 53: 54: 55:59	0	
P03.10		0.000s 1.000s	0.010s	
P03.11		0 1 1 2 2 1 3 2	0	
P03.12	UP/DOWN	0.001Hz/s 65.535Hz/s	1.00Hz/s	
P03.13		0 1 DI1 DI2 DI3 DI4 HDI	0	

P03.14	2	0 1 DI6 DI7 DI8	0	
P03.15	1	0.0s 3600.0s	0.0s	
P03.16	2	0.0s 3600.0s	0.0s	
P03.17	3	0.0s 3600.0s	0.0s	

6.4

P4

P04.03		17 18 19 20 21 22 23	2	0	
P04.04	1	24 25 26 27 28 29 30 31 32	FDT2 1 2 1 2 AI1	1	
P04.05	2	33 34 35 36 37 38 39 40		4	
P04.06		0.0s	3600.0s	0.0s	
P04.07	1	0.0s	3600.0s	0.0s	
P04.08		0.0s	3600.0s	0.0s	
P04.09	1	0.0s	3600.0s	0.0s	
P04.10	2	0.0s	3600.0s	0.0s	

P04.11		0 1 FMR 1 D01 D02	0	
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6.5

P5

P05.00	AI	1	-10.00V P05.02	-10.00V
P05.01	AI	1	-100.0% +100.0%	-100.00%
P05.02	AI	1	P05.00 +10.00V	10.00V
P05.03	AI	1	-100.0% +100.0%	100.00%
P05.04	AI	1	0.00s 10.00s	0.10s
P05.05	AI	2	-10.00V P05.07	-10.00V
P05.06	AI	2	-100.0% +100.0%	-100.00%
P05.07	AI	2	P05.05 +10.00V	10.00V
P05.08	AI	2	-100.0% +100.0%	100.00%
P05.09	AI	2	0.00s 10.00s	0.10s
P05.10	AI	3	-10.00V P05.12	-10.00V
P05.11	AI	3	-100.0% +100.0%	-100.00%
P05.12	AI	3	P05.10 +10.00V	10.00V
P05.13	AI	3	-100.0% +100.0%	100.00%
P05.14	AI	3	0.00s 10.00s	0.10s
P05.15			0.00kHz P05.17	0.00kHz
P05.16			-100.0% 100.0%	0.00%
P05.17			P05.15 50.00kHz	50.00kHz
P05.18			-100.0% 100.0%	100.00%
P05.19			0.00s 10.00s	0.10s

P05.20	AI	AI_V 1 1 2 P05.00 P05.03 2 2 2 P05.05 P05.08 3 3 2 P05.10 P05.13 4 4 4 P19.00 P19.07 5 5 4 P19.08 P19.15 AI_I	321	
P5.21	AI	:AI_V 0: 1:0.0% AI_I	0	

6.6

P6

P06.00		0 1 2 3 4 5	0	
P06.01	A01	6 100.% 50.0kHz 7 AI1 8 AI2 9 AI3 10	0	

P06.02		11 12 13 14 100.0% 1000.0A 15 100.0% 1000.0V 16		
P06.03		0.01kHz 50.00kHz	50.00kHz	
P06.04	A01	-100.0% +100.0%	0.00%	
P06.05	A01	-10.00 +10.00	1	
P06.06				
P06.07				
P06.08				
P06.09				
P06.10				

6.7 P7

P07.00		0 1	1	
P07.01		0.20 10.00	1	
P07.02		50% 100%	80%	
P07.03		0 100	0	
P07.04		200.0 2200.0	760.0	
P07.05		0 100	20	
P07.06		50% 200%	150%	
P07.07		0 1	11	
P07.08		200.0V 2000.0V		

P07.09		0 20	0	
P07.10	D0	0 1	0	
P07.11		0.1s 100.0s	1.0s	
P07.12	/	0 1	00	
P07.13		0 1	11	
P07.14		0 1 2 3 4 8 11 15 18 21 22 24		•

P07.15		25		
		26		
		27: 1		
		28: 2		
		29:		
		30		
		31 PID		
		40		
		41		
		45		
P07.16		51		•
		100		
		101		
		102		
		105		
		108		
		111		
		112		
		113		
		114		
P07.17		115		•
		118 /PG		
		119:		
		120		
		170		
		202		
P07.18				•
P07.19				•
P07.20				•
P07.21				•

P07.22	•
P07.23	•
P07.24	•
P07.25	•
P07.26	
P07.27	•
P07.28	•
P07.29	•
P07.30	•
P07.31	•
P07.32	•
P07.33	•
P07.34	•
P07.35	•
P07.36	
P07.37	•
P07.38	•
P07.39	•
P07.40	•
P07.41	•
P07.42	

P07.50	4	119 0 1 2 115 51	0	
P07.51	5			
P07.52	1			
P07.53	2			
P07.54		0 1 2 3 4	0	
P07.55		0% 100.0% 100.0% P08.10	100.00%	
P07.56		0 1 PT100 2 PT1000	0	
P07.57		0 200	110	
P07.58		0 200	90	
P07.59				
P07.60				
P07.61				
P07.62				
P07.63		0 1	0	
P07.64		0.0 100.0	10.00%	
P07.65		0.0 60.0s	1.0s	
P07.66				
P07.67		0.0 50.0	20.00%	
P07.68		0.0s 60.0s	1.0s	

P07.69		0.0 50.0	20.00%	
P07.70		0.0s 60.0s	0.0s	
P07.71		0 100	40	
P07.72		0 100	30	
P07.73		0 300.0	20.0	
P07.74				
P07.75	6	51 0 1 170 0	11	

6.8

P8

P08.00				
P08.01	1	0 SVC 1 FVC 2 V/F	2	
P08.02		0 LED 1 LED 2 LED	0	
P08.03	X	0 P08.08 UP/DOWN 1 P08.08 UP/DOWN 2 AI1 3 AI2 4 AI3 5 PULSE DI5 6 7 PLC 8 PID 9	0	

P08.04	Y	P08.03	X	0	
P08.05	Y	0 1	X	0	
P08.06	Y	0% 150%		100%	
P08.07		0 1 2 3 4 0 + 1 - 2 3	X X X Y	Y 0	
P08.08		0.00Hz	P08.10	50.00Hz	
P08.09		0 1		0	
P08.10		50.00Hz 500.00Hz		50.00Hz	
P08.11		0 P08.12 1 AI1 2 AI2 3 AI3 4 PULSE 5		0	
P08.12		P08.14	P08.10	50.00Hz	
P08.13		0.00Hz	P08.10	0.00Hz	
P08.14		0.00Hz	P08.12	0.00Hz	
P08.15		0.5kHz 16.0kHz			
P08.16		0 1		1	

P08.17	1	0.00s 6500.0s		
P08.18	1	0.00s 6500.0s		
P08.19		0 1 1 0.1 2 0.01	1	
P08.20		0 F08.47 1	0	
P08.21		0.00Hz P08.10	0.00Hz	
P08.22		2 0.01Hz	2	
P08.23		0 1	0	
P08.24		0 1 1 2	0	
P08.25		0 P08.10 1 2 100Hz	0	
P08.26	UP/DOWN	0 1	0	
P08.27		0 1 2 AI1 3 AI2 4 AI3 5 PULSE DI5 6 7 PLC 8 PID 9	0	

P08.28		0 1 2	0	
P08.29		0 1 2	0	
P08.30		1 100	20	
P08.31		0.00Hz 10.00Hz	0.00Hz	
P08.32		0.0s 100.0s	0.0s	
P08.33	/	0% 100%	0%	
P08.34	/	0.0s 100.0s	0.0s	
P08.35		0 1 S A 2 S B	0	
P08.36	S	0.0% 100.0%- P08.37	30.00%	
P08.37	S	0.0% 100.0%- P08.36	30.00%	
P08.38		0 1	0	
P08.39		0.00Hz	0.00Hz	
P08.40		0.0s 100.0s	0.0s	
P08.41		0% 100%	0%	
P08.42		0.0s 100.0s	0.0s	
P08.43		0% 100%	100%	
P08.44		0s 65000s	0s	
P08.45		0 1	0	
P08.46		220 400V	380	
P08.47		0.010-10.000s	0.200s	
P08.48		0.010-10.000s	0.500s	

P08.49		0.010-10.000s	5.000s	
P08.51		0 1	0	
P08.52	DI	0 1 1 2	0	

6.9
P9

P09.00	0 1	0
P09.01	0.0% 100.0%	0.00%
P09.02	0.0% 50.0%	0.00%
P09.03	0.1s 3000.0s	10.0s
P09.04	0.1% 100.0%	

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P09.43	PLC 7	0 3	0	
P09.44	PLC 8	0.0s h 6553.5s h	0.0s h	
P09.45	PLC 8	0 3	0	
P09.46	PLC 9	0.0s h 6553.5s h	0.0s h	
P09.47	PLC 9	0 3	0	
P09.48	PLC 10	0.0s h 6553.5s h	0.0s h	
P09.49	PLC 10	0 3	0	
P09.50	PLC 11	0.0s h 6553.5s h	0.0s h	
P09.51	PLC 11	0 3	0	
P09.52	PLC 12	0.0s h 6553.5s h	0.0s h	
P09.53	PLC 12	0 3	0	
P09.54	PLC 13	0.0s h 6553.5s h	0.0s h	
P09.55	PLC 13	0 3	0	
P09.56	PLC 14	0.0s h 6553.5s h	0.0s h	
P09.57	PLC 14	0 3	0	
P09.58	PLC 15	0.0s h 6553.5s h	0.0s h	
P09.59	PLC 15	0 3	0	
P09.60	PLC	0 s 1 h	0	

P09.61	0	0 P09.10 1 AI1 2 AI2 3 AI3 4 PULSE 5 PID 6 P08.08 UP/DOWN	0	
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6.10 V/F 1 P10

P10.00	VF	0 V/F 1 V/F 2 V/F 3 1.2 V/F 4 1.4 V/F 6 1.6 V/F 8 1.8 V/F 9 10 VF 11 VF	0	
P10.01		0.0% 0.1% 30.0%		
P10.02		0.00Hz	50.00Hz	
P10.03	VF 1	0.00Hz P10.05	0.00Hz	
P10.04	VF 1	0.0% 100.0%	0.00%	
P10.05	VF 2	P10.03 P10.07	0.00Hz	
P10.06	VF 2	0.0% 100.0%	0.00%	
P10.07	VF 3	P10.05 P10.38	0.00Hz	
P10.08	VF 3	0.0% 100.0%	0.00%	
P10.09	VF	0.0% 200.0%	0.00%	
P10.10	VF	0 200	64	
P10.11	VF	0 100		
P10.12		0 4	3	
P10.13	VF	0 P10.14 1 AI1 2 AI2 3 AI3 4 PULSE DI5 5 6 PLC 7 PID 8 100.0%	0	
P10.14	VF	0V	0V	

