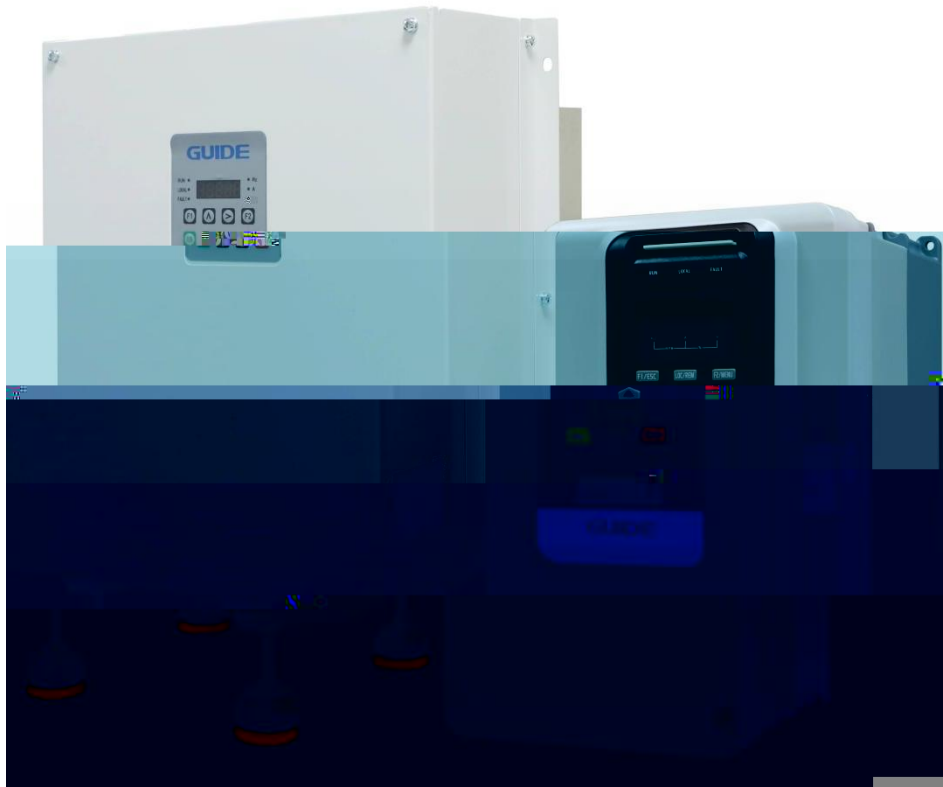
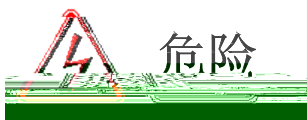




GF630N04

a - t



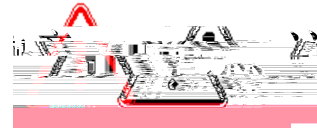
10

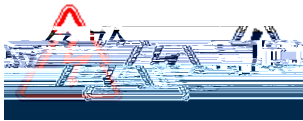


N
N

U V W







1

D

RCM

RCD

RCD

RCM

B

RCD

RCD

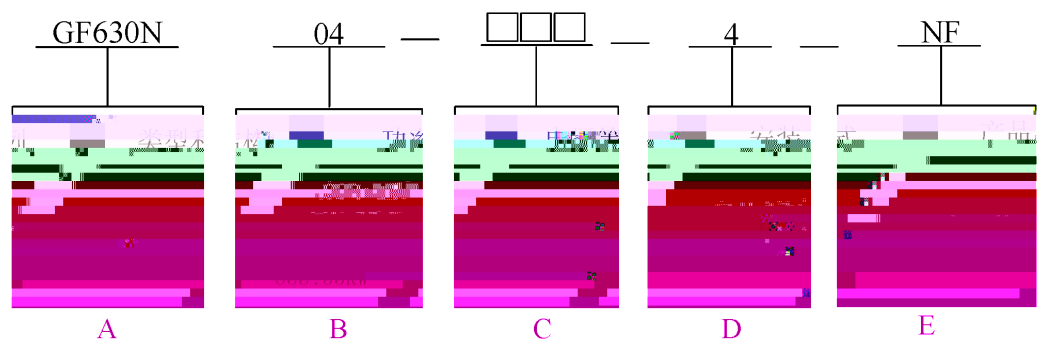
1		1
1.1		
1.2		
1.3		
1.4		
1.5		
1.6		
2		13
2.1		
2.2		
2.3		
2.4		
2.5		
2.6 EMC		
3		17
3.1		
3.2		
4		33
4.1		
4.2 LED		
5		40
5.1		
5.2		
5.3		
5.4		
5.5		
6		44
6.1	P0	
6.2	P2	
6.3	P3	
6.4	P4	
6.5	P5	
6.6	P6	
6.7	P7	
6.8	P8	
6.2	.	



6.18	P20	
6.19	P21	
6.20	P23	
7		91
7.1	P0	
7.2	P2	
7.3	P3	
7.4	P4	
7.5		P5
7.6		P6
7.7	P7	

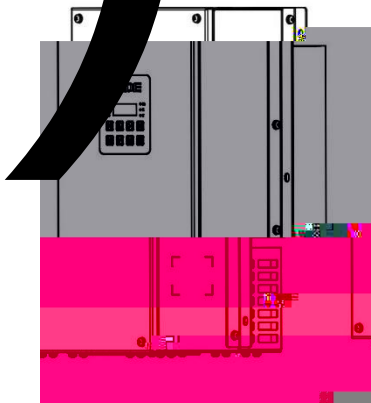
1

1.1



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

GF630N0

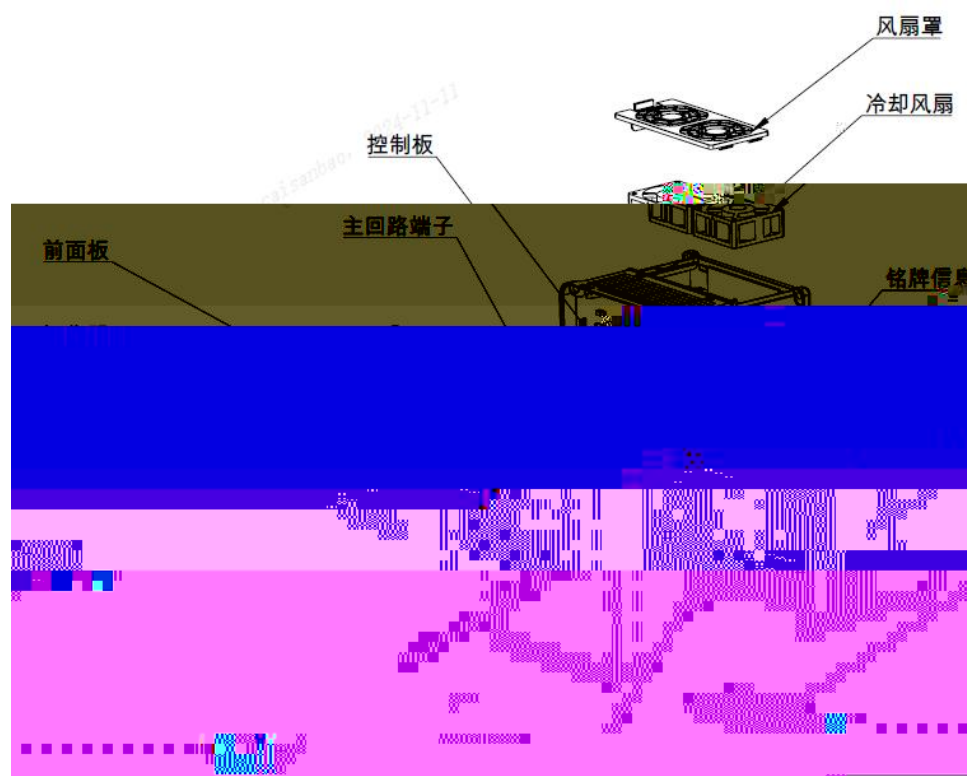


22kW

GF630N04-022-4-NE		型号: C
变频器		变频器
额定功率: 22kW		
输入: AC3PH 380V-480V 50/60Hz		
输出: AC3PH 0-480V 0-500Hz		
E- STAND-V1.00		Product ID.
MADE IN CHINA	8888888A8A088	WAD

