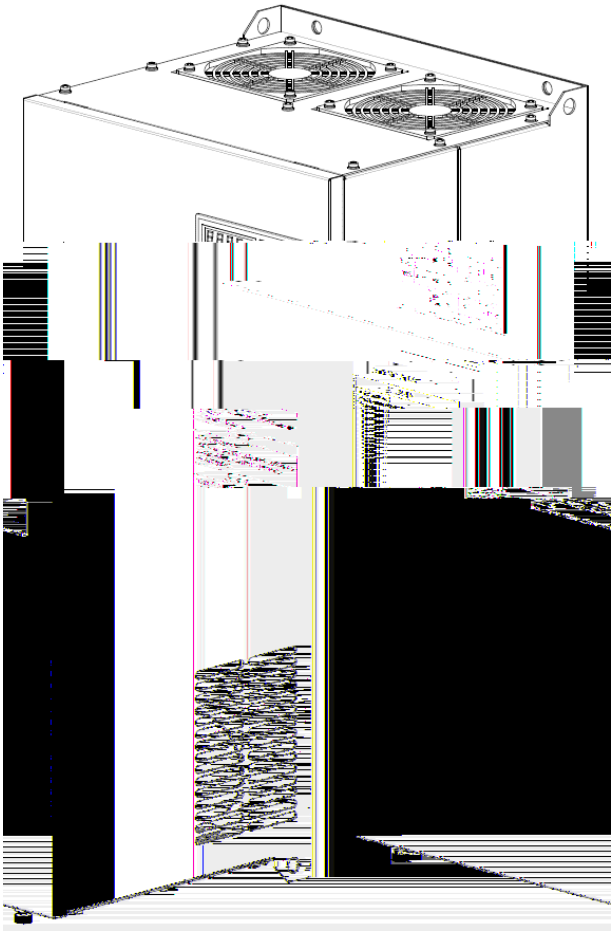
三墾力達



400V 30kW 315kW

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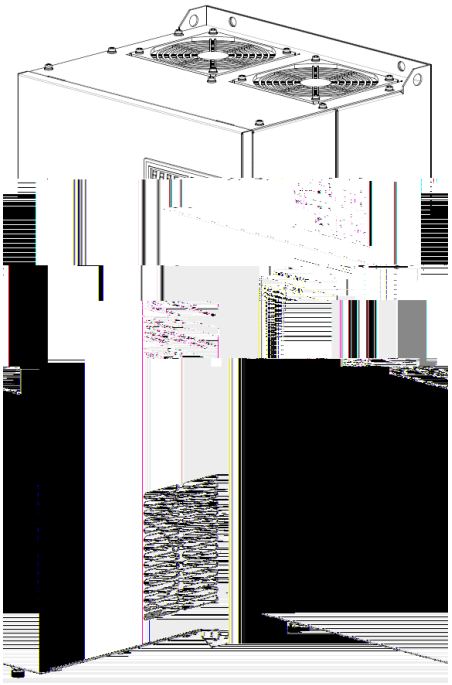

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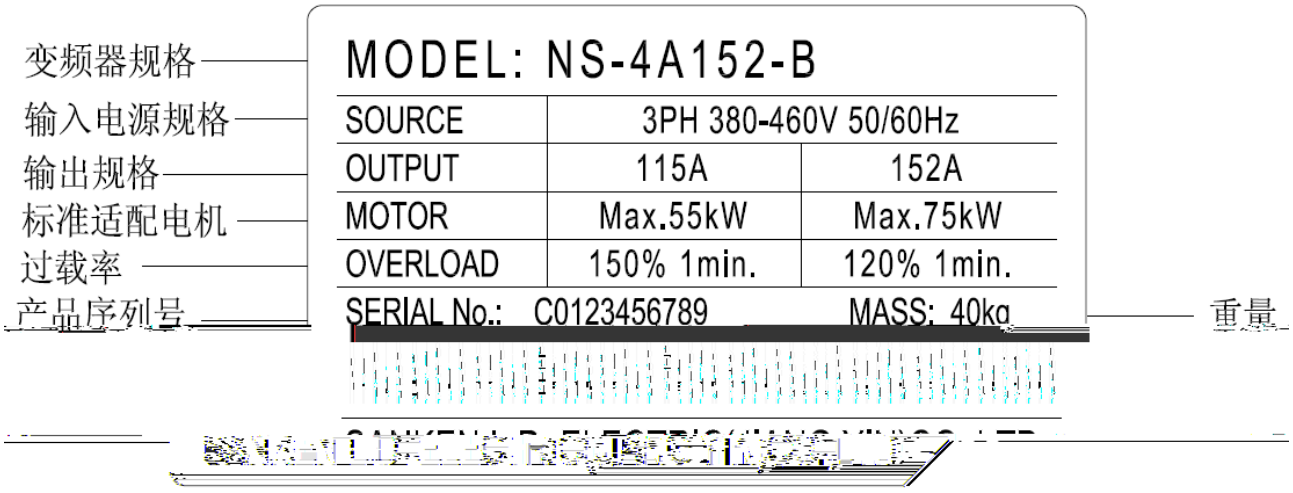
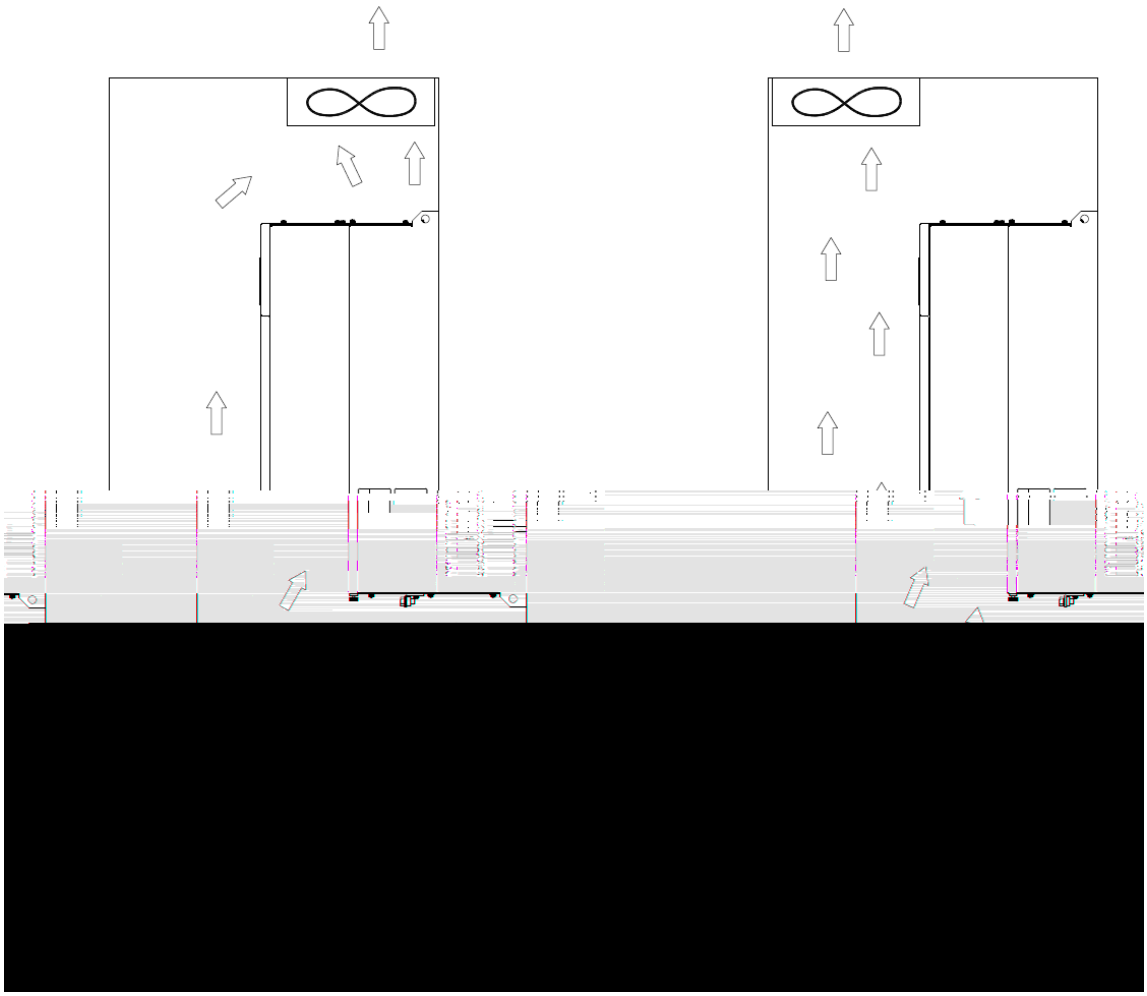
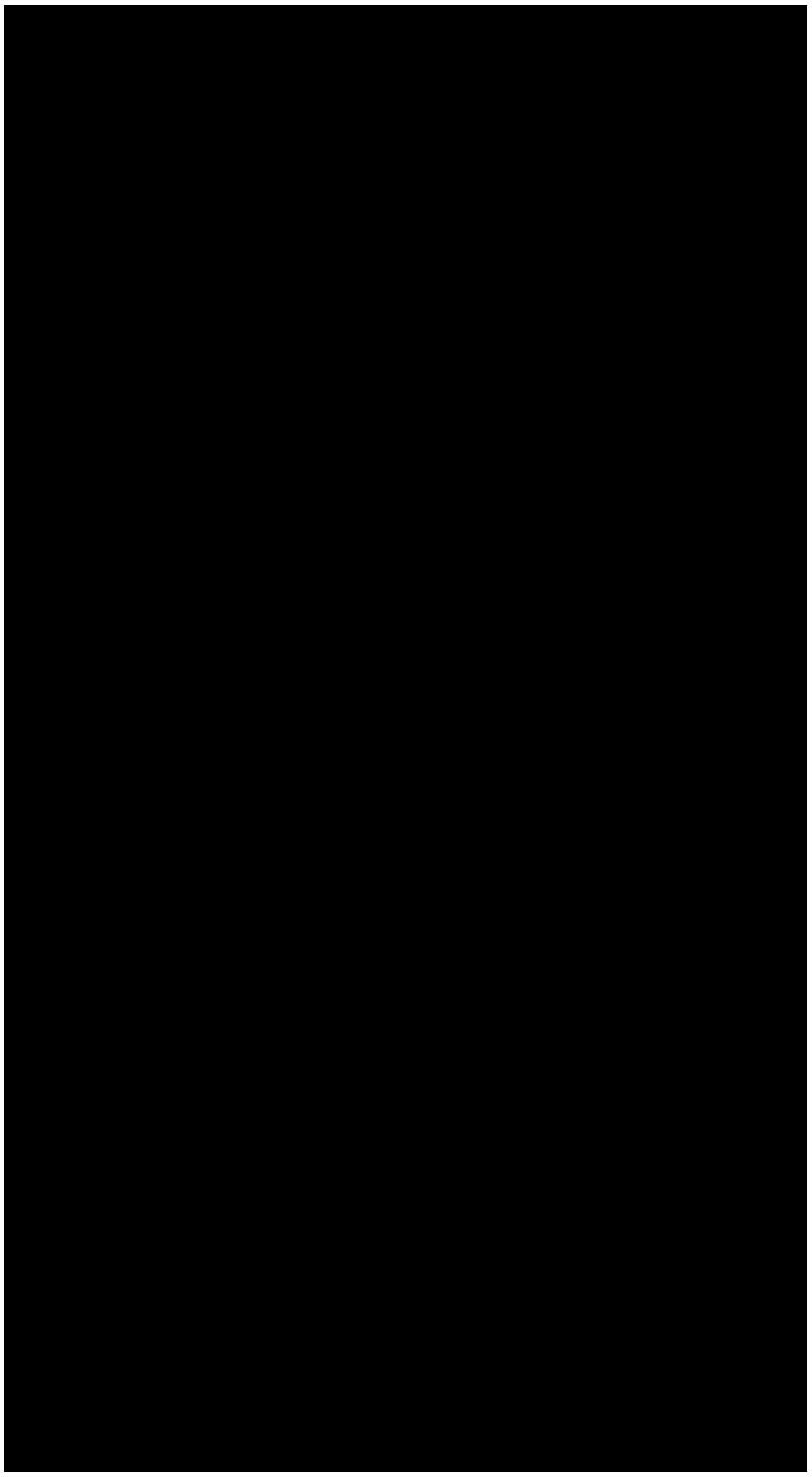

变频器规格
输入电源规格
输出规格
标准适配电机
过载率
产品序列号
MODEL: NS-4A152-B
SOURCE
3PH 380-460V 50/60Hz
OUTPUT
115A
152A
MOTOR
Max.55kW
Max.75kW
OVERLOAD
150% 1min.
120% 1min.
SERIAL No.: C0123456789
MASS: 40kg
重量

2-3





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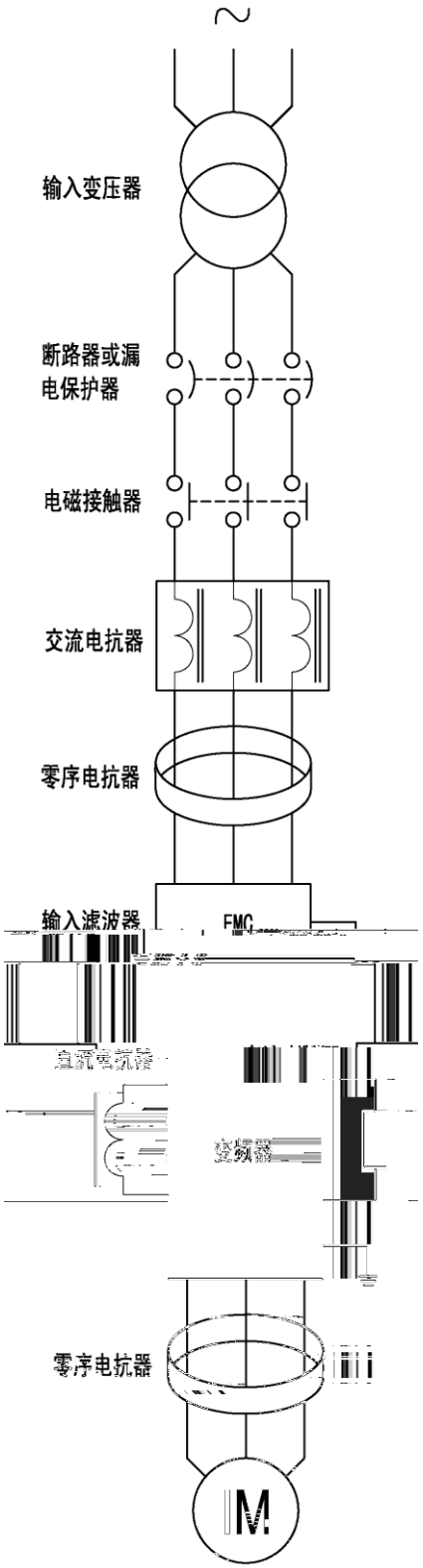
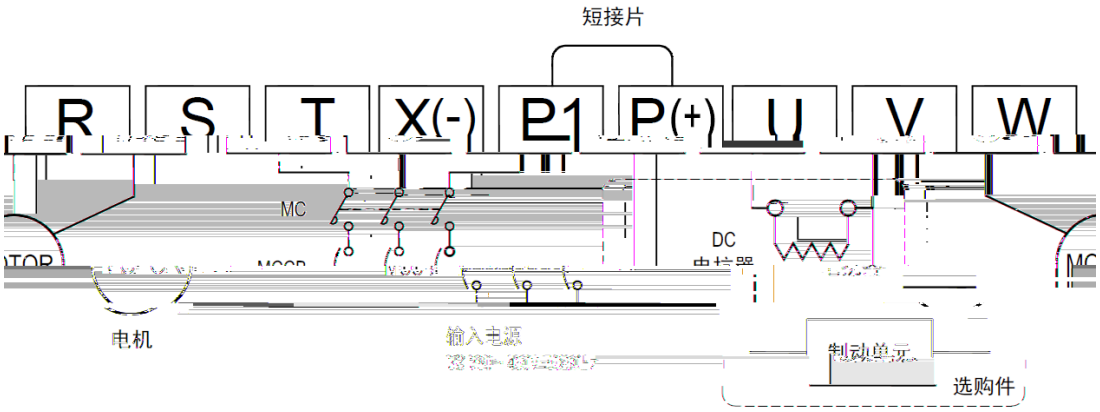
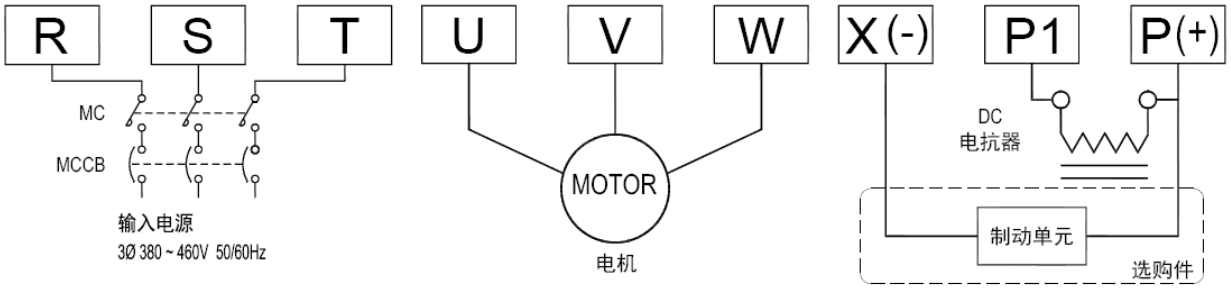