P10.15	VF	0.0s 1000.0s 0V	0.0s	
P10.16	VF	0.0s 1000.0s 0V	0.0s	
P10.17	VF	0 / 0 1 0	0	
P10.18	VF	50 200%	150%	
P10.19	VF	0 1	1	
P10.20	VF	0 100	20	
P10.21	VF	50 200%	50%	
P10.22		650.0V ~800.0V	760.0V	
P10.23		0 1	0	
P10.24		0 100	30	
P10.25		0 100	30	
P10.26		0 50Hz	5Hz	
P10.27				
P10.28				
P10.29				
P10.30				
P10.31				
P10.32				
P10.33				
P10.34	1	0 1 2	0	
P10.35	1	0.1kW 1000.0kW		

P10.36	1	1V 2000V		
P10.37	1	0.01A 655.35A ≤55kW 0.1A 6553.5A >55kW		
P10.38	1	0.01Hz		
P10.39	1	1rpm 65535rpm		
P10.40				
P10.41				
P10.42				
P10.43				
P10.44				
P10.45~ P10.49				
P10.50	1	0.001Ω 65.535Ω ≤55kW 0.0001Ω 6.5535Ω >55kW		
P10.51	1D	0.01mH 655.35mH ≤55kW 0.001mH 65.535mH >55kW		
P10.52	1Q	0.01mH 655.35mH ≤55kW 0.001mH 65.535mH >55kW		
P10.53	1	0 12	0	
P10.54	1	0.1V 6553.5V		
P10.55	1	0 60000	0	
P10.56~ P10.60				
P10.61		1 65535	1024	
P10.62		0 ABZ 1	0	

		2 3 4		
P10.63				
P10.64	ABZ AB	0 1	0	
P10.65		0.0 359.9 °	0.0 °	
P10.66				
P10.67				
P10.68		1 65535	1	
P10.69				
P10.70		0.0 0.1s 10.0s	0	
P10.71		0 1 2 11 12	0	

6.11 2 P11

P11.00	2	0 1 2	0	
P11.01		0.1kW 1000.0kW		
P11.02		1V 2000V		
P11.03		0.01A 655.35A <=55kW 0.1A 6553.5A >55kW		
P11.04		0.01Hz		
P11.05		1rpm 65535rpm		
P11.06				
P11.07				
P11.08				
P11.09				

P11.10				
P11.11~ P11.15				
P11.16		0.001Ω 65.535Ω ≤55kW 0.0001Ω 6.5535Ω >55kW		
P11.17	D	0.01mH 655.35mH ≤55kW 0.001mH 65.535mH >55kW		
P11.18	Q	0.01mH 655.35mH ≤55kW 0.001mH 65.535mH >55kW		
P11.19		0 12	0	
P11.20		0.1V 6553.5V		
P11.21		0 60000	0	
P11.22~ P11.26				
P11.27		1 65535	1024	
P11.28		0 ABZ 1 2 3 4	0	
P11.29			0	
P11.30	ABZ AB	0 1	0	
P11.31		0.0 359.9 °	0.0 °	
P11.32			0	
P11.33			0.0 °	
P11.34		1 65535	1	
P11.35			4	

P11.36	PG	0.0 0.1s 10.0s	0	
P11.37		0 1 2 11 12	0	

6.12 1 P12

P12.00	1	1 100	30	
P12.01	1	0.01s 10.00s	0.50s	
P12.02	1	0.00 P02.05	5.00Hz	
P12.03	2	1 100	20	
P12.04	2	0.01s 10.00s	1.00s	
P12.05	2	P02.02	10.00Hz	
P12.06		50% 200%	100%	
P12.07				
P12.08		0 200	64	
P12.09		0 P12.10 1 AI1 2 AI2 3 AI3 4 PULSE 5 6 MIN(AI1,AI2) 7 MAX(AI1,AI2) 1-7 P12.10	0	
P12.10		0.0% 200.0%	150.00%	

P12.11		0 P12.12 1 AI1 2 AI2 3 AI3 4 PULSE 5 6 MIN(AI1,AI2) 7 MAX(AI1,AI2) 1-7 P12.12	0.00%	
P12.12		0.0% 200.0%	150.00%	
P12.13		0 60000	2000	
P12.14		0 60000	1300	
P12.15		0 60000	2000	
P12.16		0 60000	1300	
P12.17		0 1	0	
P12.18		0: 1: 2:	1	
P12.19		0 50	5	
P12.20		1% 300%	50%	
P12.21		10% 500%	100%	
P12.22		0 1	0	
P12.23		1% 50%	5%	
P12.24		50% 180%	80%	
P12.25		0,1,2	0	
P12.26				
P12.27		50 500	100	
P12.28		0,1	0	
P12.29		0	0	

P12.30	Kp	1 100	6
P12.31	Ki	1 100	6
P12.32 Z		0,1	1
P12.33 SVC			

P13.05

P13.06

P13.07

P13.08

P13.02

50% 200

0.000s 0.100s

0 2

0 P13.10

1 A11

2 A12

3 A13

4

10.00Hz

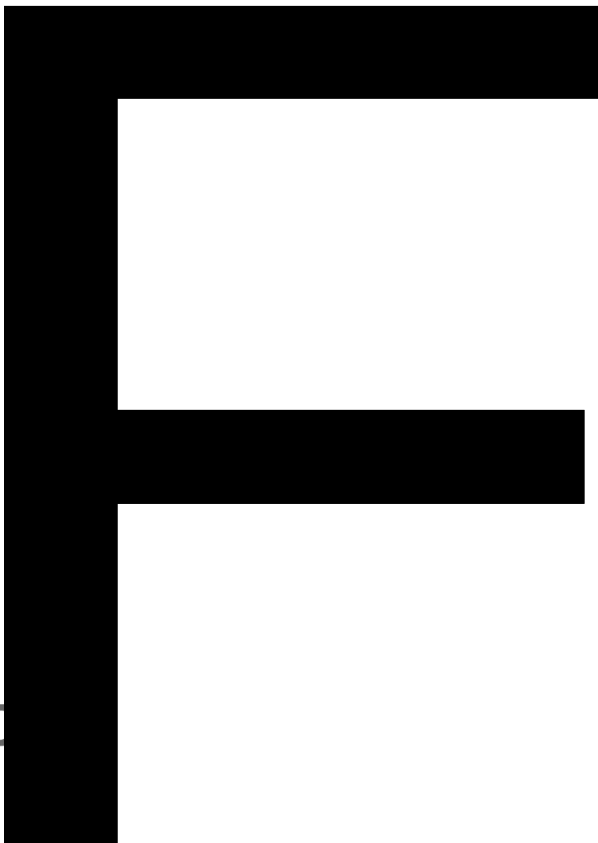
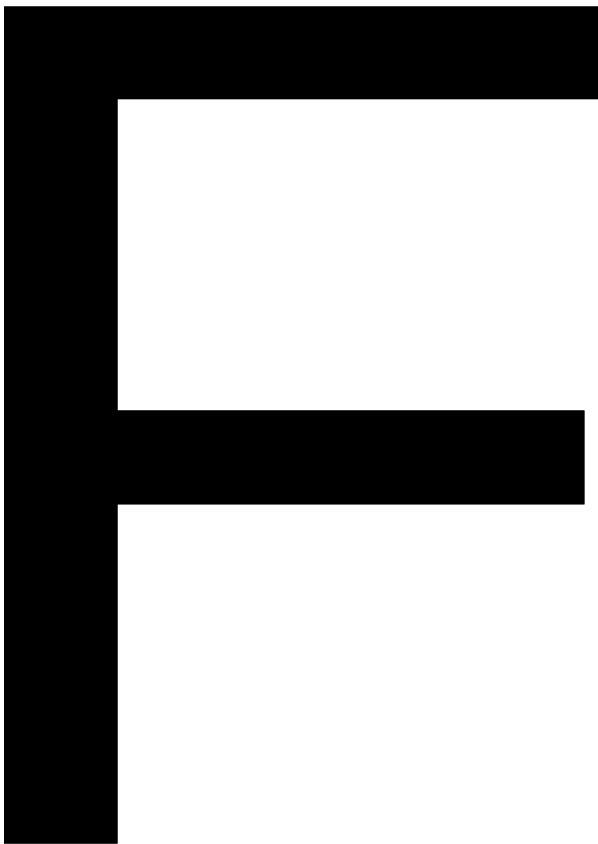
100%

0.000s

64

P13.09

P13.18		0: 1: 2:	1	
P13.19		0 50	5	
P13.20				
P13.21				
P13.22		0,1	0	
P13.23	2	0 SVC 1 FVC 2 V/F	2	
P13.24	2	0 1 1 1 2 2 3 3 4 4	0	
P13.25		0.0% 0.1% 30.0%		
P13.26				
P13.27		0 100		
P13.28		1% 50%	5%	
P13.29		50% 180%	80%	
P13.30		0,1,2	0	
P13.31				
P13.32		50 500	100	
P13.33		0,1	0	
P13.34		0	0	
P13.35	Kp	1 100	6	
P13.36	Ki	1 100	6	
P13.37	Z	0,1	1	
P13.38	SVC	10 1000	100	
P13.39	SVC	5 200	40	



P14.02	MODBUS	0 (8-N-2) 1 (8-E-1) 2 (8-O-1) 3 (8-N-1) (MODBUS)	3	
P14.03		1 247 0	1	
P14.04		0ms 20ms	2	
P14.05		0.0 0.1s 60.0s	0	
P14.06		MODBUS 0 MODBUS 1 MODBUS PN 0 PP01 1 PP02 2 PP03 3 PP05	31	
P14.07		0 0.01A 1 0.1A	0	
P14.08		0,1	0	
P14.09		0 60.0	0	