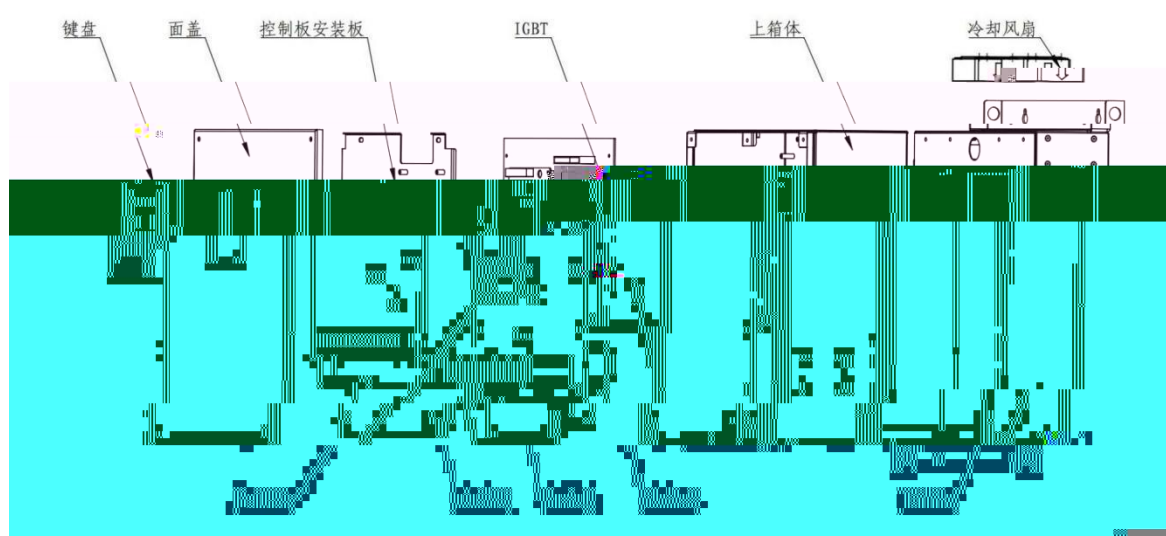
1.2

GF630N04



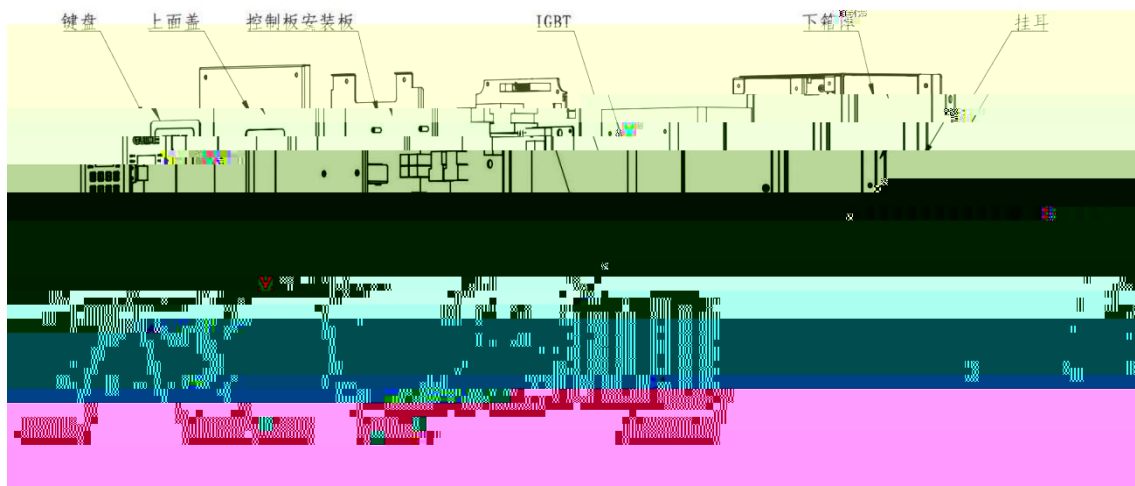
A1

380V 480V 22kW 45kW



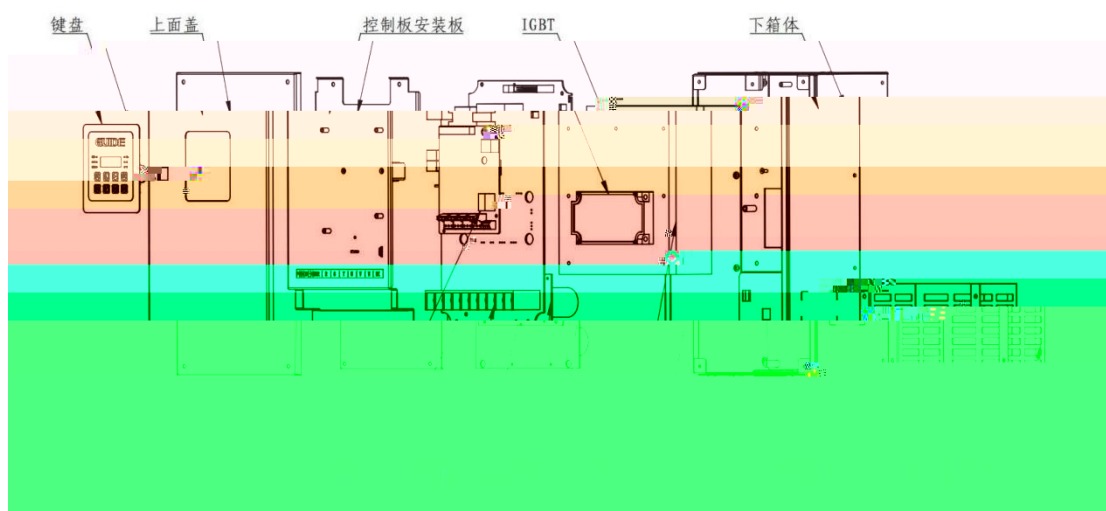
A2

380V 480V 55kW



A3/A5

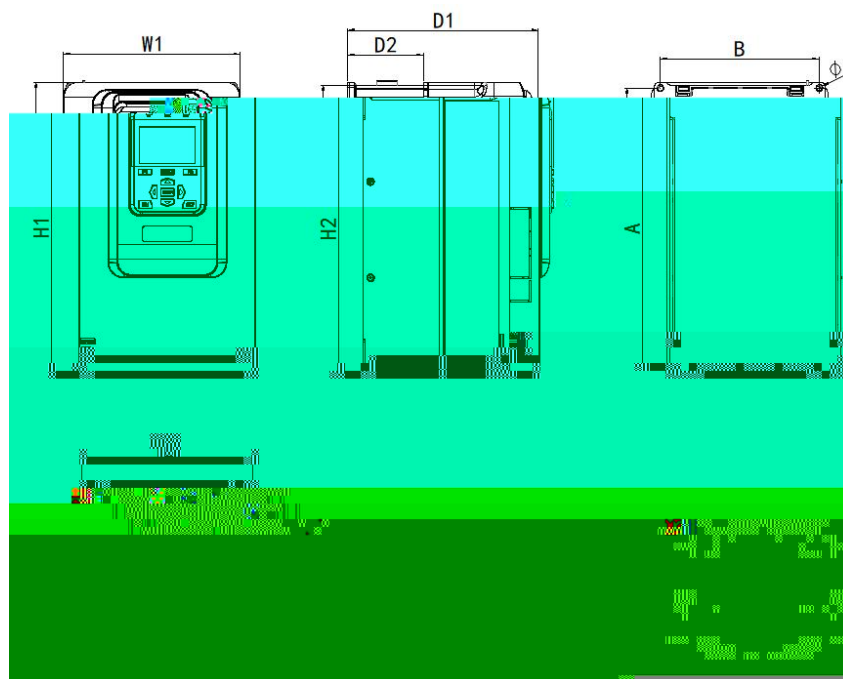
380V 480V 22-55kW



A4/A6

380V 480V 22kW-55kW

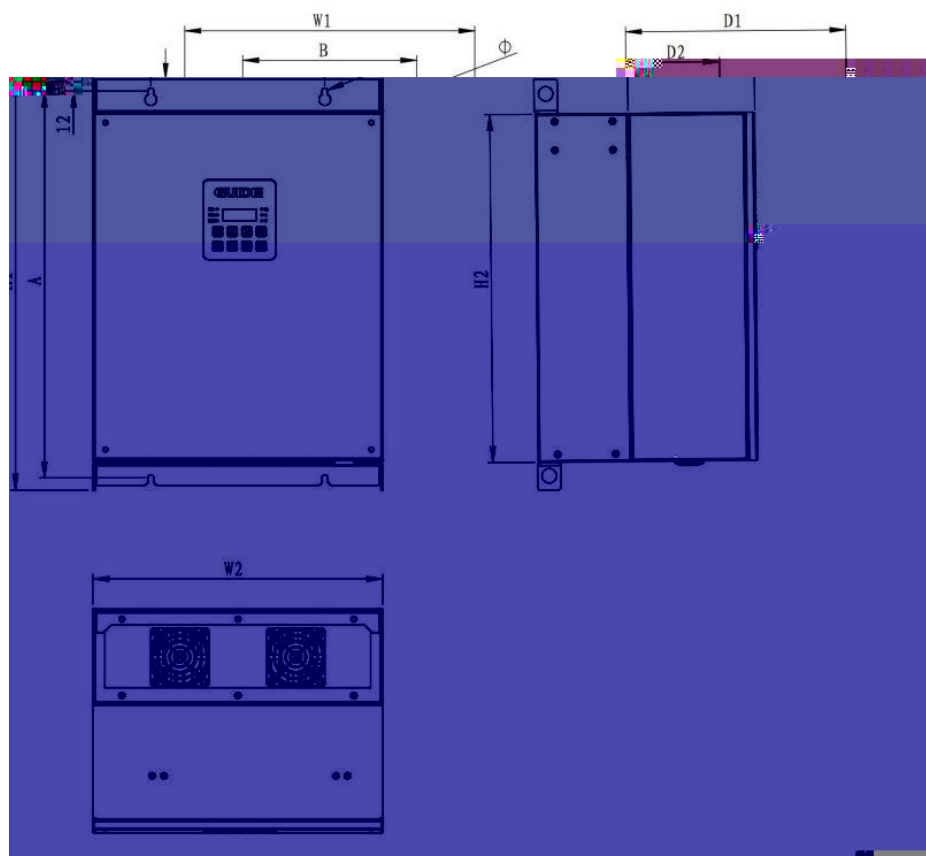
1.3



A1

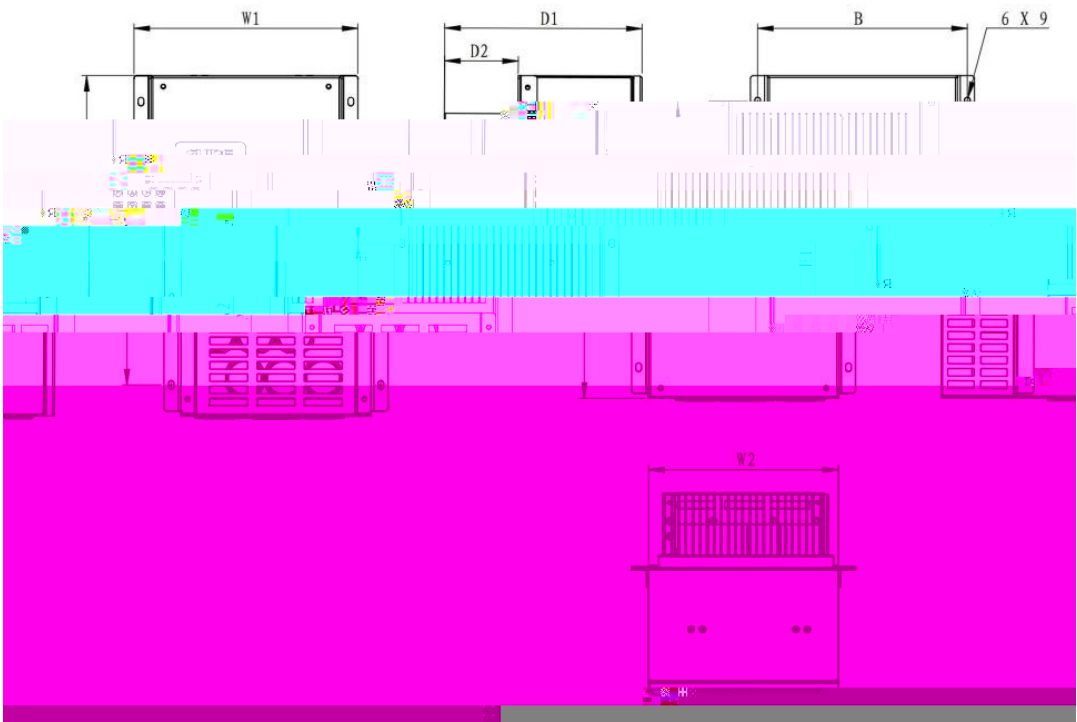
	(mm)						mm			8.8	kg
	H1	H2	W1	W2	D1	D2	A	B	φ	M	
22kW	302	294	180	174	194	78	288	162	4- φ 6	4-M5	6.5
37kW	302	294	180	174	194	78	288	162	4- φ 6	4-M5	6.5
45kW	302	294	180	174	194	78	288	162	4- φ 6	4-M5	6.5

