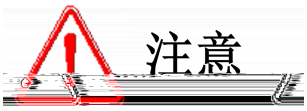
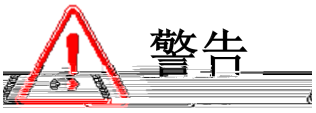
GUIDE
GUIDE
GUIDE
GUIDE

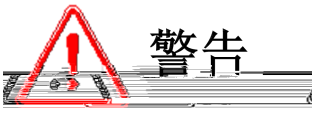
危险	
注意	

危险

注意







危险

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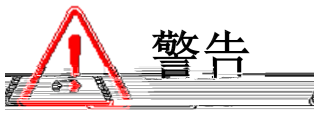

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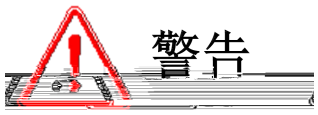
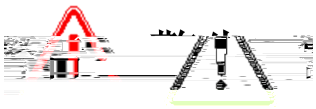
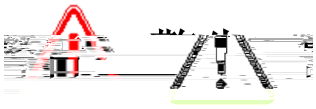
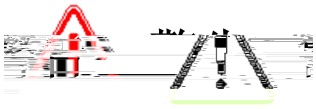


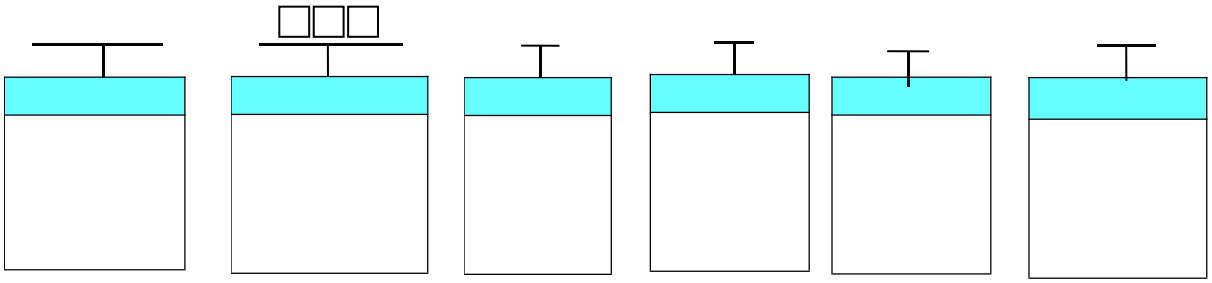
警告

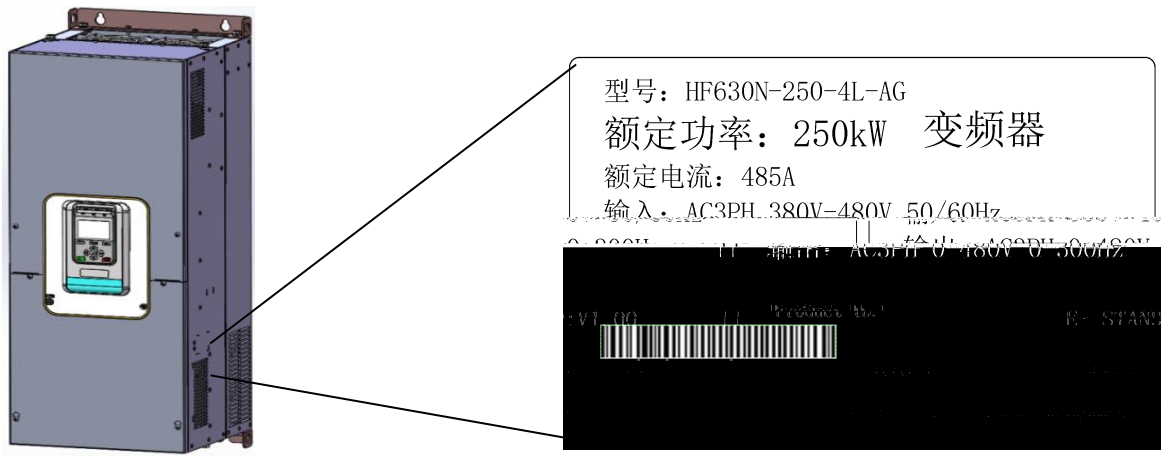
危险







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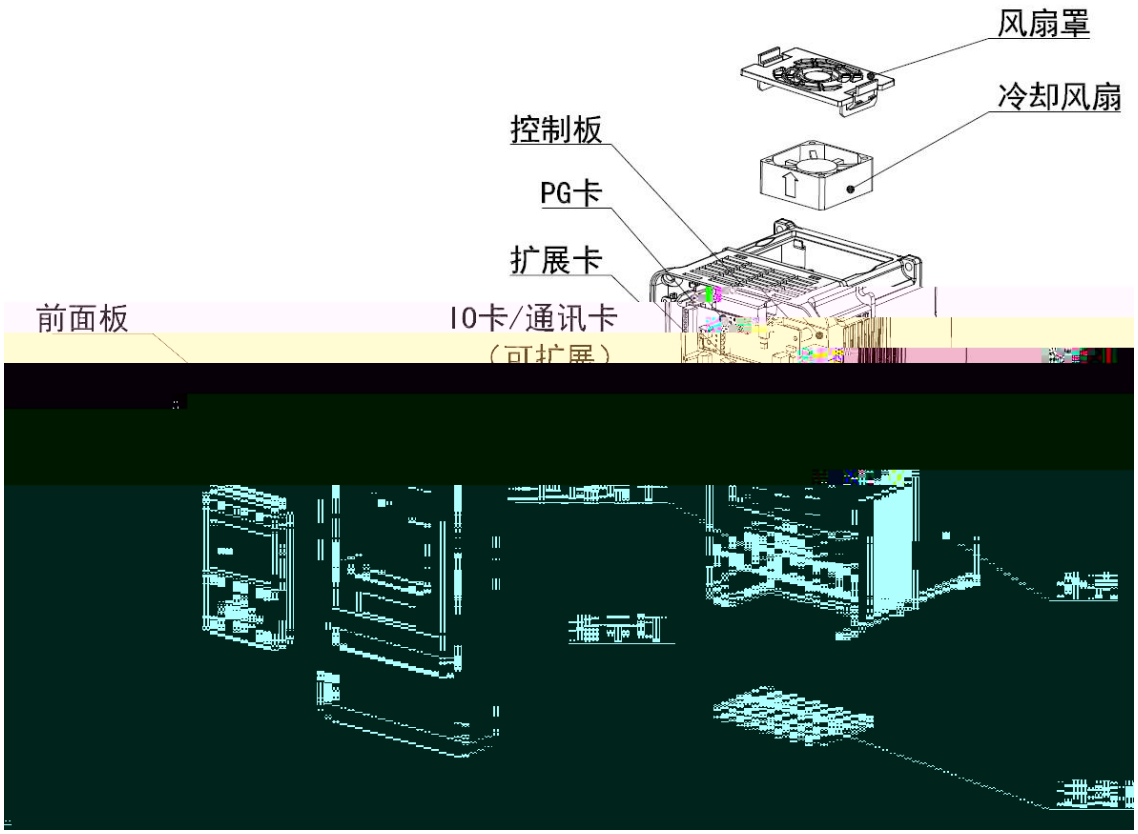
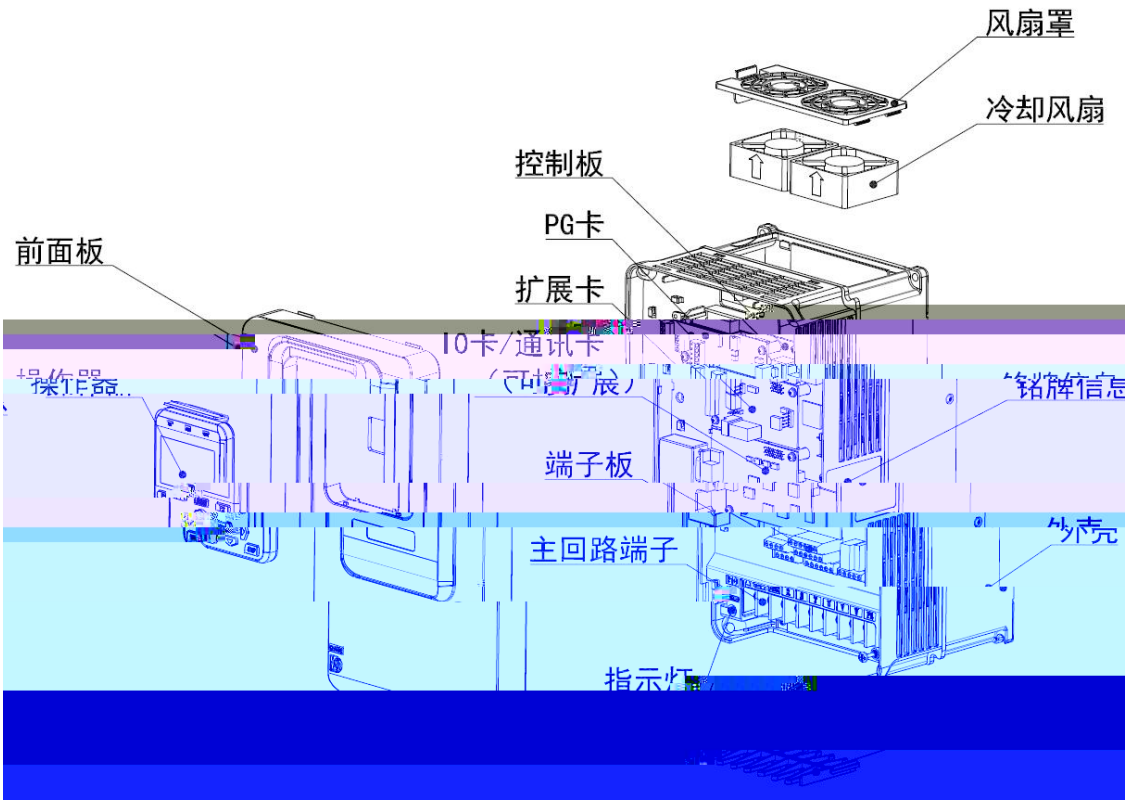
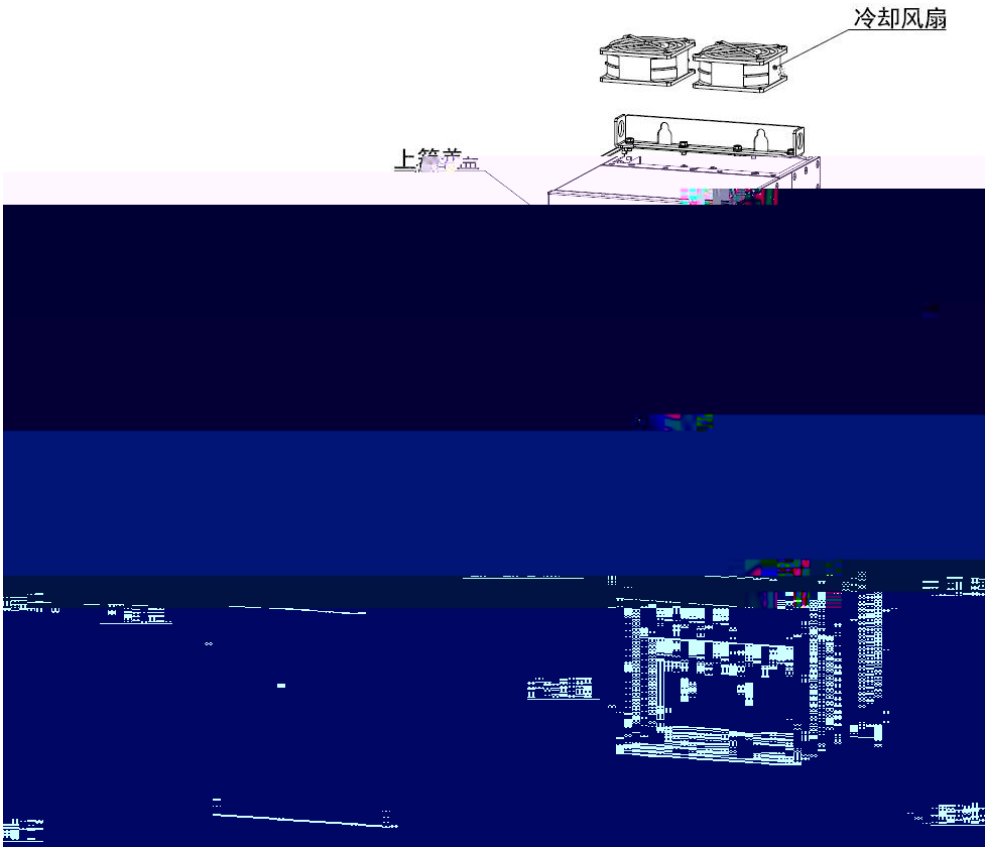
额定功率：250kW 变频器
额定电流：485A
输入：AC3PH 380V-480V 50/60Hz


风扇罩
冷却风扇
控制板
PG卡
扩展卡
前面板
IO卡/通讯卡
（可扩展）


风扇罩
冷却风扇
控制板
PG卡
前面板
扩展卡
IO卡/通讯卡
铭牌信息
端子板
外壳
主回路端子
指示灯

风扇罩
冷却风扇
主回路端子
外壳
指示灯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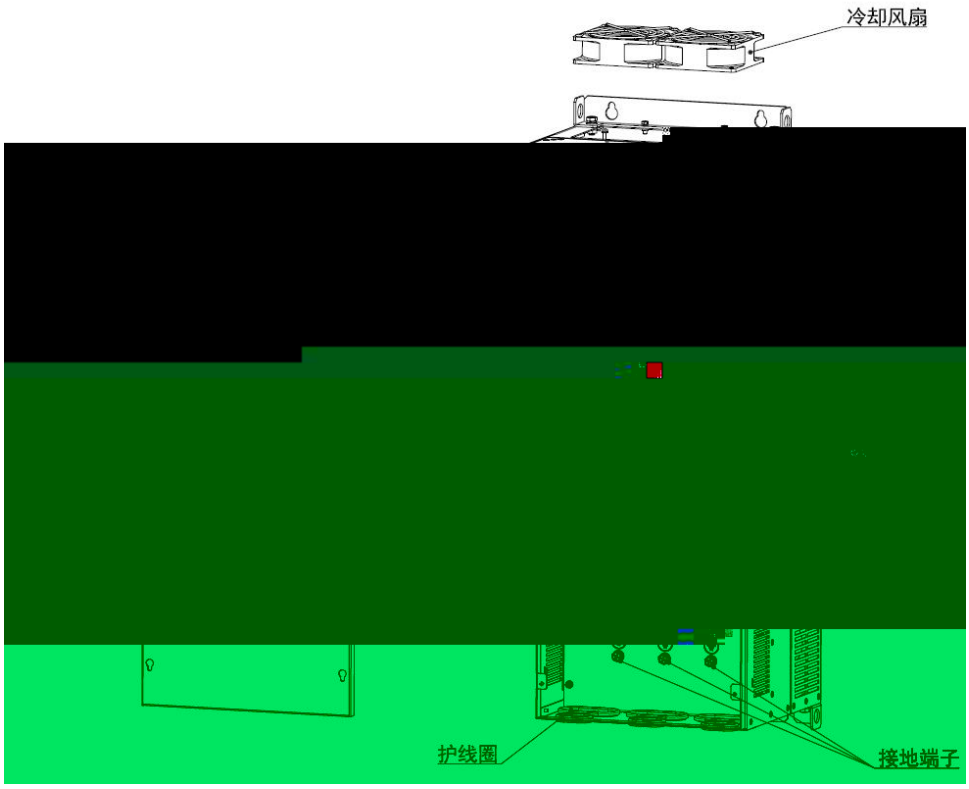
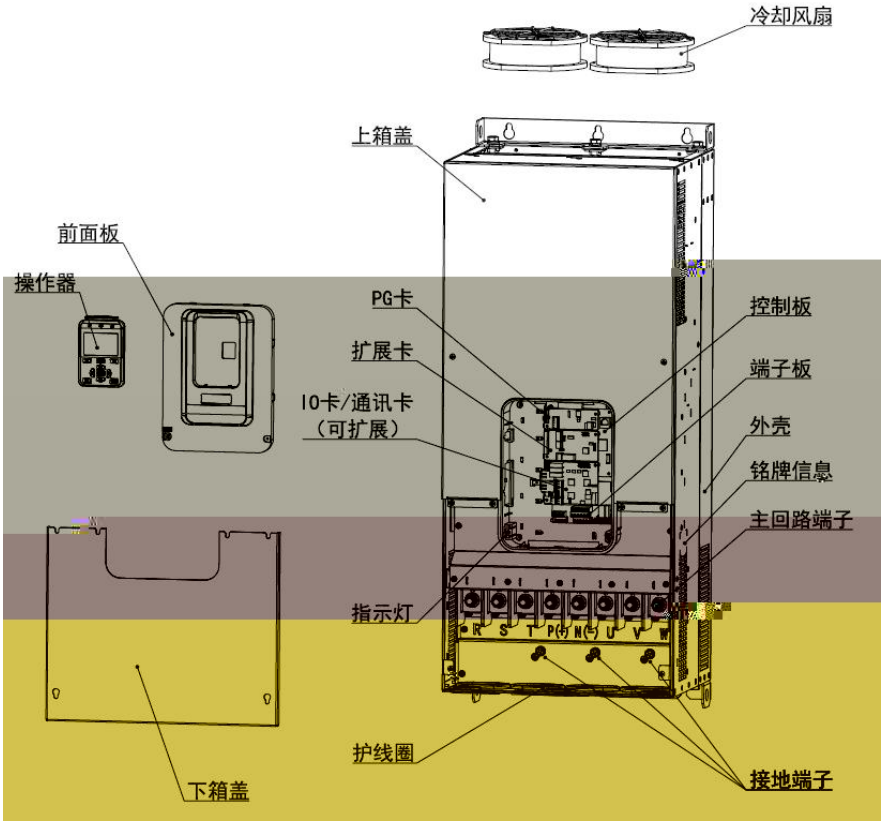
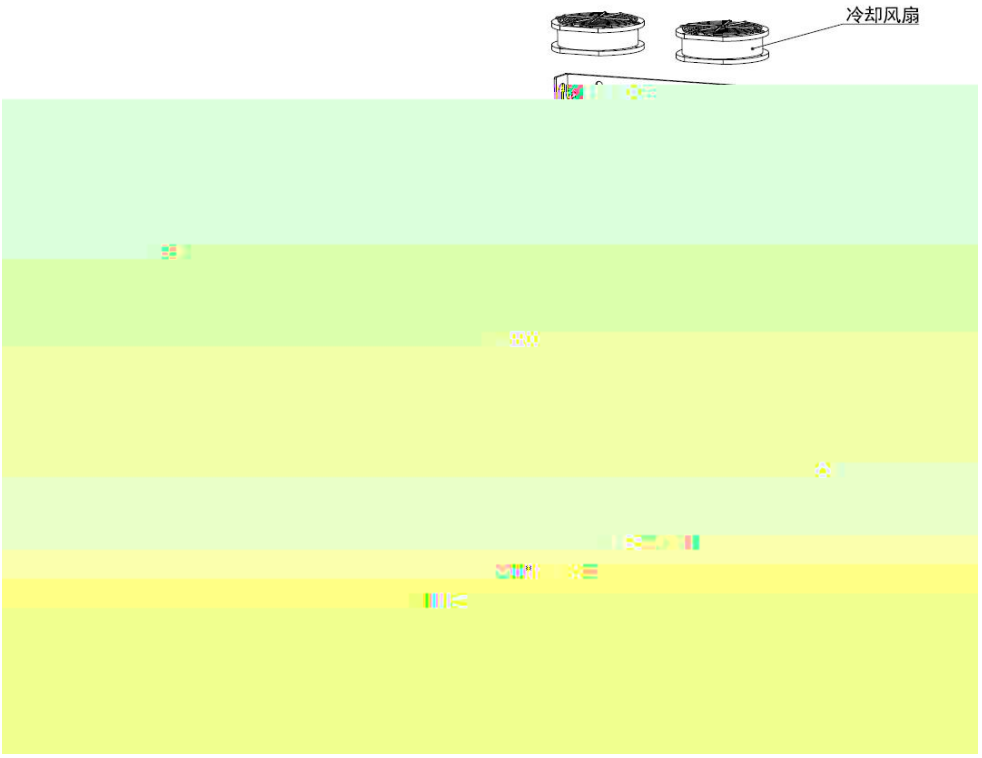
上箱盖