6.15 PID P15

P15.00	PID	0 P15.01 1 AI1 2 AI2 3 AI3 4 PULSE DI5 5 6	0	
P15.01	PID	0.0% 100.0%	50.00%	

P15.02	PID	0 AI1 1 AI2 2 AI3 3 AI1.AI2 4 PULSE DI5 5 6 AI1+AI2 7 MAX AI1 , AI2 8 MIN AI1 , AI2	0	
P15.03	PID	0 1	0	
P15.04	PID	0 65535	1000	
P15.05	Kp1	0.0 100.0	20	
P15.06	Ti1	0.01s 10.00s	2.00s	
P15.07	Td1	0.000s 10.000s	0.000s	
P15.08	PID	0.00	2.00Hz	
P15.09	PID	0.0% 100.0%	0.00%	
P15.10	PID	0.00% 100.00%	0.10%	
P15.11	PID	0.00 650.00s	0.00s	
P15.12	PID	0.00 60.00s	0.00s	
P5.13	PID	0.00 60.00s	0.00s	
P15.14		-	-	
P15.15	Kp2	0.0 100.0	20	
P15.16	Ti2	0.01s 10.00s	2.00s	
P15.17	Td2	0.000s 10.000s	0.000s	
P15.18	PID	0 1 DI 2 3	0	
P15.19	PID 1	0.0% P15.20	20.00%	
P15.20	PID 2	P15.19 100.0%	80.00%	
P15.21	PID	0.0% 100.0%	0.00%	
P15.22	PID	0.00 650.00s	0.00s	

P16.06	VDI	0 1 VDI1 VDI2 VDI3 VDI4 VDI5	0	
P16.07	AI1 DI	0 59	0	
P16.08	AI2 DI	0 59	0	
P16.09	AI3 DI	0 59	0	
P16.10	AI DI	0 1 AI1 AI2 AI3	0	
P16.11	VD01	0 DIx 1 40 P04 DO	0	
P16.12	VD02	0 DIx 1 40 P04 DO	0	
P16.13	VD03	0 DIx 1 40 P04 DO	0	
P16.14	VD04	0 DIx 1 40 P04 DO	0	
P16.15	VD05	0 DIx 1 40 P04 DO	0	
P16.16	VD01	0.0s 3600.0s	0.0s	
P16.17	VD02	0.0s 3600.0s	0.0s	
P16.18	VD03	0.0s 3600.0s	0.0s	
P16.19	VD04	0.0s 3600.0s	0.0s	
P16.20	VD05	0.0s 3600.0s	0.0s	

P16.21	VDO	0 1 VD01 VD02 VD03 VD04 VD05	0	
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6.17

P19

P19.00	AI 4	-10.00V P19.02	-10.00V	
P19.01	AI 4	-100.0% +100.0%	-100.0%	
P19.02	AI 4 1	P19.00 P19.04	3.00V	
P19.03	AI 4 1	-100.0% +100.0%	30.00%	
P19.04	AI 4 2	P19.02 P19.06	6.00V	
P19.05	AI 4 2	-100.0% +100.0%	60.00%	
P19.06	AI 4	P19.04 +10.00V	10.00V	
P19.07	AI 4	-100.0% +100.0%	100.00%	
P19.08	AI 5	-10.00V P19.10	-10.00V	
P19.09	AI 5	-100.0% +100.0%	-100.00%	
P19.10	AI 5 1	P19.08 P19.12	-3.00V	
P19.11	AI 5 1	-100.0% +100.0%	-30.00%	
P19.12	AI 5 2	P19.10 P19.14	3.00V	
P19.13	AI 5 2	-100.0% +100.0%	30.00%	
P19.14	AI 5	P19.12 +10.00V	10.00V	
P19.15	AI 5	-100.0% +100.0%	100.00%	
P19.16~ P19.23				
P19.24	AI1	-100.0% 100.0%	0.00%	
P19.25	AI1	0.0% 100.0%	0.50%	
P19.26	AI2	-100.0% 100.0%	0.00%	
P19.27	AI2	0.0% 100.0%	0.50%	

P19.28	AI3		-100.0%	100.0%	0.00%
P19.29	AI3		0.0%	100.0%	0.50%
P19.30	AI1	1	-10.000V	10.000V	
P19.31	AI1	1	-10.000V	10.000V	
P19.32	AI1	2	-10.000V	10.000V	
P19.33	AI1	2	-10.000V	10.000V	
P19.34	AI2	1	-10.000V	10.000V	
P19.35	AI2	1	-10.000V	10.000V	
P19.36	AI2	2	-10.000V	10.000V	
P19.37	AI2	2	-10.000V	10.000V	
P19.38	AI3	1	-10.000V	10.000V	
P19.39	AI3	1	-10.000V	10.000V	
P19.40	AI3	2	-10.000V	10.000V	
P19.41	AI3	2	-10.000V	10.000V	
P19.42	A01	1	0.500V	4.000V	
P19.43	A01	1	0.500V	4.000V	
P19.44	A01	2	6.000V	9.999V	
P19.45	A01	2	6.000V	9.999V	
P19.46	A02	1	0.500V	4.000V	
P19.47	A02	1	0.500V	4.000V	
P19.48	A02	2	6.000V	9.999V	
P19.49	A02	2	6.000V	9.999V	

P20.01		0 1 P20.03 1 AI1 2 AI2 3 AI3 4 5 6 MIN AI1,AI2 7 MAX AI1,AI2 1-7 P20.03	0	
P20.02				
P20.03		-200.0% 200.0%	150.00%	
P20.04		0 10.00	0.00%	
P20.05		0.00Hz	50.00Hz	
P20.06		0.00Hz	50.00Hz	
P20.07		0.00s 650.00s	0.00s	
P20.08		0.00s 650.00s	0.00s	

6.19

P21

P21.00		0.00Hz	2.00Hz	
P21.01		0.0s 6500.0s	20.0s	
P21.02		0.0s 6500.0s	20.0s	
P21.03	2	0.0s 6500.0s		
P21.04	2	0.0s 6500.0s		
P21.05	3	0.0s 6500.0s		
P21.06	3	0.0s 6500.0s		
P21.07	4	0.0s 6500.0s		
P21.08	4	0.0s 6500.0s		
P21.09	1	0.00Hz	0.00Hz	
P21.10	2	0.00Hz	0.00Hz	

P21.34		0.0% 300.0%	5.00%
		100.0%	
P21.35		0.01s 600.00s	0.10s
P21.36		0.0%	200.00%
		0.1% 300.0%	
P21.37		0.00s 600.00s	0.00s
P21.38	1	0.0% 300.0%	100.00%
P21.39	1 í ¼à •!	0.0% 300.0%	0.00%
P21.40	2	0.0% 300.0%	100.00%

P23.12		1	700CH	
P23.13		1	700DH	
P23.14		1	700EH	
P23.15	PID	1	700FH	
P23.16	PID	1	7010H	
P23.17	PLC	1	7011H	
P23.18	PULSE	0.01kHz	7012H	
P23.19	(Hz)	0.01Hz	7013H	
P23.20		0.1Min	7014H	
P23.21	AI1	0.001V	7015H	
P23.22	AI2 V	0.001V/0.01mA	7016H	
P23.23	AI3	0.001V	7017H	
P23.24		1m/Min	7018H	
P23.25		1Min	7019H	
P23.26		0.1Min	701AH	
P23.27	PULSE	1Hz	701BH	
P23.28		0.01%	701CH	
P23.29		0.01Hz	701DH	
P23.30	X	0.01Hz	701EH	
P23.31	Y	0.01Hz	701FH	
P23.32		1	7020H	
P23.33			7021H	
P23.34		1	7022H	
P23.35	(%)	0.10%	7023H	
P23.36		100.00%	7024H	
P23.37		0.1 °	7025H	
P23.38	ABZ	1	7026H	
P23.39	VF	1V	7027H	
P23.40	VF	1V	7028H	
P23.41	DI	1	7029H	

P23.42	D0	1	702AH
P23.43	DI	1	702BH
P23.44	D0	1	702CH
P23.45		1	702DH
P23.46			702EH
P23.47~ P			
23.57			
P23.58	Z	100.00%	703AH
P23.59	(%)	0.01%	703BH

7

7.1 P0

P00.00			0
		0 65535	

P00.00

P00.00 00000

P00.01			0
		0	
		1	
		2	

1

P00.01 1

1 (P1);