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

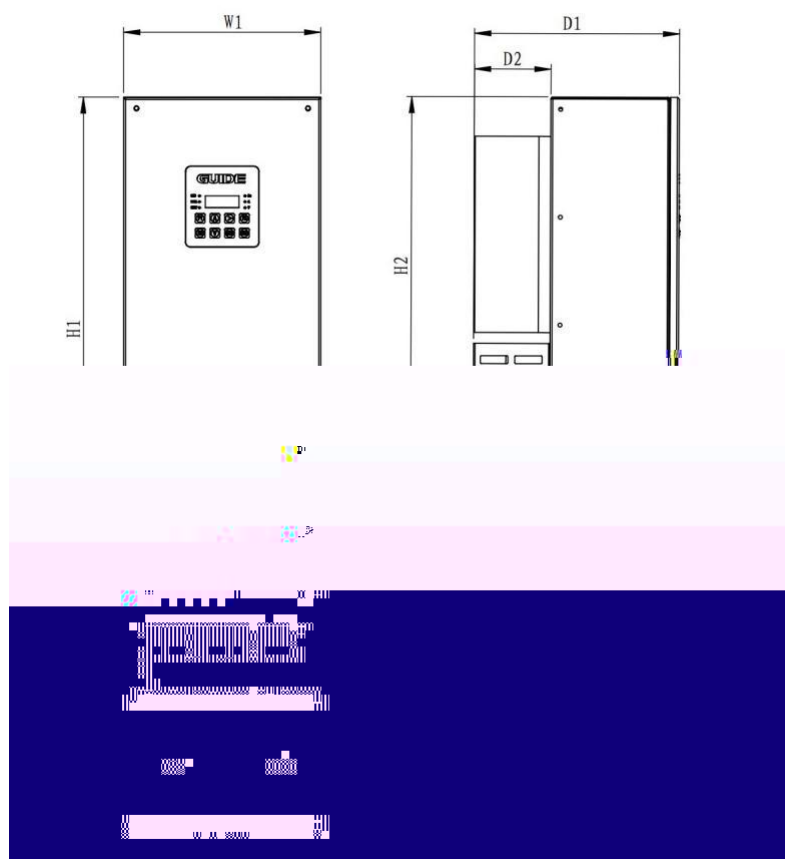
(mm)

mm

8.8 kg

H1 H2 W1

A3/A5



A4/A6

(mm / A6

A4/A6

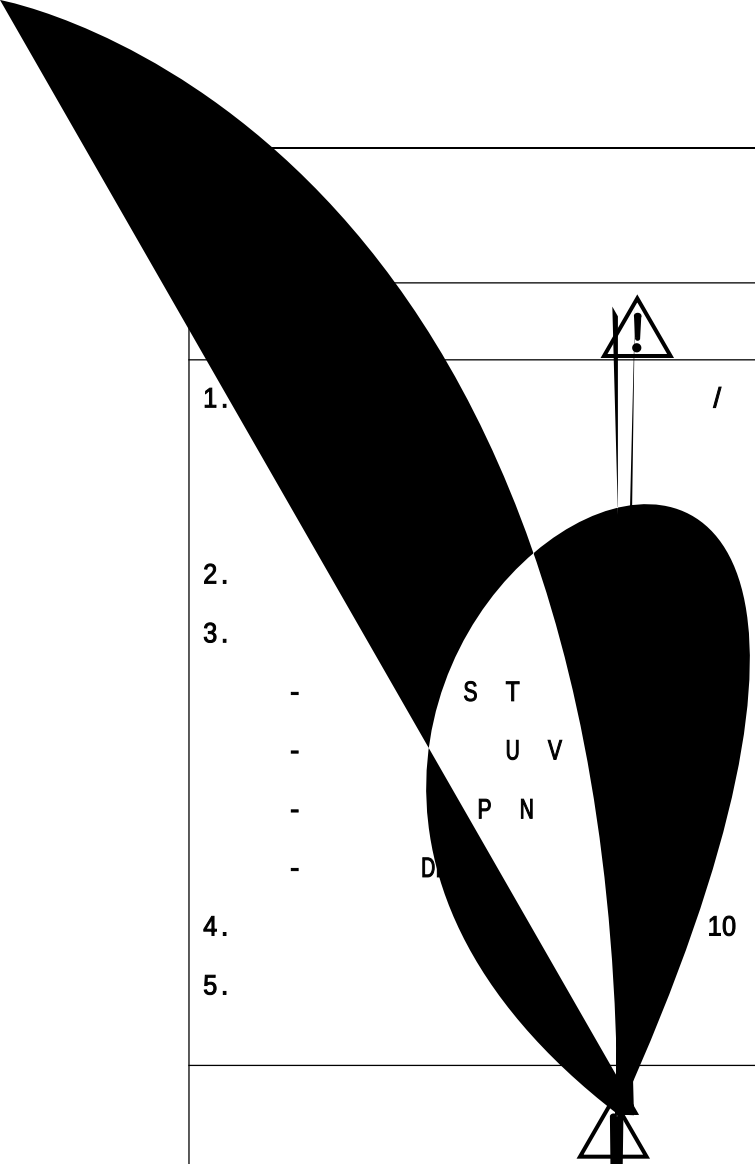
1.4

		± ± ≤

5Hz

30

-



1.

/

“ ”

/

2.

3.

-

S T

-

U V

-

P N

-

D

4.

10

5.

1.

2.