冷却风扇
护线圈
接地端子


冷却风扇
上箱盖
前面板
操作器
PG卡
扩展卡
IO卡/通讯卡
（可扩展）
控制板
端子板
外壳
铭牌信息
主回路端子
指示灯
R S T P(+) N(-) U V W
护线圈
接地端子
下箱盖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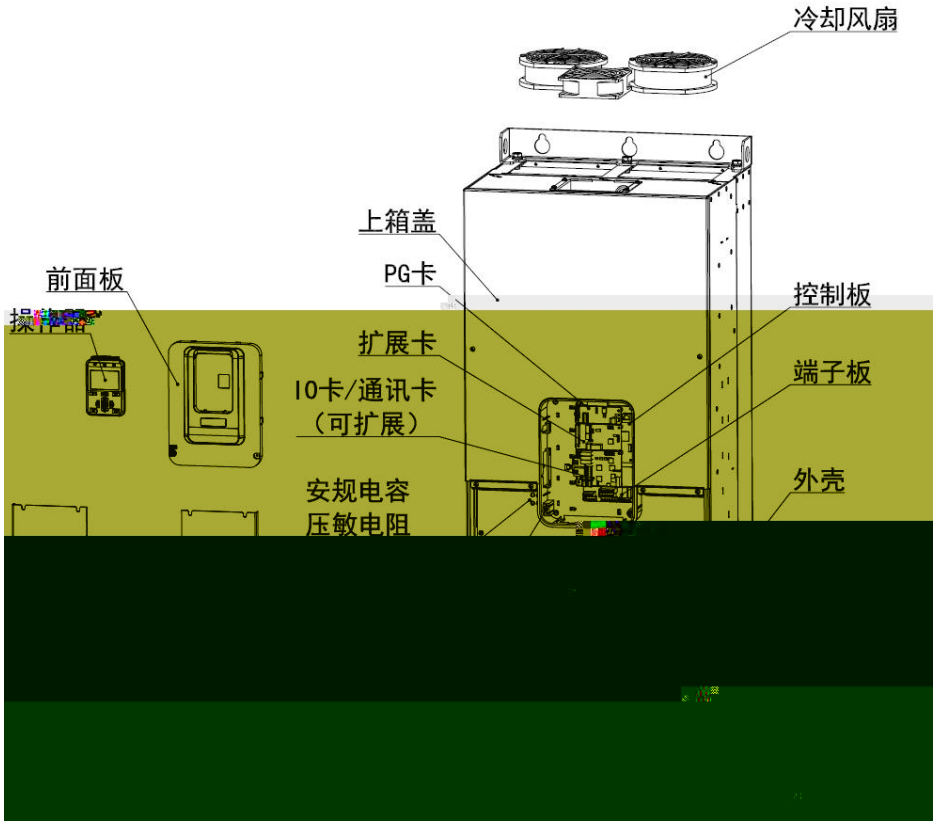
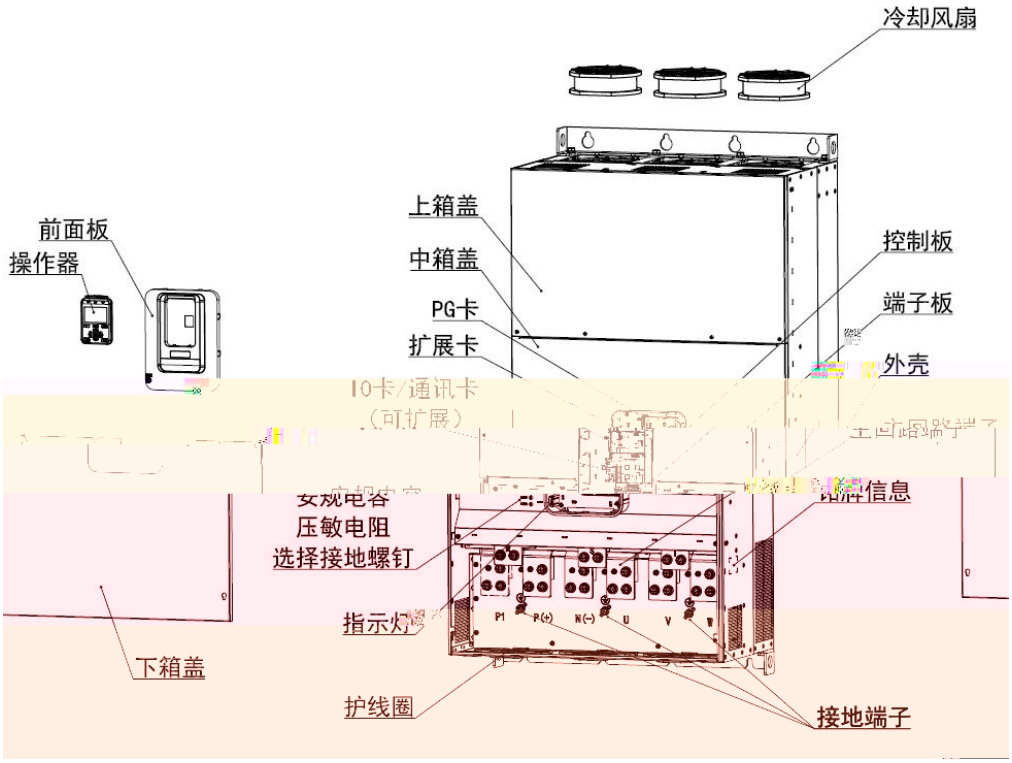
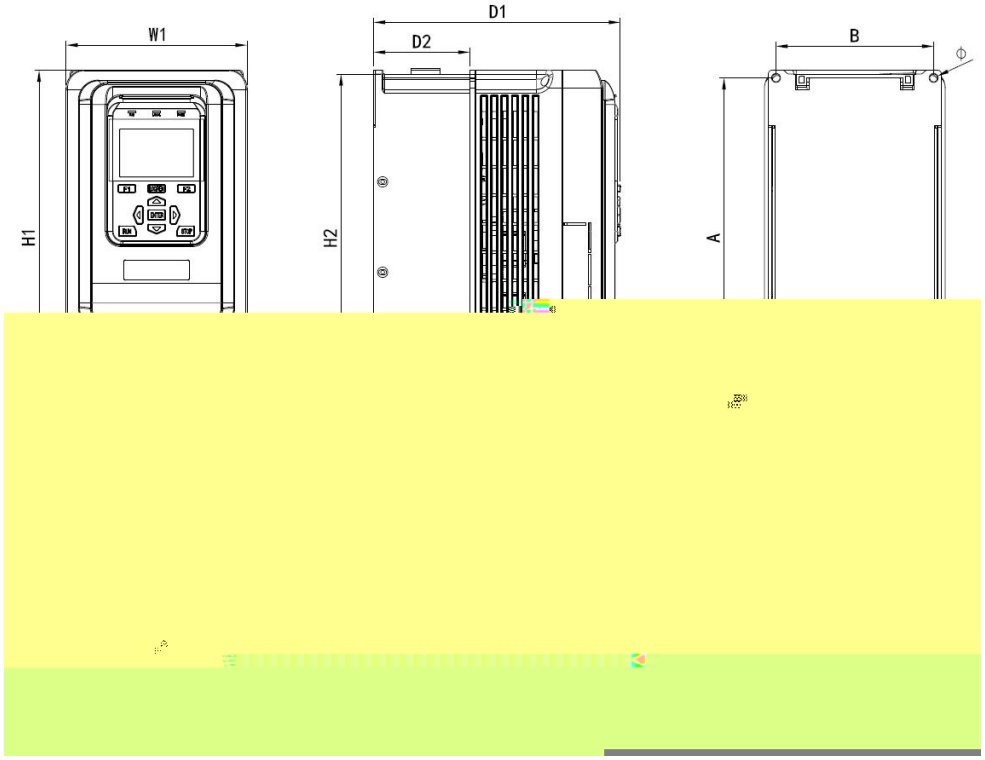
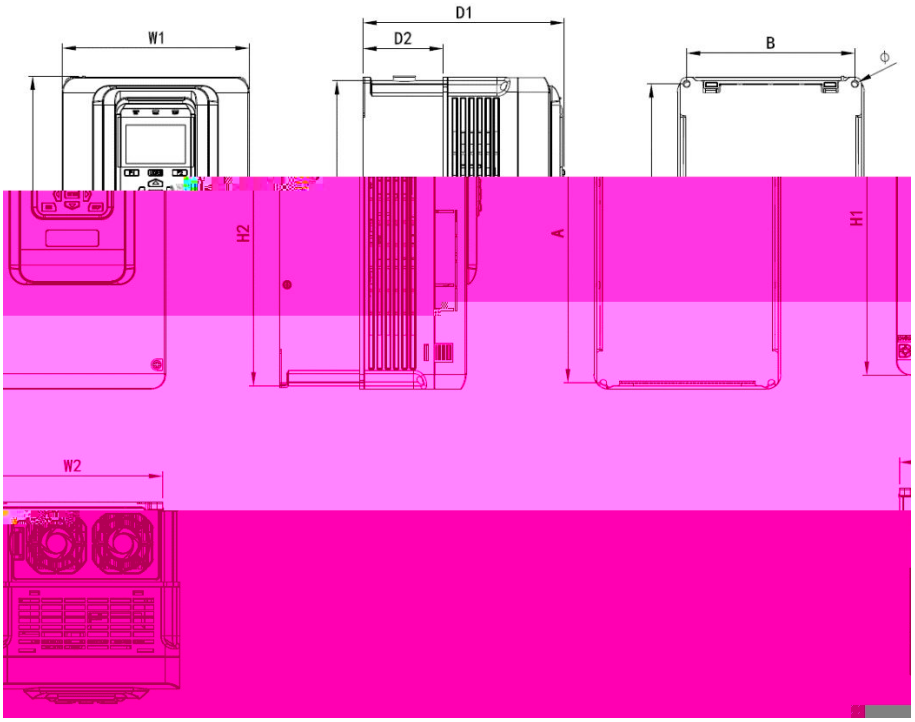
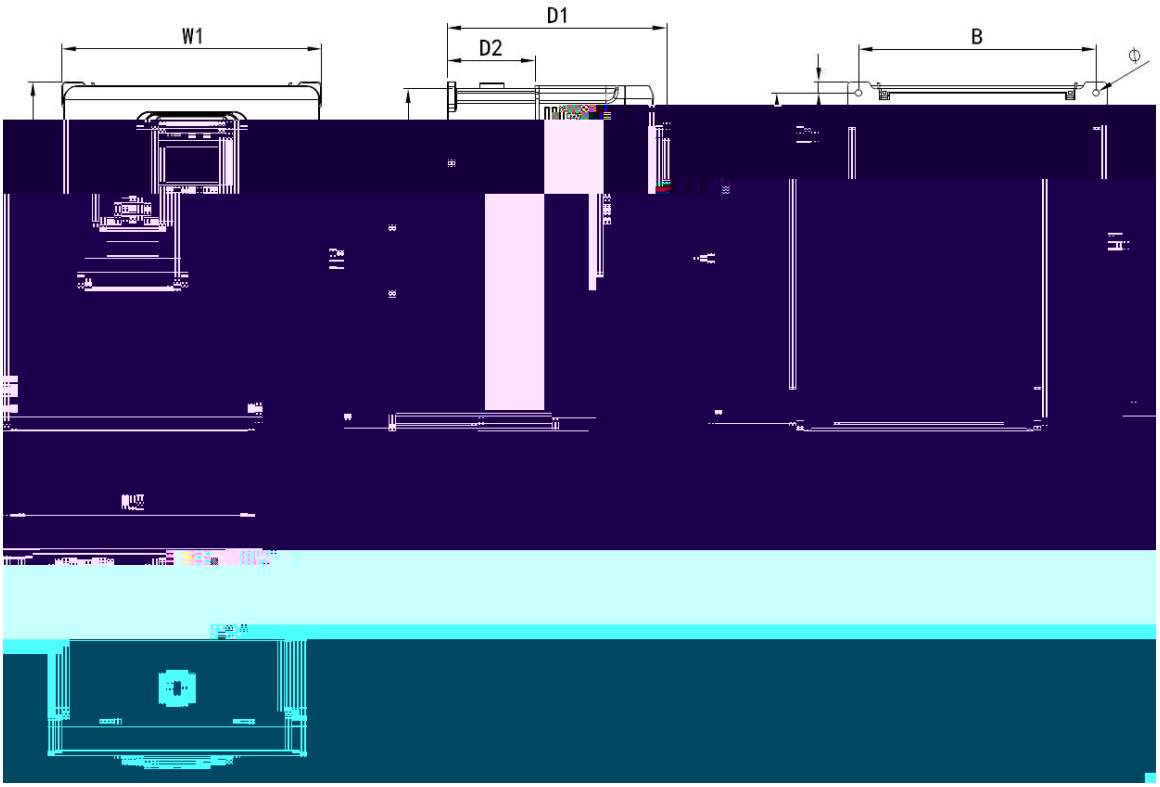
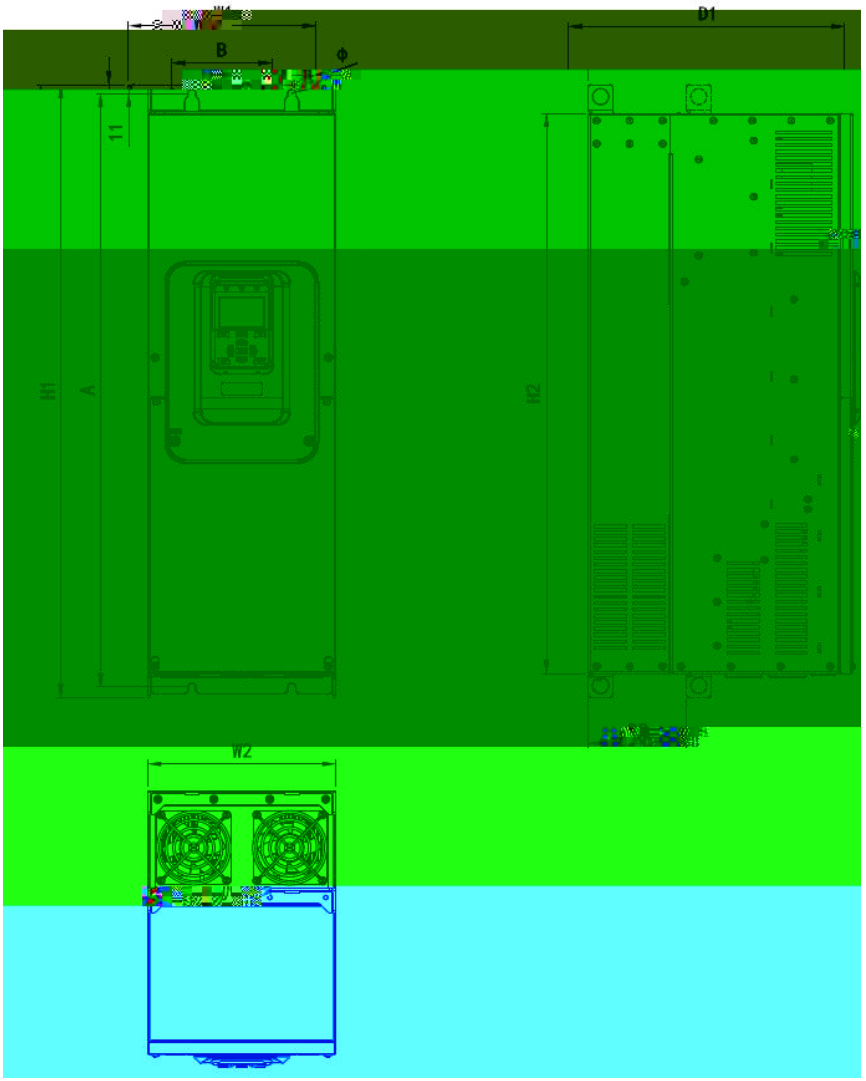