2 P00.00, P00.01;

3 P07.14 P07.45;

4 P10.34 P10.55, P11.00 P11.21;

5 P02.09 P02.13 P02.14 ;

6 P08.10 P08.12 ;

7 P12.13 P12.16, P13.13 P13.16;

2

P02.13

P00.02				11
			P23,P27	
		0		
		1		
			P11,P13,P16,P19,P20,P21	
		0		
		1		

P00.04				0
		0		
		1		

1

P2

P02.01	F2			0
		0	F2	
		1		
		2		
		3		
		4		

F2

1

F2

F2

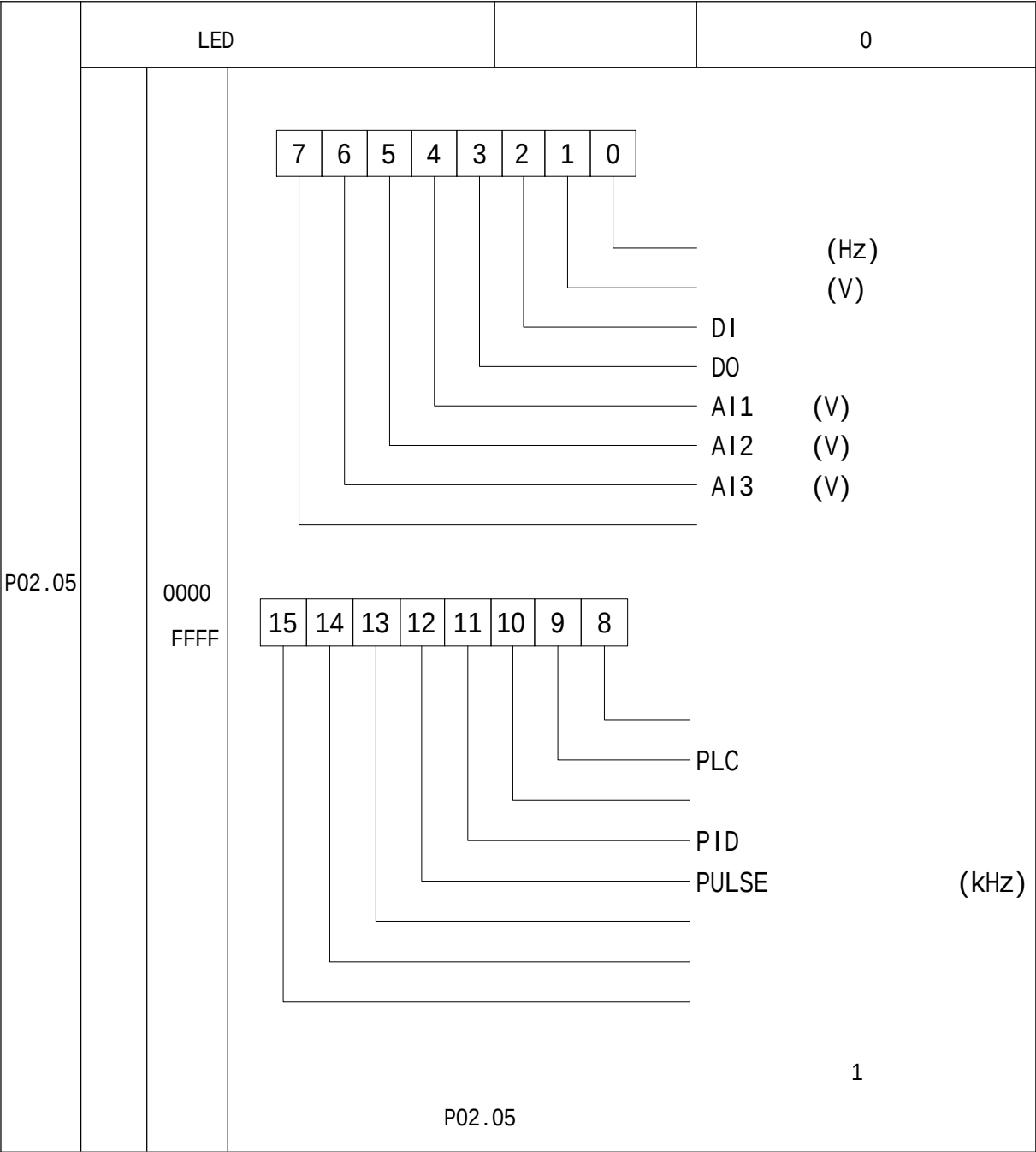
FJOG

F2

RJOG

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P02.02	STOP/RESET			1
		0	,STOP/RES	
		1	,STOP/RES	
P02.04	LED		2	0
	0000 FFFF	76543210 PID PLC PULSE 2(Hz) AI1 AI2 AI3 15141312111098 (Hour) (Min) PULSE (Hz) X Y 1		
		P02.04		



P02.06			1.0000
		0.0001 6.5000	

P02.12

P02.07			0
		0.0	100.0

IGBT

IGBT

P02.09			0h
		0h	65535h

P21.17

12 ON

P02.11			
P02.12			1
		0	0
		1	1
		2	2
		3	3

P02.06

2.000

40.00Hz

P02.12

2 2

40.00*2.000 = 80.00 2

“

”

50.00Hz

50.00*2.000 = 100.00 2

P02.13			0h
		0h	65535h

P21.17

24

ON

P02.14			-
		0 65535	

7.3

P3

GF630N04

8

HDI

2

P03.00	DI1	1	
P03.01	DI2	4	
P03.02	DI3	9	
P03.03	DI4	12	1
P03.04	HDI	13	2
P03.05	DI6	0	
P03.06	DI7	0	
P03.07	DI8	0	

0		“ ”
1	FWD	

2	REV	
3		P03.01 “ ”
4	FJOG	FJOG RJOG
5	RJOG	P21.00 P21.01 P21.02
6	UP	
7	DOWN	
8		P08.38
9	RESET	RESET
10		PID PLC
11		E015
12	1	P07.47 16 16 16
13	2	
14	3	
15	4	
16	1	4 4
17	2	
18		P08.07
19	UP/DOWN	UP/DOWN UP/DOWN P08.08

20		P08.02=1 P08.02=2
21		
22	PID	PID PID
23	PLC	PLC PLC
24		
25		
26		
27		
28		
29		
30	PULSE DI5	DI5
31		
32		
33		E015
34		
35	PID	PID P15.03
36	1	STOP
37	2	

38	PID	PID	PID
39	X	X	P08.08
40	Y	Y	P08.08
41	1	4	4
42	2		
43	PID	PID DI P15.18=1 PID P15.05 P15.07 P15.15 P15.17	
44	1	1 2	E027
45	2	E028	P07.49
46	/	P20.00	/
47			
48	2	4	
49			
50		P21.42 P21.53	

4 l t

3	0	1	0	0
4	1	1	0	0
5	0	0	1	0
6	1	0	1	0
7	0	1	1	0
8	1	1	1	0
9	0	0	0	1
10	1	0	0	1
11	0	1	0	1
12	1	1	0	1
13	0	0	1	1
14	1	0	1	1
15	0	1	1	1
16	1	1	1	1
0 OFF 1 ON				

2	1		
OFF	OFF	1	P08.17 P08.18
OFF	ON	2	P21.03 P21.04
ON	OFF	3	P21.05 P21.06
ON	ON	4	P21.07 P21.08

2	1		
OFF	OFF	1	P10 P12
OFF	ON	2	P11

P03.10	DI		0.010s
		0.000s 1.000s	

DI

DI

P03.11				0
		0	1	
		1	2	
		2	1	
		3	2	

DI1 DI10

DI1 DI2 DI3

P03.00 P03.02

P03.00 P0309

DI1 DI2 DI3

0 1

DIx DIy

DIx	1	FWD
DIy	2	REV

DIx DIy DI1 DI10

1 2

DIx DIy

DIx	1	FWD

DIy	2	REV
-----	---	-----

DIx
DIy
DI1
DI10

2
1
DIn
DIX
DIY

DIx	1	FWD
DIy	2	REV
DIn	3	

DIn
DIX
DIY

DIn
DIX
DIY
DIn
DI1

DI10
DIX
DIY
DIn

3
2
DIn
DIX
DIY

DIx	1	FWD
DIy	2	REV
DIn	3	

DIn
DIX
DIY

DIn		Dlx Dly DIn DI1	
DI10	Dlx	Dly DIn	
P03.12	UP/DOWN		1.00Hz/s
		0.01Hz/s	65.535Hz/s

UP/DOWN

P8.22 2 0.001Hz/s 65.535Hz/s P8.22

1 0.01Hz/s 655.35

P03.15	DI1		0.0s
		0.0s	3600.0s
P03.16	DI2		0.0s
		0.0s	3600.0s
P03.17	DI3		0.0s
		0.0s	3600.0s

DI

DI1 DI2 DI3

P03.13	DI	1	00000
			DI1
		0	
		1	
			DI2 0 1
			DI3 0 1
			DI4 0 1
			HDI 0 1
P03.14	DI	2	00000
			DI6

		0	
		1	
			DI7 0 1
			DI8 0 1

COM

DI

COM

DI

7.4

P4

GF630N04

1

(A01)

2

(D01 D02)

1

(R1)

1

HDO

P04.00	HDO		0
		0	FMP
		1	FMR

HDO

FMP

FMR

	FMP	50kHz	FMP	P06.06
P04.01	FMR			0
P04.02	1			2
P04.03				0
P04.04	D01			1
P04.05	D02			4

5

5

0

1

ON

2

ON

3

FDT1

P21.19 P21.20

4

P21.21

5

0

ON

OFF

6

ON

P07.00 P07.02

7

10s

ON

8

15		ON
16	AI1>AI2	AI1 AI2 ON
17		ON
18		ON OFF
19		ON
20		
21		
22		
23	2	0 ON ON
24		P02.13 P21.16 ON
25	FDT2	P21.28 P21.29
26	1	P21.30 P21.31
27	2	P21.32 P21.33
28	1	P21.38 P21.39
29	2	P21.40 P21.41
30		P21.42 ON
31	AI1	AI1 P21.46 AI1 P21.45 AI1 ON
32		ON
33		ON
34		P21.28 P21.29

			D01	0	1
			D02	0	1

FMR1D01D02

0

7.5P5

P05.00	AI1		-10.00V
		-10.00V P05.02	
P05.01	AI1		-100.00%
		-100.00% 100.0%	
P05.02	AI1		10.00V
		P05.00 10.00V	
P05.03	AI1		100.0%
		-100.00% 100.0%	
P05.04	AI1		0.10s
		0.00s 10.00s	

“ ” P05.02

“ ” “ ” P05.00

“ AI ” P05.21 0.0%

1mA 0.5V

AI1 AI1



P05.08	AI 2		100.0%
			-100.00% 100.0%
P05.09	AI2		0.10s
			0.00s 10.00s

2

1

P05.10	AI 3		-10.00V
			0.00s P05.12
P05.11	AI 3		-100.00%
			-100.00% 100.0%
P05.12	AI 3		10.00V
			P05.10 10.00V
P05.13	AI 3		100.0%
			-100.00% 100.0%
P05.14	AI3		0.10s
			0.00s 10.00s

3

1

P05.15	PULSE		0.00kHz
			0.00kHz P05.17
P05.16	PULSE		0.0%
			-100.00% 100.0%
P05.17	PULSE		50.00kHz
			P05.15 50.00kHz

		0	
		1	0.0%
			AI_I 0 1

“ ”

		AI_V AI_I	
0	AI	“ ”	
“	”	P05.01 P05.06 P05.11	
1	AI		0.0%

7.6 P6

P06.00	FMP		0
P06.01	A01		0

F M P 0 . 0 1 k H z ~ P06.03 F M P

P06.03 0.01kHz~50.00kHz

A01 0V 10V 0mA 20mA

		0.0%~100.0%
0		0
1		0
2		0 2
3		0 2
4		0 2
5		0 1.2
6	PULSE	0.01kHz 50.00kHz

7	AI1	0V	10V	
8	AI2	0V	10V	0 20mA
9	AI3	0V	10V	
10		0		

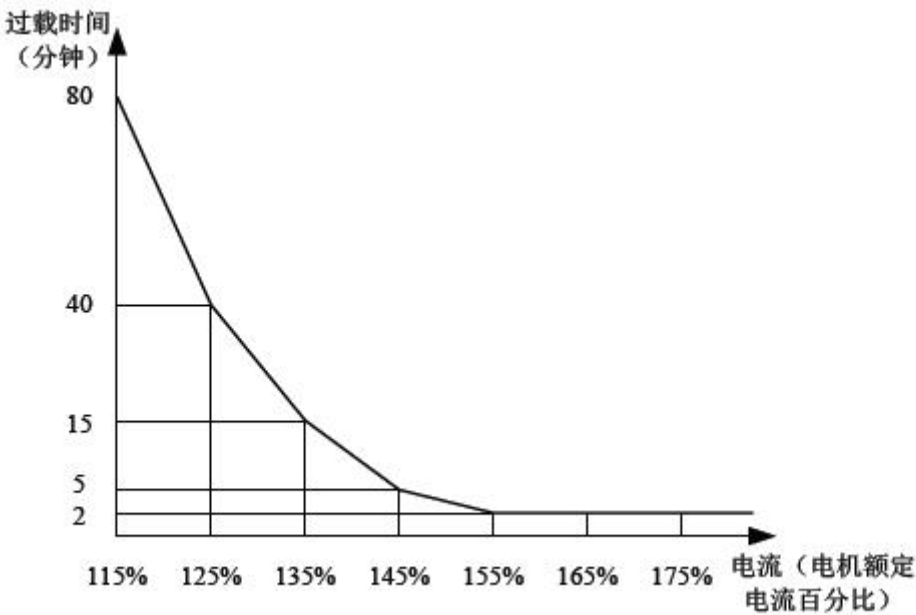
			0	8V
3V		“ -0.50 ” ,		“ 80% ”