~
输入变压器
断路器或漏
电保护器
电磁接触器
交流电抗器
零序电抗器
输入滤波器
FMC
直流电抗器
变频器
零序电抗器
M

主回路
电机
控制电路
多功能接点输出 1
多功能接点输出 2
运转中
多功能输入端子
频率设定电源（+V）
频率设定端子
通信端子
模拟电流输出
4~20mA
用户负载（<150mA）
注1： 变频器和电机务请先接地后使用。
控制电路输入端子
注3：
注4： 该输入端子为多功能端子，它通过功能代码H414 H421可以设置各个不同的功能。
注5： 2组独立多功能接点输出端子，可通过功能代码H513 H514可以设置各个不同的功能。
主电路端子
通信


短接片
R
S
T
X(-)
P1
P(+)
U
V
W
MC
DC
电机
制动单元
选购件


R
S
T
U
V
W
X(-)
P1
P(+)
MC
MCCB
输入电源
3Ø 380 ~ 460V 50/60Hz
MOTOR
电机
DC
电抗器
制动单元
选购件

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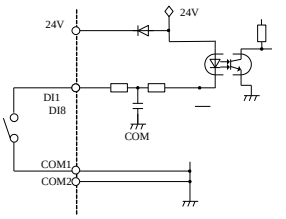
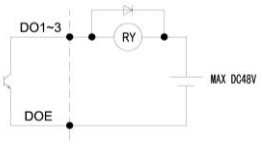
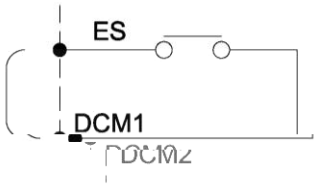
				

24V
24V
DI1
DI8
COM
COM1
COM2

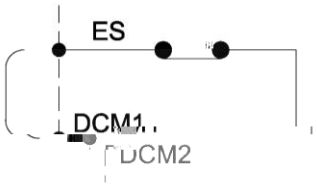
				

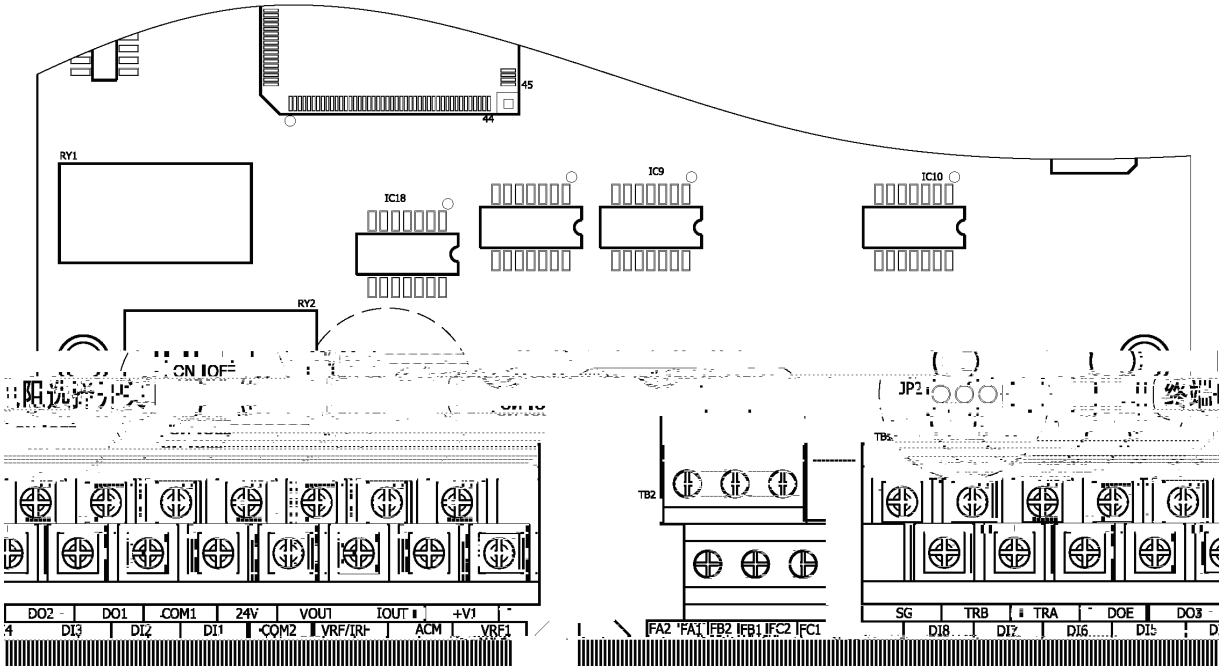
DO1~3
RY
MAX DC48V
DOE

输入"常开"信号时:
F1413=1

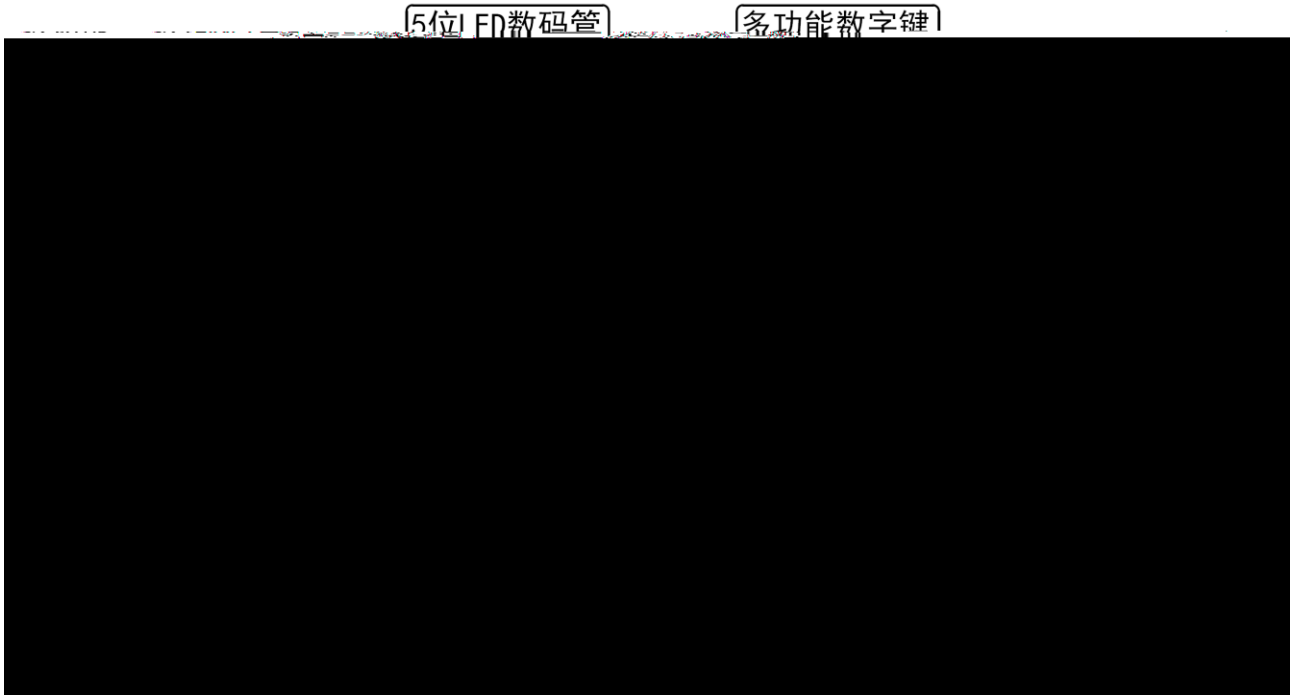


输入"常闭"信号时:
F1413=2





5-1



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- 【DRIVE】
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5-2

	DRIVE	●	【DRIVE】
	STOP	● ●	【STOP】
	PROG	● ●	【PROG】
	DISP CLEAR	● ●	【CLEAR/DISP】
	^	● ● ● ●	【UP】
	v	● ● ●	【DOWN】
	6	● ●	【0-9】
	.	● ●	【DOT】
	ENTER	●	【ENTER】

5-3

■ 【PROG】

	【PROG】 _ _ _ _ 【ENTER】

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【CLEAR/DISP】

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【CLEAR/DISP】

【PROG】

【UP】/【DOWN】 【ENTER】

【ENTER】

	S00 S.00	
	S	
	S0	
	S0.00 S0.00	

S0.00 S0.00

【CLEAR/DISP】

【UP】/【DOWN】

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	S00 ⇒ S01 ⇒ S02 ⇒	

S0.00 S0.00

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	F 1401	
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	F____	
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	F 1503	
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	50.00 50.00	

5-5

	F 1601	
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	1	
	rEAdY	
	F 1601	

	F 1602	
	0	
	1	
	Find	Find
	FXXXX End	End
	FXXXX End	
	XXXXX	
	FXXXX	
	F 1602	

	F 1604	
	0	
	1	
	1 rEAdY	rEAdY
	init	init
	F 1604	

	F 1805	
	0	
	1	
	1 XXXXX End	XXXXX End
	2 XXXXX End	
	F 1805	

	F 1806	
	ALtyP End	YYYY ALtyP End
	XXXXX End	XXXXX
	F 1806	

ALtyP		
FrE		
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init	
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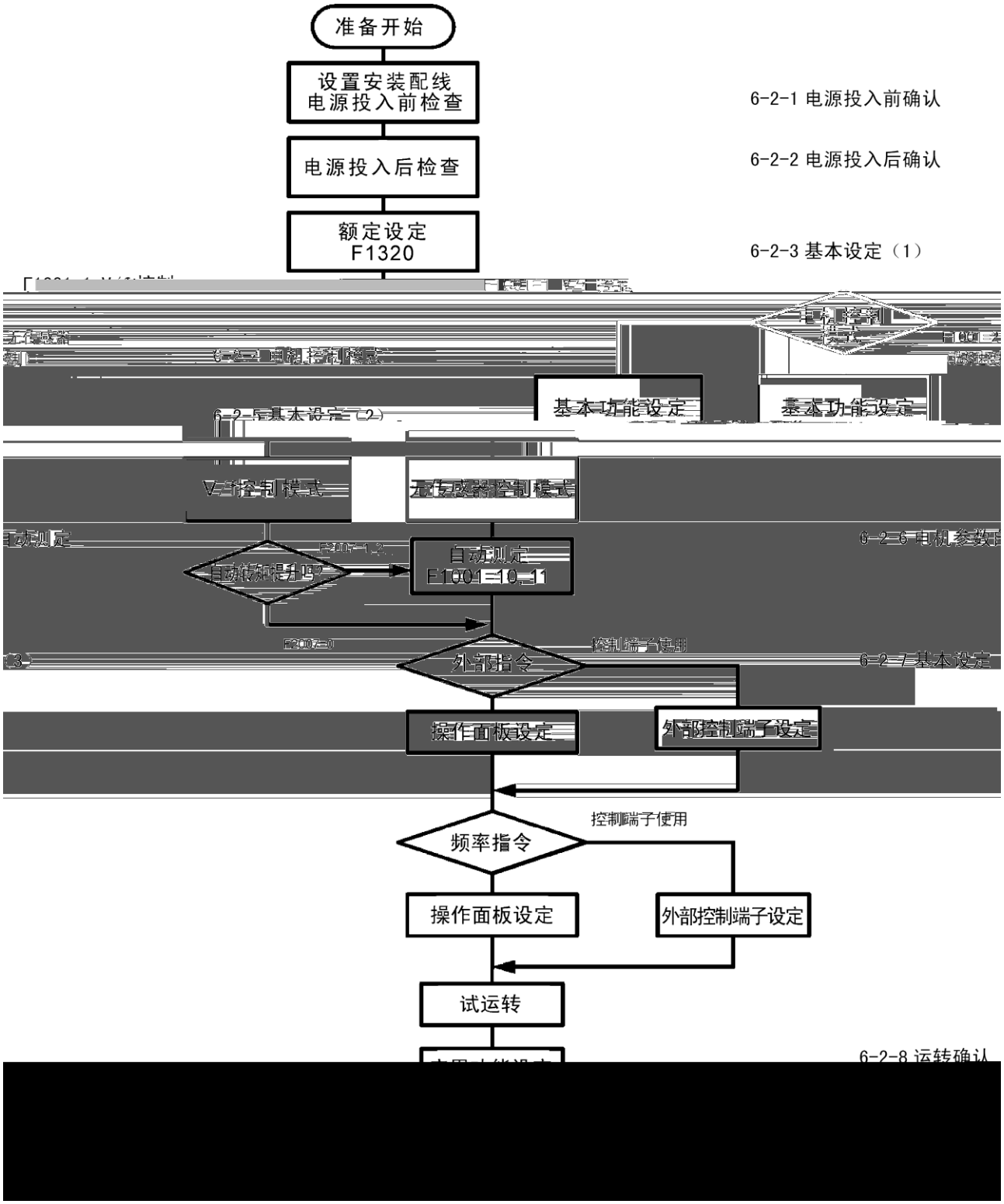
准备开始
设置安装配线
电源投入前检查
电源投入后检查
额定设定
F1320
6-2-1 电源投入前确认
6-2-2 电源投入后确认
6-2-3 基本设定（1）
基本功能设定
基本功能设定
自动测定
F1001=10_11
外部指令
操作面板设定
外部控制端子设定
控制端子使用
频率指令
操作面板设定
外部控制端子设定
试运转
6-2-8 运转确认

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【PROG】

【ENTER】

【ENTER】

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【PROG】

【ENTER】 【ENTER】

TUNE

【DRIVE】

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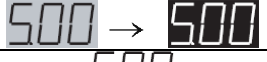
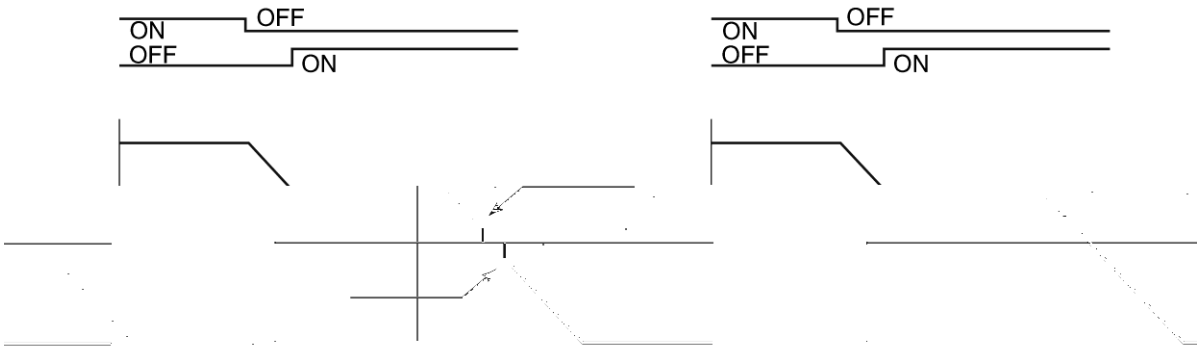
E S



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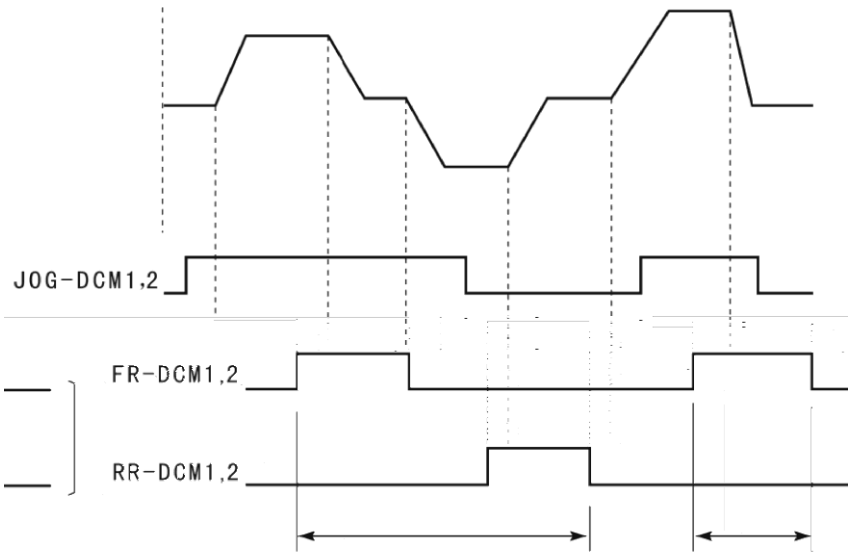
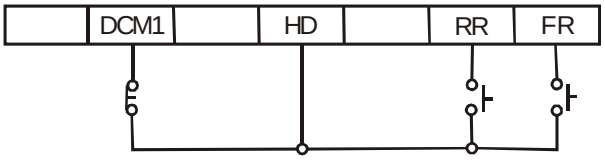
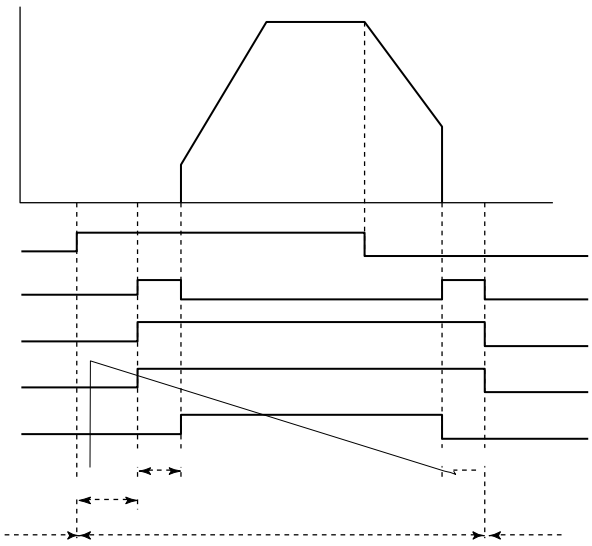