冷却风扇
上箱盖
PG卡
前面板
操作器
控制板
扩展卡
端子板
IO卡/通讯卡
（可扩展）
外壳
安规电容
压敏电阻

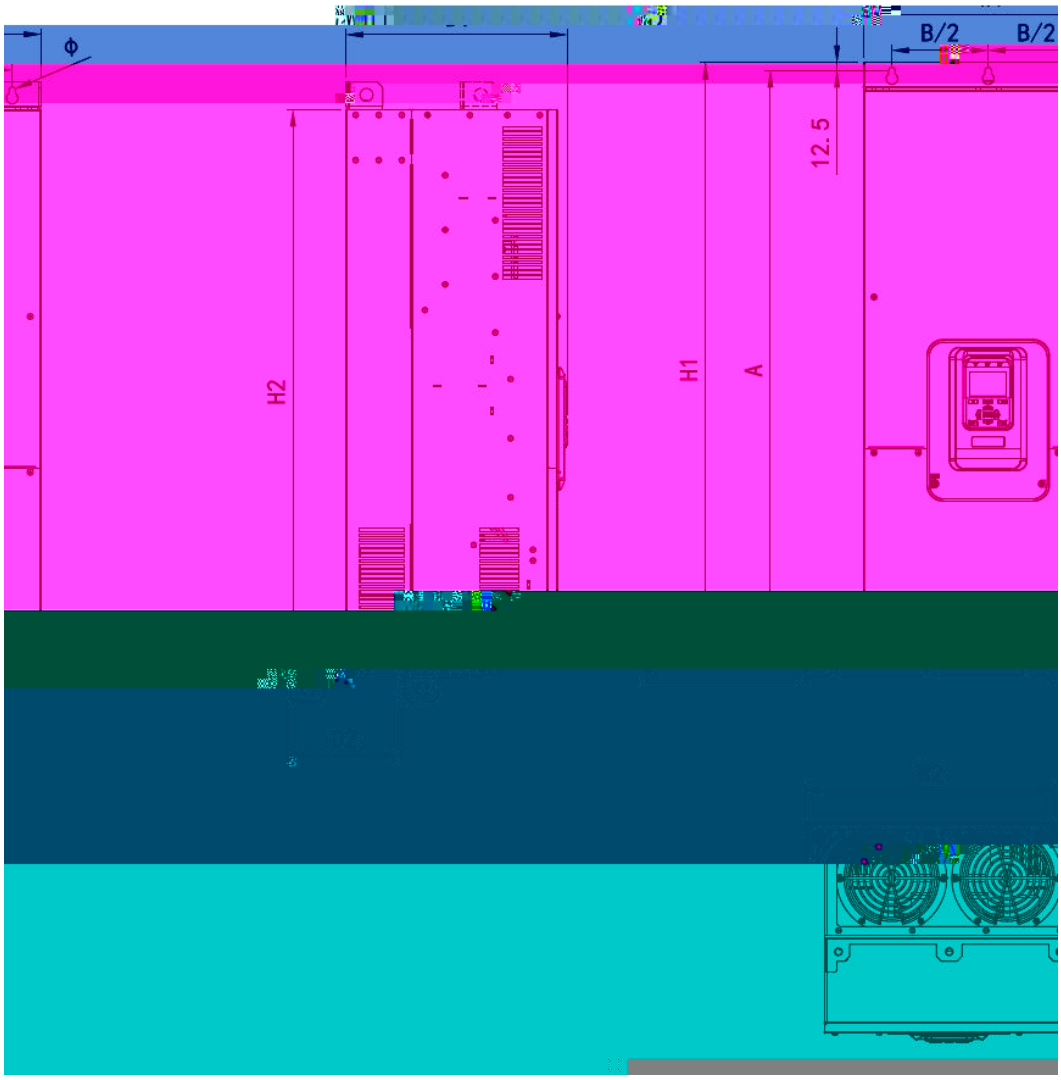

冷却风扇
上箱盖
前面板
操作器
中箱盖
控制板
PG卡
端子板
扩展卡
外壳
IO卡/通讯卡
（可扩展）
安规电容
压敏电阻
选择接地螺钉
指示灯
下箱盖
护线圈
接地端子

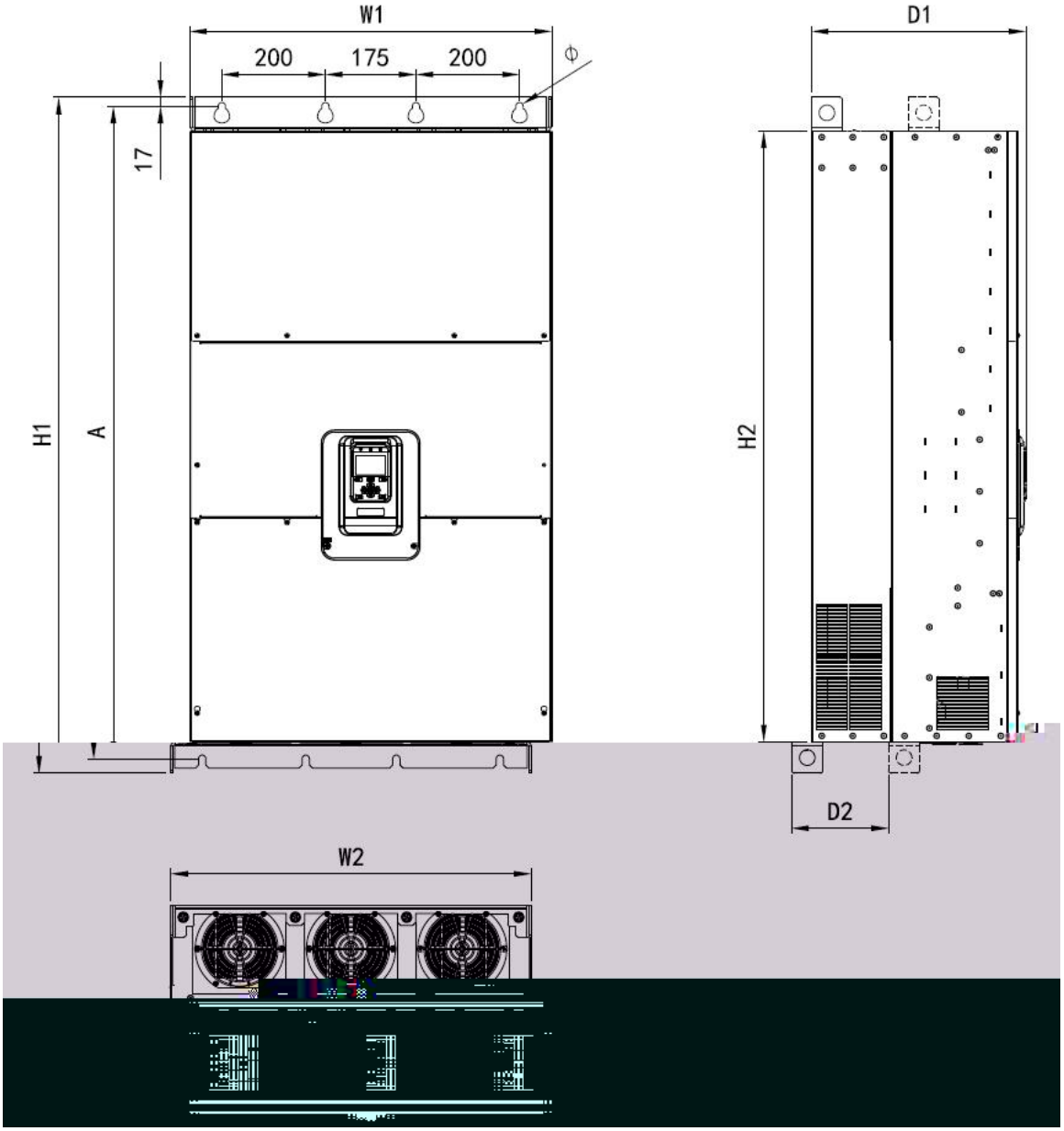

W1
D1
D2
B
Φ
H1
H2
A

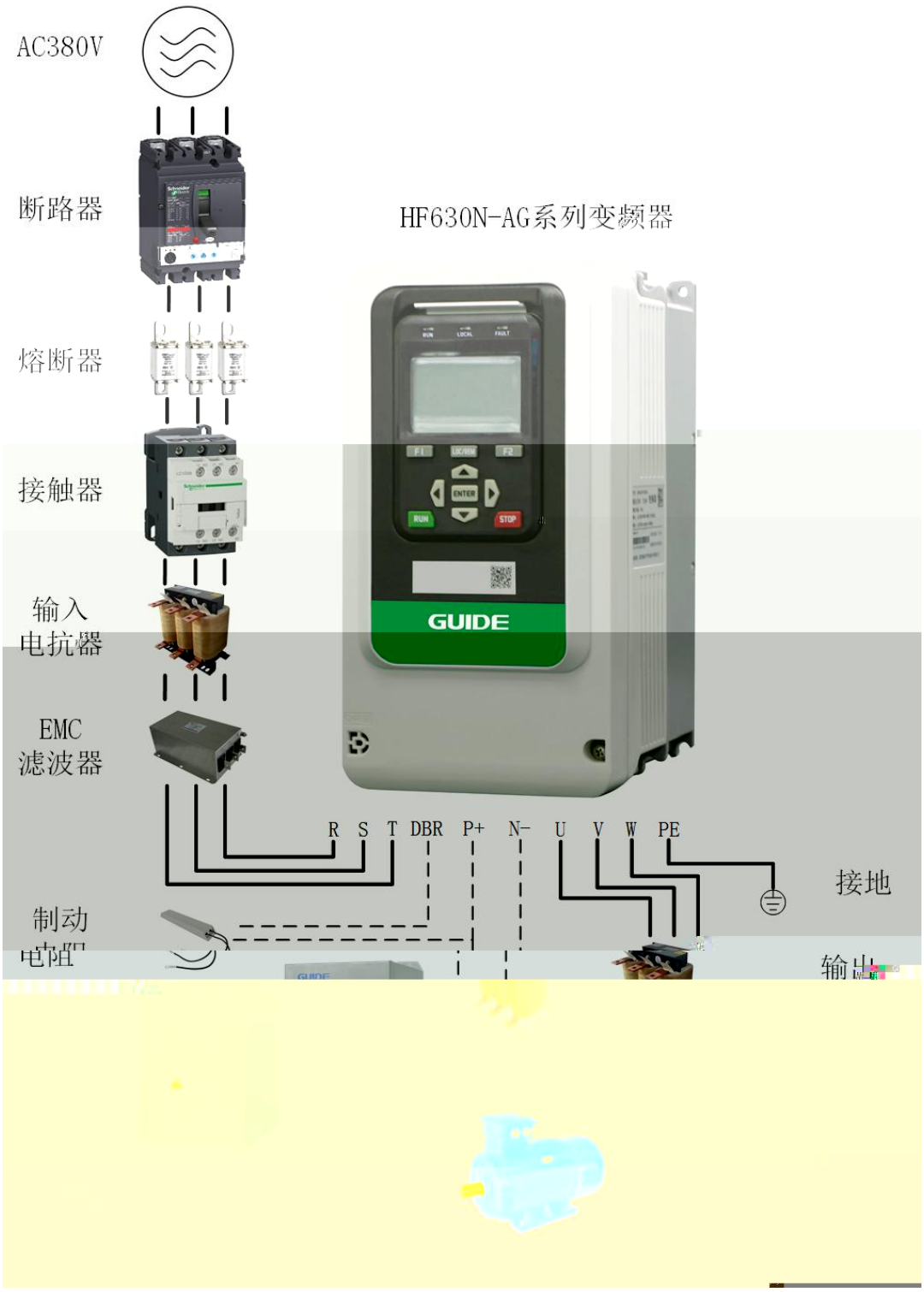

W1
D1
D2
B
Φ
H2
A
H1
W2

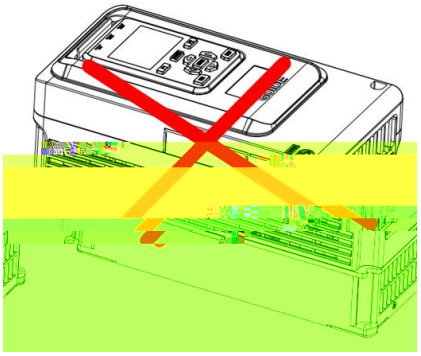
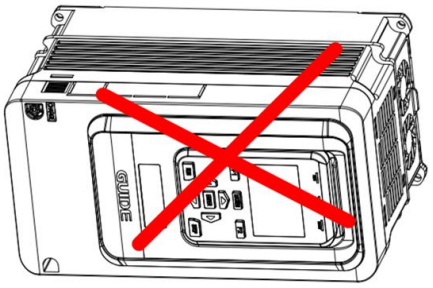

W1
D1
D2
B
Φ

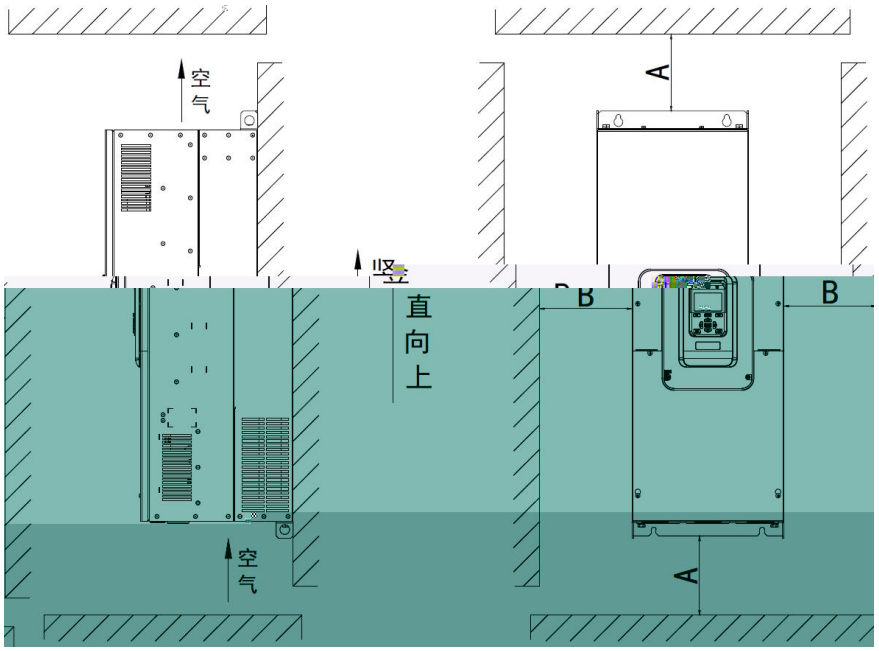

D1
B
Φ
H1
A
H2
W2

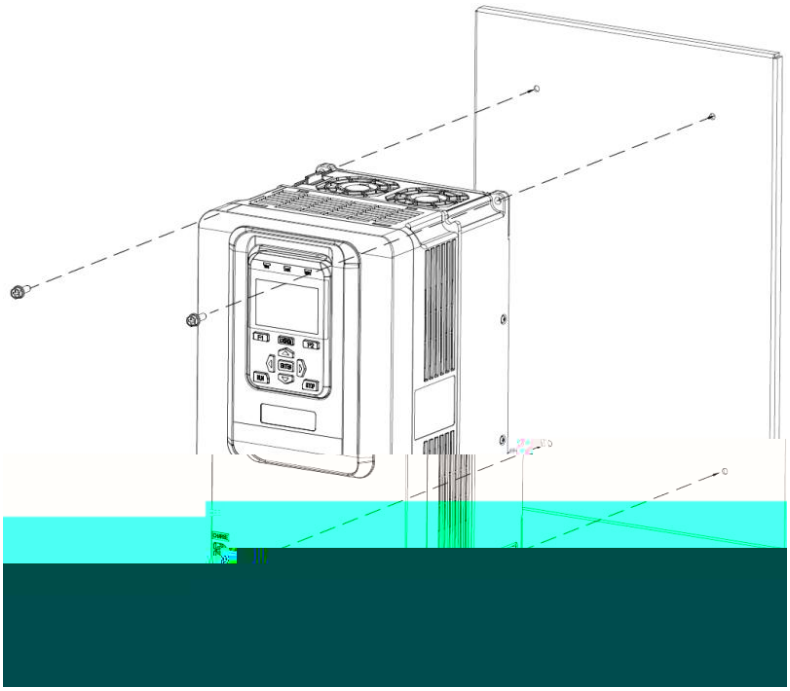

ϕ
B/2
B/2
12.5
H2
H1
A


W1
200
175
200
Φ
17
H1
A
D1
H2
D2
W2


AC380V
断路器
熔断器
接触器
输入
电抗器
EMC
滤波器
制动
电阻
HF630N-AG系列变频器
GUIDE
R S T DBR P+ N- U V W PE
接地
输出