7.7
P7

P07.00				1
		0		
		1		
P07.01				1.00
			0.20 10.00	

P07.00=0

P07.00=1



	120%		30
30		Ix	
	30		125% 135%

30 Ix $(40-30) \div (125\% - Ix) = (40-15) \div (125\% - 135\%)$

Ix=129% 120% 30

P07.01=120% ÷ Ix=120% ÷ 129%=0.93

P07.01

P07.02			80%
		50% 100%	

DO

P07.02

DO “ ” ON

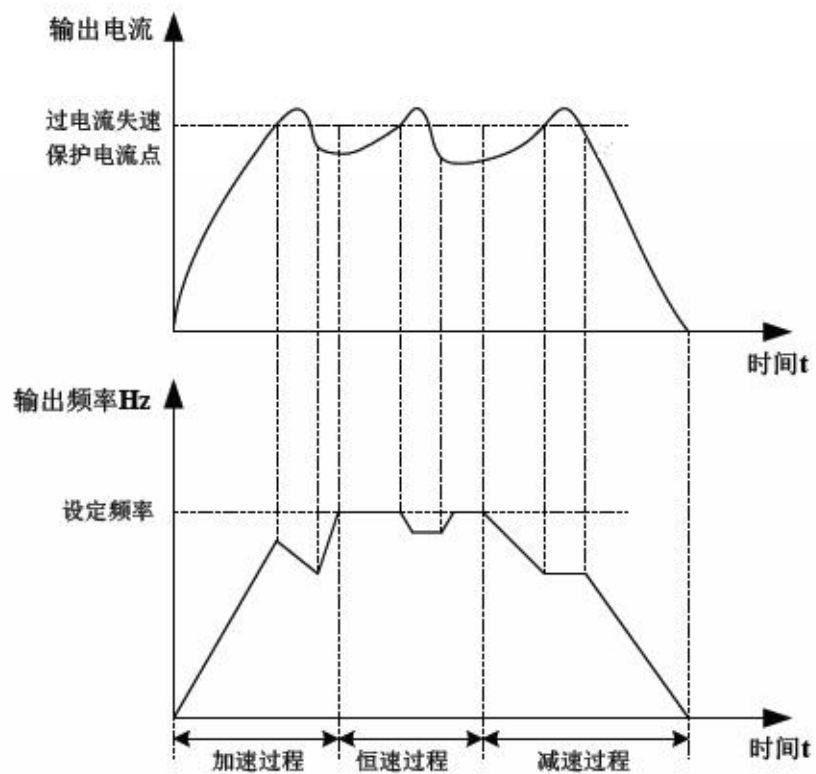
P07.03			0
		0	100
P07.04			760.0
		200.0~2200.0	

0

P07.05			20
		0 100	
P07.06			150%
		50% 200%	

P07.06

P07.06



P07.07			11
P07.08			
		200.0V~2000.0V	

UVW

P07.09			0
		0 20	

P07.10	D0		1
		0 1	

D0

P07.10

P07.11			1.0s
		0.1s 100.0s	

P07.12			1
		0 1	

P07.13			11
		0 1	

P07.14		0 999	
P07.15			
P07.16			

0

P07.17		
P07.18		
P07.19		

P07.20											
		BI T9	BI T8	BI T7	BI T6	BI T5	BI T4	BI T3	BI T2	BI T1	BI T0
		DI 0	DI 9	DI 8	DI 7	DI 6	DI 5	DI 4	DI 3	DI 2	DI 1
		0 ON 1 OFF									

P07.21											
		BIT4		BIT3		BIT2		BIT1		BIT0	
		D02		D01		D04		D05		FMP	
		0		ON		1		OFF			

P07.22		
P07.23		
P07.24		
P07.27		P07.17 P07.24
P07.28		
P07.29		
P07.30		
P07.31		
P07.32		
P07.33		
P07.34		
P07.37		P07.17 P07.24
P07.38		
P07.39		
P07.40		
P07.41		
P07.42		



	3		00000
		1 E027	P07.47
		2 E028	P07.47
		E029	P07.47
P07.49			E030
	0		

		4	
P07.55			100.0%
			0% 100.0%

A** P07.54

P07.55

P07.56			0
		0	
		1	PT100
		2	PT1000
P07.57			110
			0 200
P07.58			90
			0 200

AI3

AI3

PGND

GF630N04 AI3 PT100 PT1000

P20.34

P07.57

		P07.58	D0
ON			

P07.63			0
		0	
		1	
P07.64			10.0%
			0.0% 100.0%
P07.65			1.0s
			0.0s 60.0s

		P07.64	
	P07.65		7%

P07.67			15.0%
			0.0% 50.0%
P07.68			1.0s
			0.0s 60.0s

		P07.67	
	P07.68	E115	

P07.69			20.0%
--------	--	--	-------

		0.0% 50.0%	
P07.70			2.0s
		0.0s 60.0s	

P07.69

P07.70

E119

0.0s

7.8

P8

P08.01	1			0
		0	SVC	
		1	FVC	
		2	V/F	

0

1

PG

2 V/F

P12 2 P13

GF630N04

P08.02				0
		0	LOCAL	
		1	LOCAL	
		2	LOCAL	

0 “ LOCAL ” RUN STOP

1 “ LOCAL ” FWD() REV()
FJOG() RJOG()

2 “ LOCAL ”

P08.03	X			0
		0	P08.08 UP/DOWN	
		1	P08.08 UP/DOWN	
		2	AI1	
		3	AI2	
		4	AI3	
		5	DI5	
		6		

		7	PLC
		8	PID
		9	

10

0

P08.08 “ ” ▲ ▼

UP DOWN

P08.08 “ ”

1

P08.08 “ ” ▲ ▼

UP DOWN

▲ ▼

UP DOWN

P08.23 “ ” P08.23

P08.23

2 AI1

3 AI2

4 AI3

GF630N04 2 AI1

AI2 I/O 1 AI3

8 PID

PID

PID

P15 “PID”

9

P08.04	Y			0
		0	P08.08 UP/DOWN	
		1	P08.08 UP/DOWN	
		2	AI1	
		3	AI2	
		4	AI3	
		5	DI5	
		6		
		7	PLC	
		8	PID	
		9		

X Y

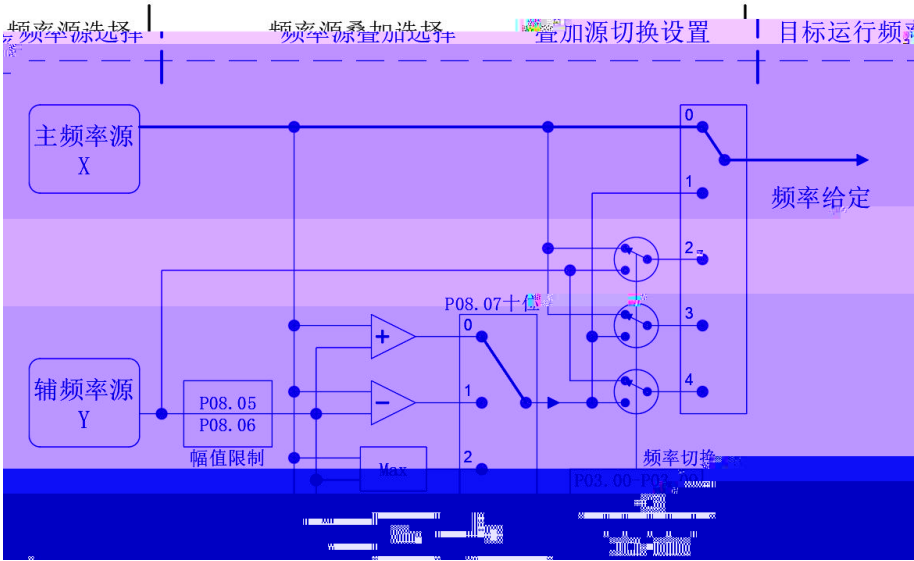
X

P08.03

		0	X	
		1		
		2	X	Y
		3	X	
		4	Y	
		0	+	
		1	-	
		2		
		3		

X

Y



0 X

X

1

“ ”

2 X Y

		X			18
			Y		
3		X			18
			X		18
4			Y		18
				Y	18
0		X+		Y	
		X		Y	
1		X-		Y	
		X		Y	
2	MAX		X	Y	X Y

P08.08				50.00Hz
			0.00	

“ ” “ UP/DOWN ”

P08.09				0
		0		
		1		

U V W

P08.10			50.00 Hz
		5.00Hz 500.00Hz	

GF630N04

DI5

100.0%

P08.10

GF630N04

500Hz

P08.22

P08.22

1

0.1Hz

P08.10

50.0Hz

500.0Hz

P08.22

2

0.01Hz

P08.10

50.00Hz

500.00Hz

P08.11				0
		0	P08.12	
		1	AI1	
		2	AI2	
		3	AI3	
		4	PULSE	
		5		

P08.12

100% P08.12

“ ”