2

2.1



GF630N04

2.3

	A	/ CEFR 40%	mm ² (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

2.6 EMC

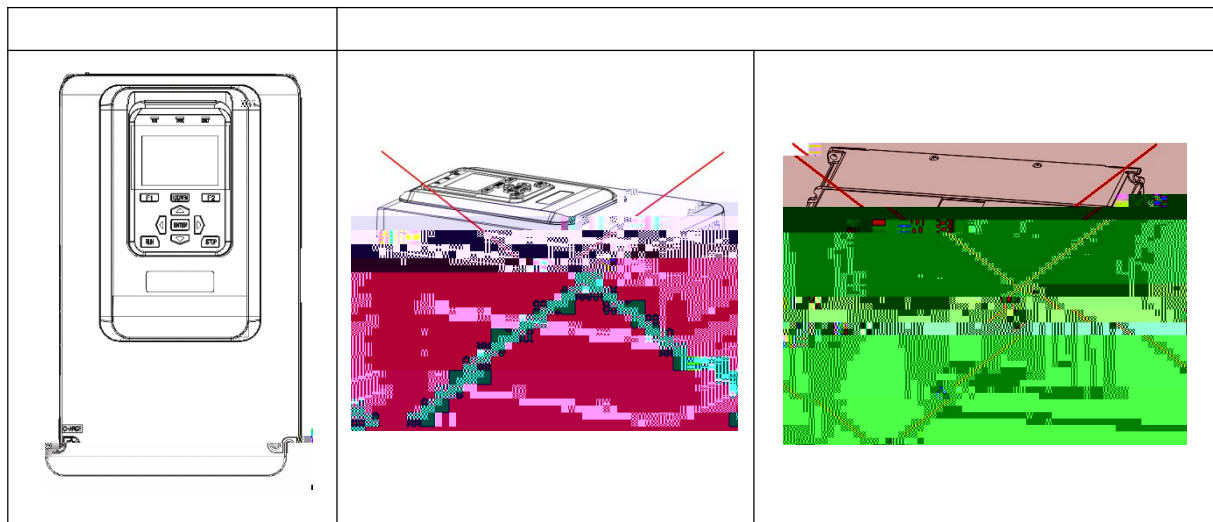
3

3.1

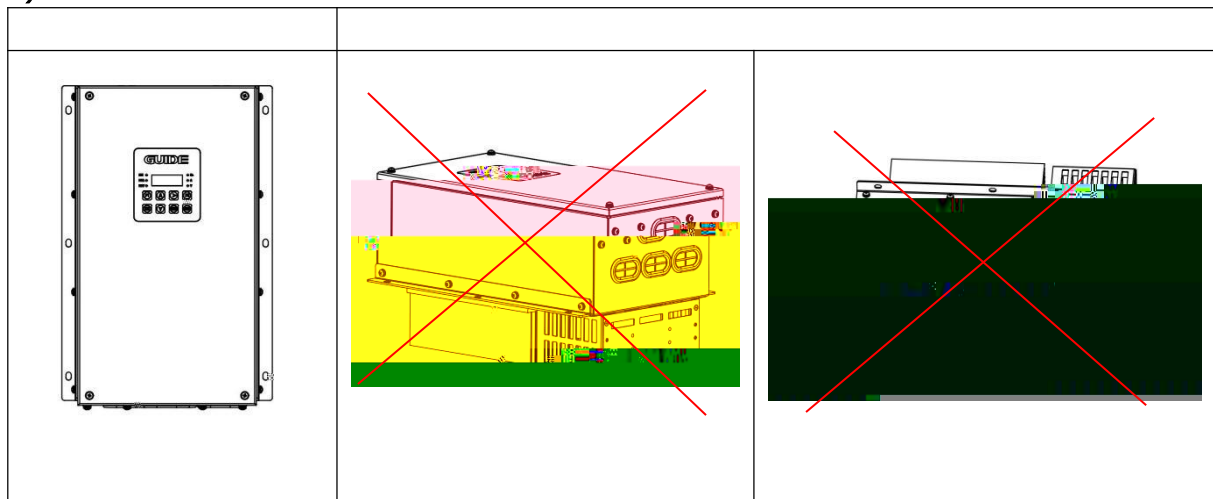
3.2

3.2.1

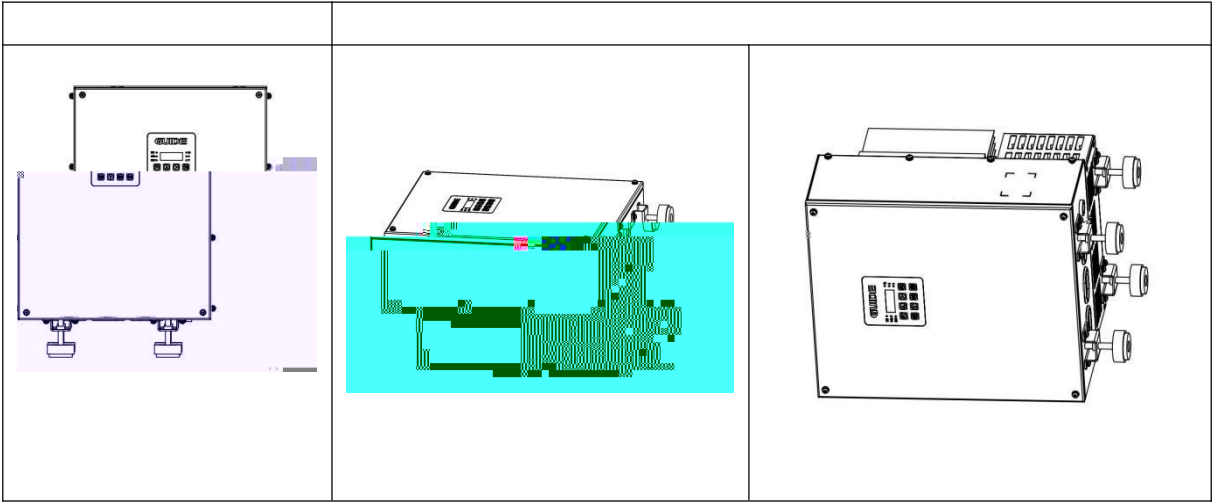
1)A1/A2



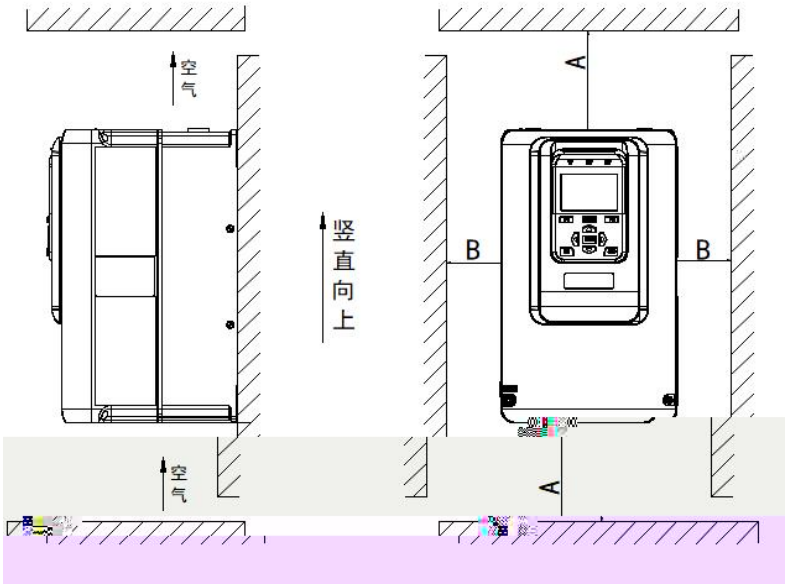
2)A3/A5



3)A4/A6



3.2.2
1)A1/A2



	(mm)	
22kW	A ≥ 100	B ≥ 20
37kW	A ≥ 100	B ≥ 20
45kW	A ≥ 100	B ≥ 20
55kW	A ≥ 200	B ≥ 50

3.2.3

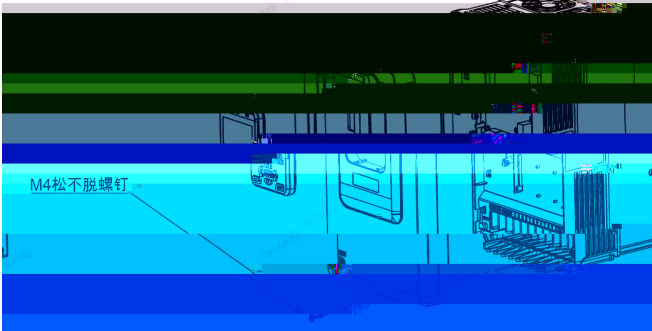
A

B

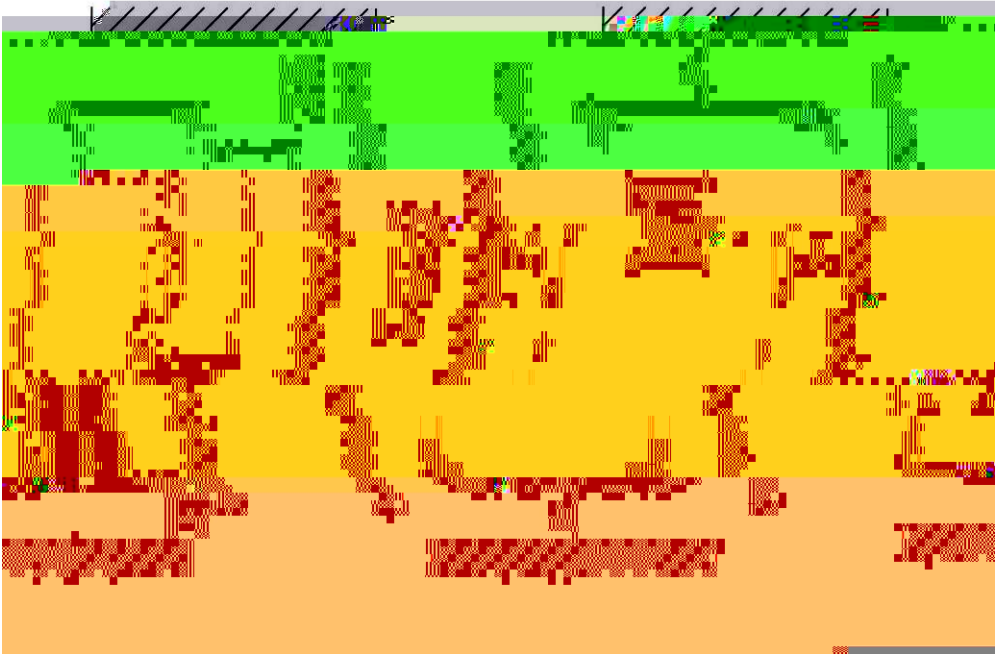
C

GF630N04-N3	N3	1

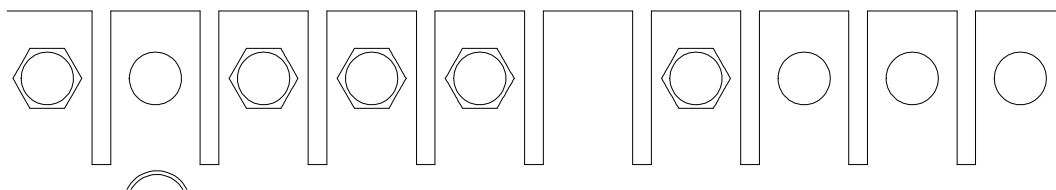
3.2.4

1		
2	M4	

2 A3/A5



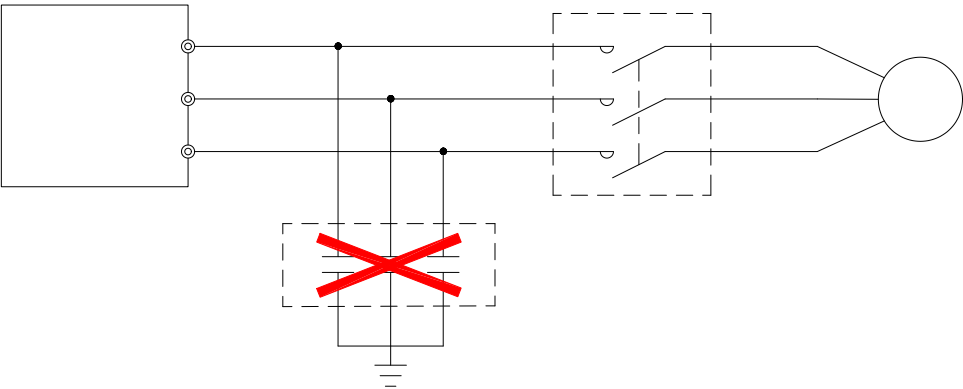
M



3.2.3

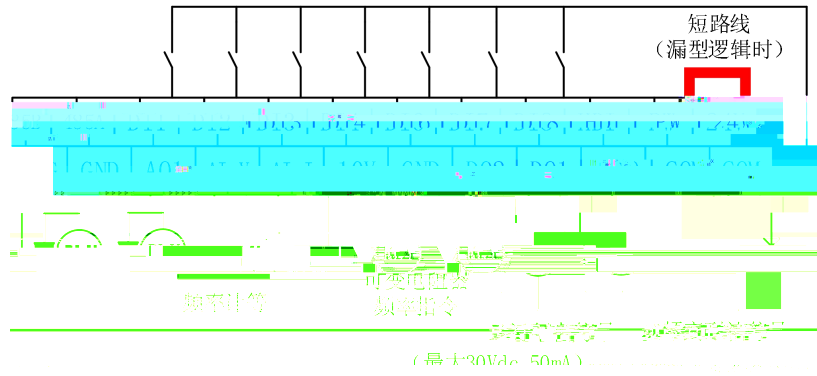
1		
2	10	
3	U V W	
4		
5		
6		
7	U V W	
8		
9	10cm	
10	0.75mm ² 50m	
11	10cm	
12	50m 50m	