空气
A
竖直向上
B
B
空气
A



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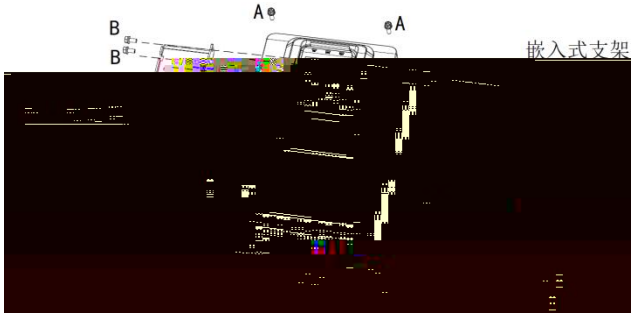
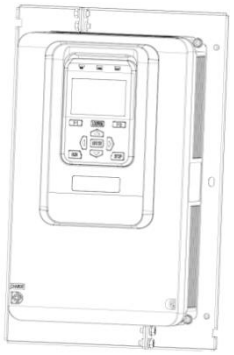

A
A
B
B
嵌入式支架

○



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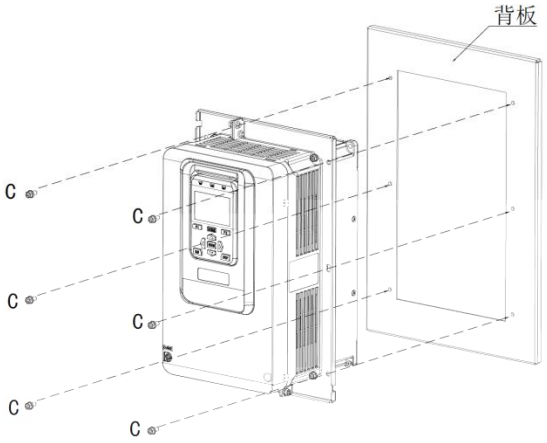
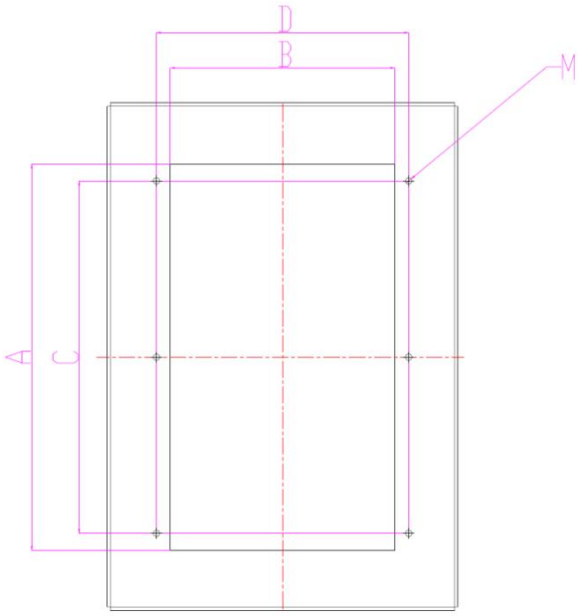

背板
C
C
C
C
C
C


D
B
M
A
C

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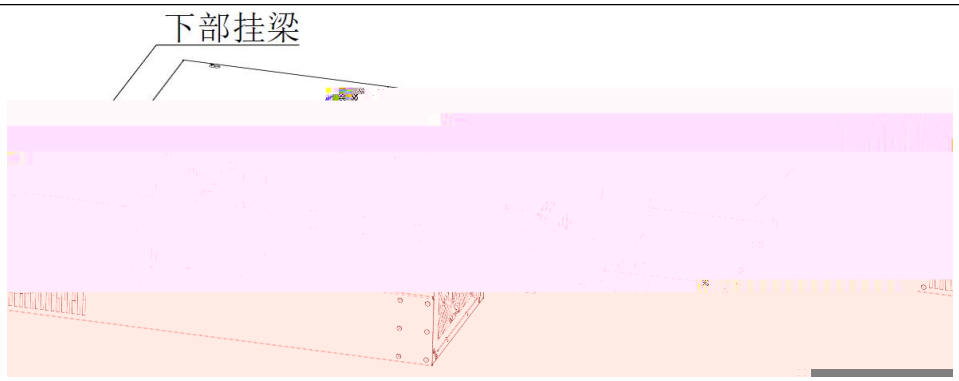
<tr><td colspan="2"> 
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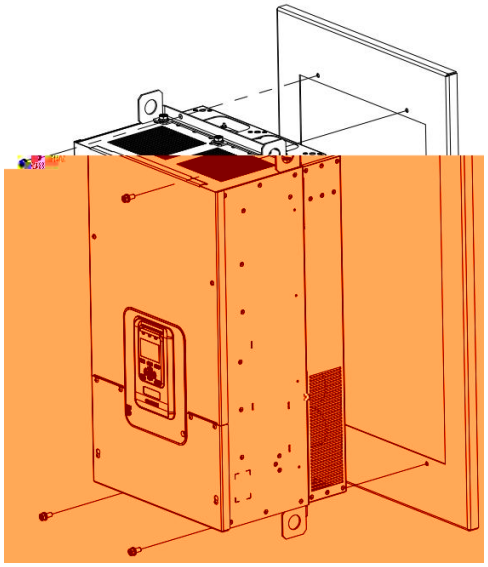
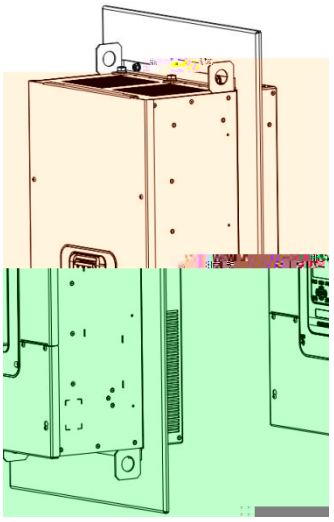
<tr><td>  </td><td>  </td></tr>
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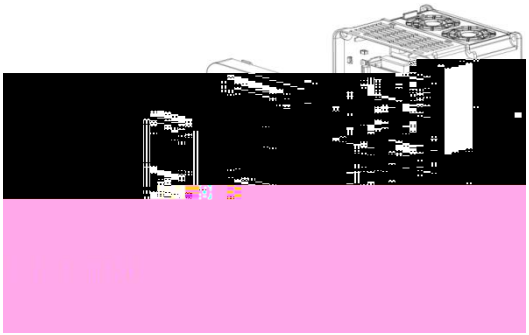
<tr><td></td><td rowspan="2">  </td></tr>
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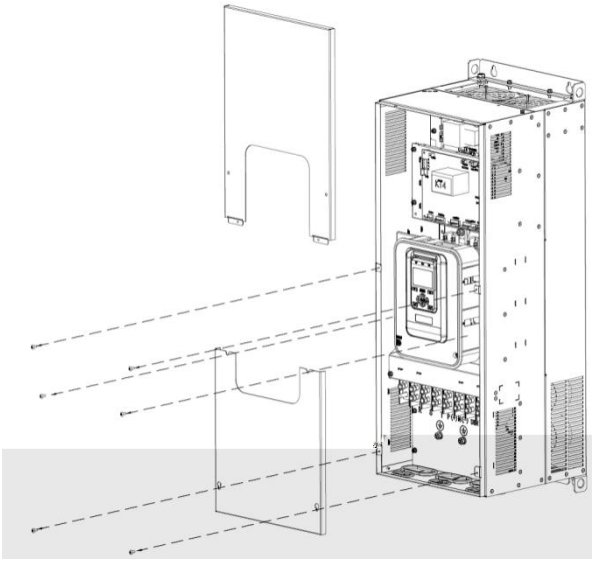
<tr><td></td><td rowspan="3">  </td></tr>
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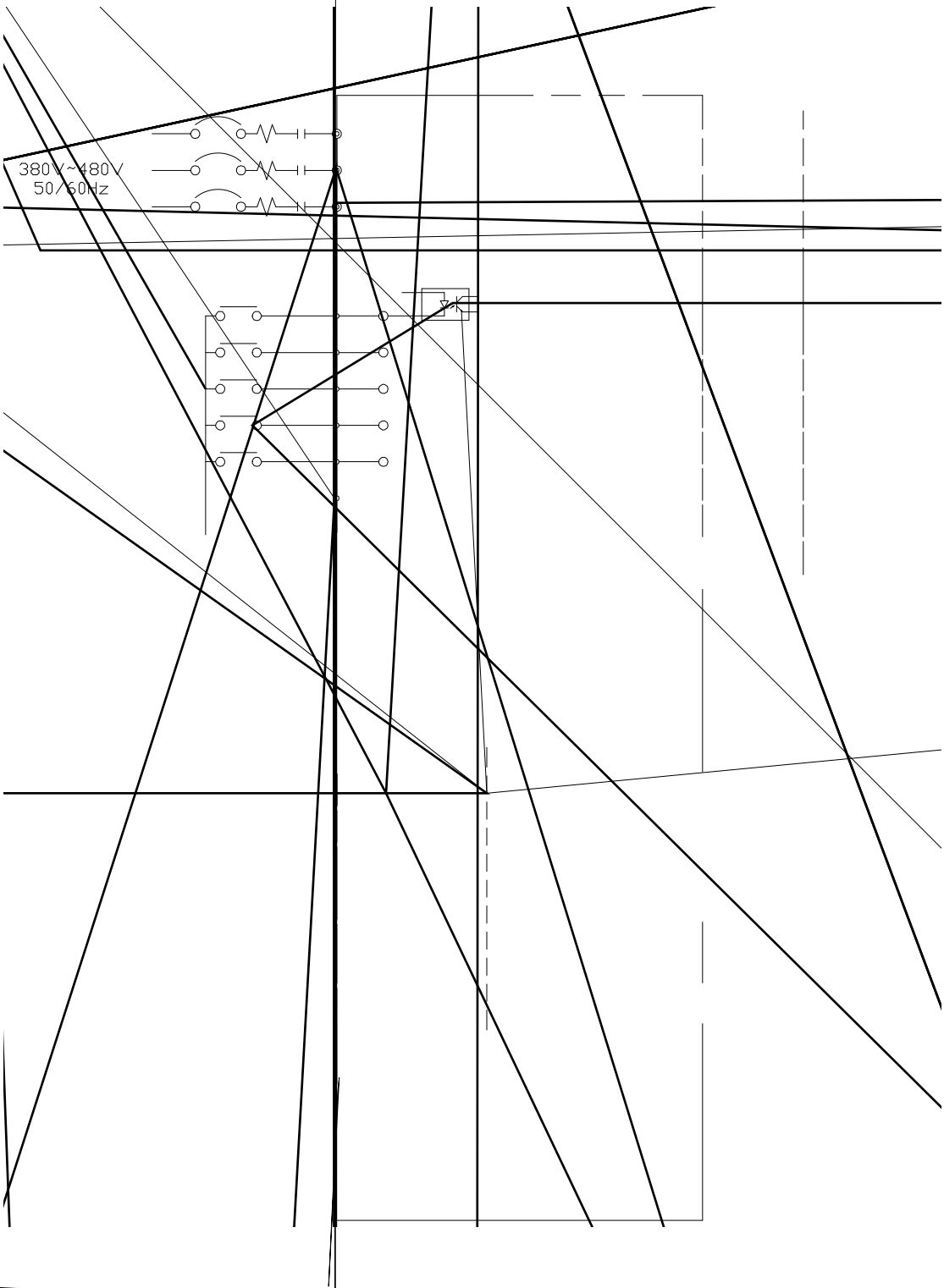
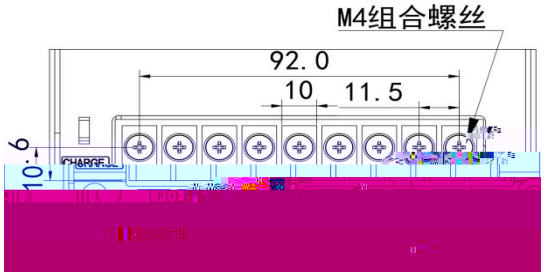
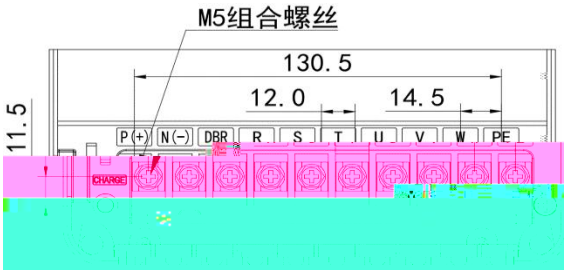
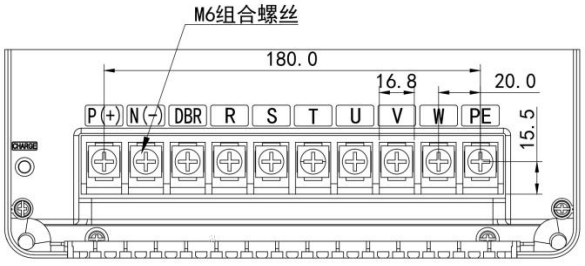
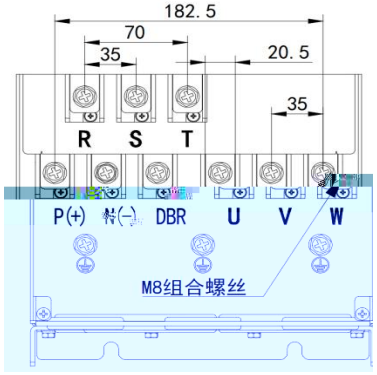