P08.12			50.00Hz
		P08.14	P08.10
P08.13			0.00Hz
		0.00Hz	P08.10

PULSE P08.13

P08.11

P08.14			0.00Hz
		0.00Hz	P08.12

P08.14

P21.14

P08.15			
		0.5kHz	16.0kHz

	→
	→
	→
	→

	→
	→
	→

P08.16			0
		0 1	

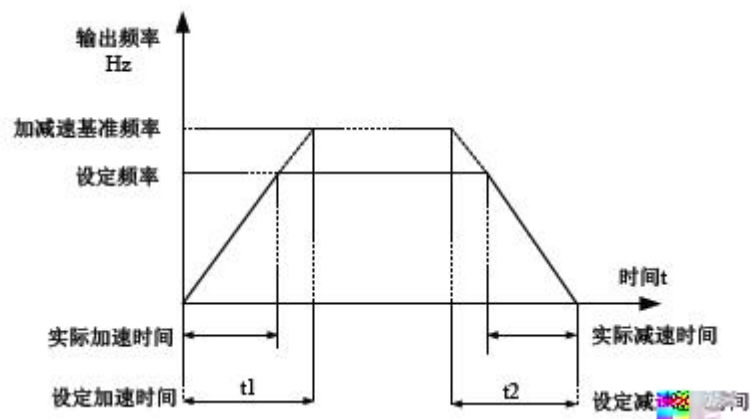
P08.17	1		
		0.00s	6500.0s
P08.18	1		
		0.00s	6500.0s

P08.25

t1

P08.25

t2



GF630N04 4

DI

P08.17 P08.18

P21.03 P21.04

P21.05 P21.06

P21.07 P21.08

P08.19				1
		0	1	
		1	0.1	
		2	0.01	

GF630N04 3 1 0.1

0.01

P8

P08.21			0.00Hz
--------	--	--	--------

		0.00Hz	P08.10
--	--	--------	--------

P8.21

P08.23				0
		0		
		1		

“ ”

P08.08



UP DOWN

“ ”



UP DOWN

P08.24				0
		0	1	
		1	2	

GF630N04

2

2

1

P10

P12

2

P11

P13

P08.24

DI

P08.25				0
		0	P08.10	
		1		
		2	100Hz	

P08.25

P08.25 1

UP/DOWN 0

P08.26

68.50

W „0

b0 n 00 。

P08.03~ P08.07

P08.28				0
		0		
		1		
		2		

0

0

0

1

2

P08.31			0.00Hz
		0.00Hz 10.00Hz	
P08.32			0.0s
		0.0s 100.0s	

P08.31

PLC

1

P08.31 0

P08.08 2.00Hz 2.00Hz

P08.31 5.00Hz 5.00Hz

P08.32 2.0s 2.0s

0.00Hz

2

P08.03 0

P08.08 10.00Hz 10.00Hz

P08.31 5.00Hz 5.00Hz

P08.32 2.0s 2.0s

5.00Hz 2.0s 10.00Hz

P08.33			0%
		0% 100%	
P08.34			0.0s
		0.0s 100.0s	

0

P08.35				0
		0		
		1	S	A
		2	S	B

0

1 S A S

SP08.36

P08.37 S

$$t = \left(\frac{4}{9} \times \left(\frac{f}{f_b}\right)^2 + \frac{1}{9}\right) \times T$$

f		f b	T	0	f b
P08.36	S			30.0%	
			0.0%	100.0%-	P08.37
P08.37	S			30.0%	
			0.0%	100.0%-	P08.36

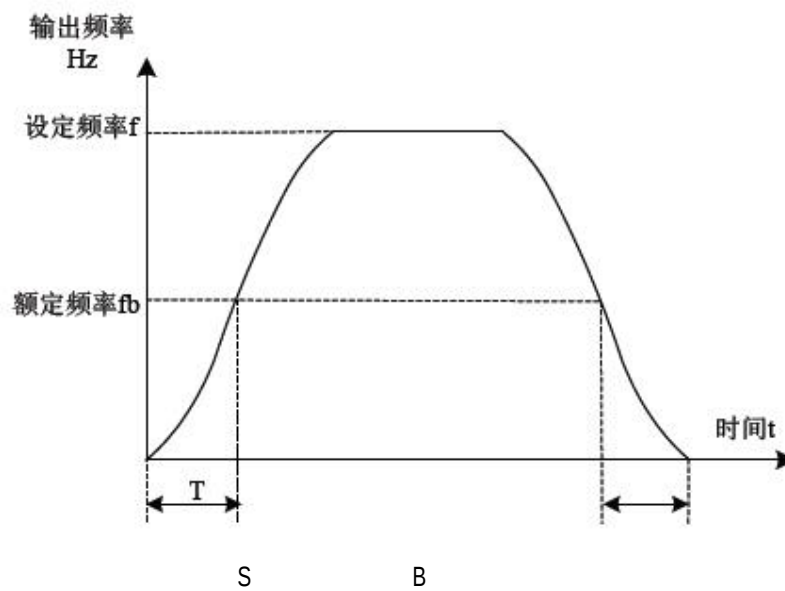
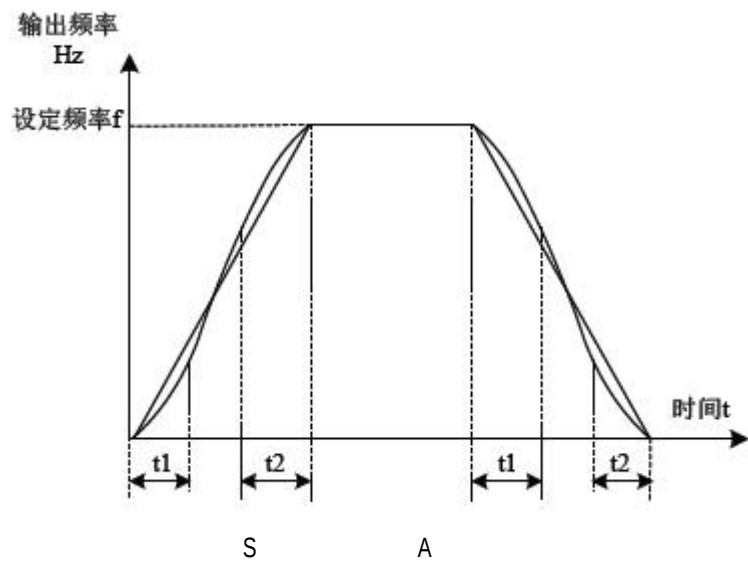
P08.36 P08.37 S A

$$P08.36 + P08.37 \leq 100.0\%$$

t1 P08.36

t2 P08.370

t1 t2



P08.38			0
		0	
		1	

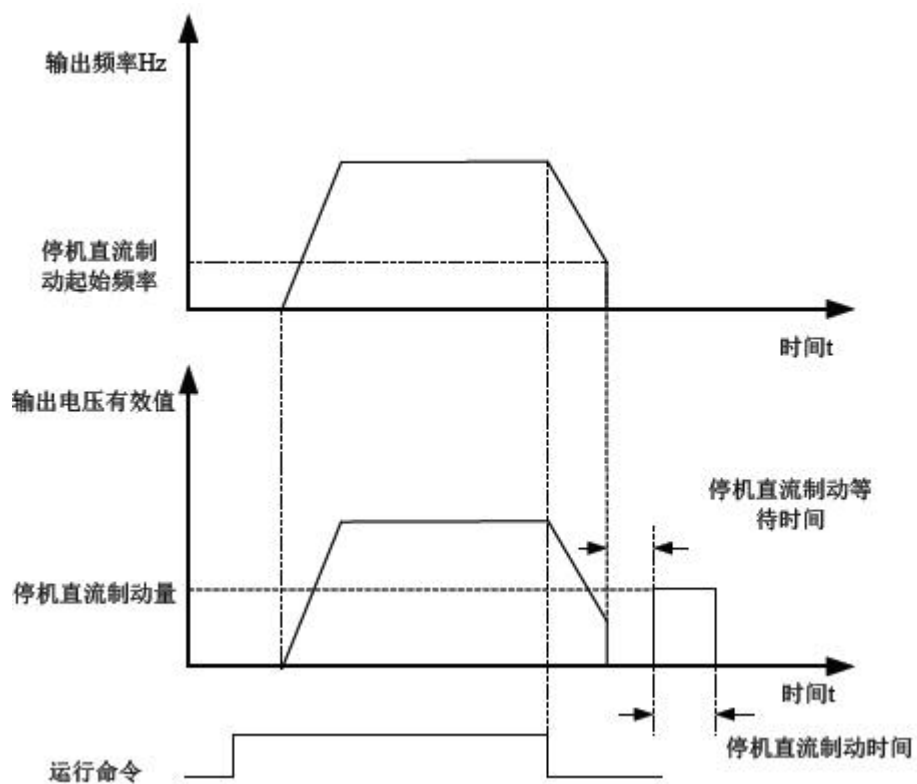
0

0

1

P08.39			0.00Hz
		0.00Hz	
P08.40			0.0s
		0.0s 36.0s	
P08.41			0%
		0% 100%	
P08.42			0.0s
		0.0s 36.0s	