DCM1
HD
RR
FR



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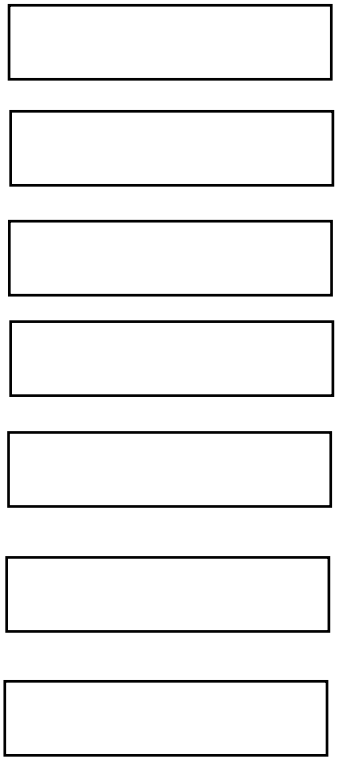

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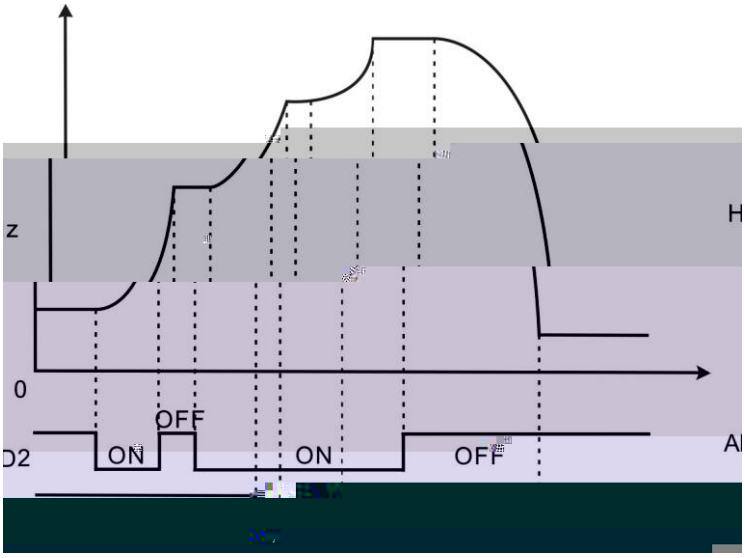
z
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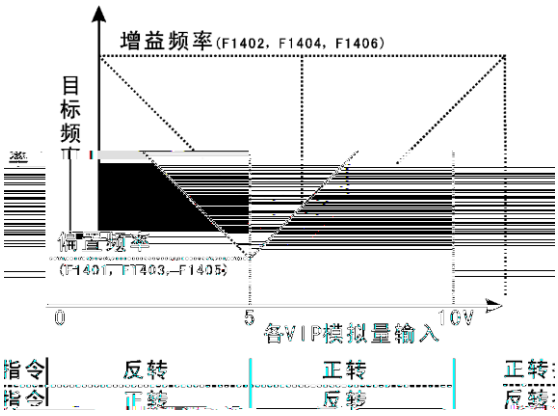
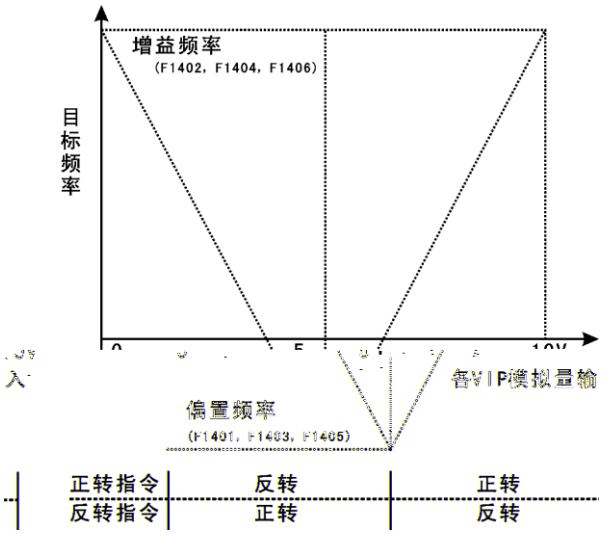
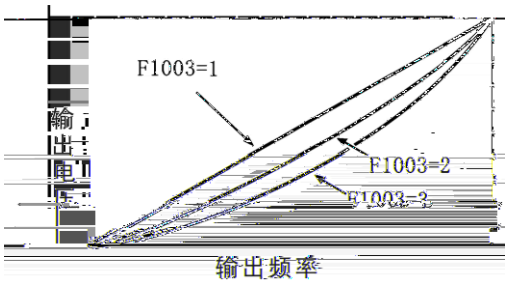
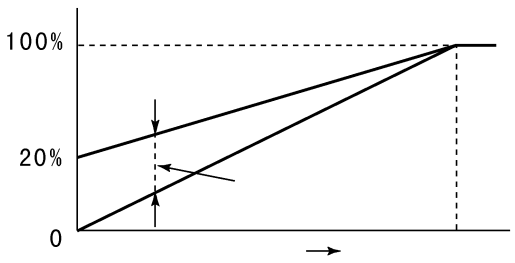

增益频率(F1402，F1404，F1406)
目标频率
偏置频率
(F1401，F1403，F1405)
0
5
10V
各VIP模拟量输入
指令
反转
正转
正转
反转
正转
反转


增益频率
(F1402，F1404，F1406)
目标频率
偏置频率
(F1401，F1403，F1405)
各VIP模拟量输
正转指令
反转指令
反转
正转
正转
反转


F1003=1
F1003=2
F1003=3
输出频率


100%
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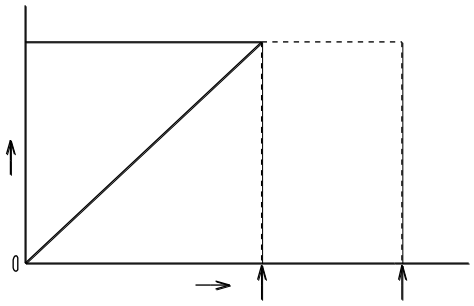

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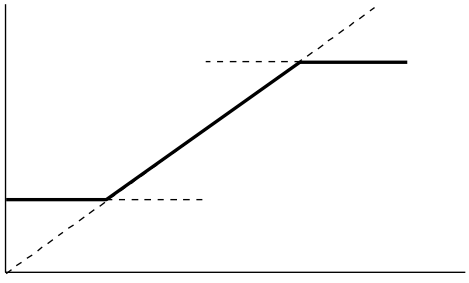
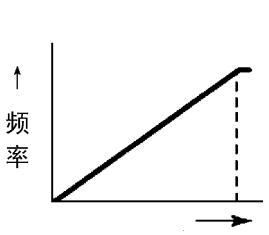
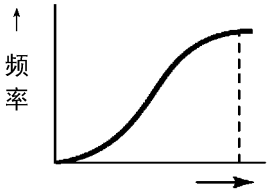
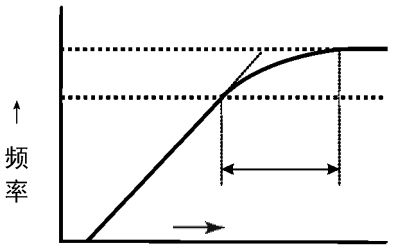



频率


频率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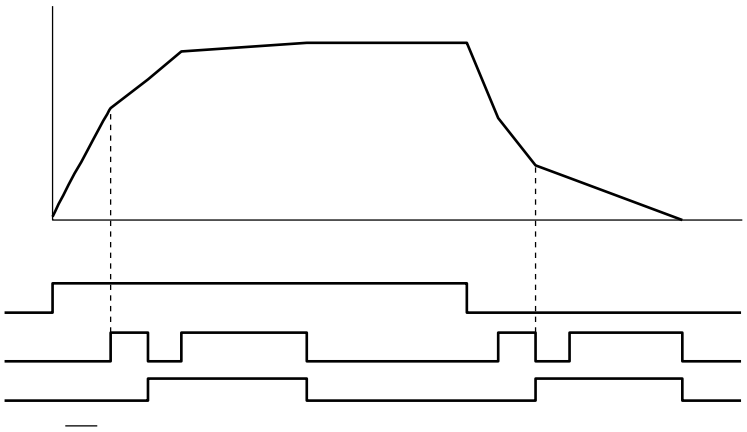

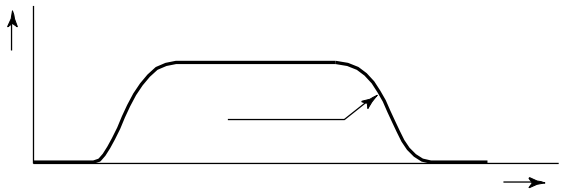

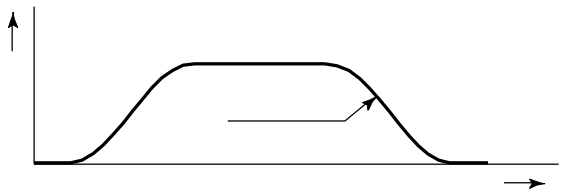

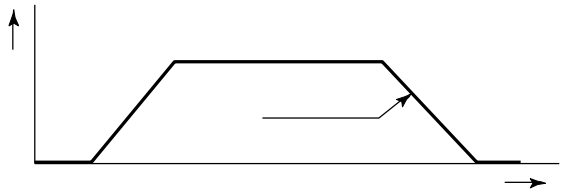

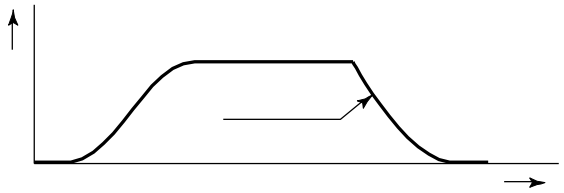

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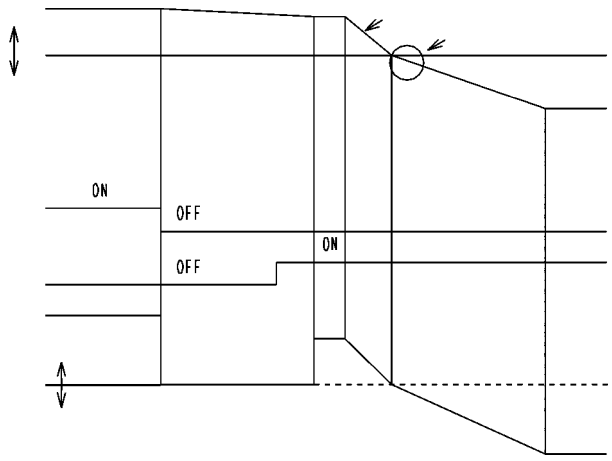
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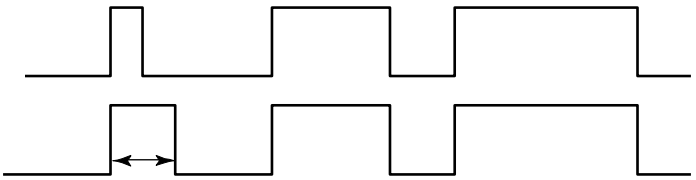
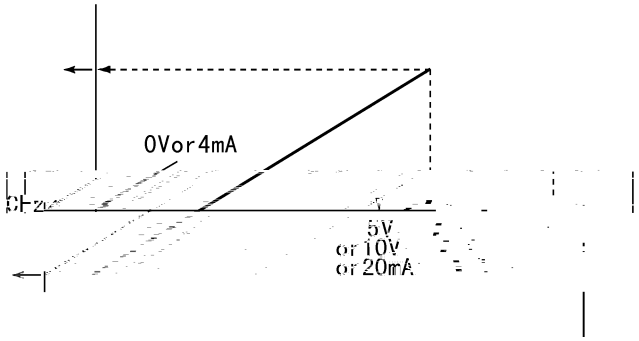
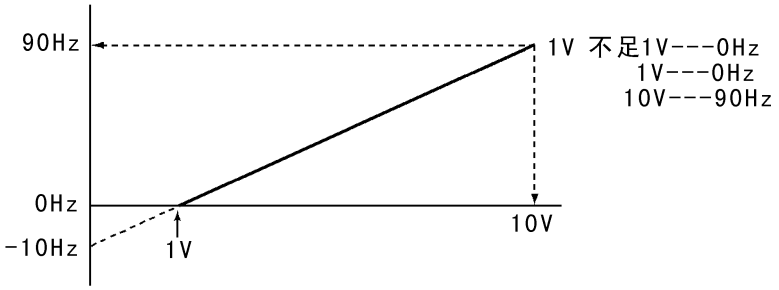



0Vor4mA
5V
or 10V
or 20mA


90Hz
0Hz
-10Hz
1V
10V
1V 不足1V---0Hz
1V---0Hz
10V---90Hz

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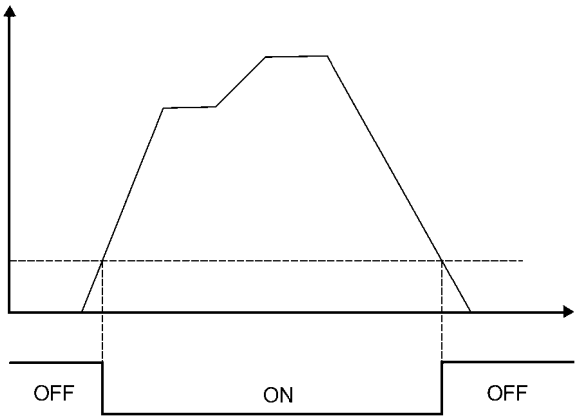
OFF
ON
OFF

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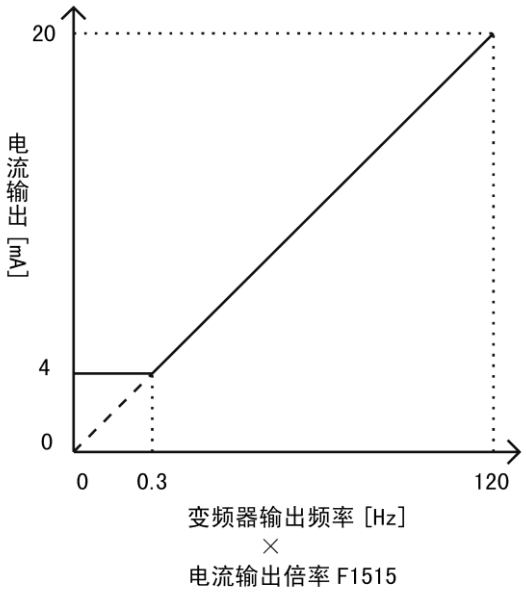
20
电流输出 [mA]
4
0
0
0.3
120
变频器输出频率 [Hz]
×
电流输出倍率 F1515

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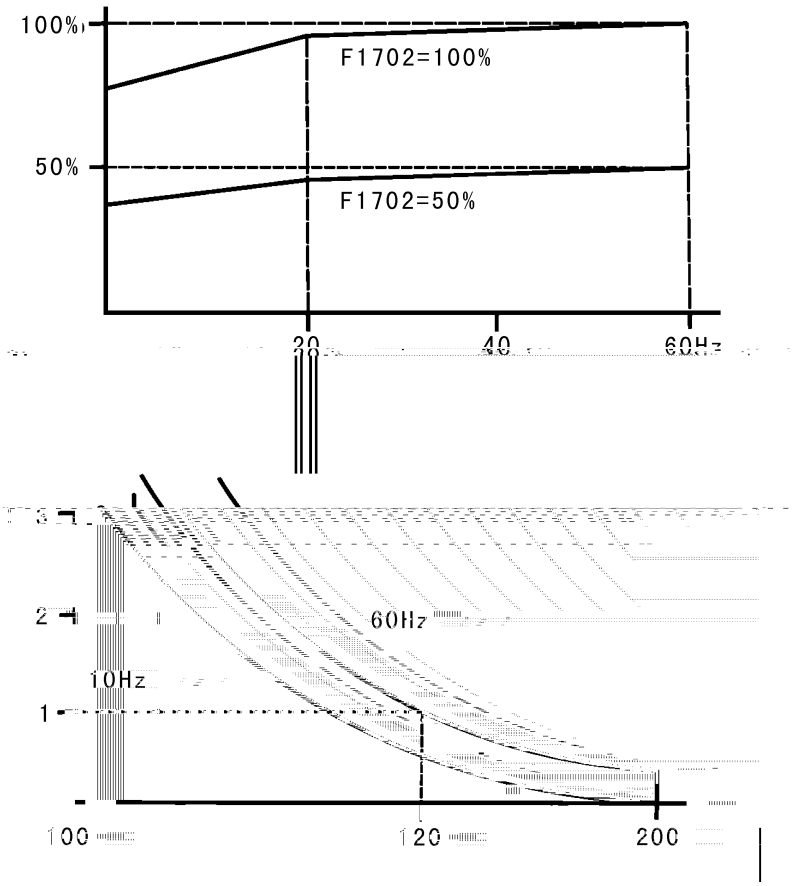
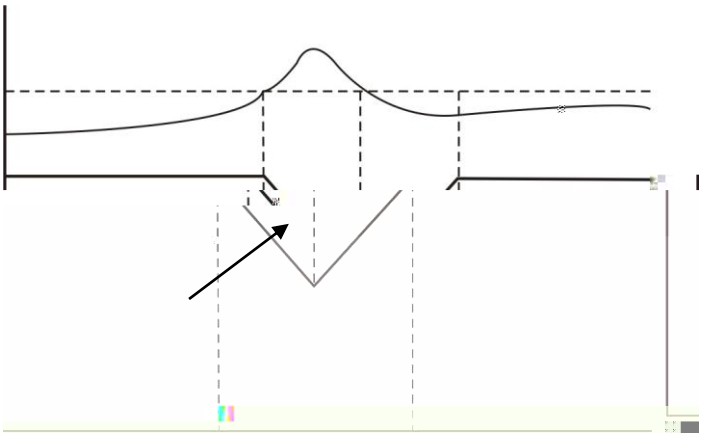