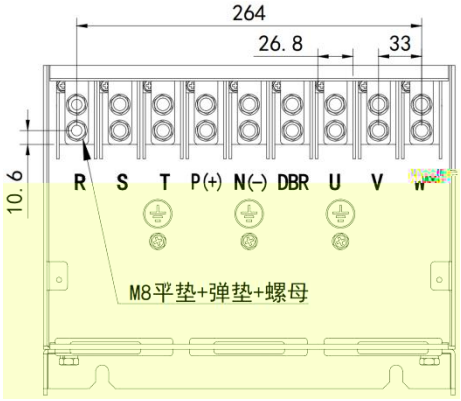
GUIDE

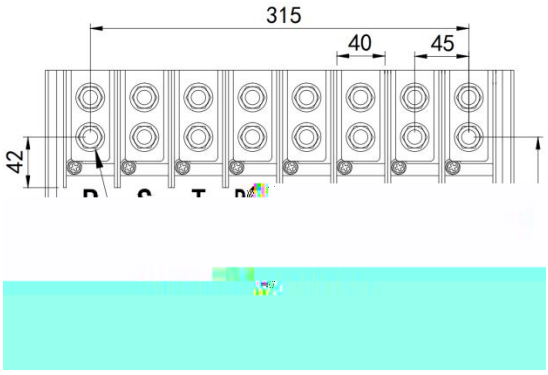

M4组合螺丝
92.0
10
11.5
10.6
CHARGE

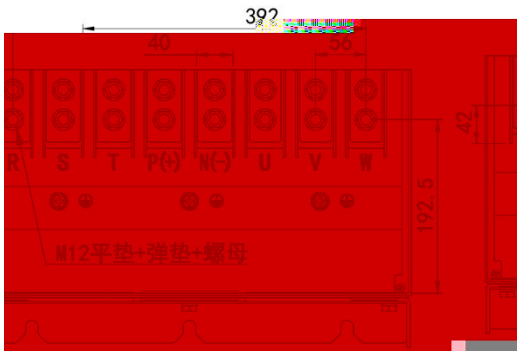

M5组合螺丝
130.5
12.0
14.5
11.5
P(+) N(-) DBR R S T U V W PE
CHARGE

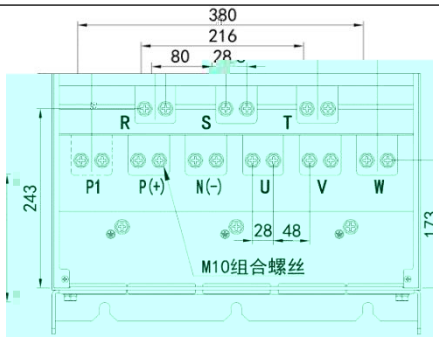

M6组合螺丝
180.0
16.8
20.0
P(+) N(-) DBR R S T U V W PE
15.5
CHARGE

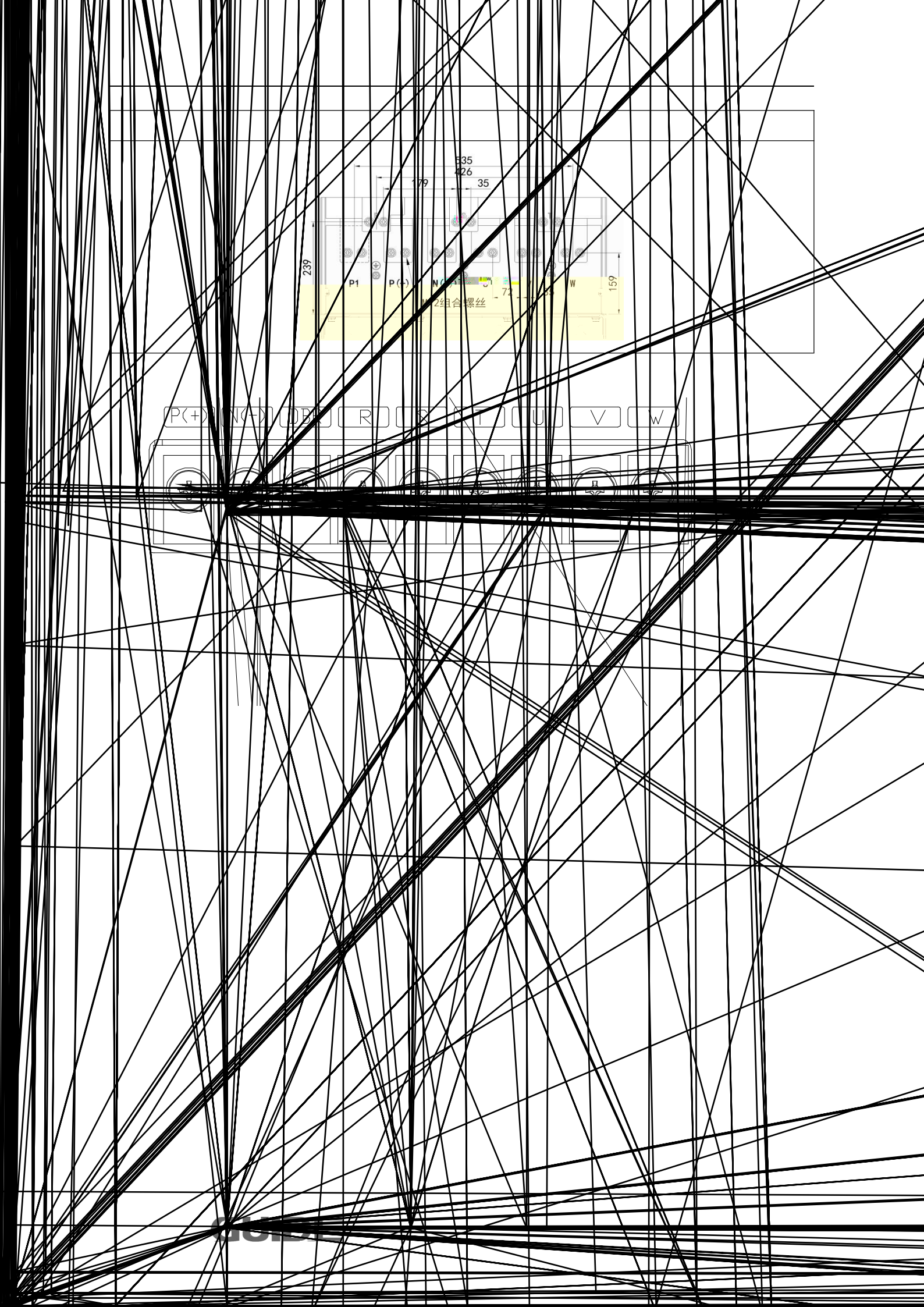

182.5
70
35
20.5
35
R S T
P(+) N(-) DBR U V W
M8组合螺丝

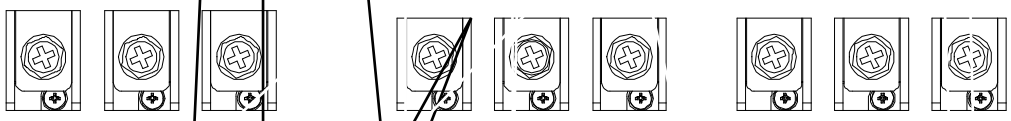

264
26.8
33
10.6
R S T P(+) N(-) DBR U V W
M8平垫+弹垫+螺母

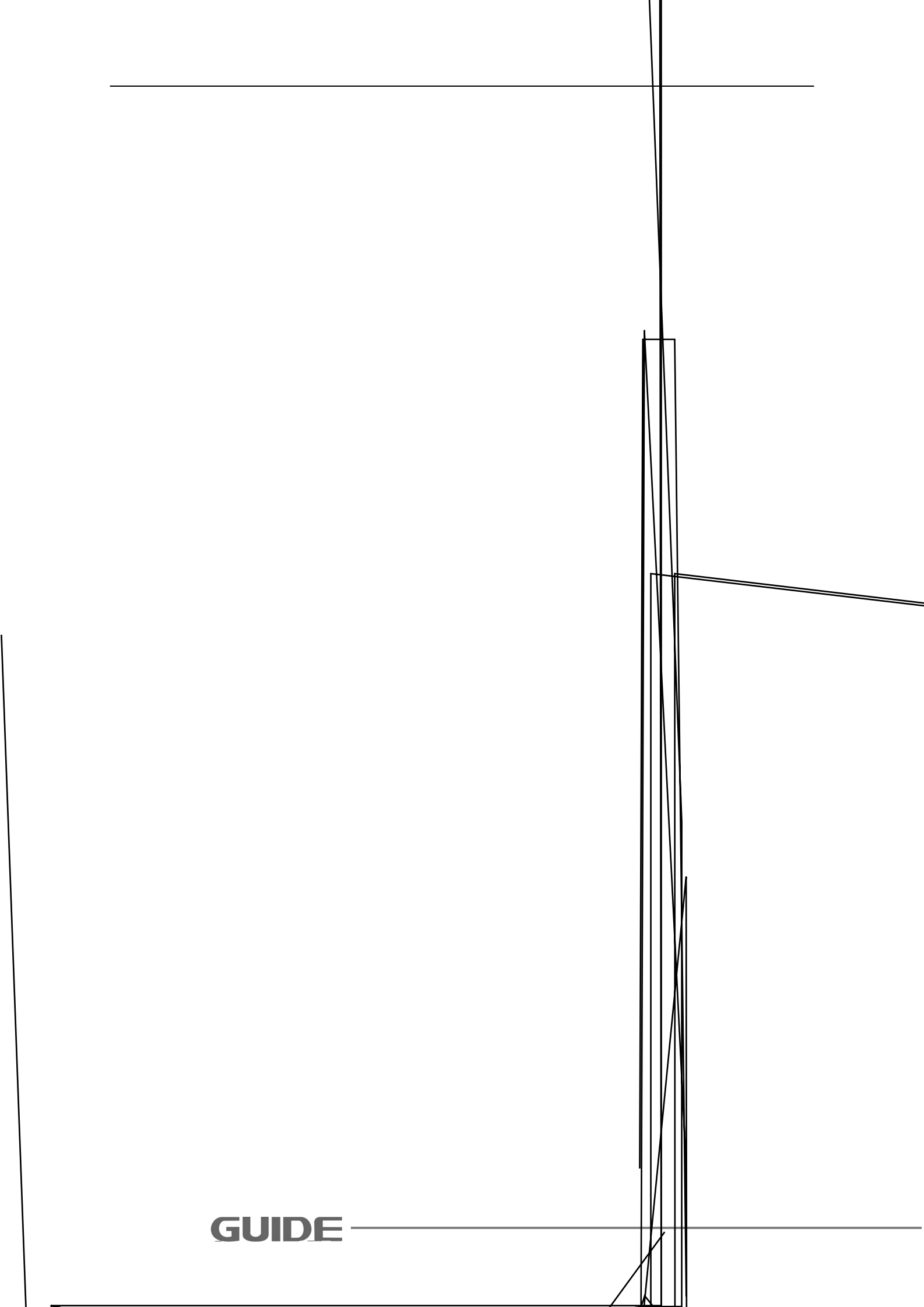

315
40
45
42


392
40
56
42
R S T P(+) N(-) U V W
192.5
M12平垫+弹垫+螺母

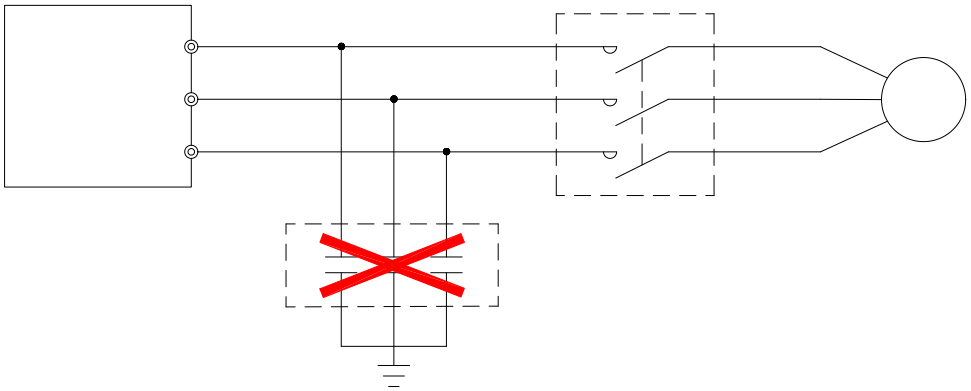

380
216
80
28
R S T
P1 P(+) N(-) U V W
243
28 48
173
M10组合螺丝

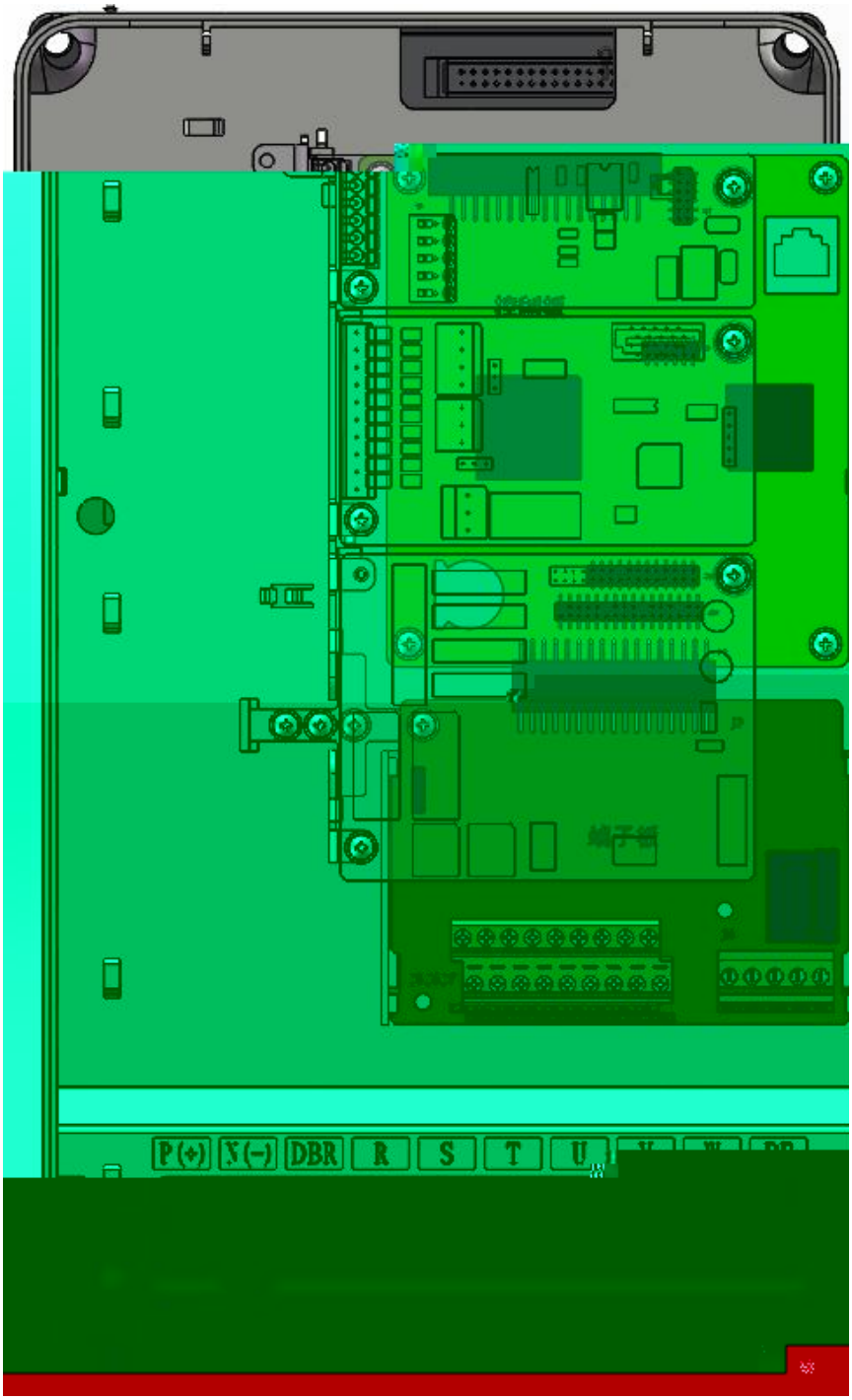

535
426
179
35
239
159
P1
P(+)
72
2组合螺丝