É Ð Ð
f χÐ — m" W t m" χÐ Ðm" É — W" ím" t × Ð



P08.43			100%
		0% 100%	

P08.45			0
	0		
	1		
P08.47			0.200S
			0.010-10.000S
P08.49			5.000S
			0.010-10.000S
P08.51			0
	0		

		1	
P08.52	DI		0
		0	1
		1	2

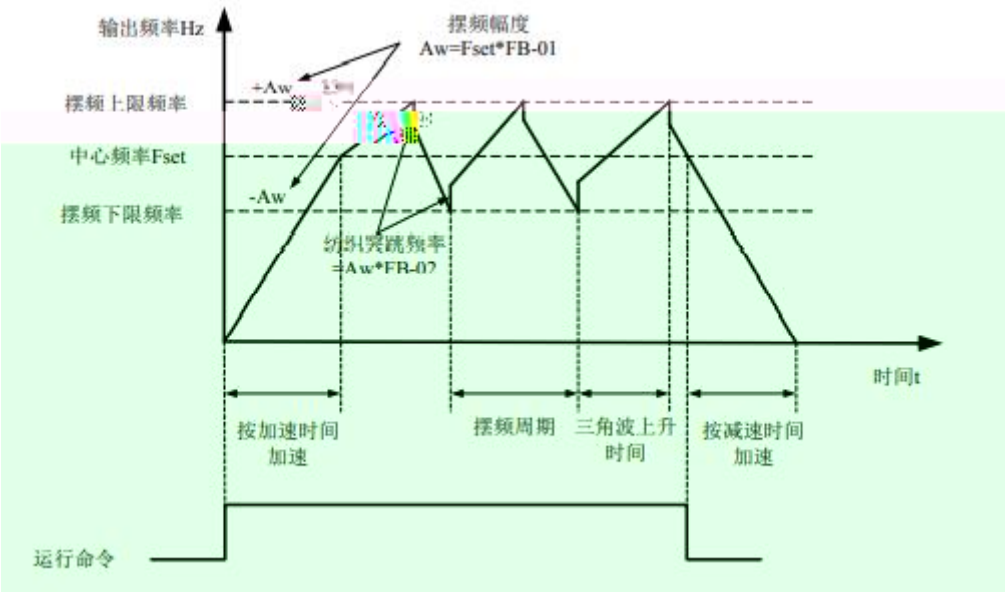
P08.51

P08.47

DI			1	2		
	DI1	1	P03.00=1	DI2	4	P03.01=4
1	DI1					
2	DI1		DI2			DI1

7.9 P9

P09.00	P09.01	P09.01	0	0
--------	--------	--------	---	---



P09.00			0
		0	
		1	

0

1

P09.01			0.0%
		0.0% 100.0%	
P09.02			0.0%
		0.0% 50.0%	

P09.00=0 AW × P09.01

P09.00=1 AW × P09.01

AW ×

P09.02

P09.00=0

P09.00=1

P09.03			10.0s
		0.0s 3000.0s	
P09.04			50.0%
		0.0% 100.0%	

P09.04

P09.03

P09.03 ×

P09.04

P09.03 × 1

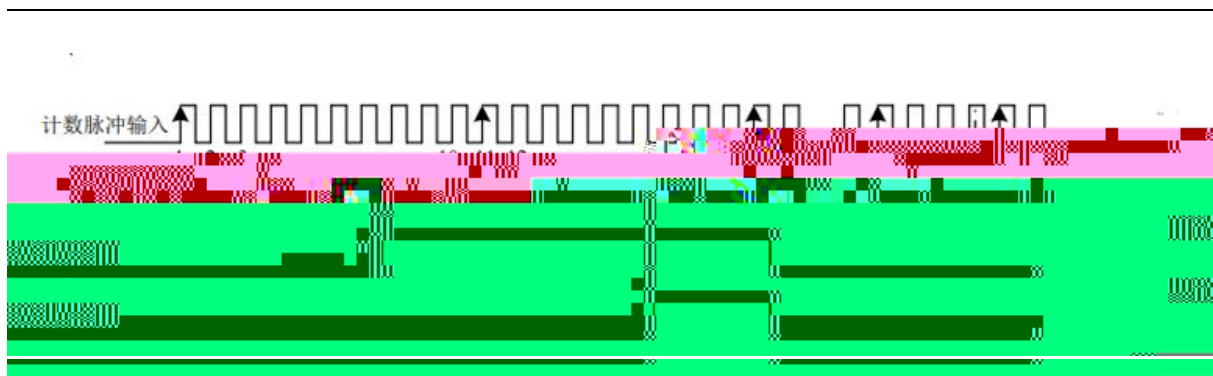
P09.04

P09.05			1000m
		0m 65535m	
P09.06			0m
		0m 65535m	
P09.07			100.0
		0.1 6553.5	

P09.07

P09.06

P09.05



GF630N04

VF

PID

PLC

P09.10	0		0.0%
			-100.0% 100.0%
P09.11	1		0.0%
			-100.0% 100.0%
P09.12	2		0.0%
			-100.0% 100.0%
P09.13	3		0.0%
			-100.0% 100.0%
P09.14	4		0.0%
			-100.0% 100.0%
P09.15	5		0.0%
			-100.0% 100.0%
P09.16	6		0.0%
			-100.0% 100.0%
P09.17	7		0.0%
			-100.0% 100.0%

P09.18	8		0.0%
		-100.0% 100.0%	
P09.19	9		0.0%
		-100.0% 100.0%	
P09.20	10		0.0Hz
		-100.0% 100.0%	
P09.21	11		0.0%
		-100.0% 100.0%	
P09.22	12		0.0%
		-100.0% 100.0%	
P09.23	13		0.0%
		-100.0% 100.0%	
P09.24	14		0.0%
		-100.0% 100.0%	
P09.25	15		0.0%
		-100.0% 100.0%	

VF PID

-100.0%~100.0%

VF

PID PID

DI <(æ1 È

7.10 V/F

1

P10

P10.35			
		0.1kW 1000.0kW	
P10.36			
		1V 2000V	
P10.37			
		0.01A 655.35A	<=55kW
		0.1A 6553.5A	>55kW
P10.38			
		0.01Hz	
P10.39			
		1rpm 65535rpm	

VF

VF

P10.50			
		0.001Ω 65.535Ω	<=55kW
		0.0001Ω 6.5535Ω	>55kW
P10.51	D		
		0.01mH 655.35mH	<=55kW
		0.001mH 65.535mH	>55kW
P10.52	Q		
		0.01mH 655.35mH	<=55kW
		0.001mH 65.535mH	>55kW