100%
50%
F1702=100%
F1702=50%
20
40
60Hz
3
2
1
60Hz
10Hz
100
120
200



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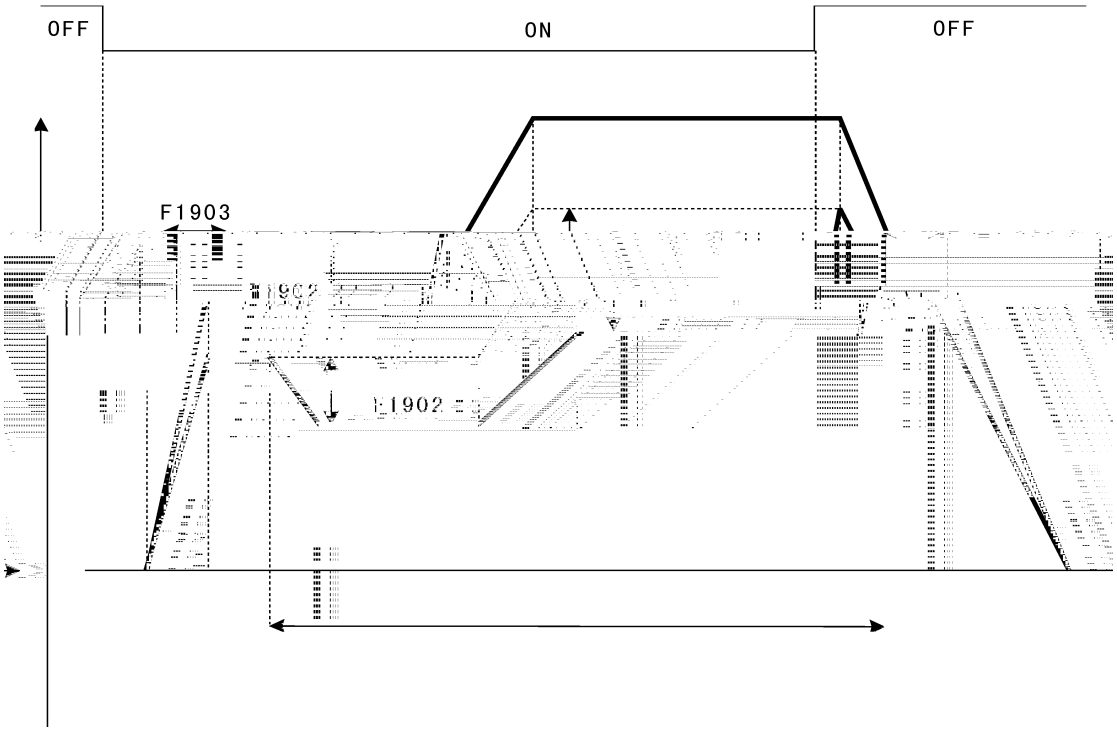
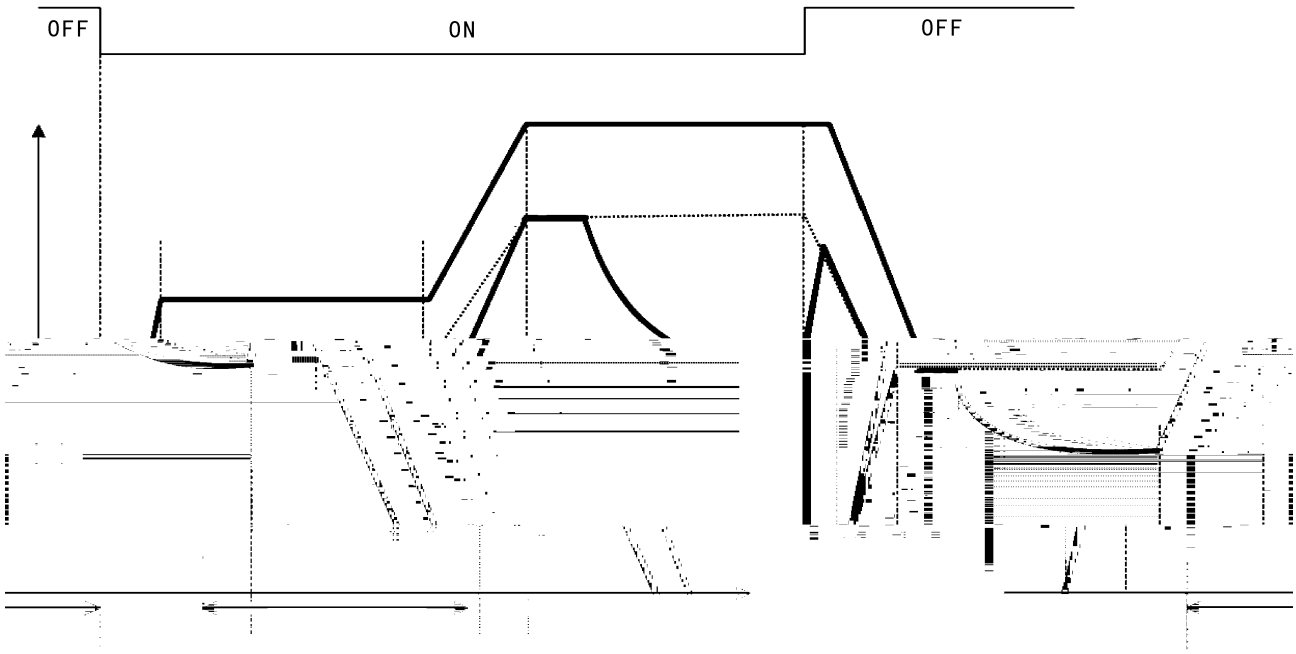

OFF
ON
OFF
F1903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OFF

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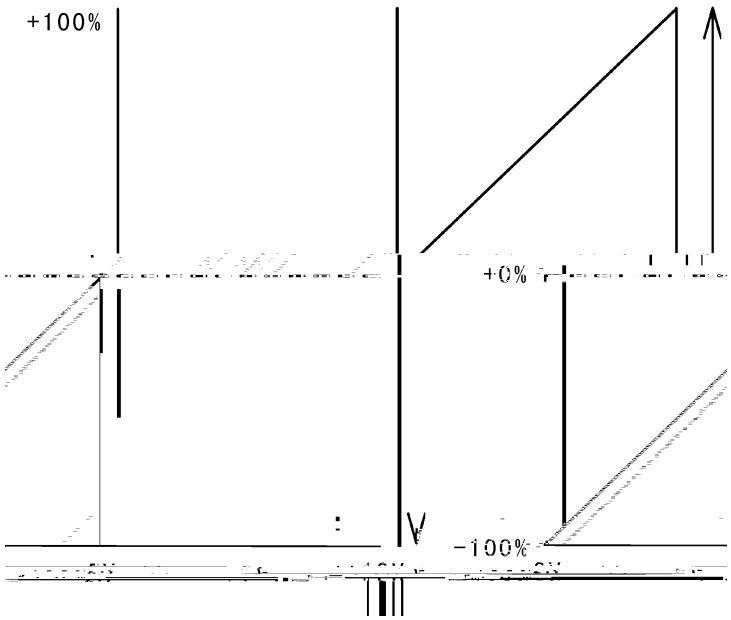
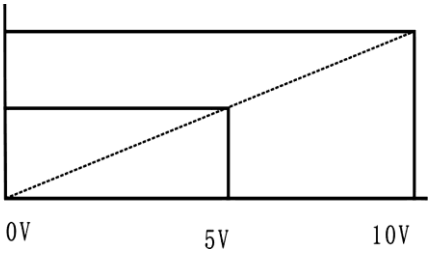
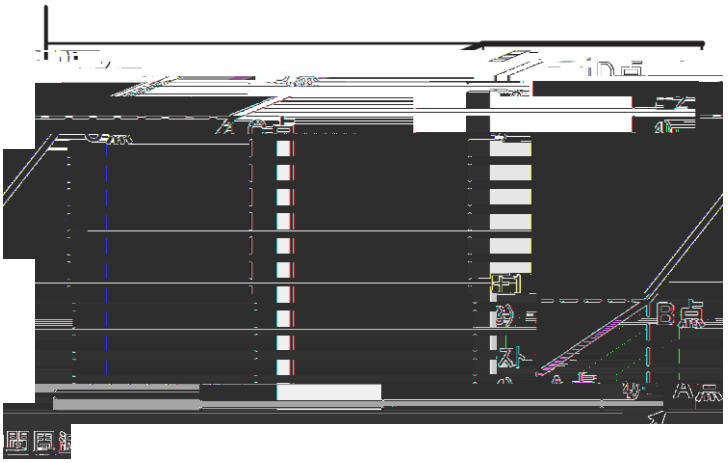

+100%
+0%
-100%


0V
5V
10V



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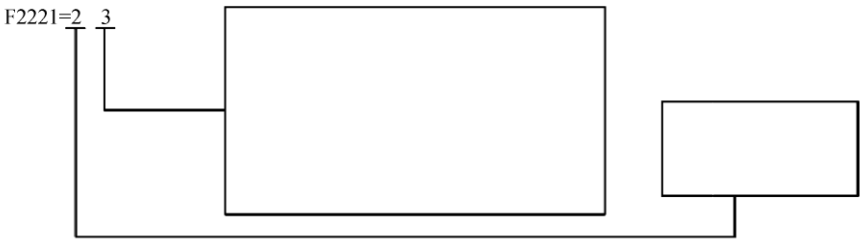
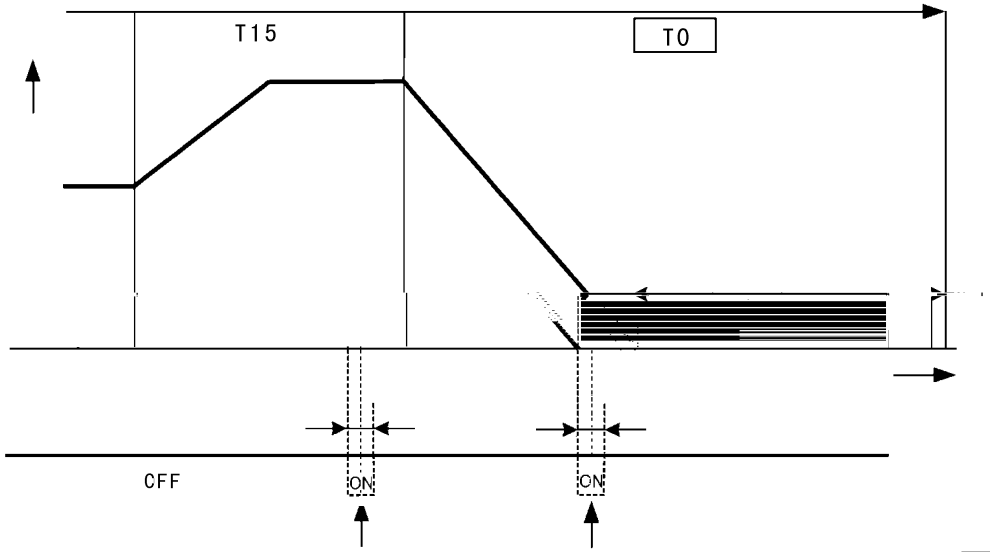
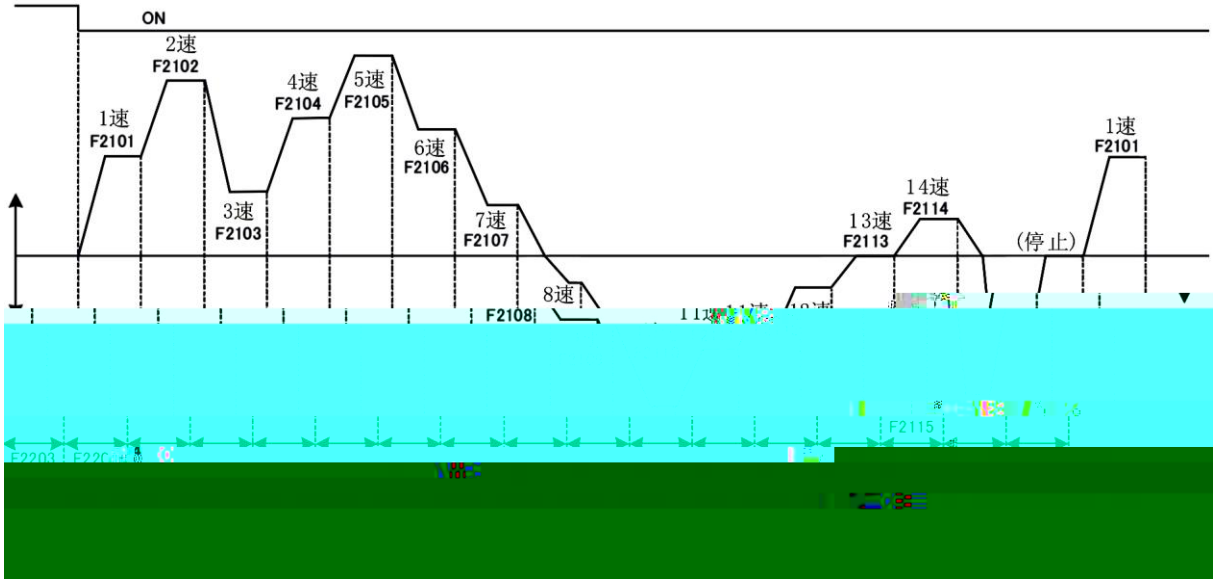
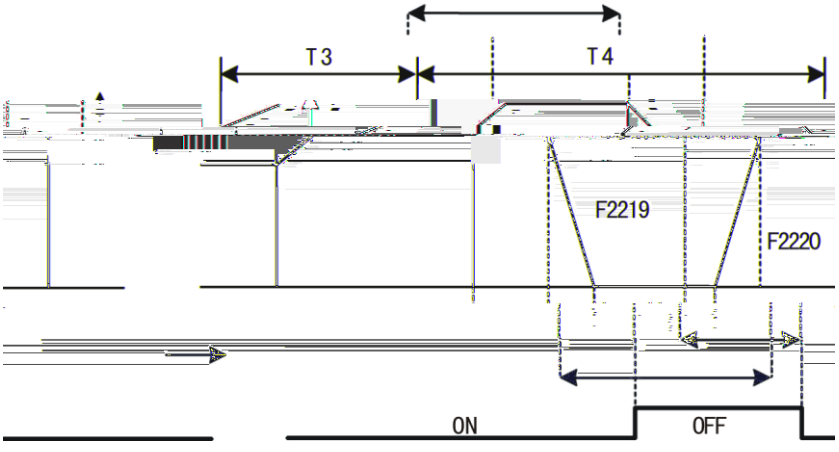
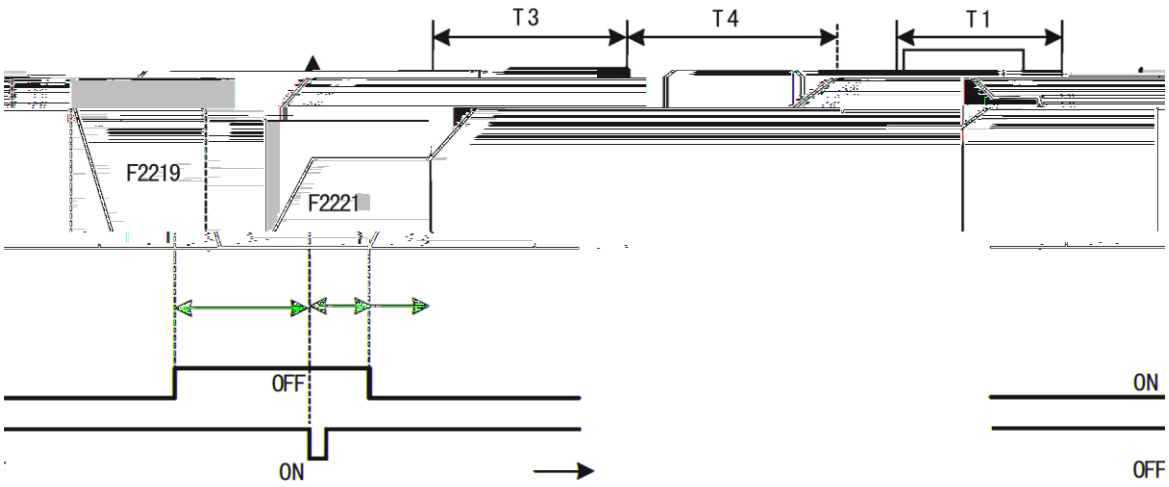