13		
14		
15	30 m	



10V

10V



AI

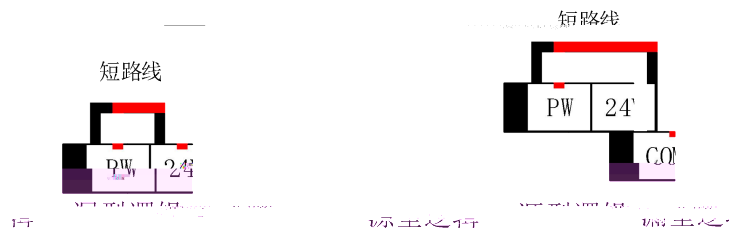
D01, D02

ON OFF

(2)

24V PW

PW COM



AI

D01, D02

ON OFF

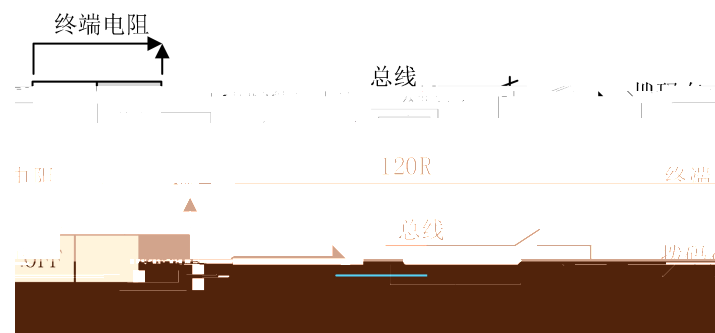
(3)

485

SW2

ON

ON



4

SW1

OA

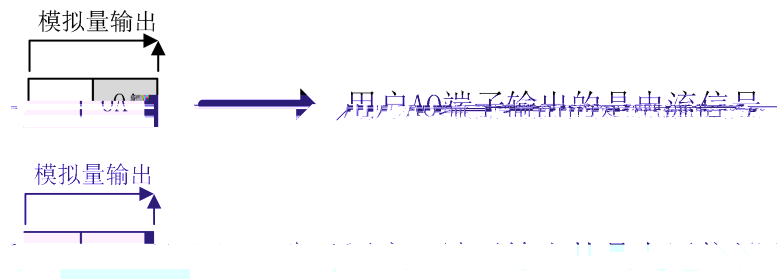
AO

4-20mA

OV

AO

0-10V

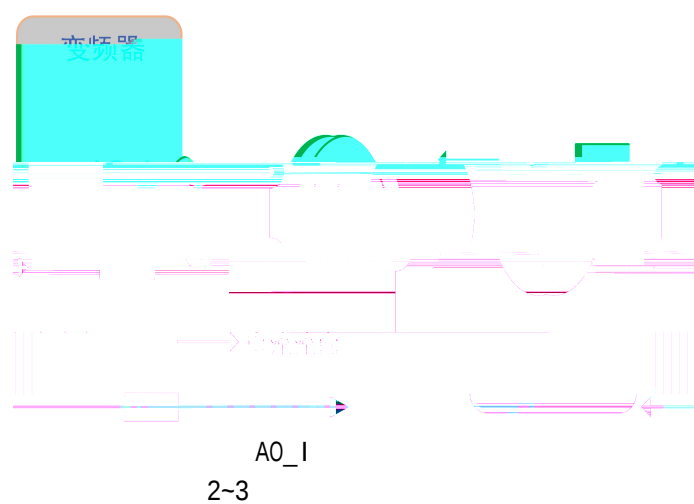
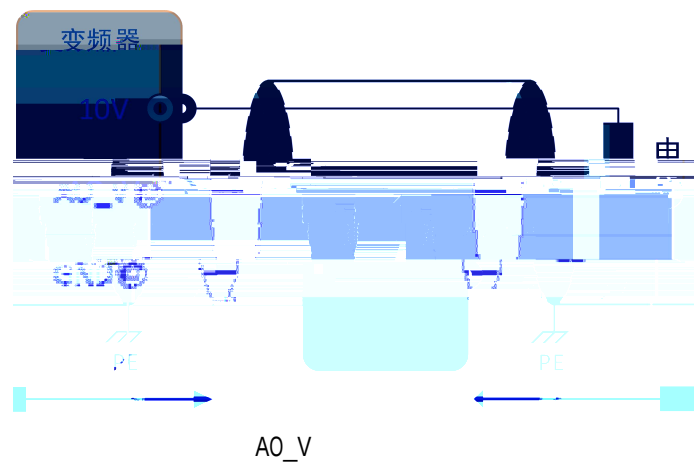


AI A0 DI D0

 RST UVW 20CM

A0_V A0_I

20





A2/A3/A4/A5/A6

1 LED

“ RUN ”

“ LOCAL ” /

“ FAULT ”

“ HZ ”

Hz RPM

“ A ”

A RPM %

“ V ”

V %

2 LED

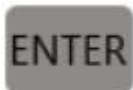
LED

5 LED

LED

显示文字	LED显示	显示文字	LED显示	显示文字	LED显示	显示文字	LED显示
0		A		K		U	
1		B		L		V	

		F1
	/	
		+1
		-1

		
		
		
		/

A1

		
		/
		+1
		-1
		
		
		



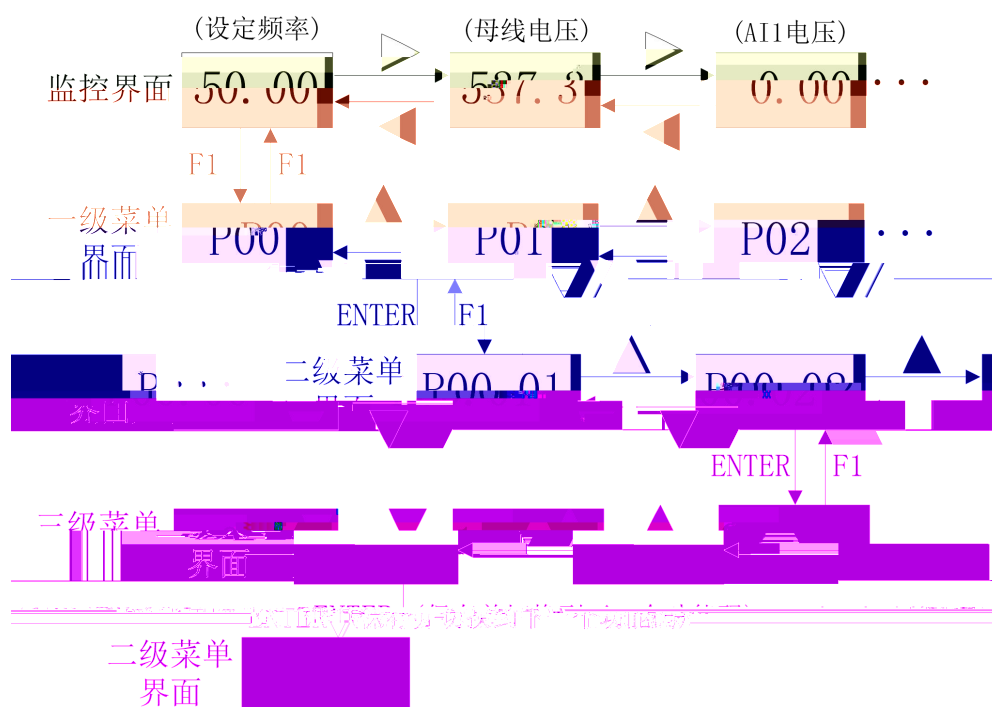
A2/A3/A4/A5/A6

4.2.2 LED

1

LED

/



()/

()

P02.05

F1

(▲)/

(▼)

F1

ENTER

(▲)/ (▼)

(

)

()/ ()

(

)

(▲)/ (▼)

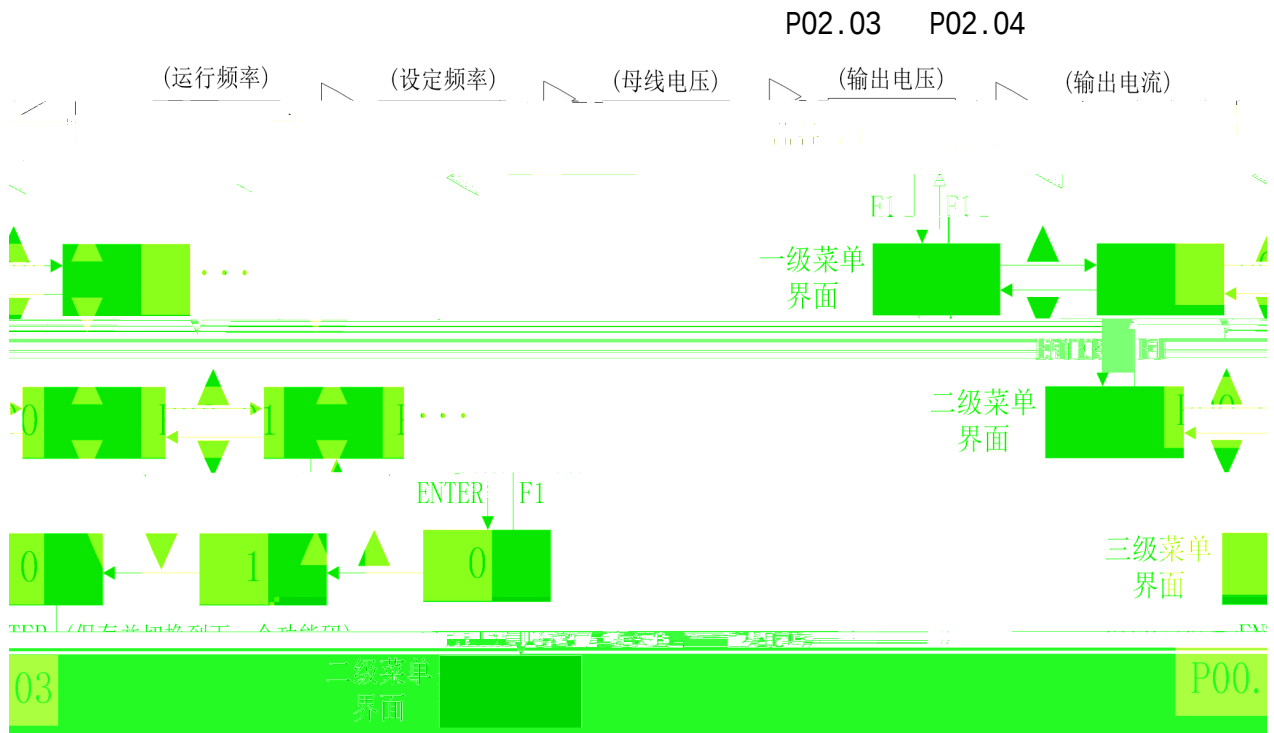
(

)