P(+)
N(-)
R
U
V
W


P(+) N(-) DBR



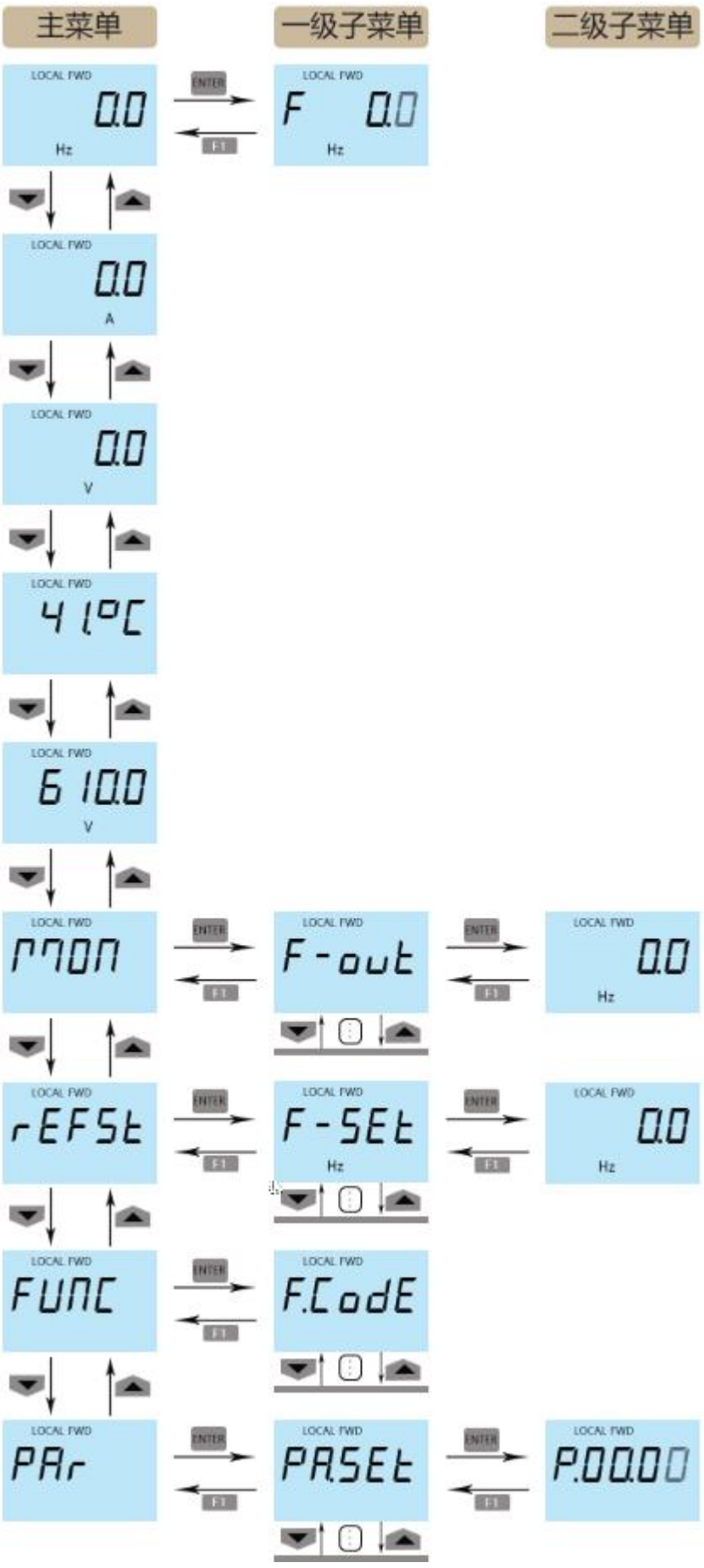
GUIDE

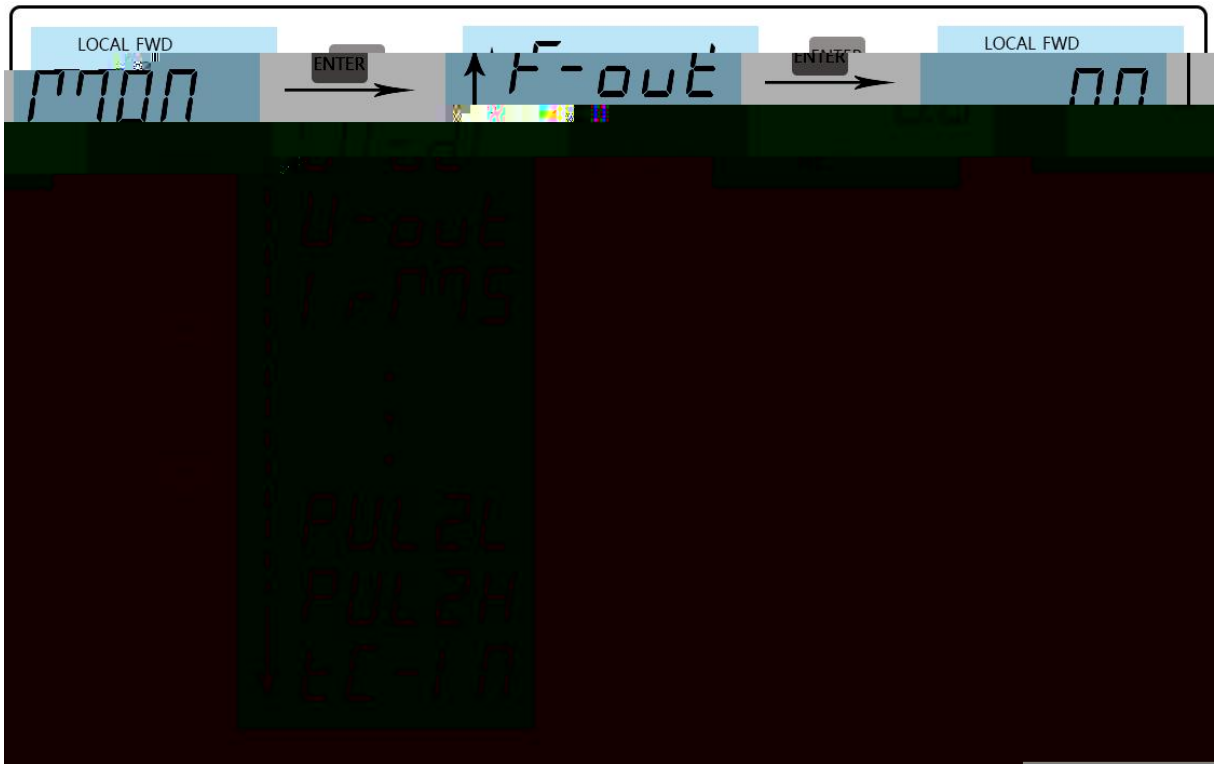


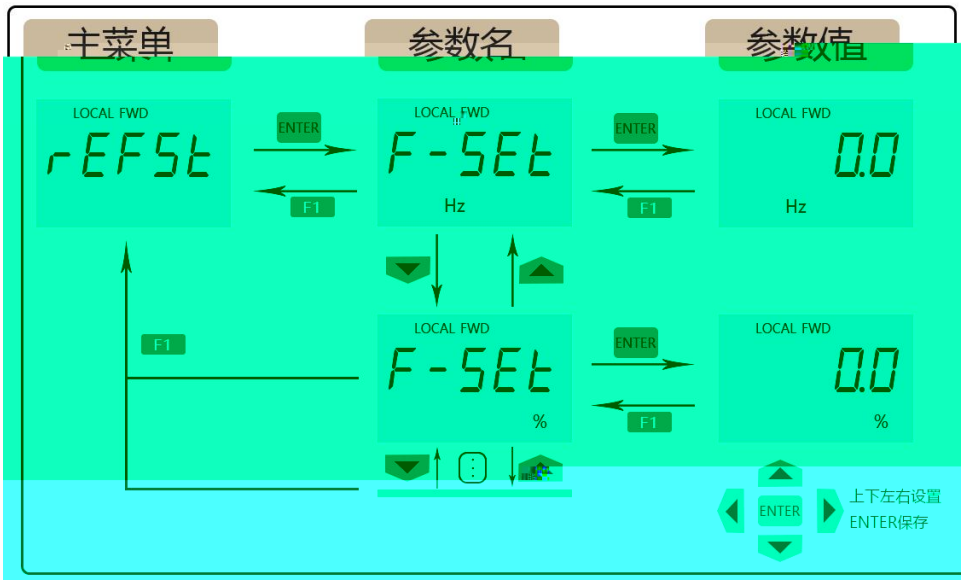

P(+)
N(-)
DBR
R
S
T
U

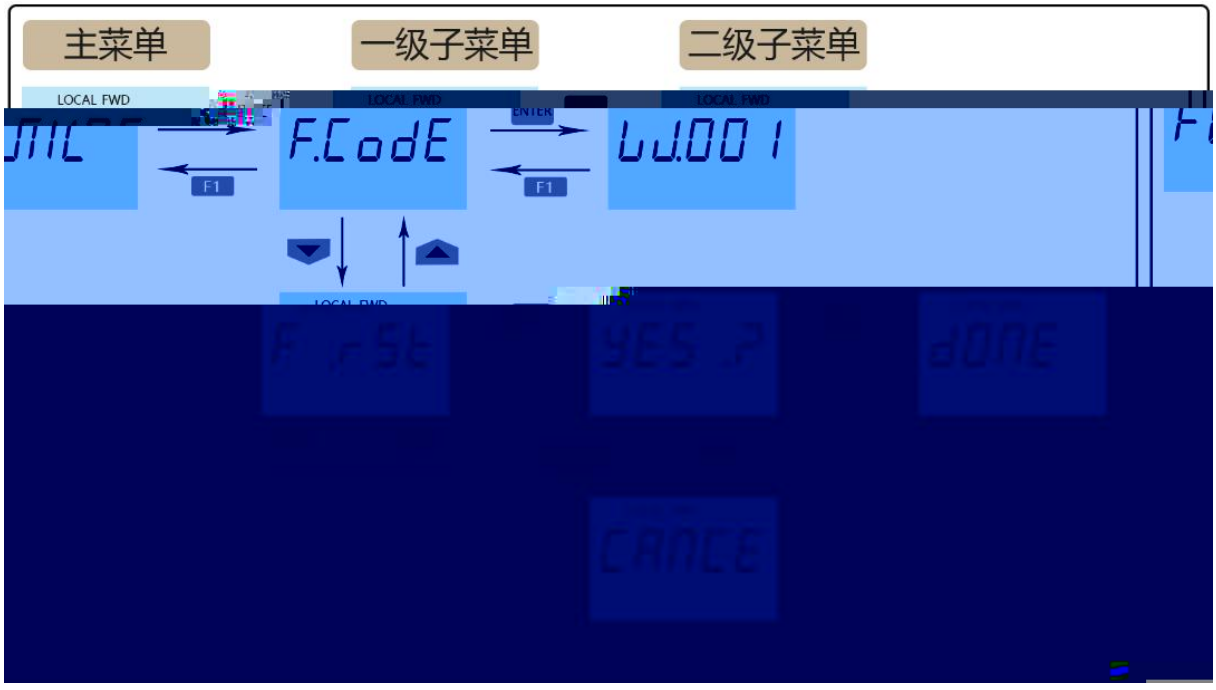
显示文字	LED显示	显示文字	LED显示	显示文字	LED显示	显示文字	LED显示

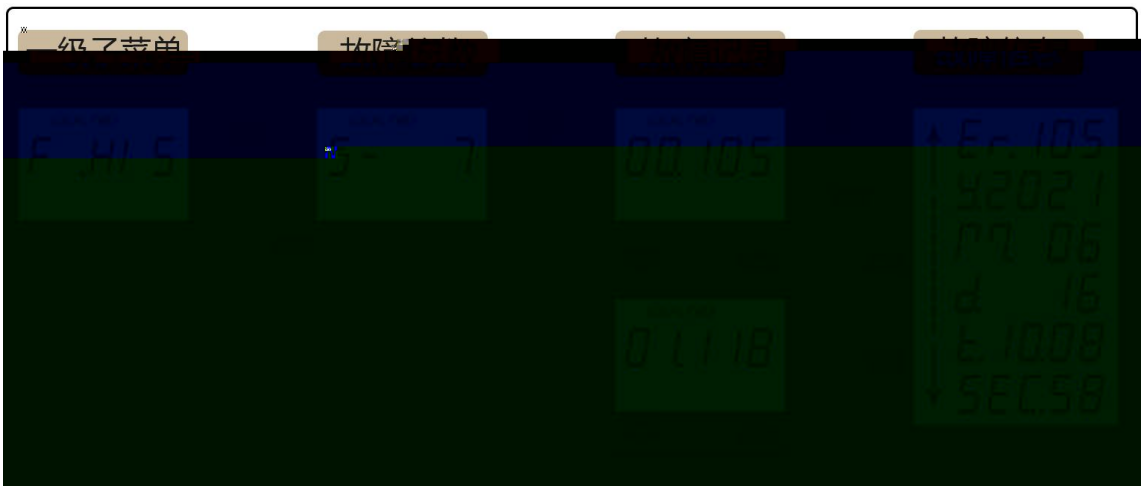
F1		
LOC/REM		
F2		
▲		
▼		
◀		
▶		
ENTER		
RUN		
STOP		

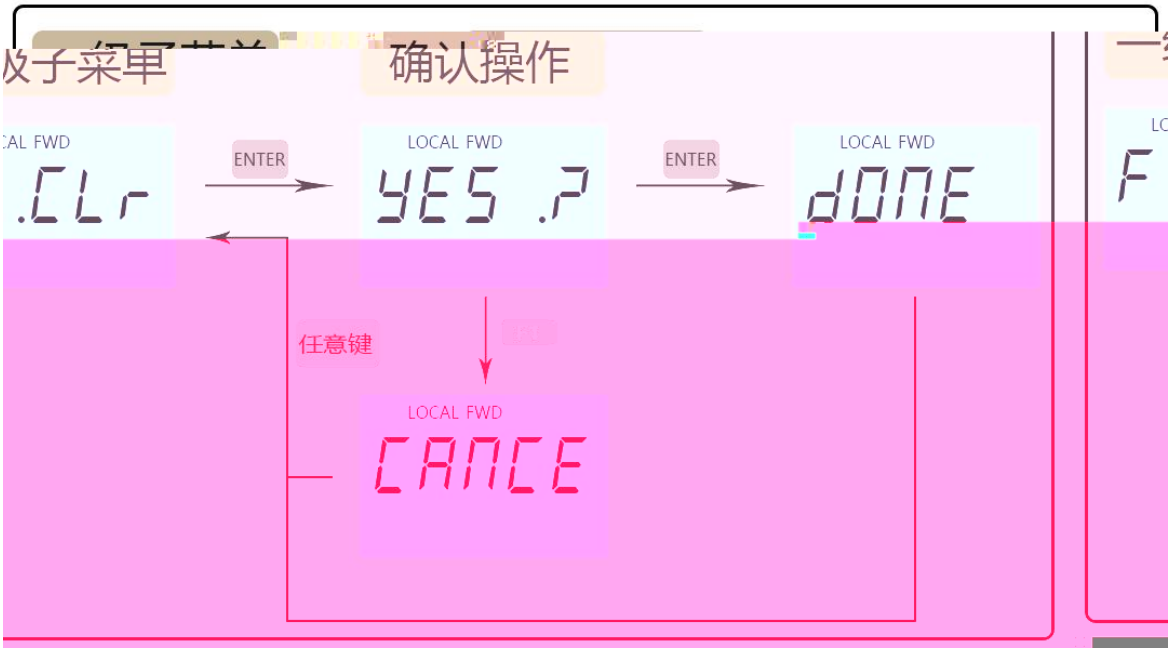

主菜单
一级子菜单
二级子菜单
LOCAL FWD
0.0
Hz
ENTER
F1
F 0.0
A
V
41°C
610.0
rMON
F-out
rEFSt
F-SEt
FUNC
F.CodE
PAr
PASEt
P.0000

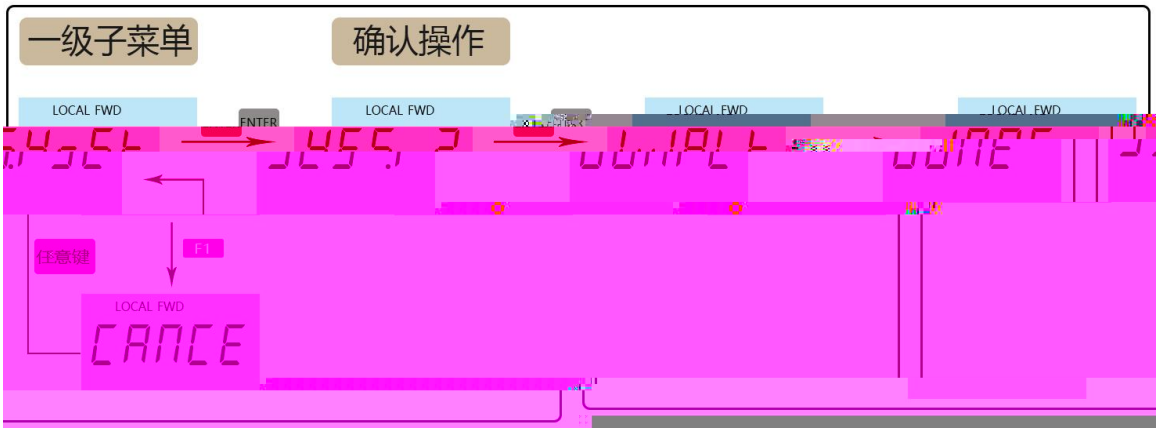

LOCAL FWD
ENTER
F-out
LOCAL FWD
U-out
I-ms
PUL2L
PUL2H
EC-IN

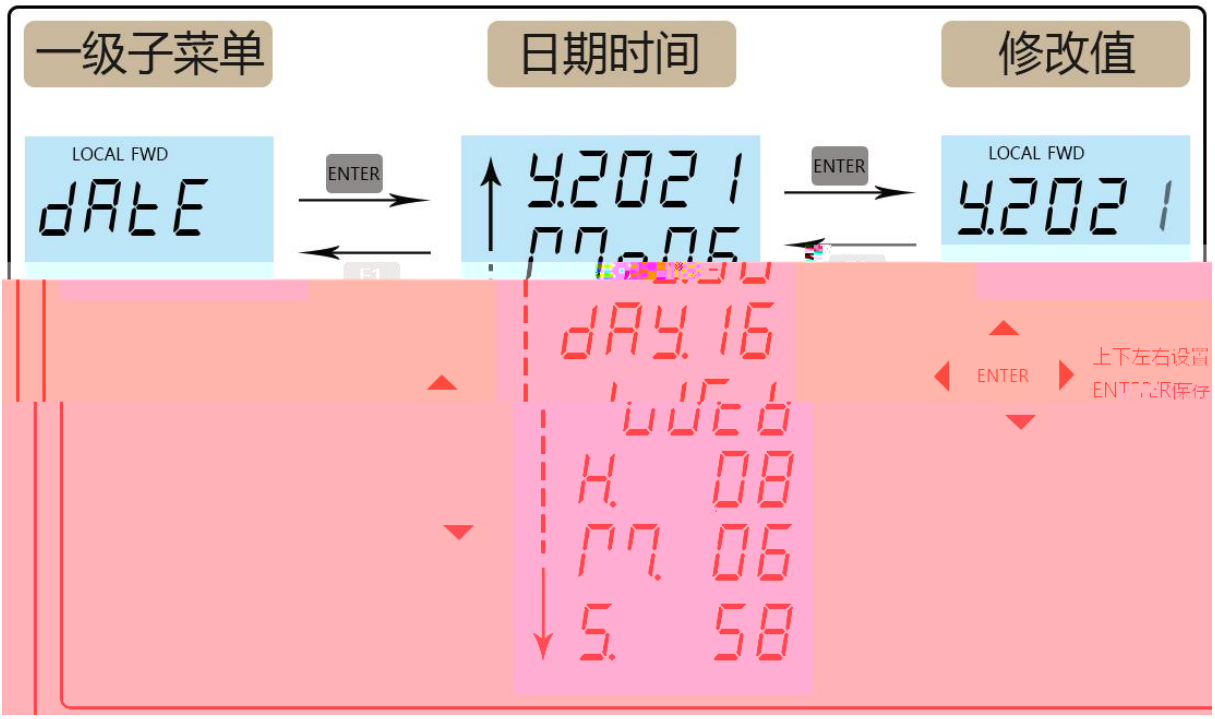

主菜单
参数名
参数值
LOCAL FWD
rEFSt
ENTER
F1
LOCAL FWD
F-SEt
Hz
ENTER
F1
LOCAL FWD
0.0
Hz
F1
LOCAL FWD
F-SEt
%
ENTER
F1
LOCAL FWD
0.0
%
ENTER
上下左右设置
ENTER保存