F2221=2 3

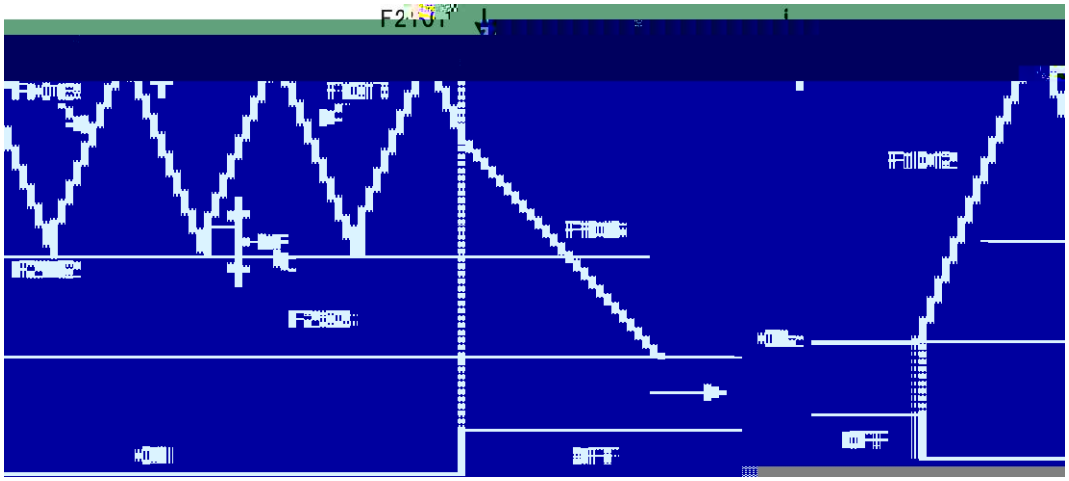
	→ → →

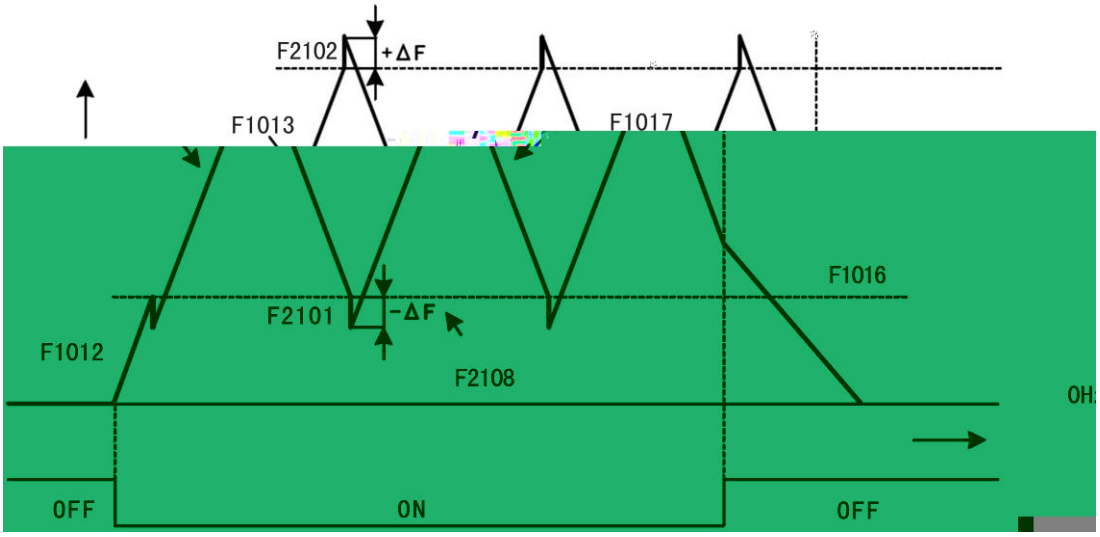

T15
T0
CFF
ON
ON

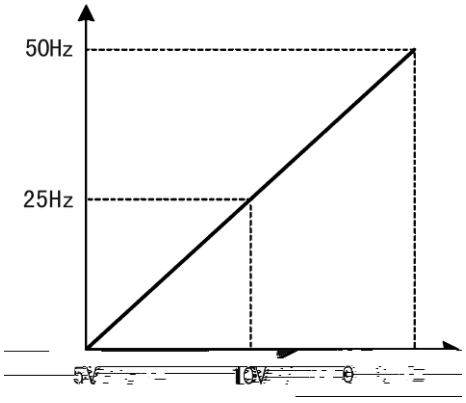

ON
1速
F2101
2速
F2102
3速
F2103
4速
F2104
5速
F2105
6速
F2106
7速
F2107
8速
F2108
13速
F2113
14速
F2114
(停止)
1速
F2101
F2115

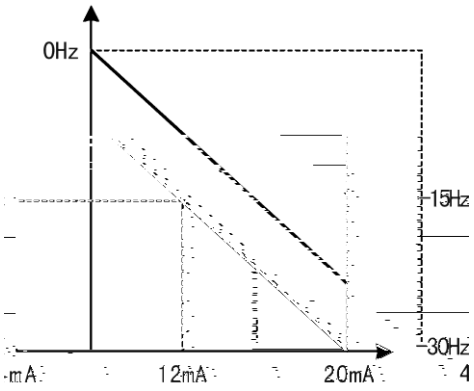

T3
T4
F2219
F2220
ON
OFF

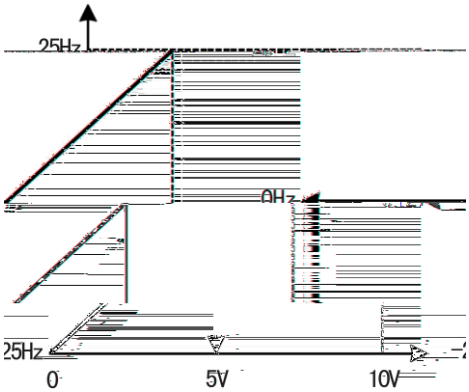

T3
T4
T1
F2219
F2221
OFF
ON
ON
OFF

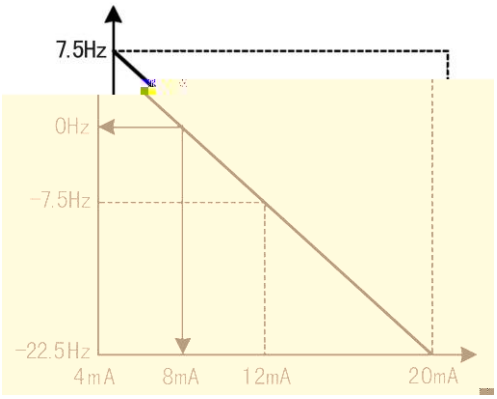


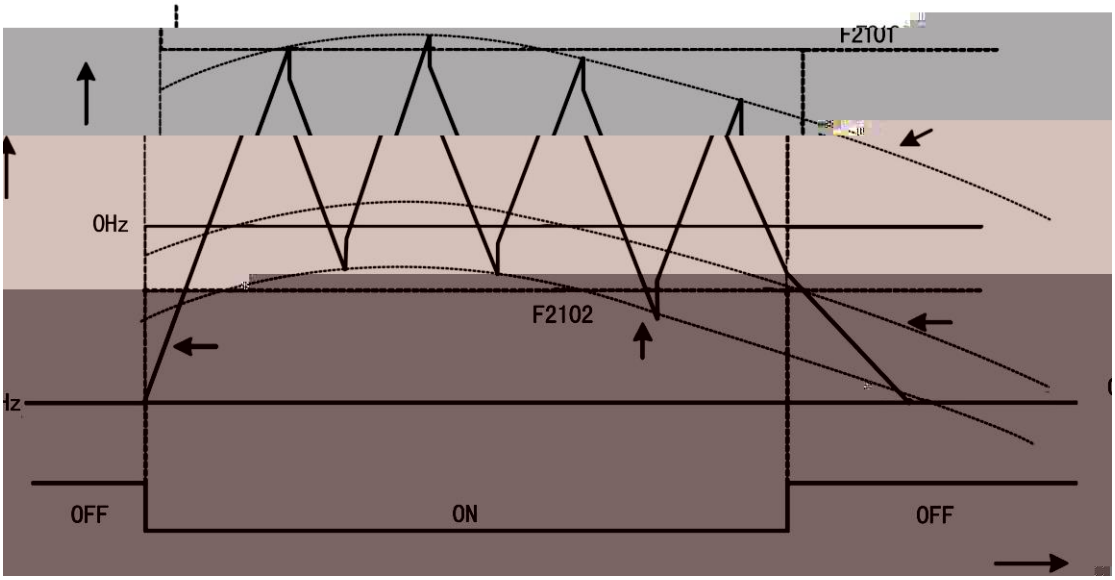

F2102
+ΔF
F1013
F1017
F1016
F2101
-ΔF
F1012
F2108
OFF
ON
OFF

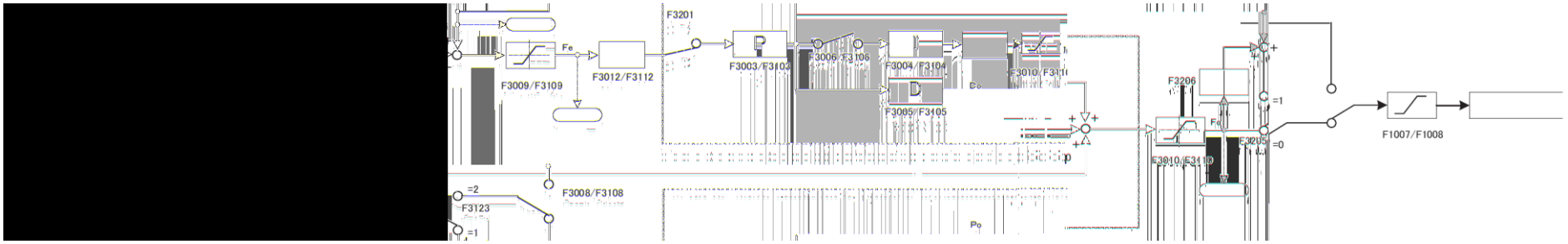

50Hz
25Hz

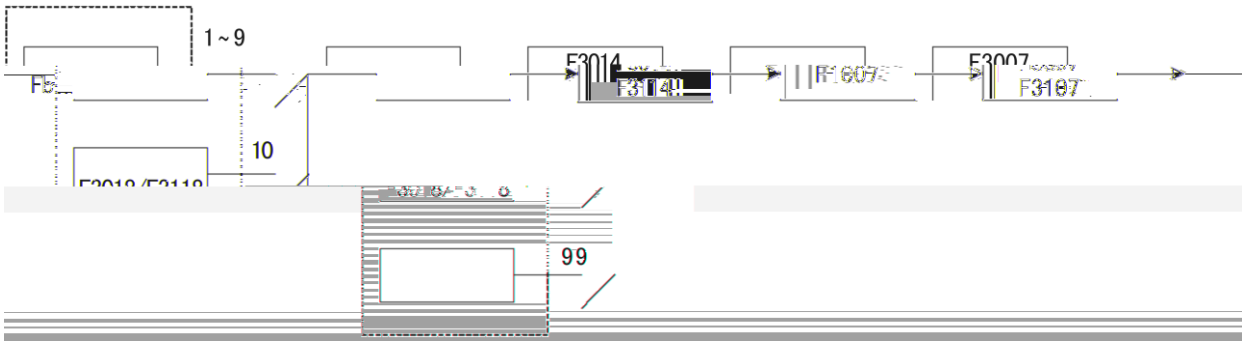

0Hz
15Hz
30Hz
12mA
20mA

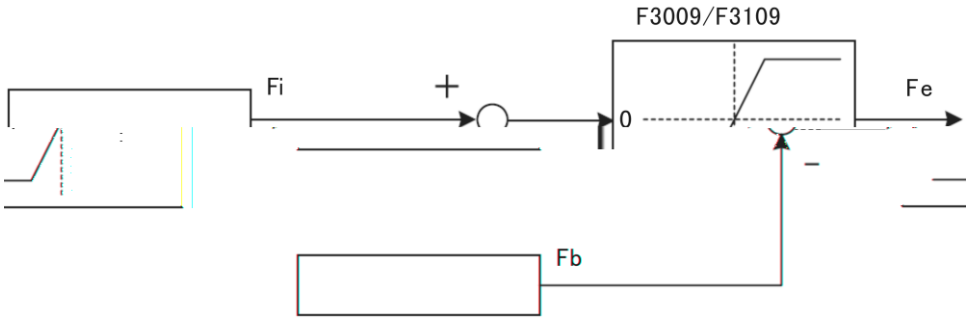

25Hz
0Hz
25Hz
0
5V
10V


7.5Hz
0Hz
-7.5Hz
-22.5Hz
4mA
8mA
12mA
20mA


F2101
0Hz
F2102
OFF
ON
OFF


F3201
Fe
F3009/F3109
F3012/F3112
P
F3003/F3103
F3006/F3106
F3004/F3104
D
F3005/F3105
Do
F3010/F311
F3206
Fe
=1
=0
F3205
F3910/F3110
F1007/F1008
=2
F3123
=1
F3008/F3108
Po


1~9
10
99



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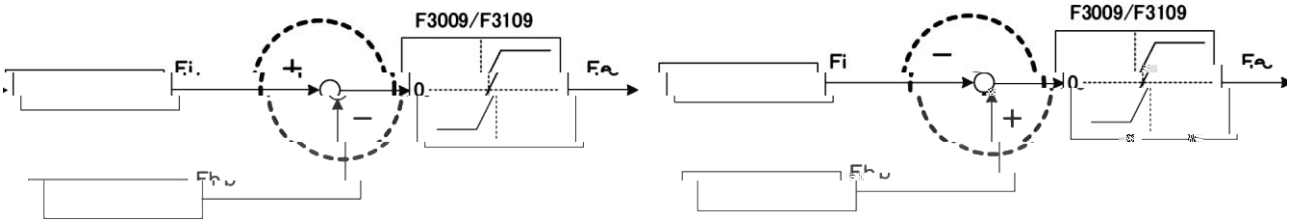

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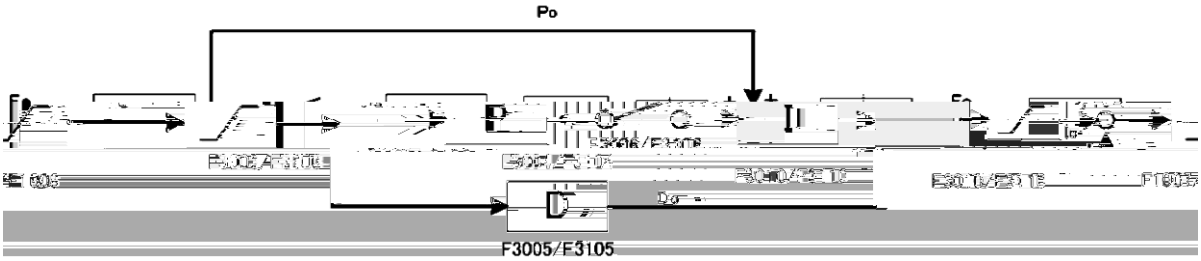
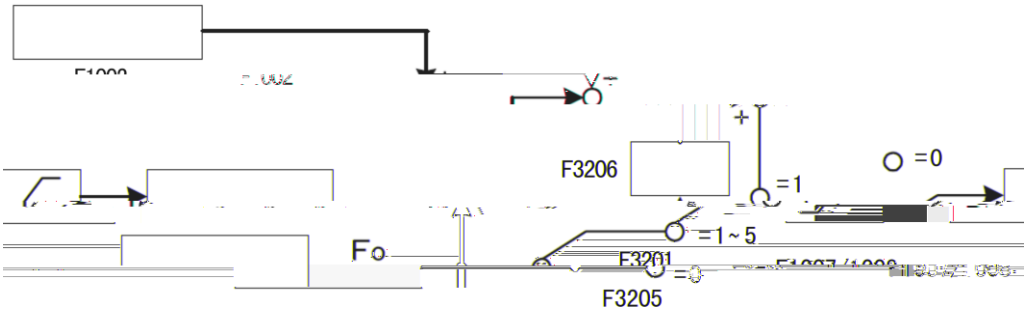
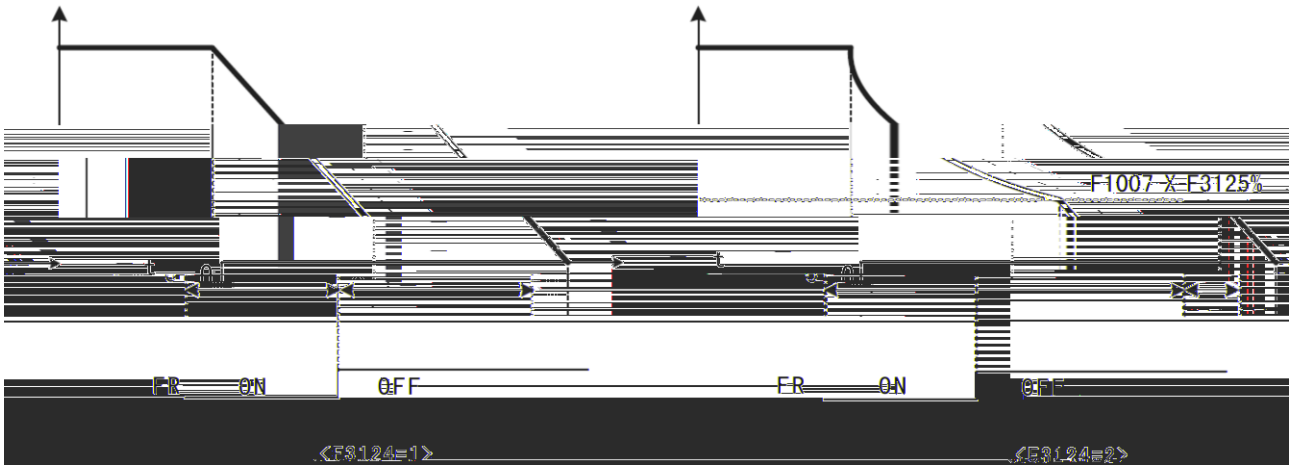