(

)

F1



5

GF630N04

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	

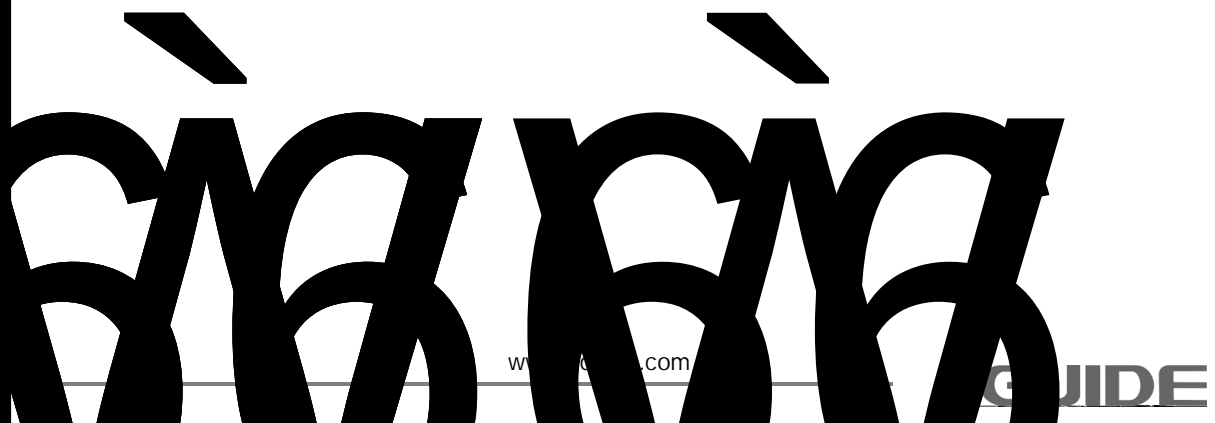
P02.05	LED	0000 FFFF Bit00: Hz Bit01: V Bit02: DI Bit03: D0 Bit04: AI1 V Bit05: AI2 V Bit06: AI3 V Bit07: Bit08: Bit09: PLC Bit10: Bit11: PID Bit12 PULSE kHz	33	
P02.06		0.0001 6.5000	1	
P02.07		0.0 100.0	-	●
P02.08		-	-	●
P02.09		0h 65535h	-	●
P02.11		-	-	●
P02.12		P23.14 0 0 1 1 2 2 3 3 P23.19/P23.29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



P03.14	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	
--------	--	----------------------------------	---	--

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 0.0V ≤	A01	-100.0% +100.0%	0.00%	
P06.05	A01	-10.00 +10.00	1	
P06.06				
P06.07				
P06.08				
P06.09		1 0 1		
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		

8%

P07.09		0 20	0
P07.10	D0	0 1	0
P07.11		0.1s 100.0s	1.0s
P07.12	/	dg	

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

P07.47

1

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		0	SVC	
P08.01	1	1	FVC	2
		2	V/F	
		0	LED	
P08.02		1	LED	0
		2	LED	
		0	P08.08	
		UP/DOWN		
		1	P08.08	
		UP/DOWN		
		2	AI1	
P08.03	X	3	AI2	
		4	AI3	
		5	PULSE	DĐ o Đ m

P08.04	Y		P08.03	X	0
		Y	0		
P08.05			1	X	0
		Y			
P08.06			0% 150%		100%
			0	X	
P08.07					

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	

	0	
P08.28	1	0
	2	
	0	
P08.29	1	0
	2	
P08.30	1 100	20

P08.49



, 0.01



,

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	
--------	---	--	---	--

6.10 V/F

1

P10

P10.15	VF	0.0s	1000.0s		0.0s
			0V		
P10.16	VF	0.0s	1000.0s		0.0s
			0V		
P10.17	VF	0	/	0	0
		1	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			0
		1			
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			

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	0.001 65.535 ≤55kW 0.0001 6.5535 >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		0.001 65.535 ≤55kW 0.0001 6.5535 >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		
P12.05	2	P02.02		
P12.06		50% 200%		
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

П

P13.05	2	P13.02	10.00Hz
P13.06		50% 200%	100%
P13.07		0.000s 0.100s	0.000s
P13.08		0 200	64
		0 P13.10	
		1 A11	
		2 A12	
		3 A13	
		4	
P13.09			

		0:			
P13.18		1:			1
		2:			
P13.19		0 50			5
P13.20					
P13.21					
P13.22		0,1			0
		0		SVC	
P13.23	2	1		FVC	2
		2 V/F			
		0 1			
		1 1			
P13.24	2	2 2			0
		3 3			
		4 4			
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

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%	



			0	AI1	
			1	AI2	
			2	AI3	
P15.02	PID		4	PULSE	DI5
			5		
			6	AI1+AI2	
			7	MAX AI1 , AI2	
			8	MIN AI1 , AI2	
			0		
P15.03	PID		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	0.000N



P16.21 VDO

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	

P21.34		0.0%	100.0%	5.00%
P21.35		0.0%	100.0%	0.10s
P21.36		0.0%	0.1%	200.00%
P21.37		0.00s	600.00s	0.00s
P21.38	1	0.0%	300.0%	100.00%
P21.39	1	0.0%	300.0%	0.00%
P21.40	2	0.0%	300.0%	100.00%

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
3.59			

()3 0DH33 Q.00(' ^ Q' d 0DH

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

0

P02.09				P02.13			
P02.14							

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

P00.04				0
		0		
		1		

0

Đ

2

F2

3

F2

FJOG

4

F2

RJOG

	LED	1		1F
			76543210	1(Hz) (Hz) (V) (V) (A) (kW) (%) (V)
P02.03		0000 FFFF	DI	1
			P02.03	

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 P21.00 P21.01 P21.02
5	RJOG	
6	UP	
7	DOWN	
8		P08.38
9	RESET	RESET
10		PID PLC
11		E015 P07.47
12	1	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

				P08.02=1
20				P08.02=2
21				
22	PID		PID	
			PID	
23	PLC		PLC	
				PLC
24				
25				
26				
27				
28				
29				
30	PULSE		D15	
		D15		
31				
32		s s j		

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

DI

DI

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

DI1 DI10

DI1 DI2 DI3

P03.00 P03.02

DI1 DI2 DI3

P03.00 P0309

0

33

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

DIx	DIy	DI1	DI10						
2		1	DIIn			DIx	DIy		

DIx	1	FWD
DIy	2	REV
DIIn	3	

		DIIn	DIx	DIy					
		DIIn			DIx	DIy	DIIn	DI1	
DI10		DIx	DIy		DIIn				
3		2		DIIn		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

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

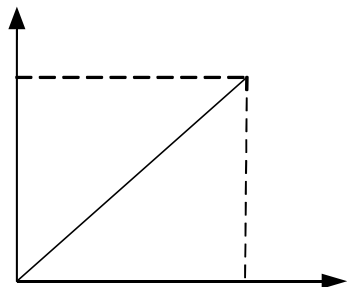
15

ON

16 AI1>AI2

AI1

AI2



P05.08

		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		

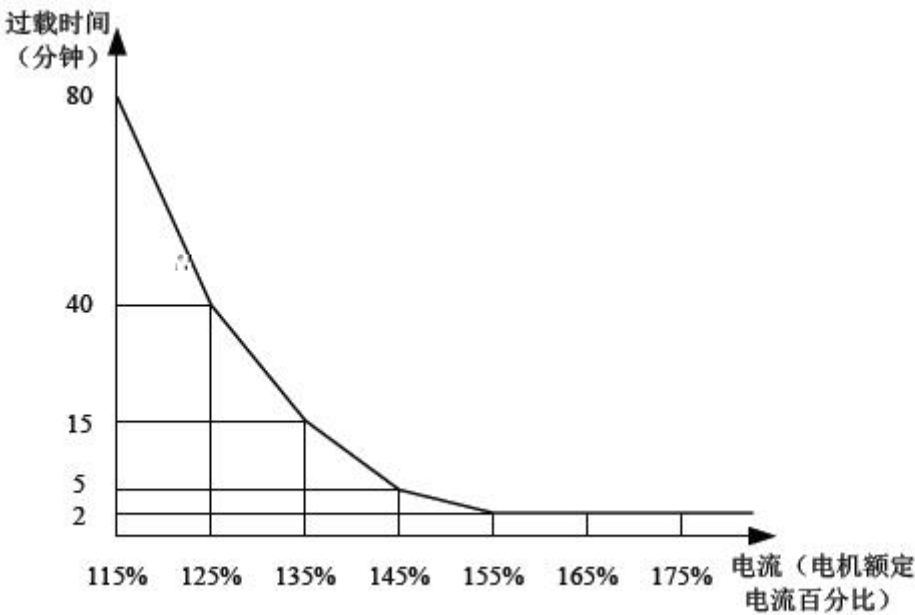
		0	8V
3V	“ -0.50 ” ,	“ 80% ”	