P10.71				0
		0		
		11		
		12		

P10.34~P10.39.0

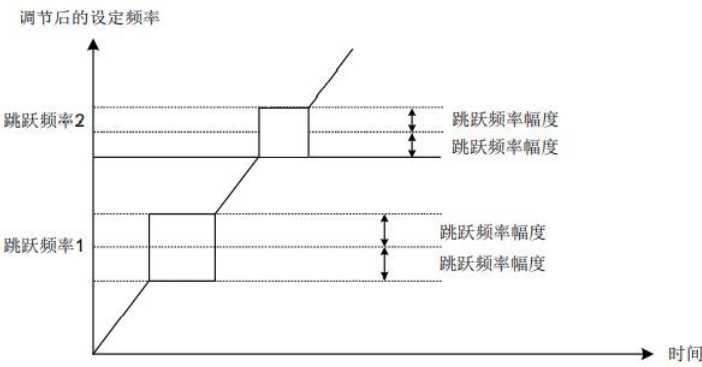
B

B

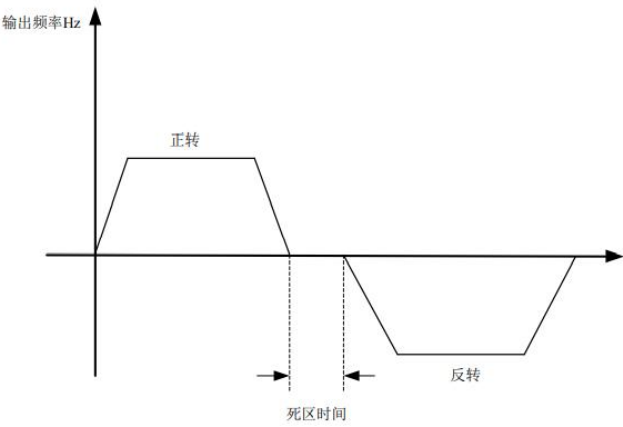
0 0

GF630N04

0

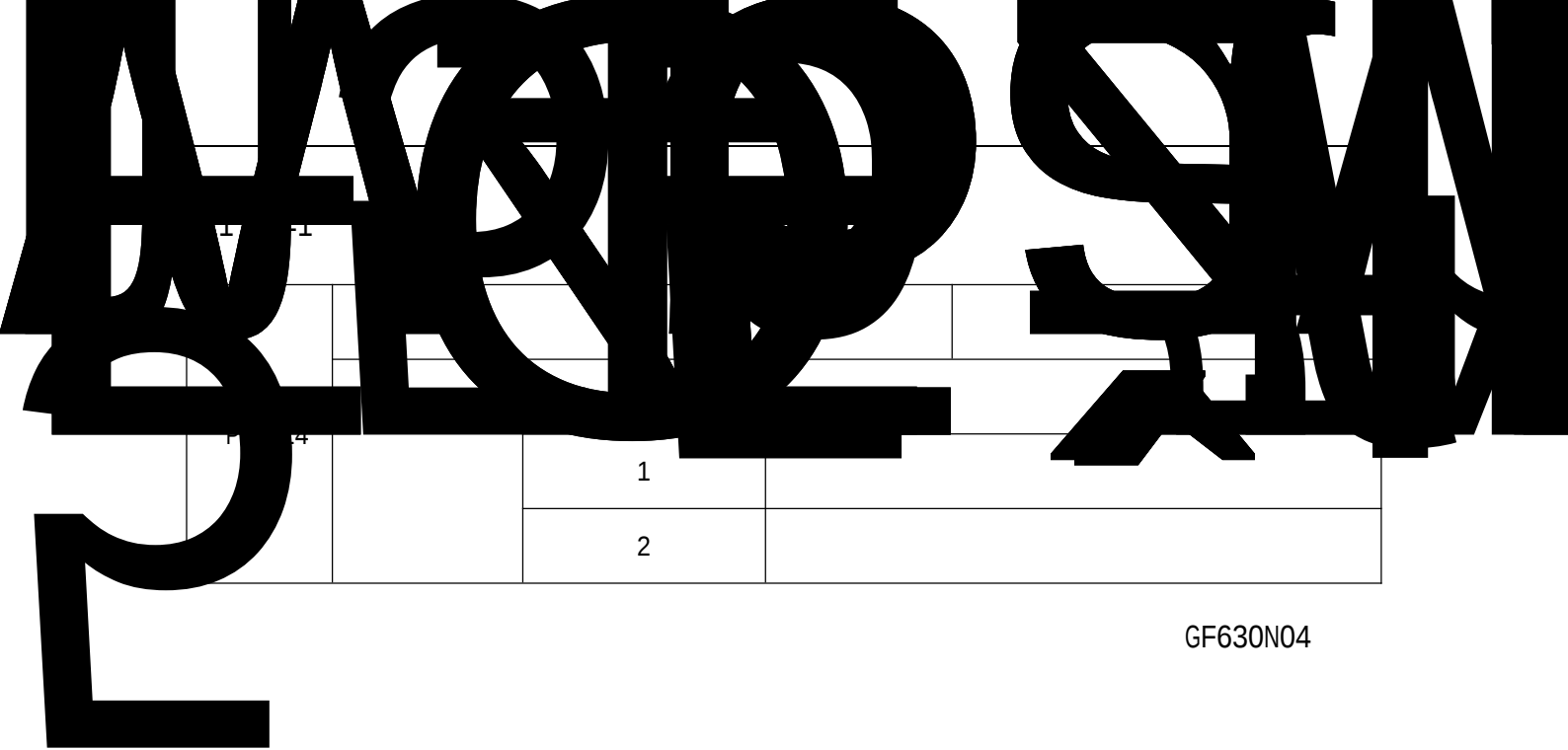


P21.12			0.0s
		0.00s 3000.0s	



0Hz

P21.13			0
		0	
		1	



		1	
		2	

GF630N04

P21.15			0.0%
		0.0%	100.0%

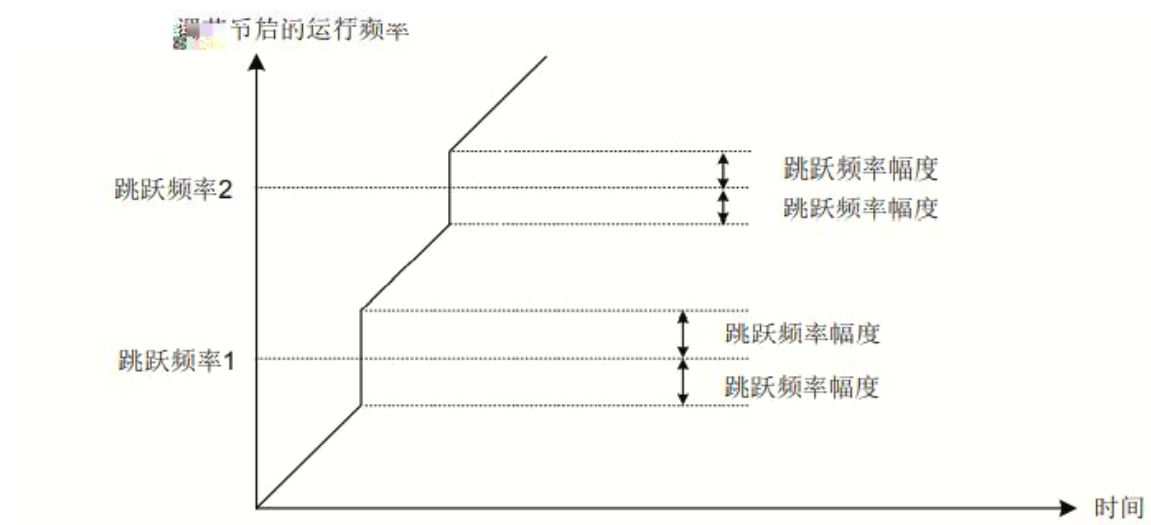
0

P21.15

1

1

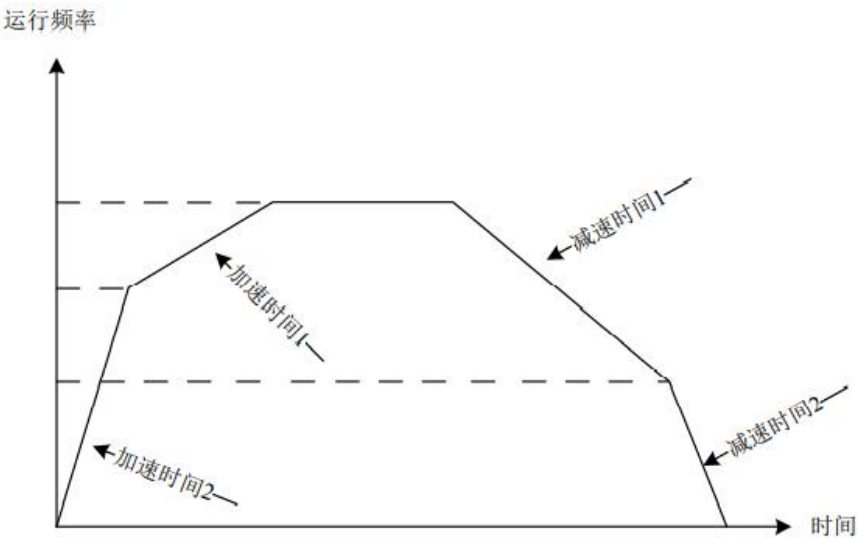
P21.22			0
		0 1	



P21.25	1	2		0.00Hz
			0.00Hz	
P21.26	1	2		0.00Hz
			0.00Hz	

1 DI

DI



P21.25

2

P21.25

1

P21.26

1

P21.26

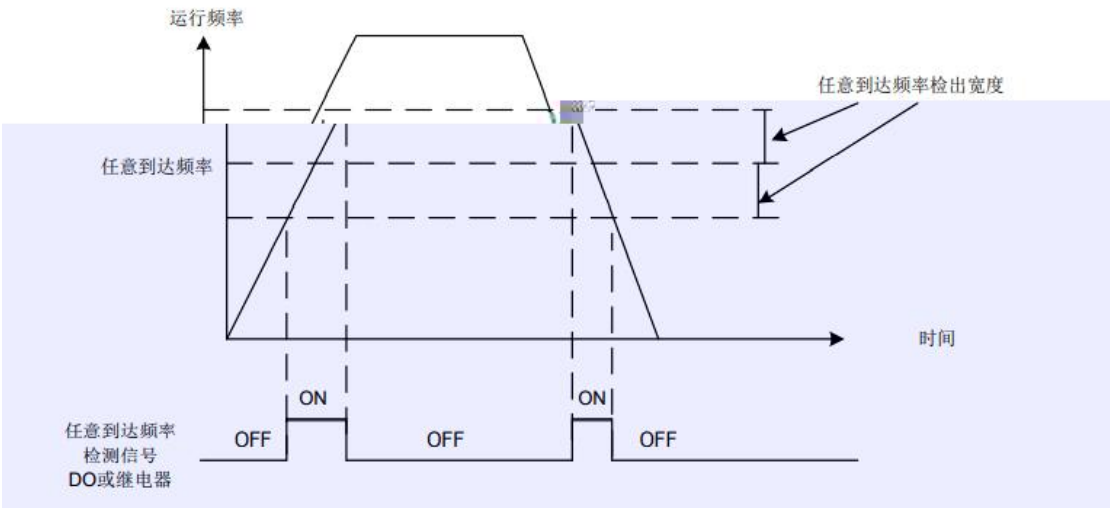
2

P21.31	1		0.0%
		0.0% 100.0%	
P21.32	2		50.00Hz
		0.00Hz	
P21.33	2		0.0%
		0.0% 100.0%	

DO

ON

GF630N04



P21.42			0
		0	
		1	
P21.43			0
		0	P21.44
		1	AI1
		2	AI2
		3	AI3
		100% P21.44	
P21.44			0.0Min
		0.0Min 6500.0Min	

P21.42

DO ON

0

P23.20

P21.43 P21.44

P21.61				1
		0		
		1		

E040

7.12

P19

P19.30	AI1	1		
			-10.000V 10.000V	
P19.31	AI1	1		
			-10.000V 10.000V	
P19.32	AI1	2		
			-10.000V 10.000V	
P19.33	AI1	2		
			-10.000V 10.000V	
P19.34	AI2	1		
			-10.000V 10.000V	
P19.35	AI2	1		

		-10.000V 10.000V	
P19.36	AI2 2		
		-10.000V 10.000V	
P19.37	AI2 2		
		-10.000V 10.000V	
P19.38	AI3 1		
		-10.000V 10.000V	
P19.39	AI3 1		
		-10.000V 10.000V	
P19.40	AI3 2		
		-10.000V 10.000V	
P19.41	AI3 2		
		-10.000V 10.000V	

AI AI

P23 AI P23.21 P23.22 P23.23

AI P23

AI

AI1

AI1

(2V)

)

AI1

P19.30

P23.21

P19.31

AI1

(8V)

)

AI1

P19.32

P23.21

P19.33

AI2

AI3

P23.22

P23.23

-8V

8V

P19.42	A01	1		
			0.500V 4.000V	
P19.43	A01	1		
			0.500V 4.000V	
P19.44	A01	2		
			6.000V 9.999V	
P19.45	A01	2		
			6.000V 9.999V	

A0

8.1

E001	1	1
	2	2
	3	3
	4	4
	5	5
	6	6
	7	7
E003	1	1
	2	2
	3	3
	4	4
	5	5
	6	6
E004	1	1
	2	2
	3	3
	4	4
	5	5
E008	1	1
E011	1	P07 .10
	2	
	3	

EEPROM	E021	1 EEPROM	1
	E022	1 2	1 2
	E026	1	1
1	E027	1 DI 2 1 IO 1	1 2
2	E028	1 DI 2 2 IO 2	1 2
	E029	1	1
	E030	1 P07.64	1 P07.64 P07.65
PID	E031	1 PID P15.26	1 PID P15.26
	E040	1 2	1 2
	E041	1	1
	E045	1 2	1 2
	E051	SVC	P12.25 1 2 P07.72 1

	E113	1 2 3 4	1 2 3 4
	E114	1 2 3 4	1 2 3 4
	E115	1 2 3 P07.68	1 2 3 P07.67
	E118	P19.45 11 12 9 P23.45=1 1 PG P23.45=3 2 P23.45=5 3 P23.45=6 3 ABZ P23.45=7 4 P23.45=12 5 PG P23.45 7 1 Z Z P10.65 P10.65 1 1 P07.71 P07.71	Z Z P10.65 1 1 P07.71 P07.71
	E119	1 2 3 P07.69	1 2 3 P07.70
	E120	1 2 3 4 5	1 2 3 4 5

	E170	1 2 3 4 5 P12.10 PG P10.64	1 2 3 4 5 P10.64 P12.10 PG P07.72 0
	E202	1 2 3 3 P14.00 P14	1 2 3 4
	A064	1. 2. 3. 4. 5. P10.54	1. 2. 3. 40% 40% 4. 5. “ STOP ” P10.54

8.2

	1 2 3 4 5 6	1 2 3 4~6 34

HF630	1 2 3 4 5	1 2-5 34
“ E112 ”	1 2	1 2
“ HF630 ”	1 2	1 2
E120	1 2 3	1 2 3 P08.15
	1 2 3 4	1 2 3 4
DI	1 2 3 PW +24V 4	1 2 3 PW +24V 4 P3
	1 2 3 PG 4	1 2 PG 3-4
	1 2 3	1 2 3
Err17	1	1 2 3 24V 4
8.8.8.8.8	1	1

9



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



- 1.
- 2.
- 3.

CMOS

9.1

9.2

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

9.3

	2	1 2
PCB		

9.4

5

5

(400-0077-570)

- 1 40
- 2 80%
- 3 24 /

9.5

- 1
- 2

5

1
2
3

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