Po
F3005/E3105


F3206
=1
=0
=1~5
Fo
F3201
F3205


=F1007-X=F3125%
FR
ON
OFF
FR
ON
OFF
<F3124=1>
<F3124=2>

FbEr

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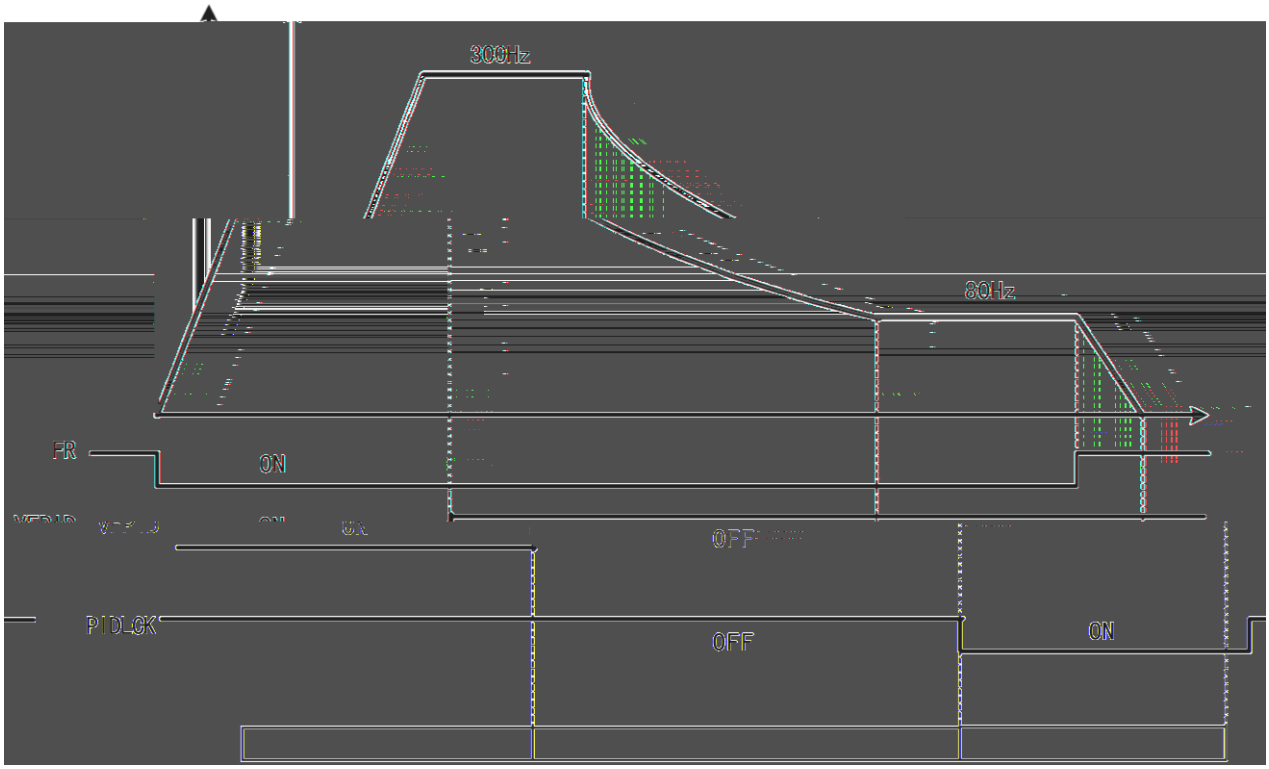
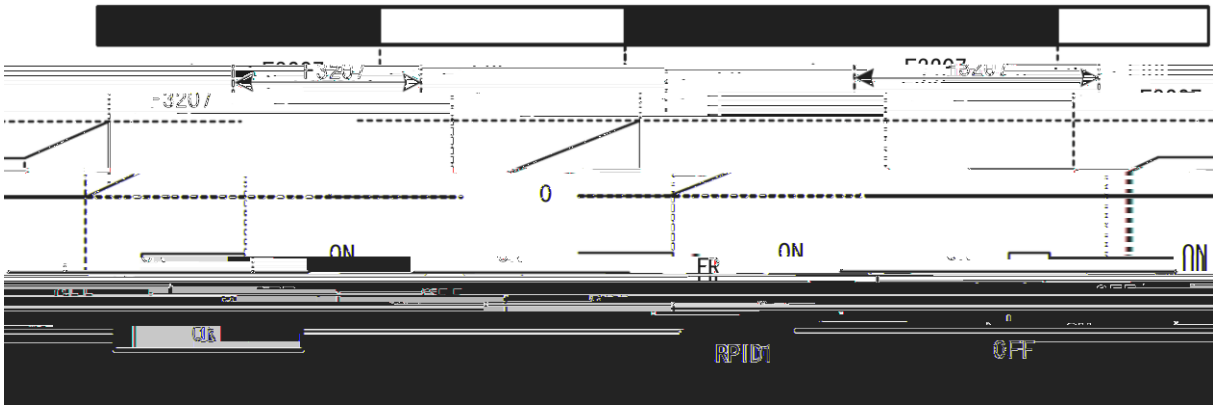

300Hz
80Hz
FR
ON
OFF
PIDLCK
OFF
ON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ON
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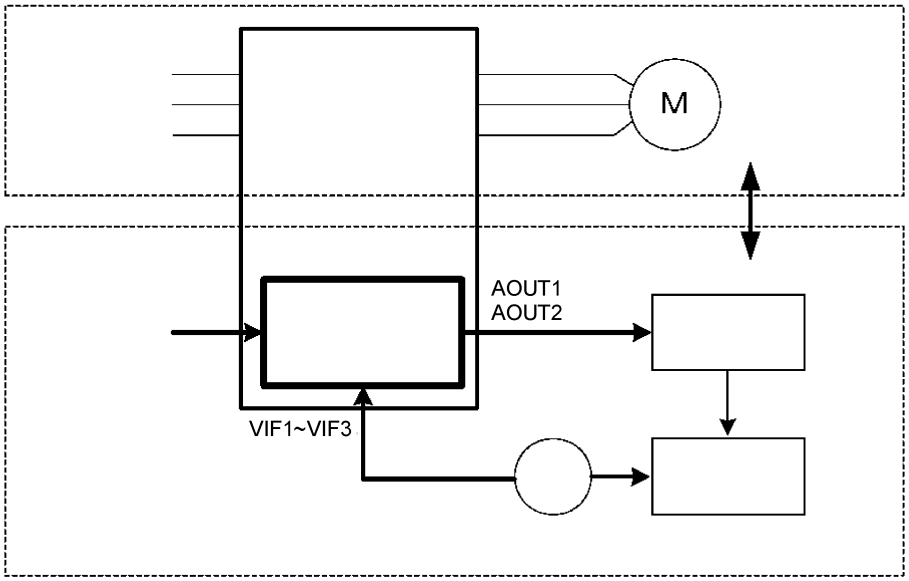
ON
RPID
OFF


M
AOUT1
AOUT2
VIF1~VIF3

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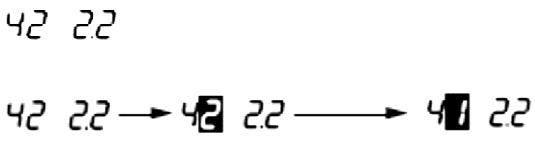

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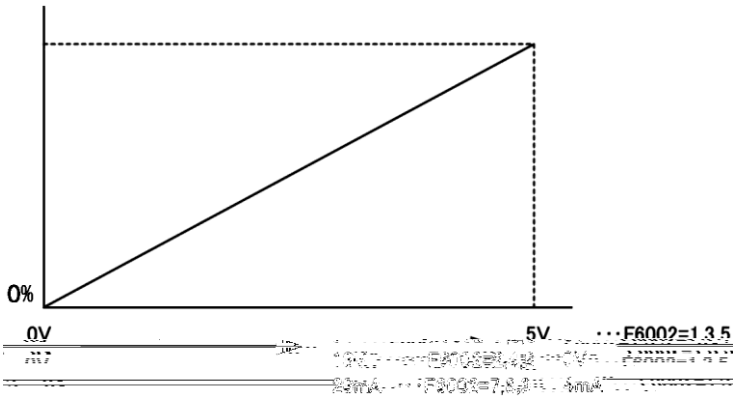
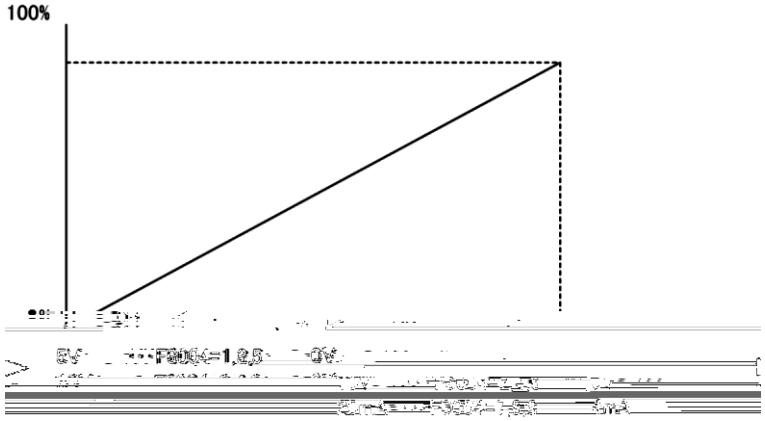

0%
0V
5V


100%

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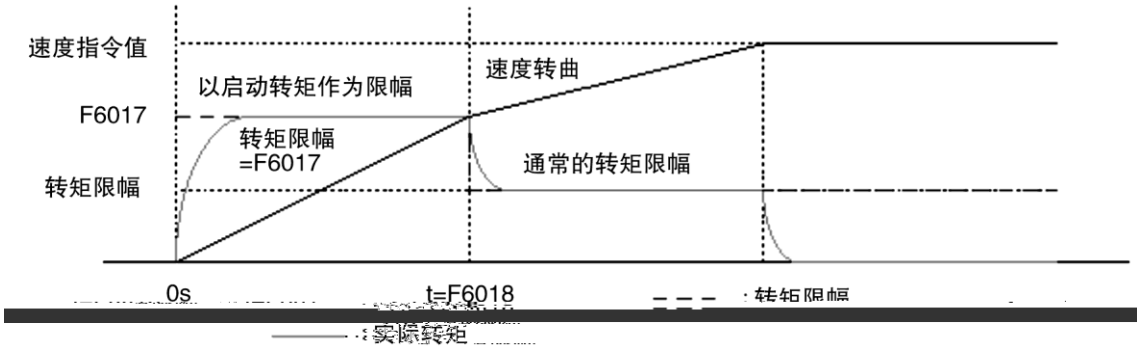
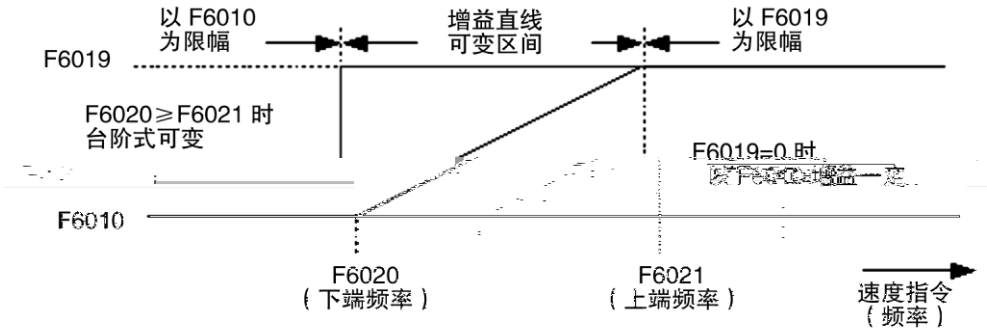
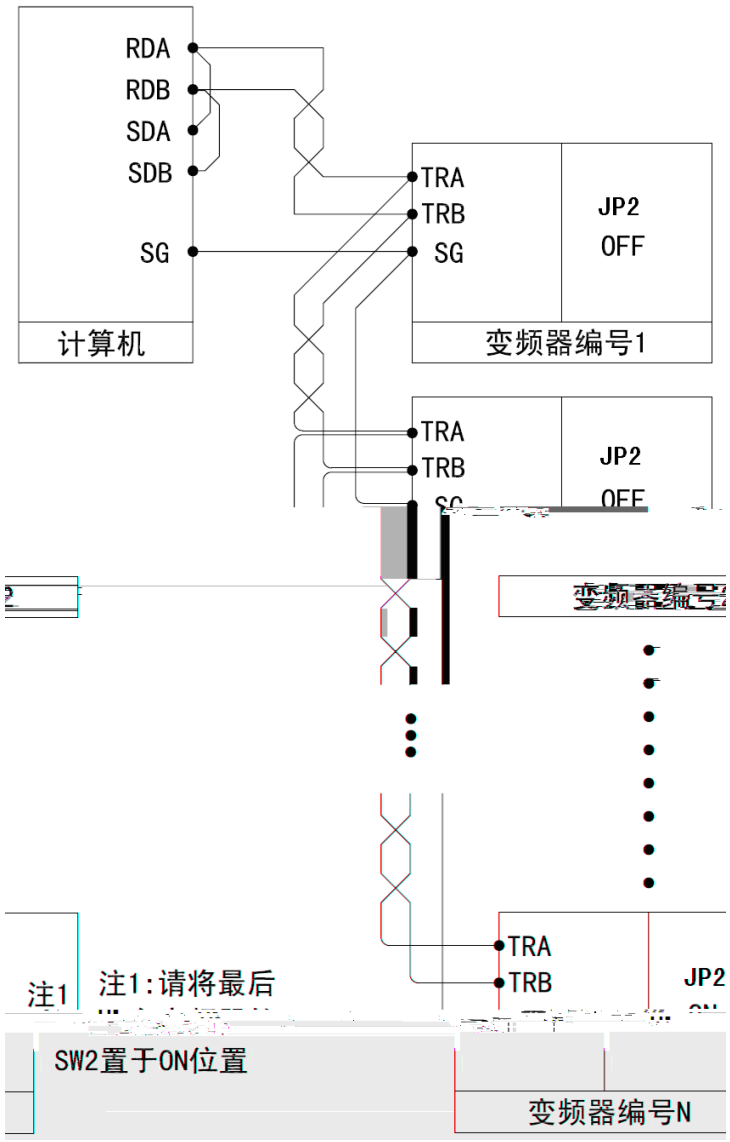
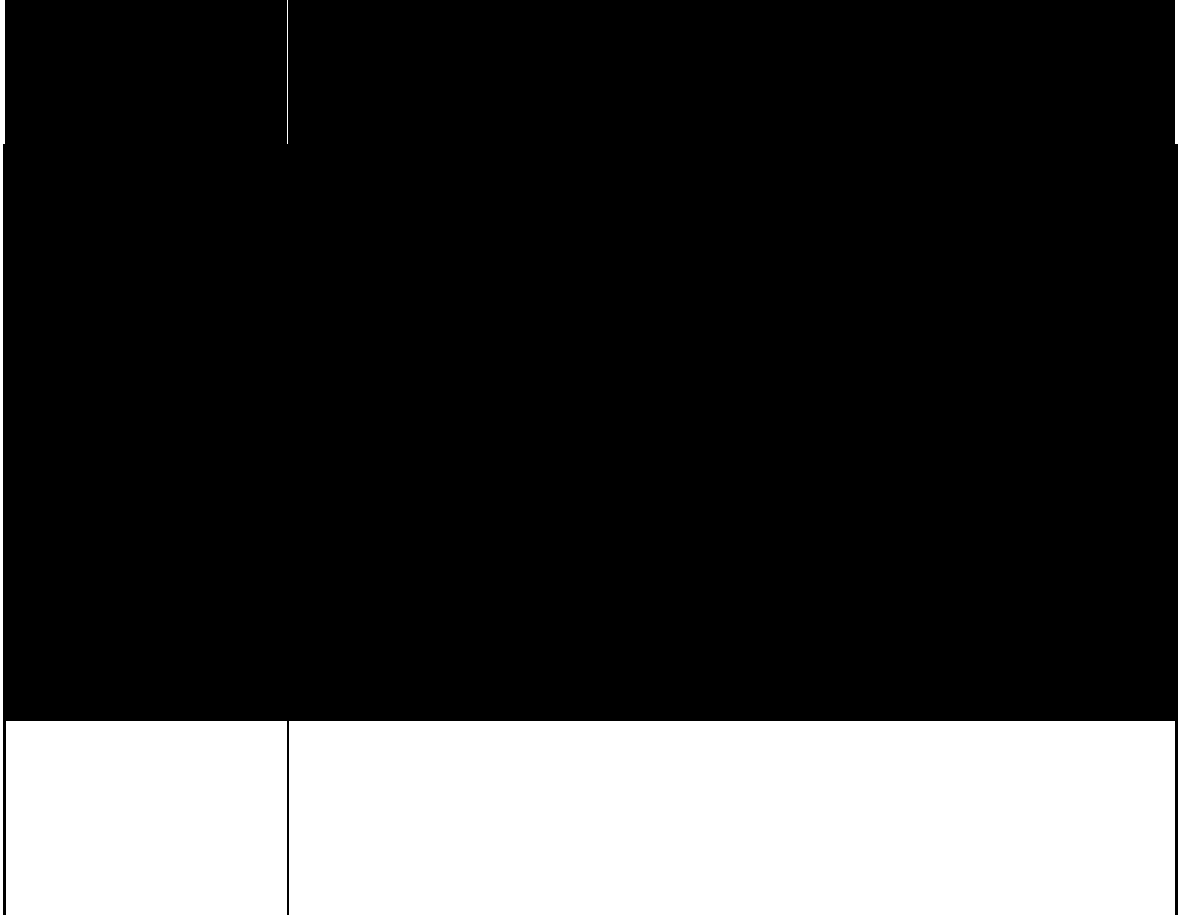
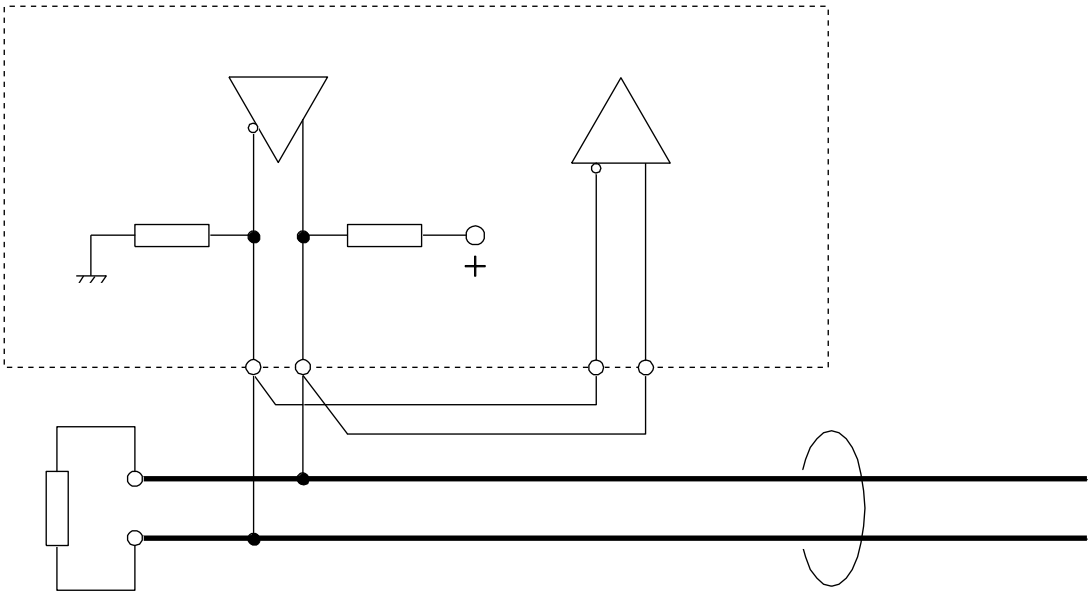