7.7
 P7

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

P07.00=0

P07.00=1



30	120%	30
	Ix	
	30	125% 135%

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

Ix=129%

120%

30

$P07.01 = 120\% \div Ix = 120\% \div 129\% = 0.93$

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	

) ¾? Gŷ CŒ

0 & È E÷e#q a FO

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

P07.06

P07.06

" Æ

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 									

	3		00000
		1 E027	P07.47
		2 E028	P07.47
		E029	P07.47
P07.49		E030	
	0	7	λ

		4	
P07.55			100.0%
			0% 100.0%

A**	P07.54		
		P07.55	
			0
		0	
P07.56		1	PT100
		2	PT1000
		* 2	110A
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
	P07.6		

		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	

10P9e \$\$ • W % @TÓà

0

P08.08 “ ” ▲ ▼

UP DOWN

≥ P08.08 “

088

8 PID

PID

PID

P15 “PID”

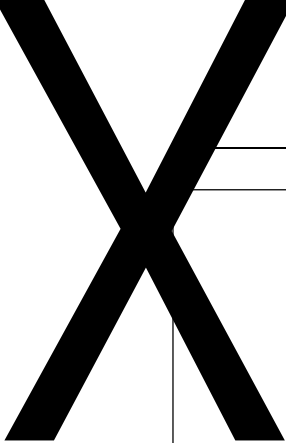
9

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

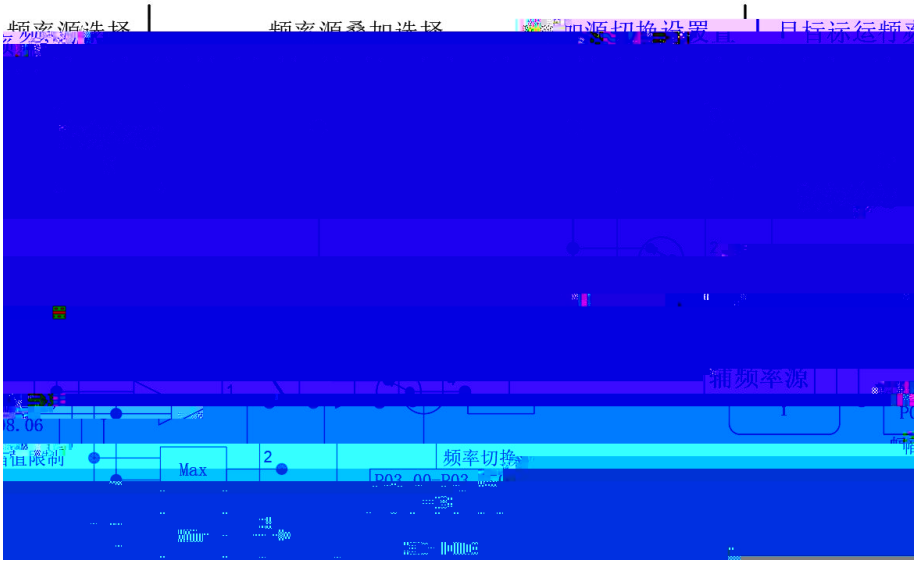
X

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

		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		

	→
	→
	→

P08.16			0
		0 1	

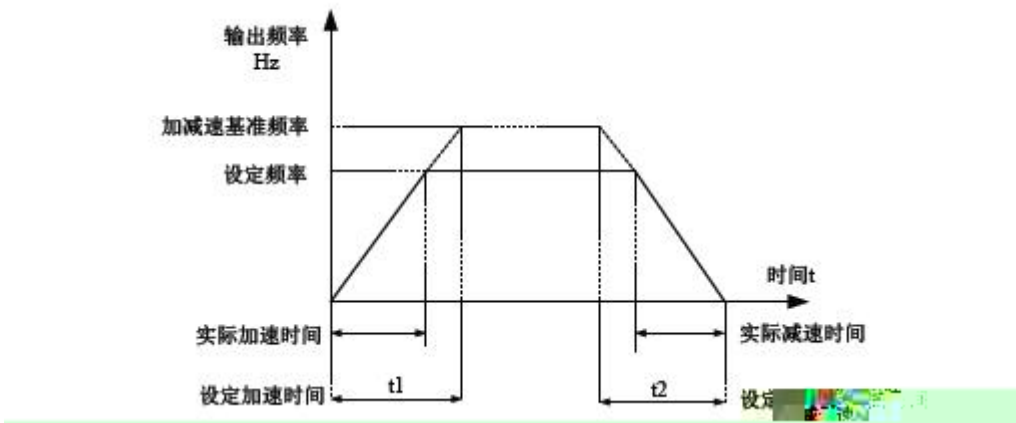
P08.17	1		
		0.00s	6500.0s
P08.18	1		
		0.00s	6500.0s

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

♪ à

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

1

UP / DOWN

0

P08.26

0

2

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

GUIDE

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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

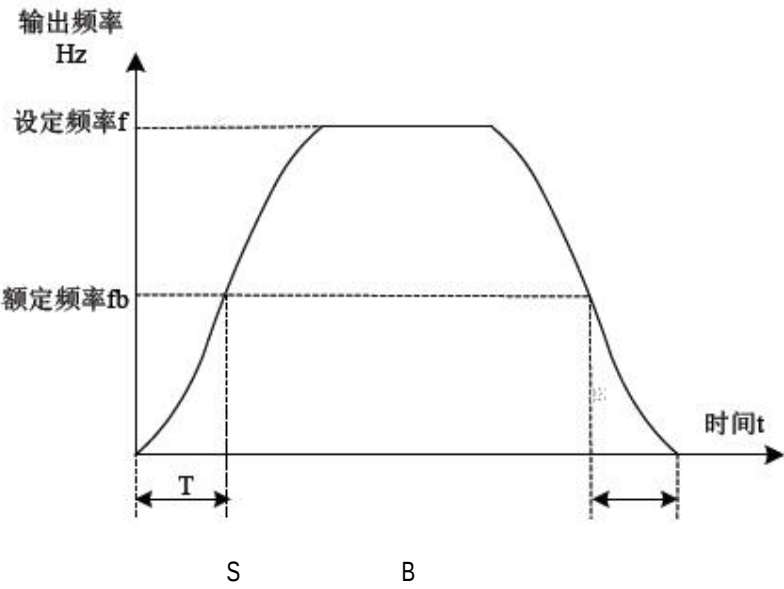
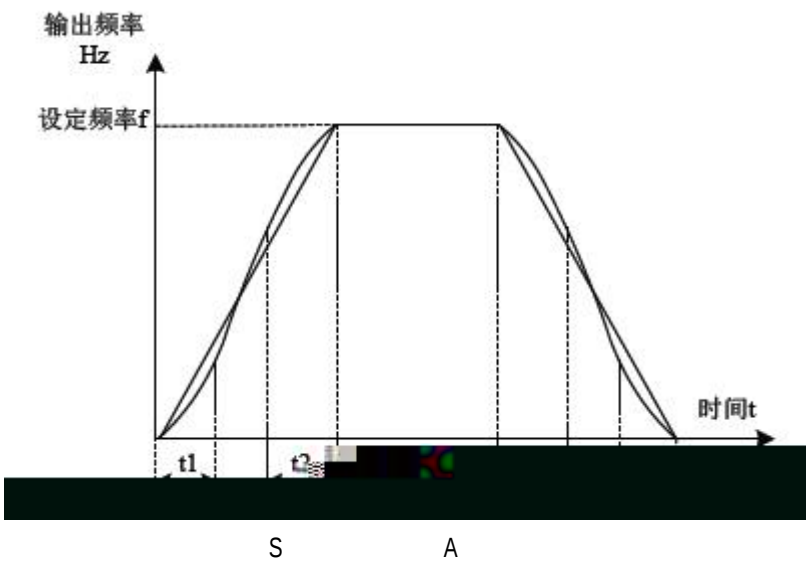
P08.31 5.00Hz 5.00Hz