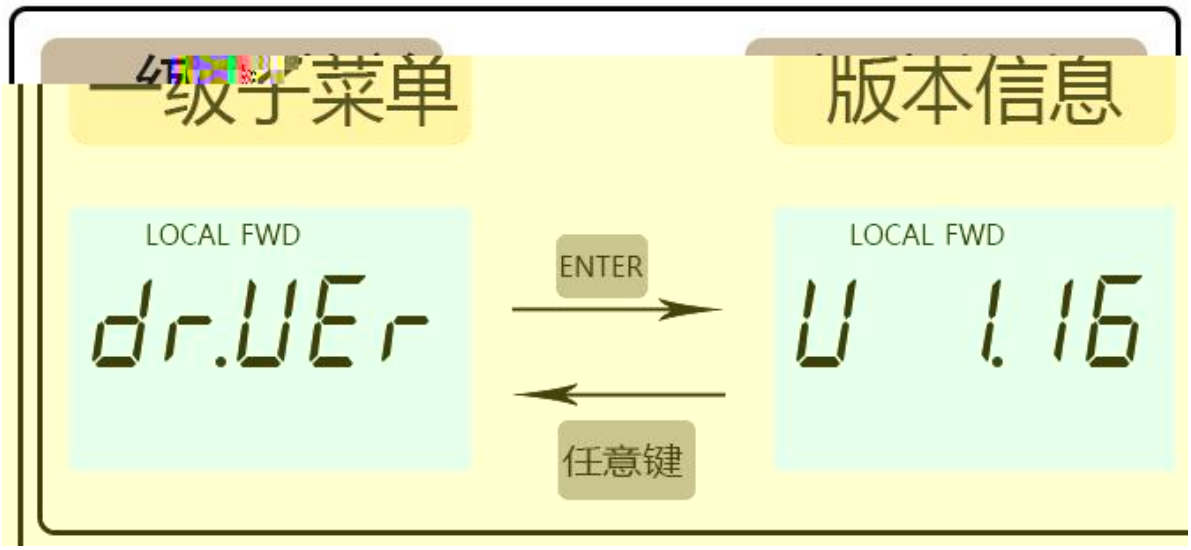

主菜单
一级子菜单
二级子菜单
LOCAL FWD
F.CodE
F1
ENTER
bJ.001
YES
done
CANCE

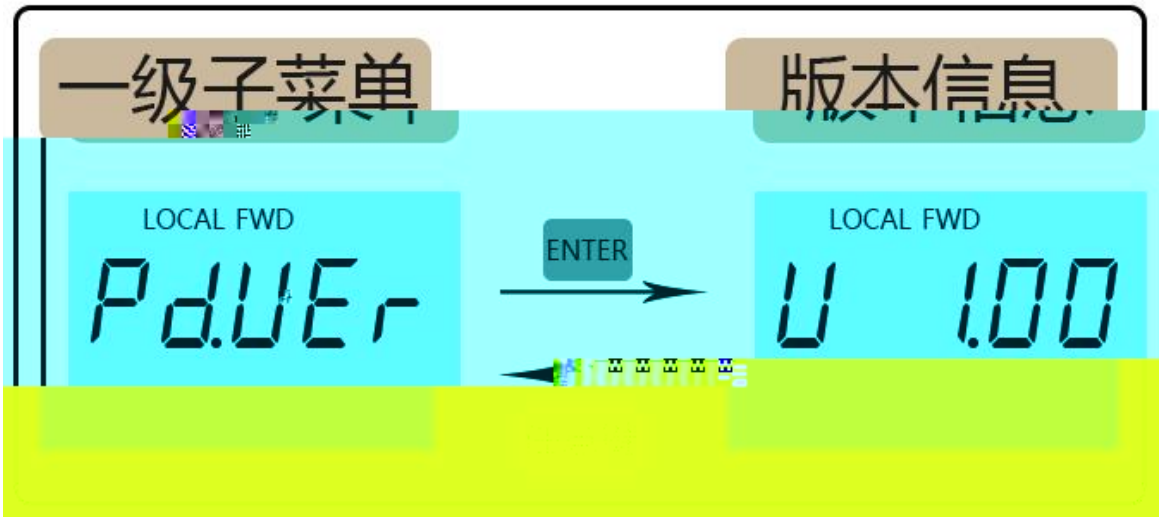


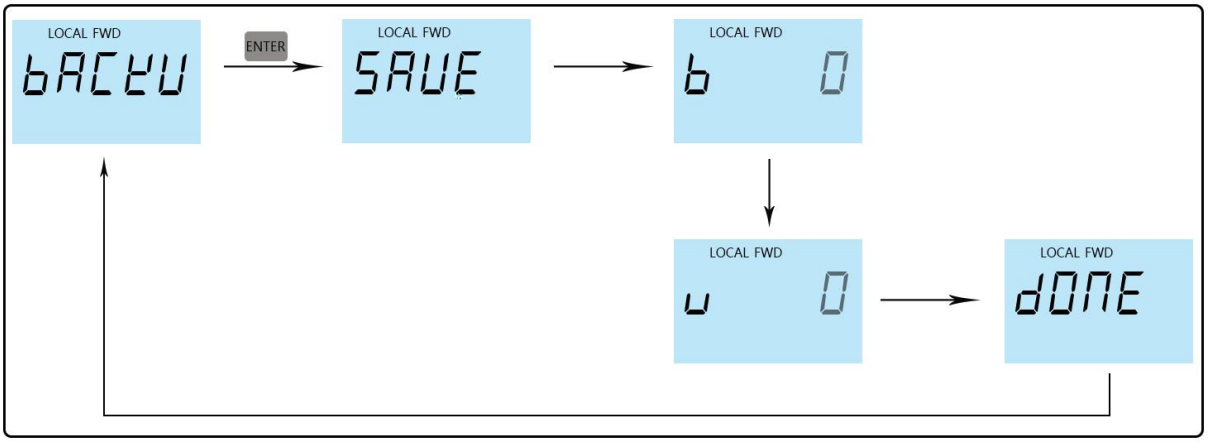

确认操作
LOCAL FWD
.CLr
ENTER
LOCAL FWD
YES .?
ENTER
LOCAL FWD
dONE
任意键
LOCAL FWD
CANCE

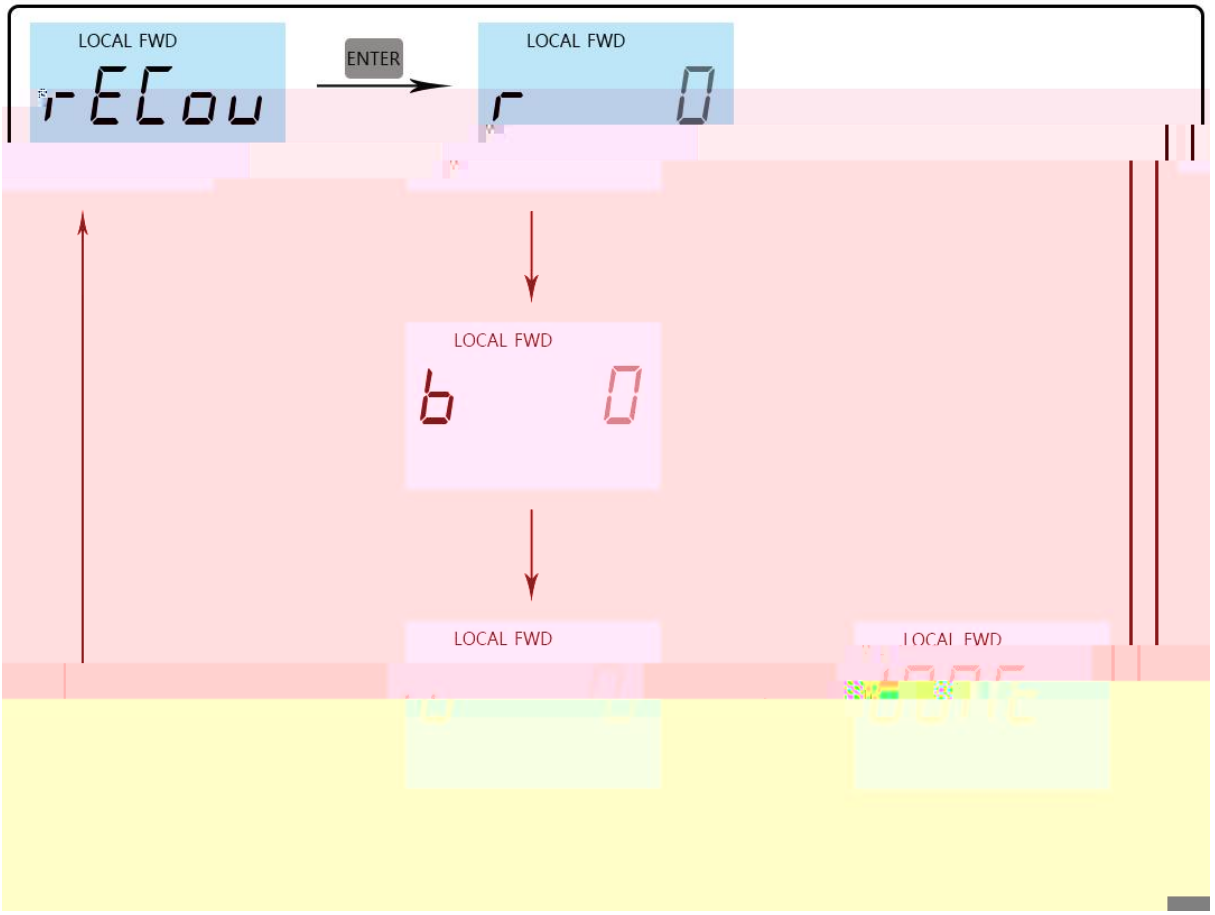

一级子菜单
确认操作
LOCAL FWD
ENTER
LOCAL FWD
任意键
F1
LOCAL FWD
CANCE

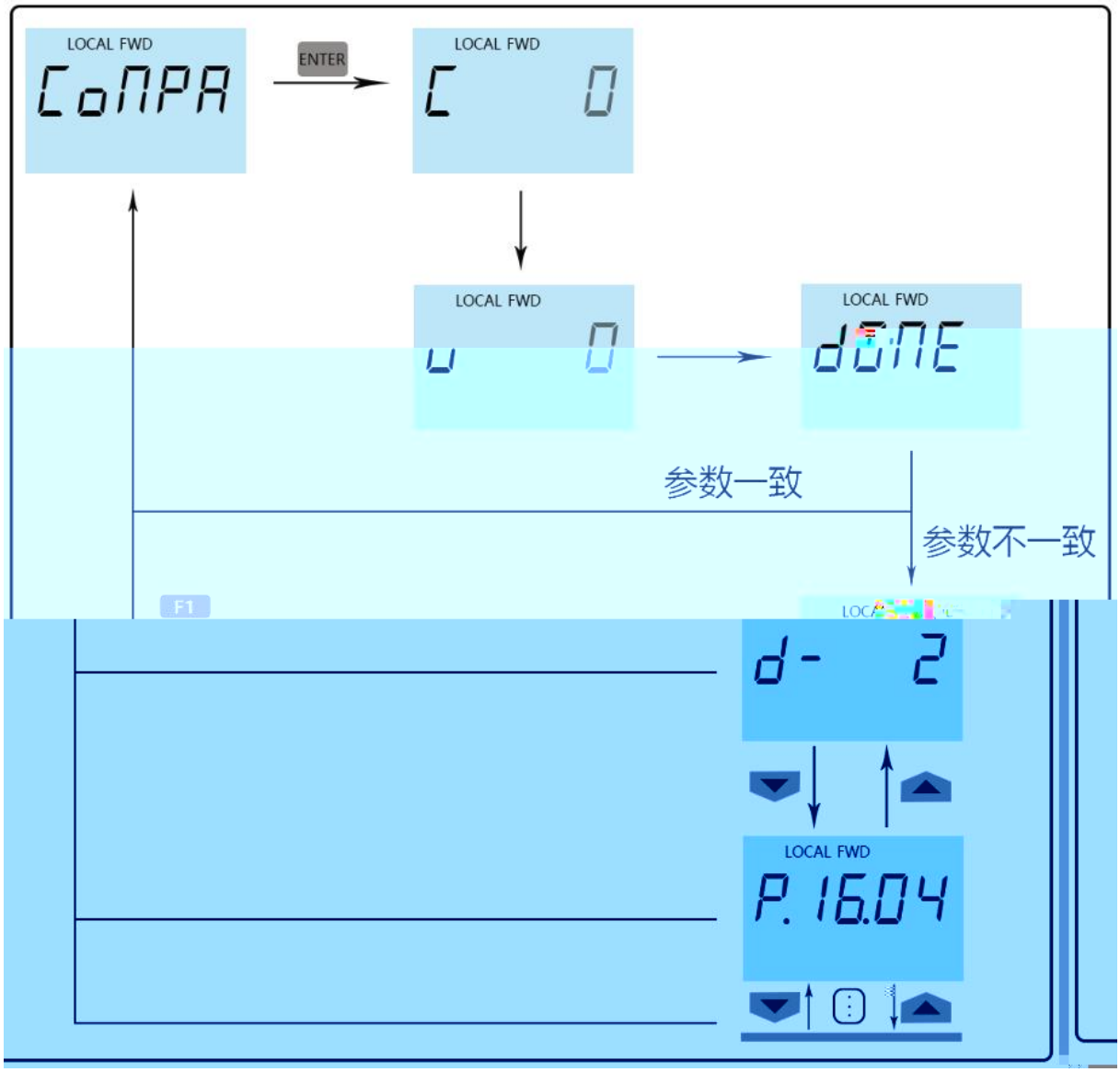

一级子菜单
日期时间
修改值
LOCAL FWD
dAtE
ENTER
Y.2021
ENTER
LOCAL FWD
Y.2021
dAY.16
H. 08
M. 06
S. 58
ENTER
上下左右设置