速度指令值
以启动转矩作为限幅
速度转曲
F6017
转矩限幅
=F6017
转矩限幅
通常的转矩限幅
0s
t=F6018
转矩限幅
实际转矩

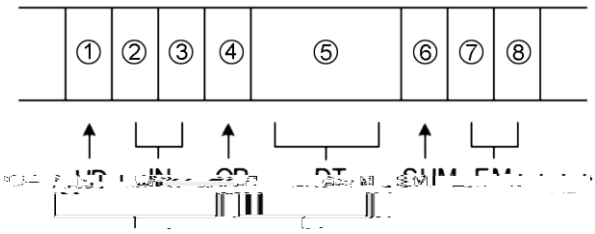
-
-
-
-
-
-
-
-
-


以 F6010
为限幅
增益直线
可变区间
以 F6019
为限幅
F6019
F6020≥F6021 时
台阶式可变
F6019=0 时
F6010
F6020
（下端频率）
F6021
（上端频率）
速度指令
（频率）


RDA
RDB
SDA
SDB
SG
计算机
TRA
TRB
SG
JP2
OFF
变频器编号1
TRA
TRB
JP2
TRA
TRB
JP2
注1
注1:请将最后
SW2置于ON位置
变频器编号N






①
②
③
④
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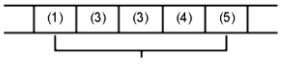
⑥
⑦
⑧

(1)
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(3)
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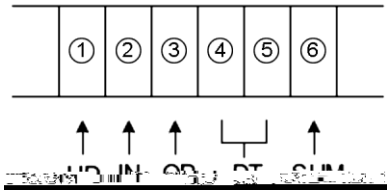
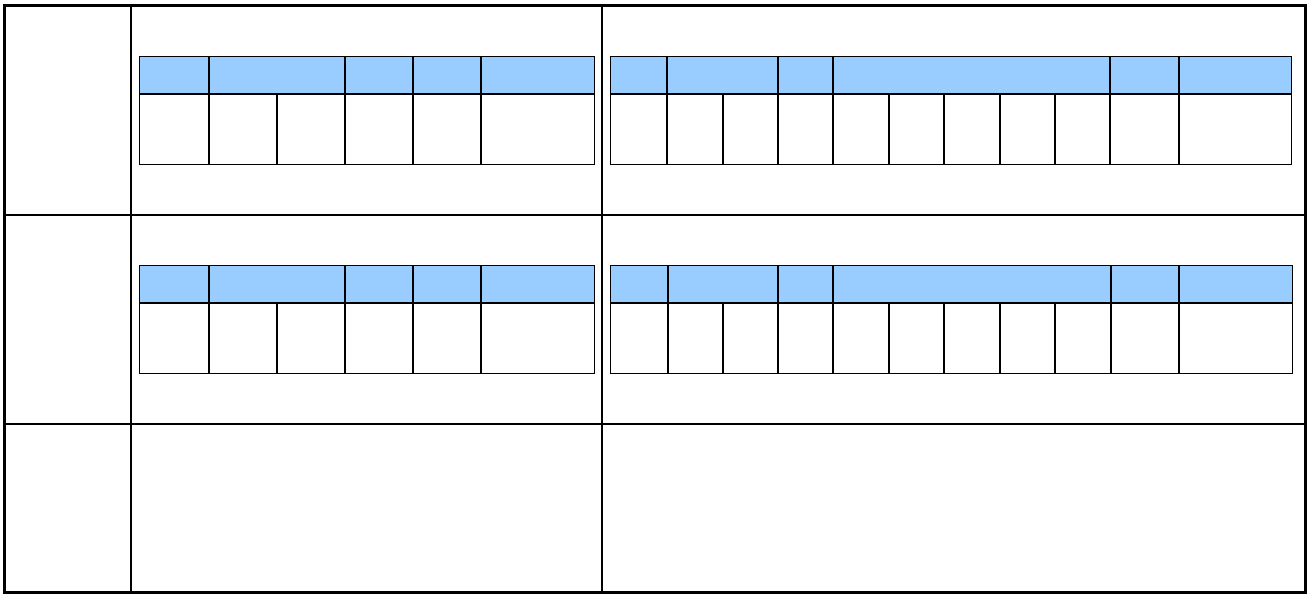
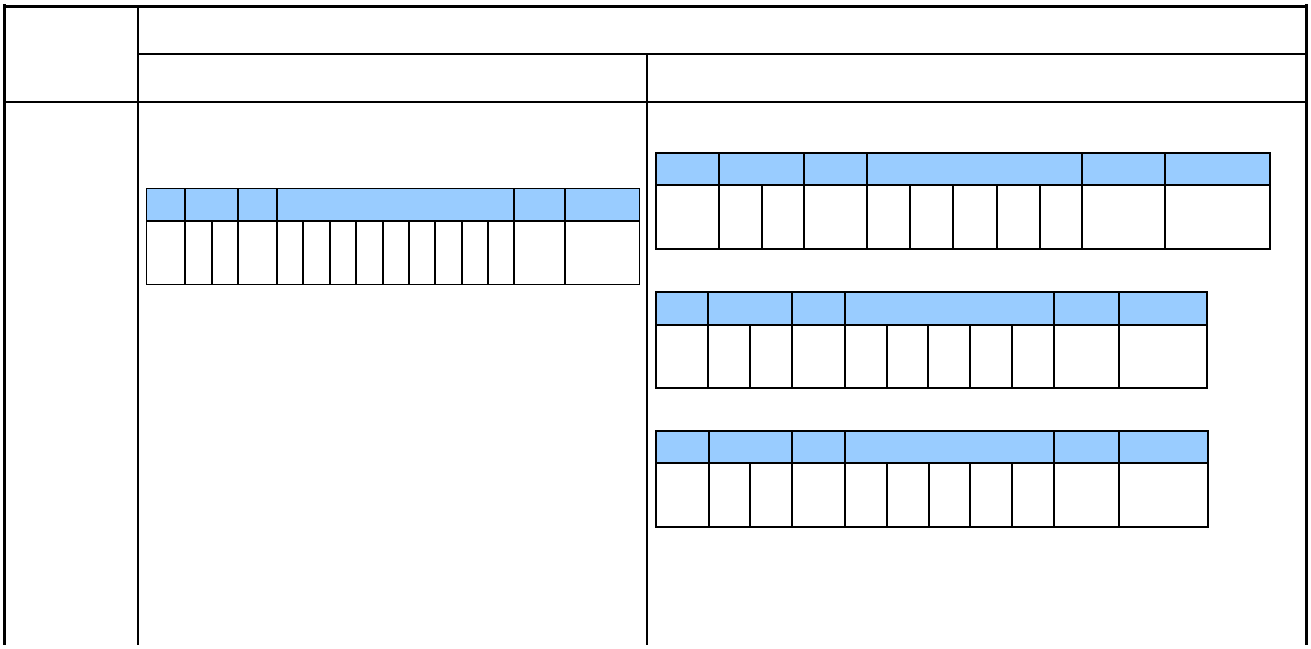
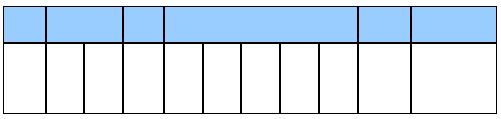

①
②
③
④
⑤
⑥







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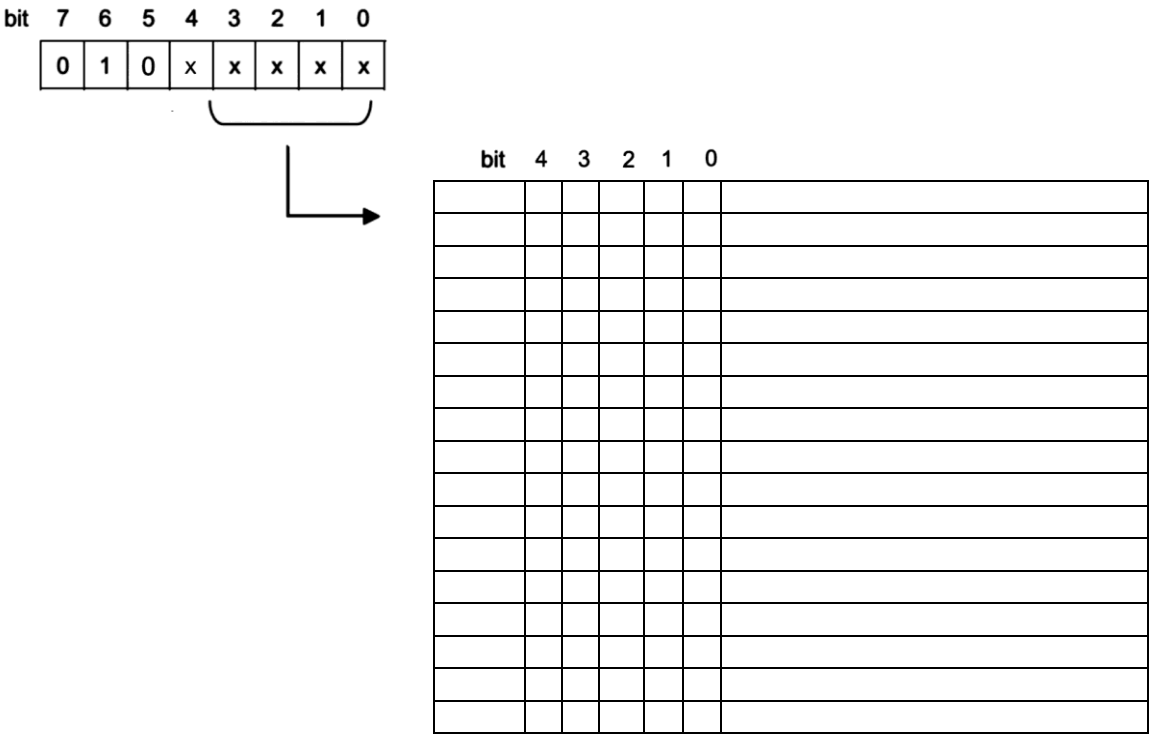
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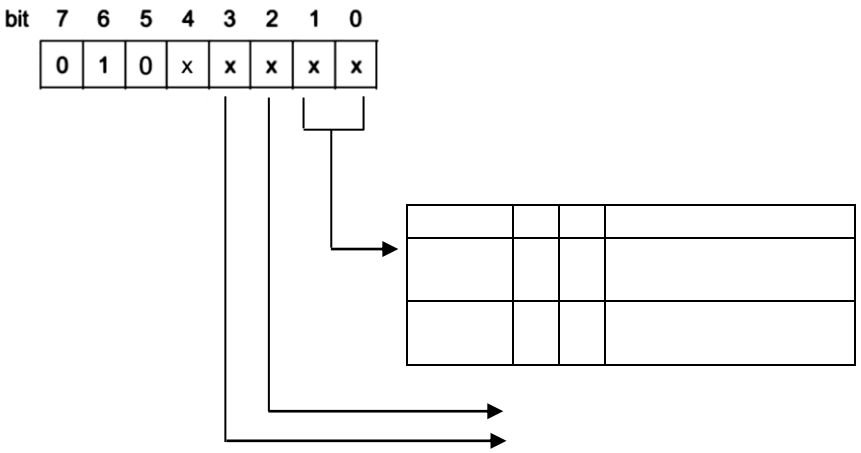
0 1 0 x x x x x
bit 4 3 2 1 0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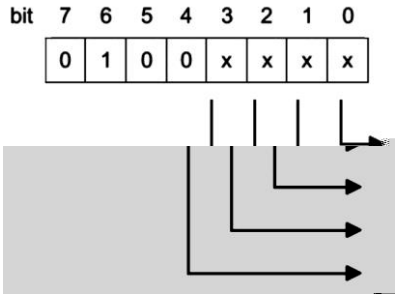
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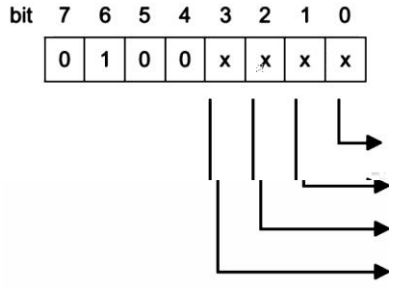
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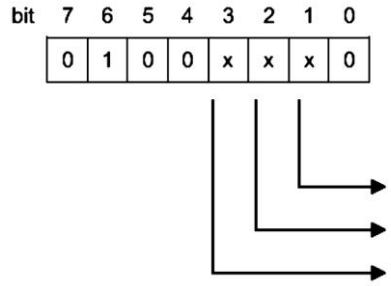
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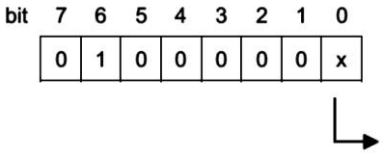
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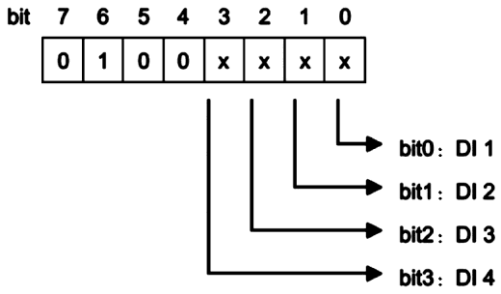
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bit1：DI 2
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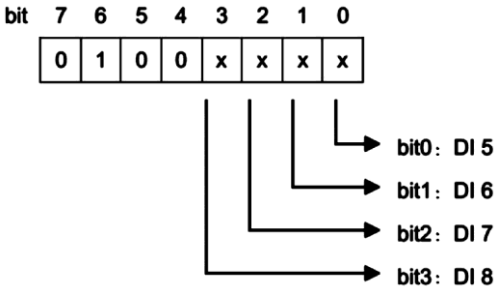
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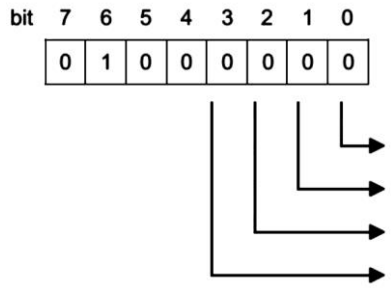
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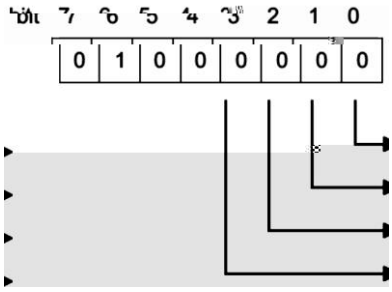
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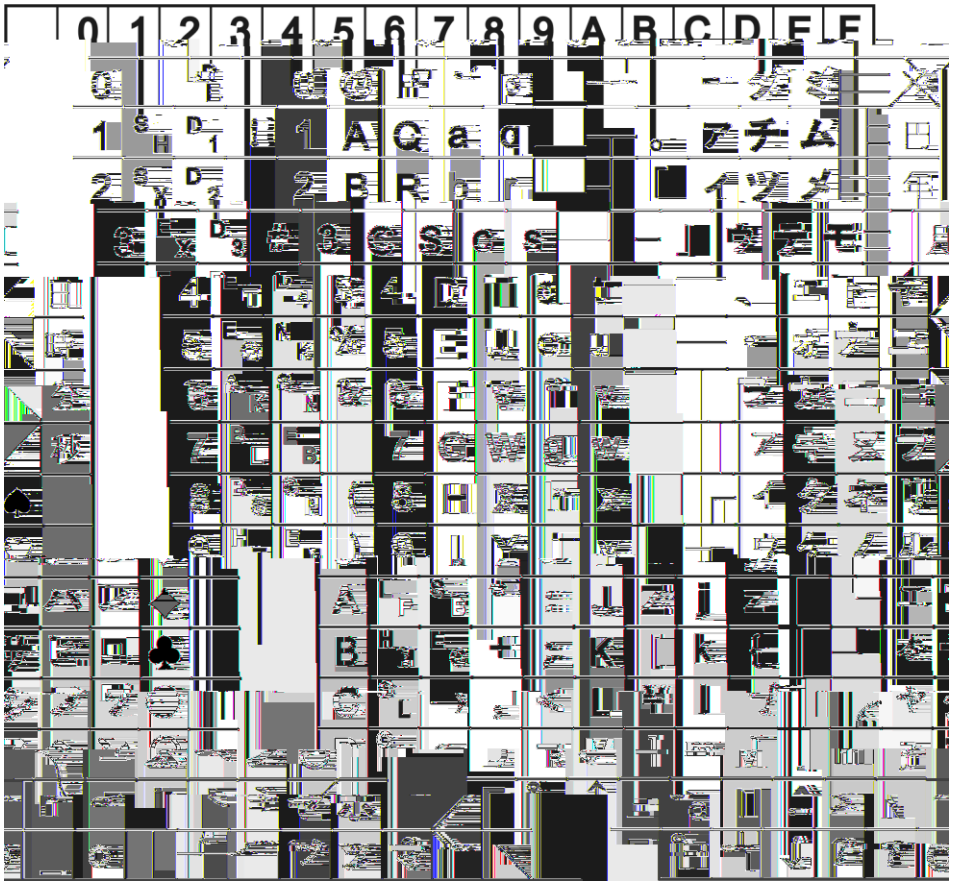