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	

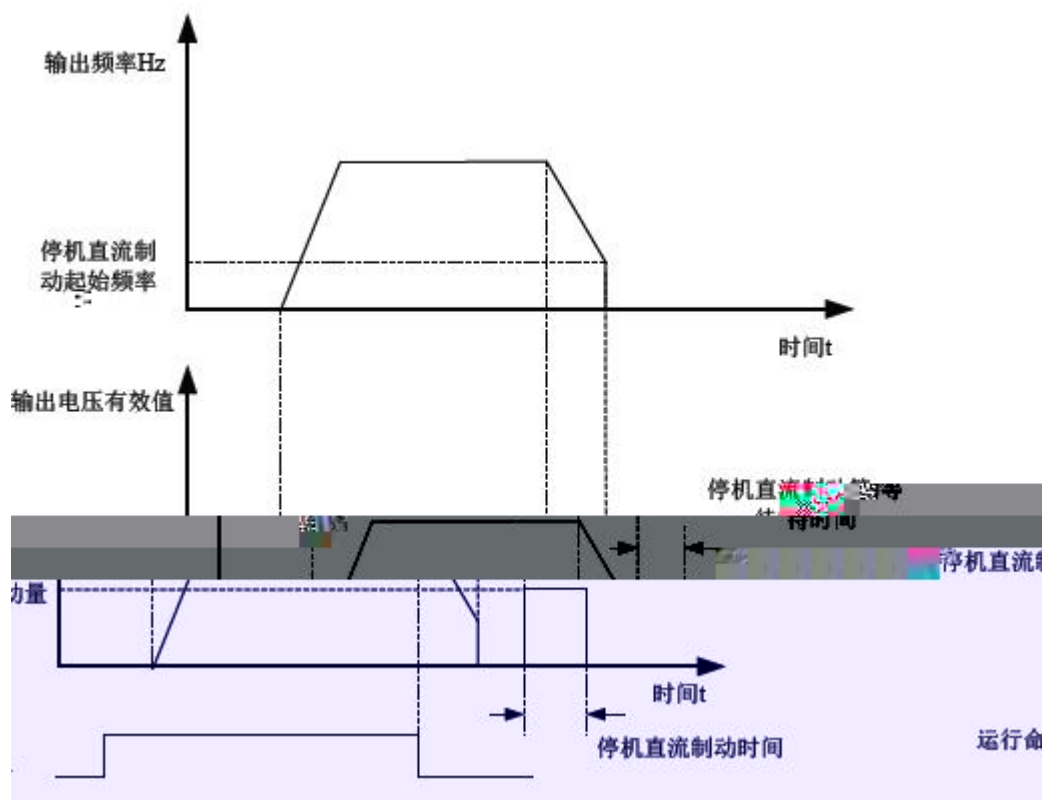
0



P08.38			0
		0	
		1	

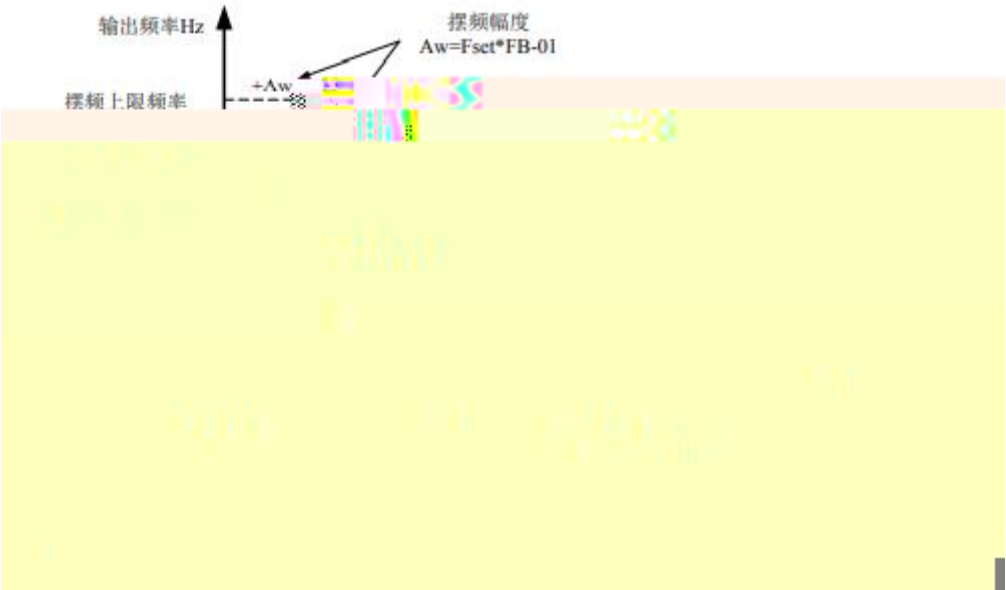
0

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	



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	



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

×

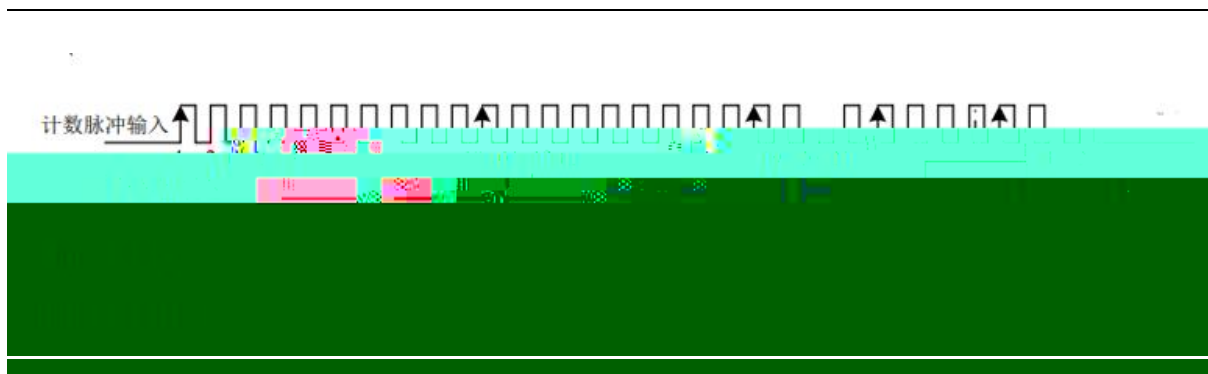
P09.01

AW ×

P09.02

P09.00=0

P09.00=1



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

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			
		0.001 65.535	<=55kW
		0.0001 6.5535	>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

6

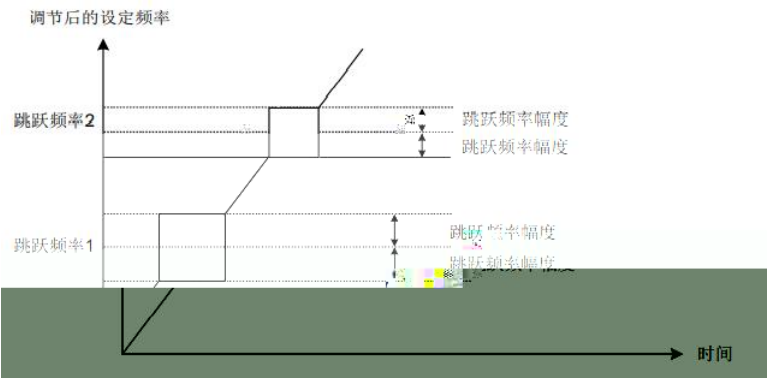
71			0
		0	
		11	
		12	

P10.34~P10.39

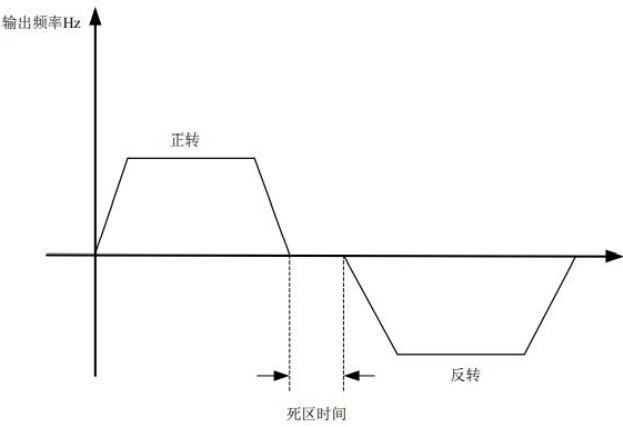
P21.03

GF630N04

0



P21.12			0.0s
			0.00s 3000.0s



0Hz

P21.13			0
		0	
		1	

.13=1					
P21.14					0
			0		
			1		
			2		

GF630N04

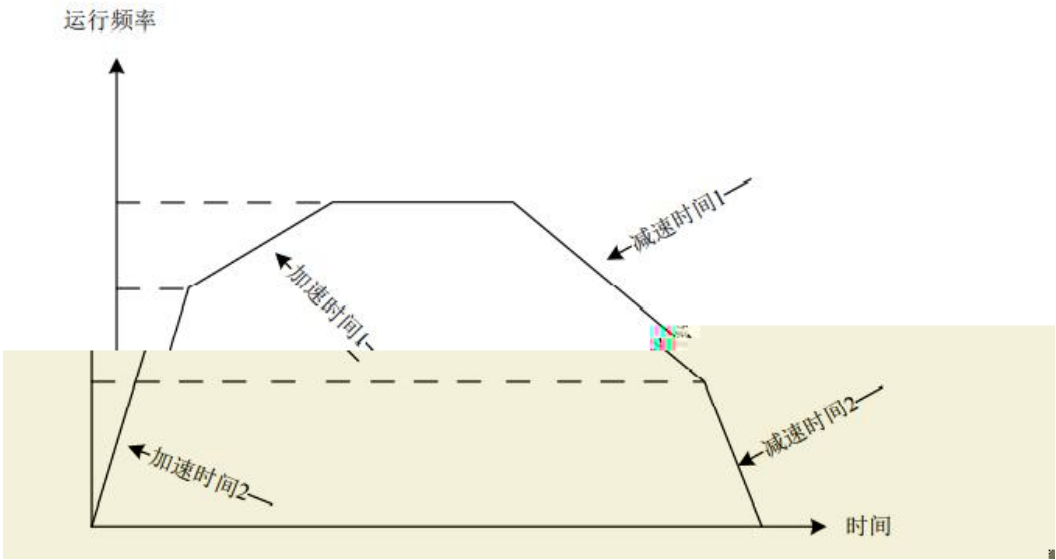
P21.15			0.0%	
	2	0.0% 100.0%		

0

P21.15

1

DI



P21.25

2

P21.25

1

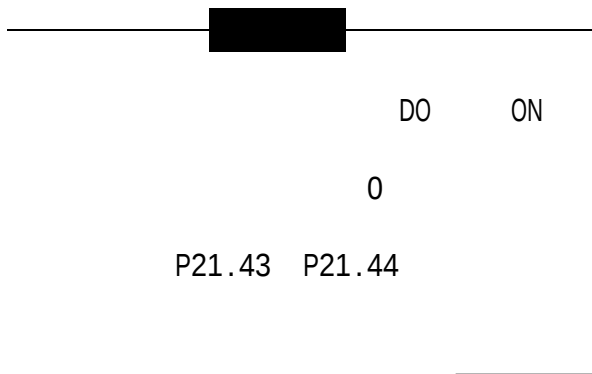
P21.26

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%



P21.61			
		1	

7.12

P29

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		-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	
	2	
	3	
	4	
	5	
	6	

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

TOT



E06

PB

“ + ”

PB

“ + ”

E061

1

P08.44

1

P08.44

0

E100

1

2

3

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E101

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10

GUIDE



	1				1
	2				
E113	3				2
	4				3
					4
	1				1
	2				2
E114	3				3
	4				4
	1				1
	2				2
E115	3			P07.67	3
	P07.68				
				P23.45	
		P19.45	1	7	
	11	12	9		
	1	P23.45=1			
		PG			
	2	P23.45=3		Z	
	3	P23.45=5		Z	
E118	3	P23.45=6	Z		

				1	P12.10	
				2		
				3	PG	
		1	P12.10	4		
		2				
E170		3	PG	5	P07.72	0
		4				
		5	P10.64			
				P10.64		
		1		1		
		2				
E202		3	P14.00			
		3	P14			

	1		
HF630	2	1	34
	3	2~5	
	4		
	5		
“ E112 ”	1	1	
	2	2	
	1	1	
“ HF630 ”	2		

9

1.

2.

3.

9.2

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

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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6

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