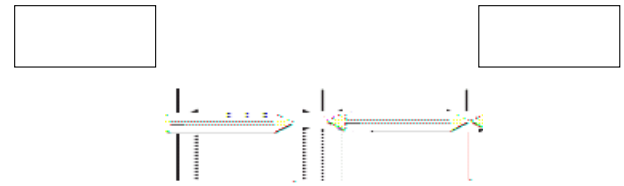

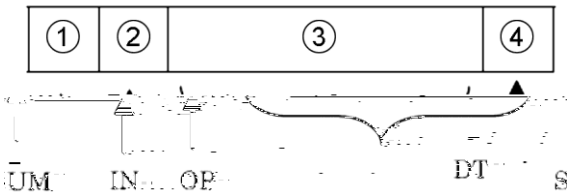
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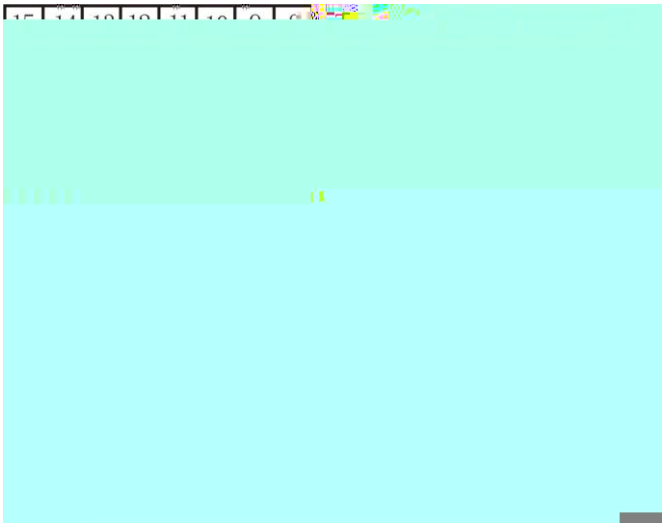

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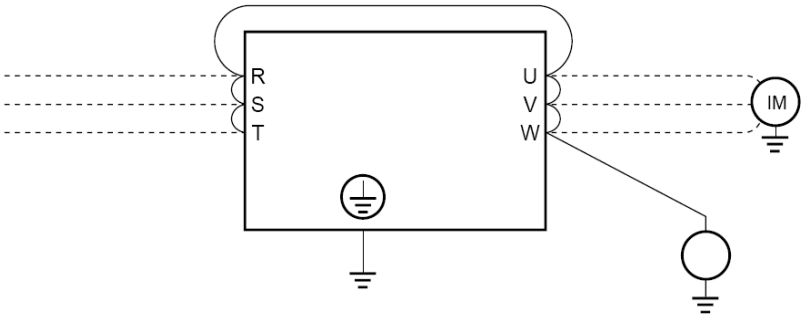
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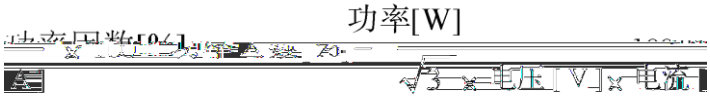

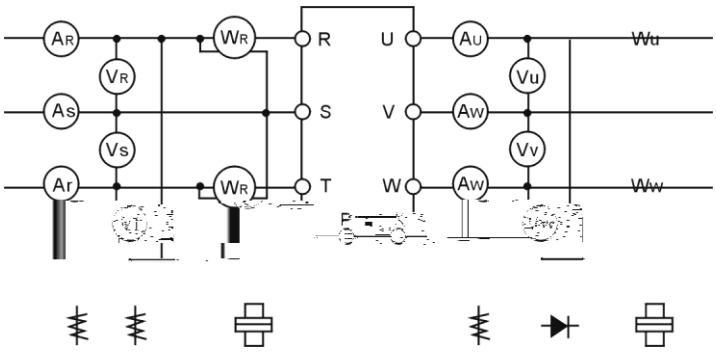

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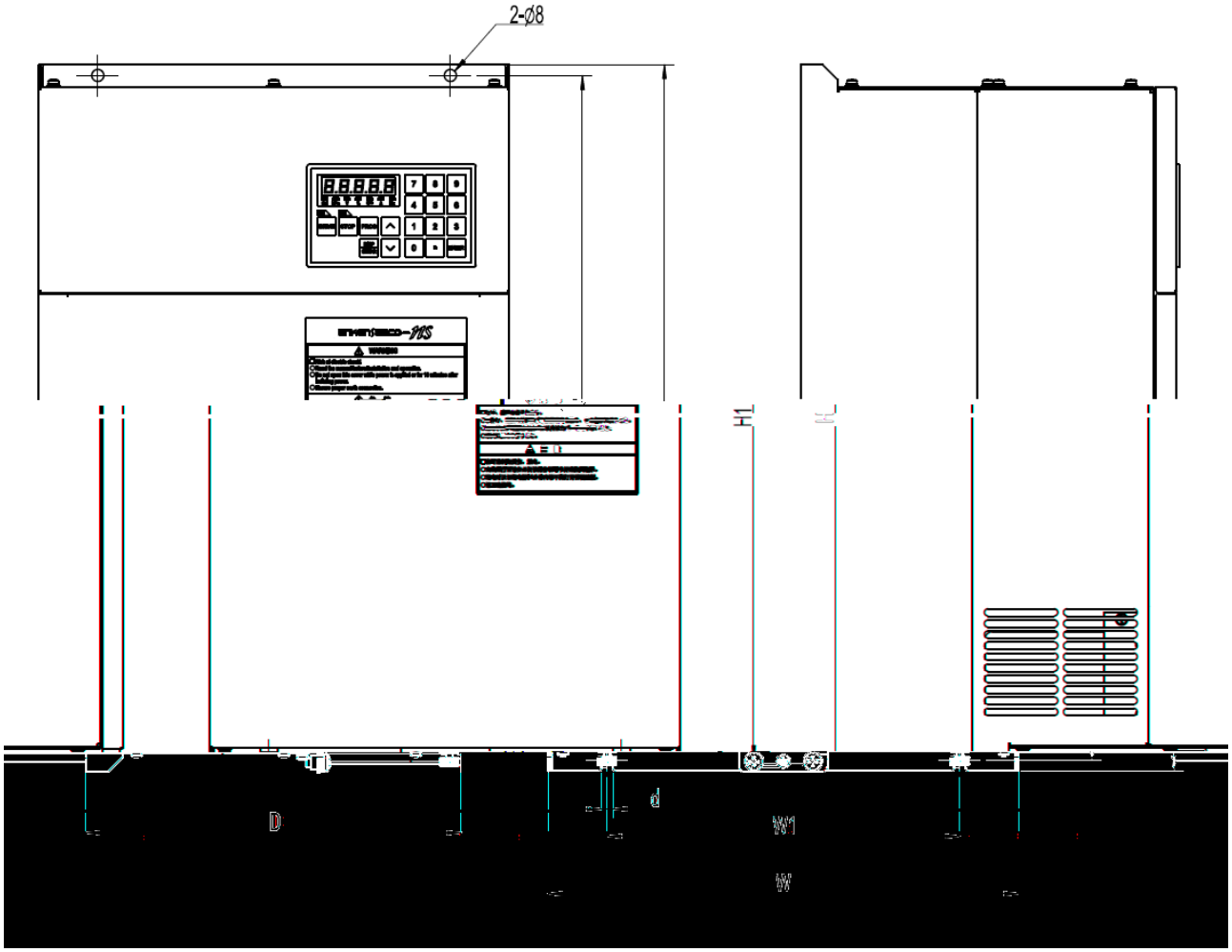

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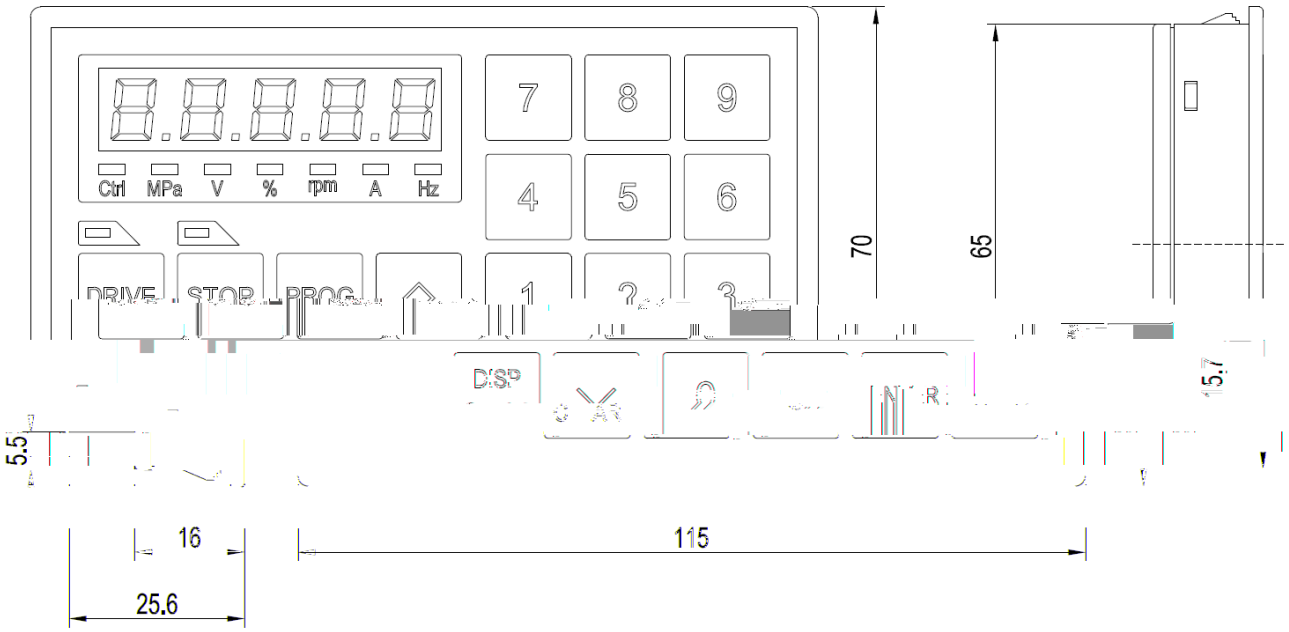
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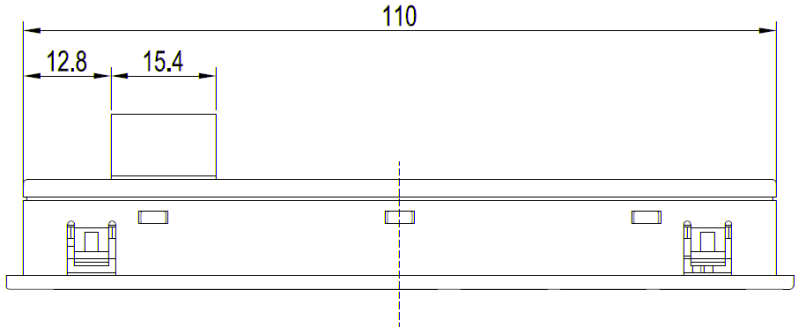
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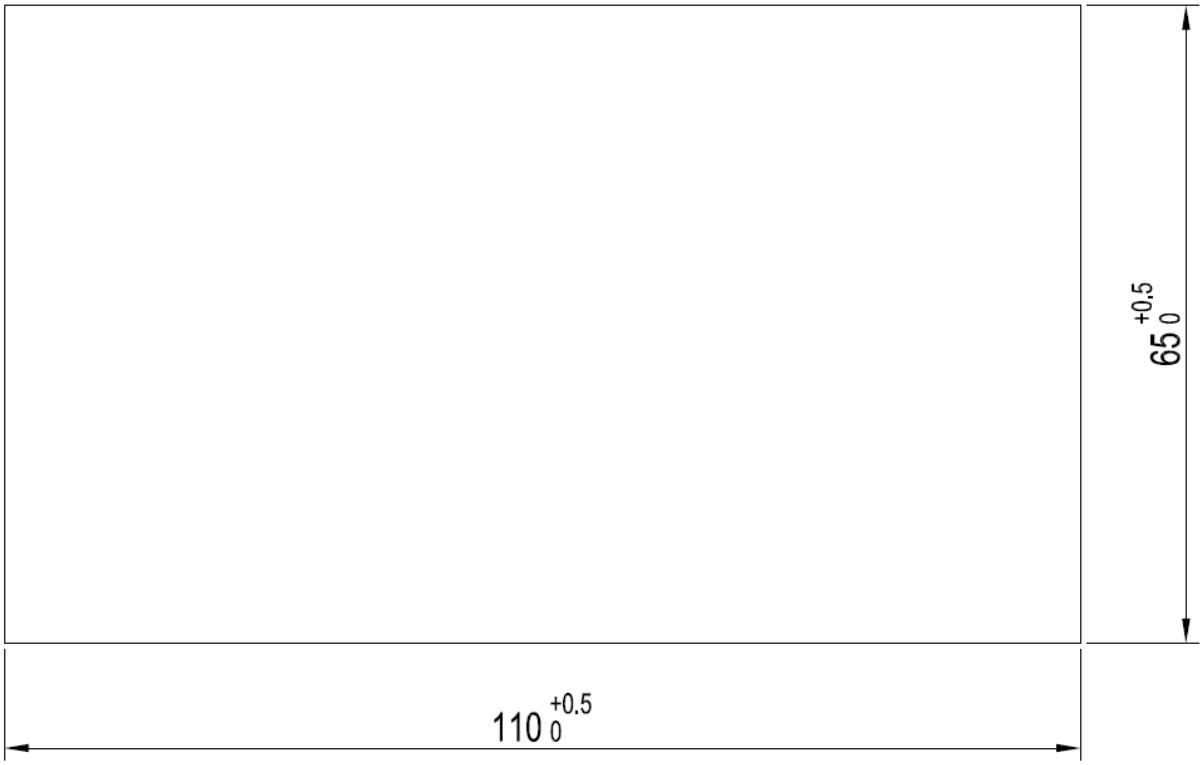
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