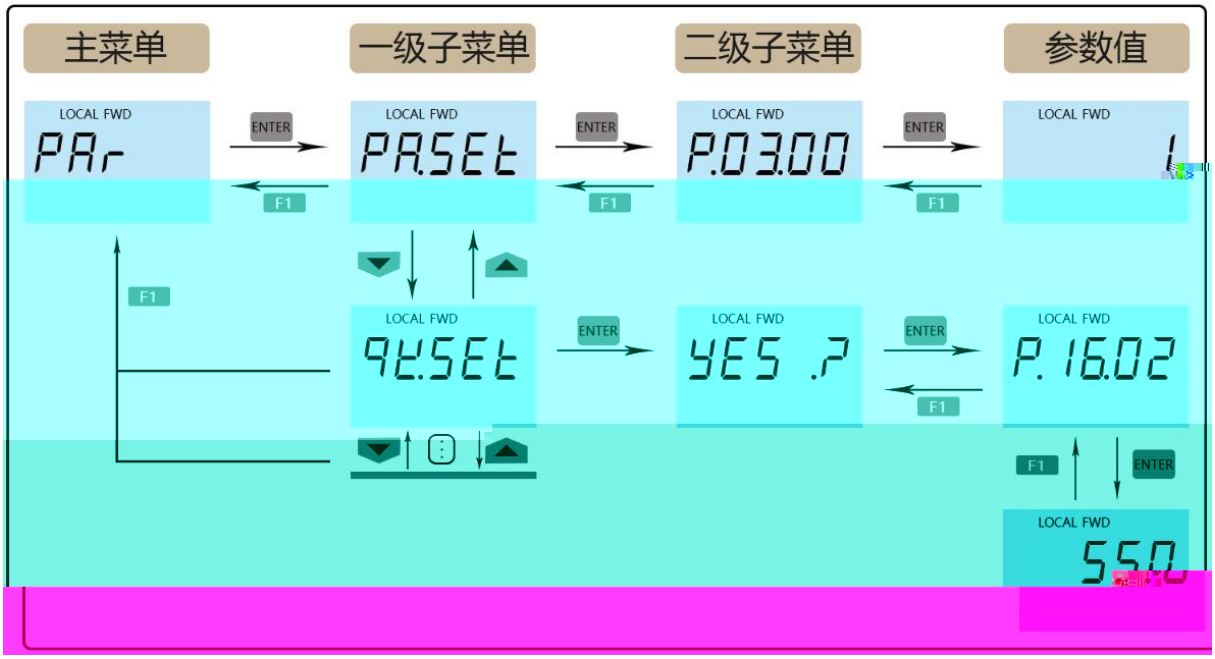

一级子菜单
版本信息
LOCAL FWD
dr.UEr
ENTER
LOCAL FWD
U 1.16
任意键

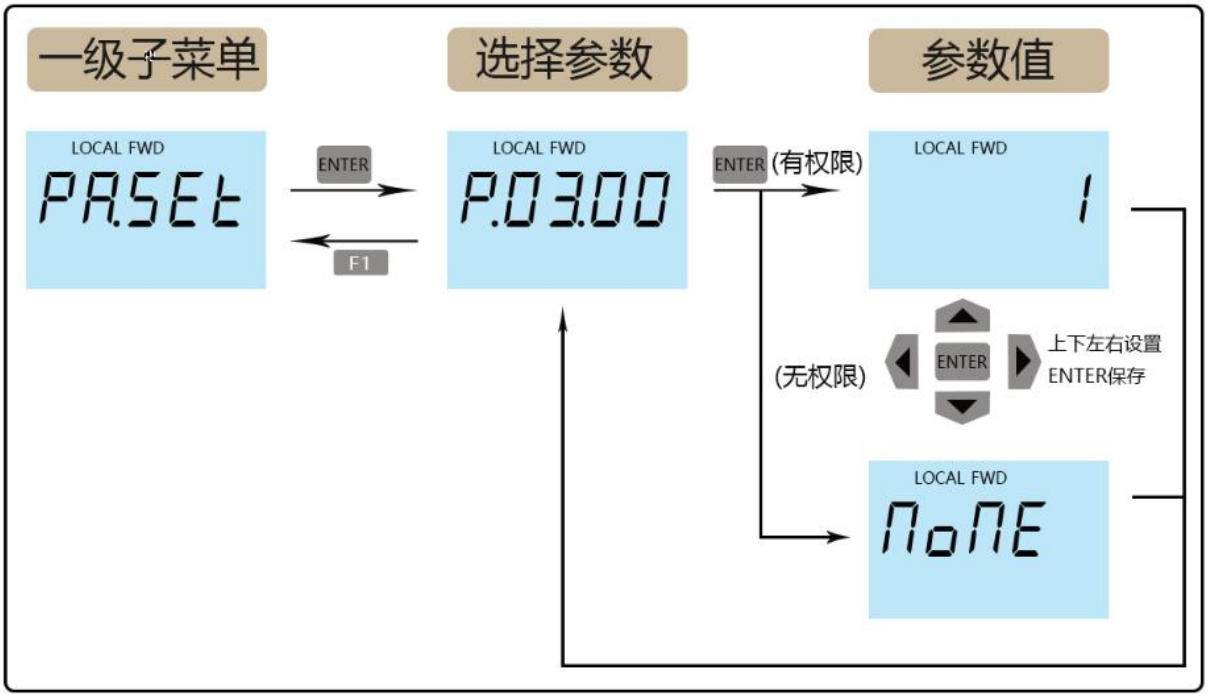

一级子菜单
版本信息
LOCAL FWD
Pd.UEr
ENTER
LOCAL FWD
U 1.00

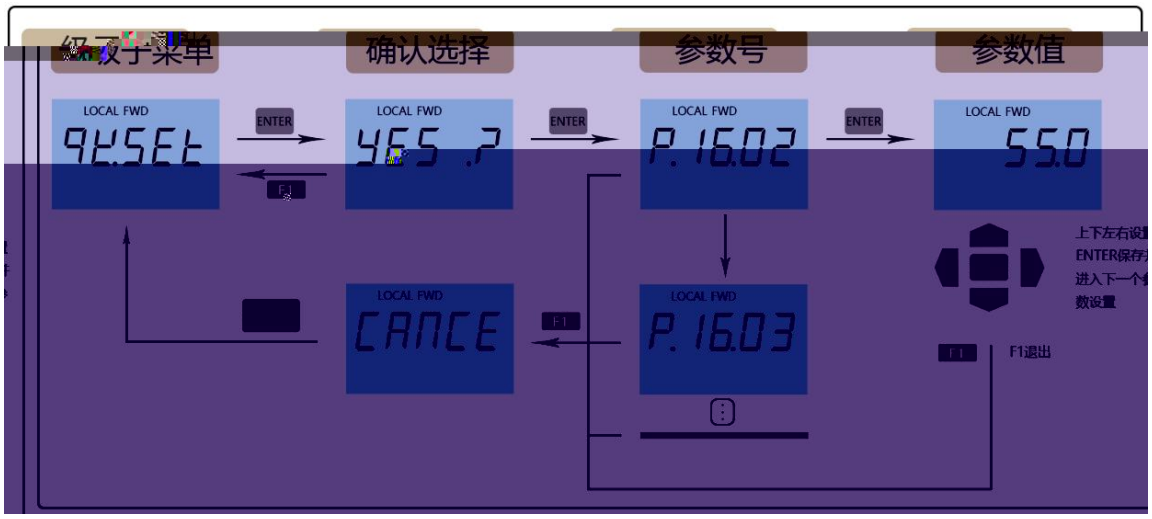

LOCAL FWD
bACKU
ENTER
LOCAL FWD
SAVE
LOCAL FWD
b 0
LOCAL FWD
u 0
LOCAL FWD
dONE

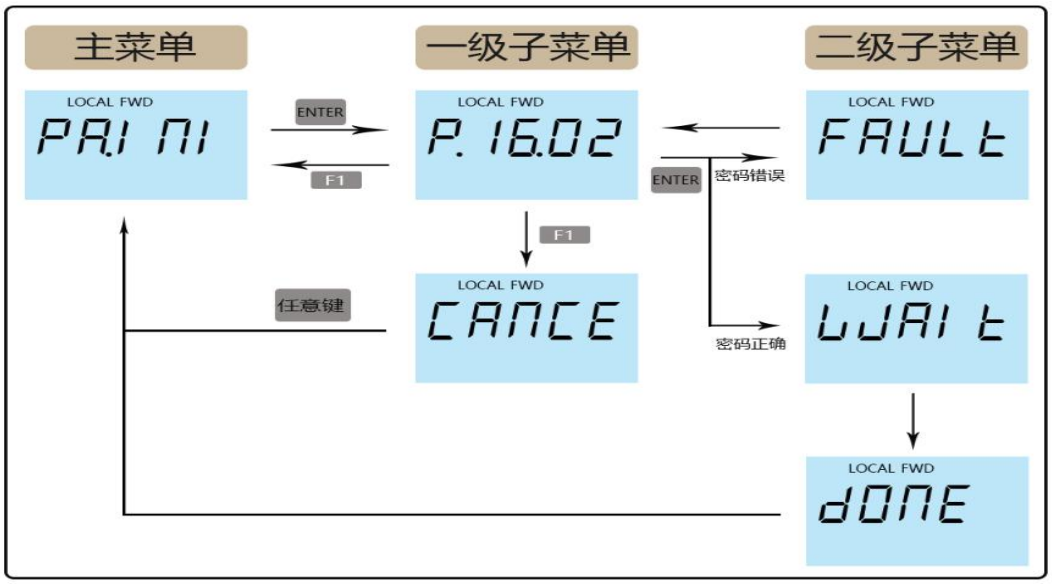

LOCAL FWD
rECou
ENTER
LOCAL FWD
r 0
LOCAL FWD
b 0
LOCAL FWD
LOCAL FWD

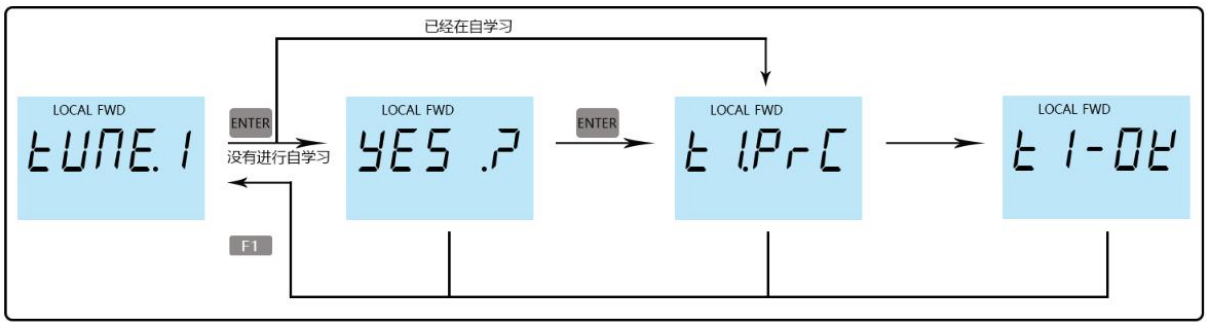

LOCAL FWD
CoNPA
ENTER
LOCAL FWD
C 0
LOCAL FWD
U 0
LOCAL FWD
dONE
参数一致
参数不一致
F1
d- 2
LOCAL FWD
P. 16.04

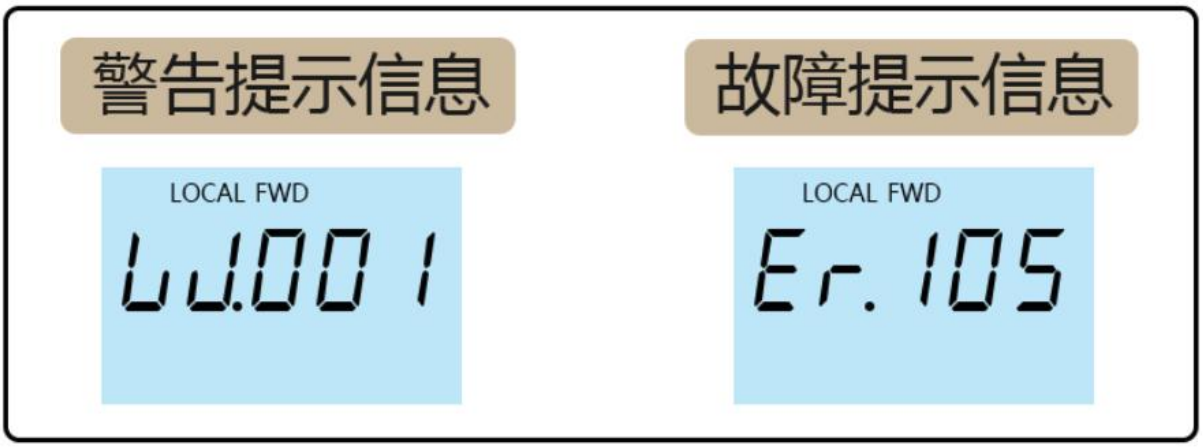

主菜单
一级子菜单
二级子菜单
参数值
LOCAL FWD
PAr
ENTER
F1
PASEt
P.0300
P.1602
550


一级子菜单
选择参数
参数值
LOCAL FWD
PASEt
ENTER
F1
LOCAL FWD
P.03.00
ENTER (有权限)
LOCAL FWD
1
(无权限)
ENTER
上下左右设置
ENTER保存
LOCAL FWD
NoNE


确认选择
参数号
参数值
LOCAL FWD
ENTER
P. 16.02
55.0
CANCE
P. 16.03
F1退出

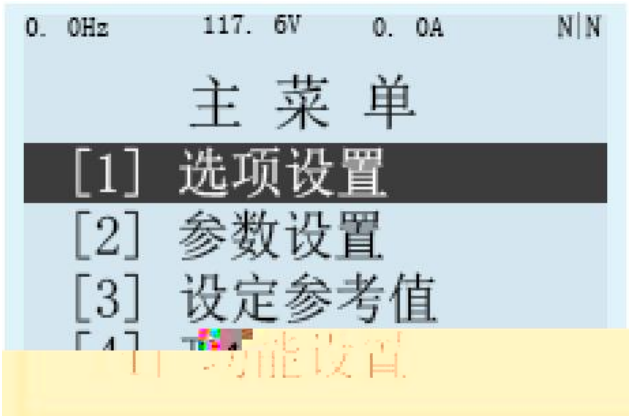

主菜单
一级子菜单
二级子菜单
LOCAL FWD
PA.1 N1
ENTER
F1
LOCAL FWD
P. 16.02
ENTER
密码错误
LOCAL FWD
FAULt
F1
任意键
LOCAL FWD
CANCE
密码正确
LOCAL FWD
WAI t
LOCAL FWD
dONE


已经在自学习
LOCAL FWD
tUNE. 1
ENTER
没有进行自学习
LOCAL FWD
YES .P
ENTER
LOCAL FWD
t 1.Pr C
LOCAL FWD
t 1-0t
F1

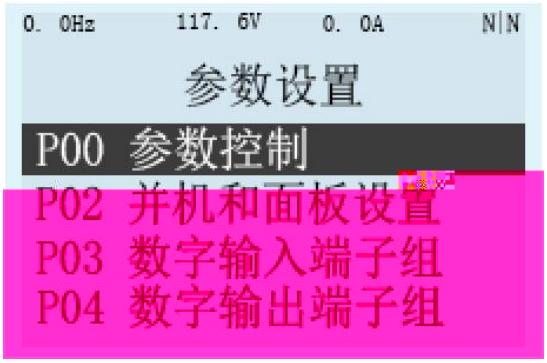

警告提示信息
LOCAL FWD
U.001
故障提示信息
LOCAL FWD
Er.105

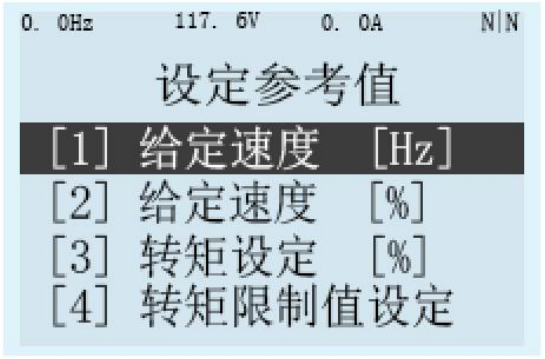
运行指示灯
本地/远程指示灯
故障指示灯
RUN
LOCAL
FAULT
0 0Hz 117.6V 0.0A N N
电机速度[Hz]:0.0Hz
给定频率[Hz]:10.0Hz
本地/远程
RUN
STOP

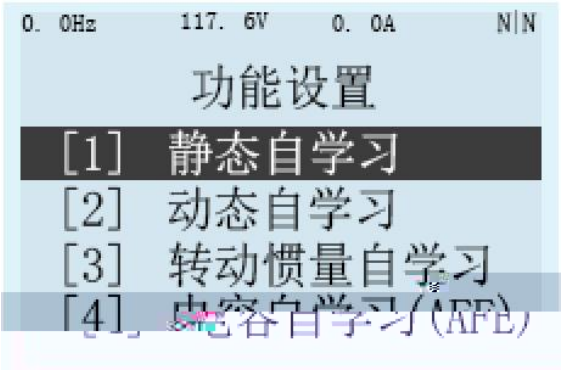
0. 0Hz
117. 6V
0. 0A
N|N

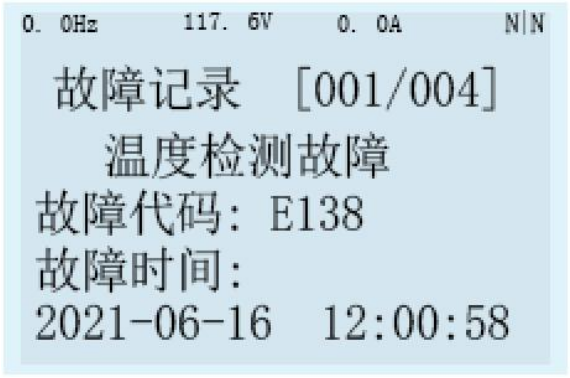

0. 0Hz
117. 6V
0. 0A
N|N
主 菜 单
[1] 选项设置
[2] 参数设置
[3] 设定参考值

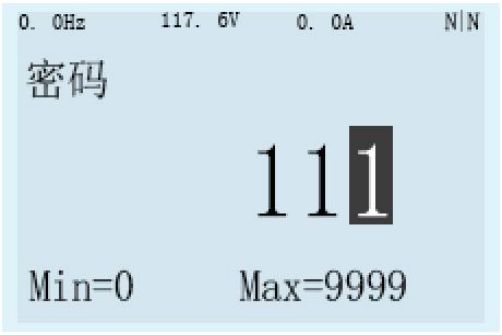
0. 0Hz
117. 6V
0. 0A
N|N
选项设置
[1] 运行方向
[2] 故障复位
[3] 菜单语言
[4] 监控菜单

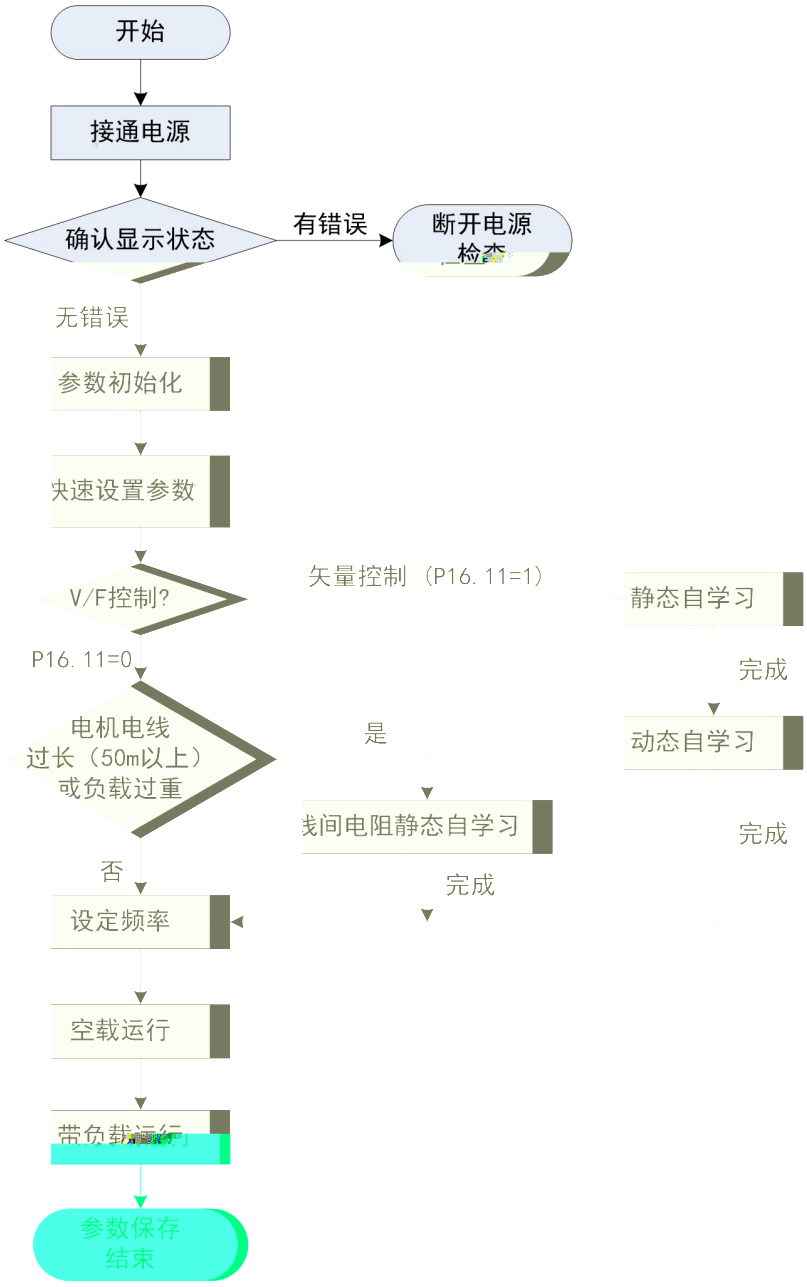

0. 0Hz
117. 6V
0. 0A
N|N
参数设置
P00 参数控制
P02 并机和面板设置
P03 数字输入端子组
P04 数字输出端子组


0. 0Hz
117. 6V
0. 0A
N|N
设定参考值
[1] 给定速度 [Hz]
[2] 给定速度 [%]
[3] 转矩设定 [%]
[4] 转矩限制值设定


0. 0Hz
117. 6V
0. 0A
N|N
功能设置
[1] 静态自学习
[2] 动态自学习
[3] 转动惯量自学习
[4] 电容自学习(AFE)


0. 0Hz
117. 6V
0. 0A
N|N
故障记录 [001/004]
温度检测故障
故障代码: E138
故障时间:
2021-06-16 12:00:58

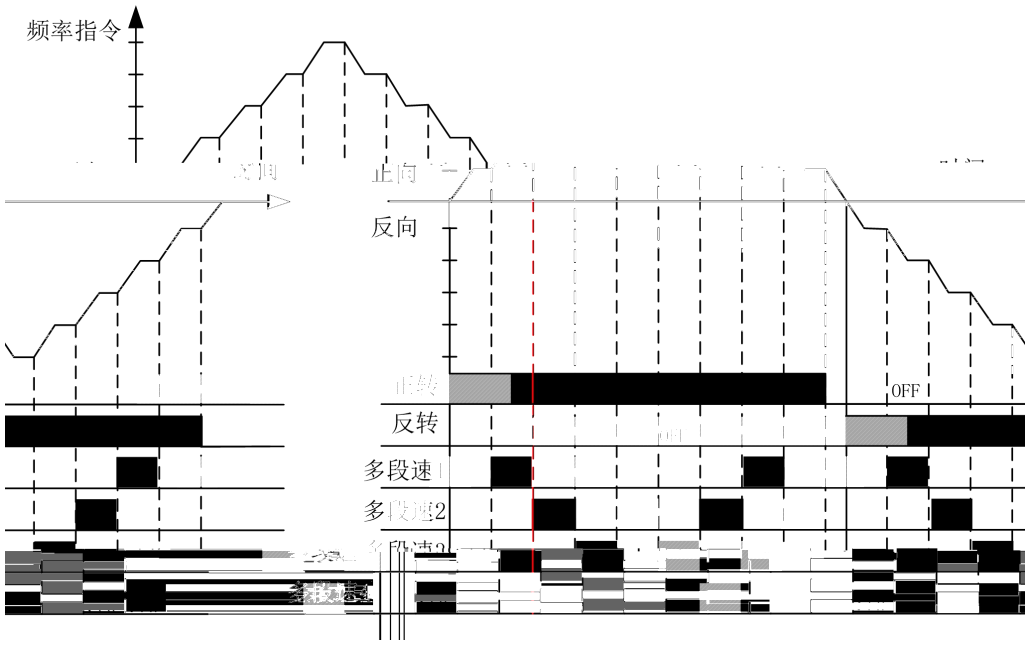

0. 0Hz
117. 6V
0. 0A
N|N
密码
111
Min=0
Max=9999

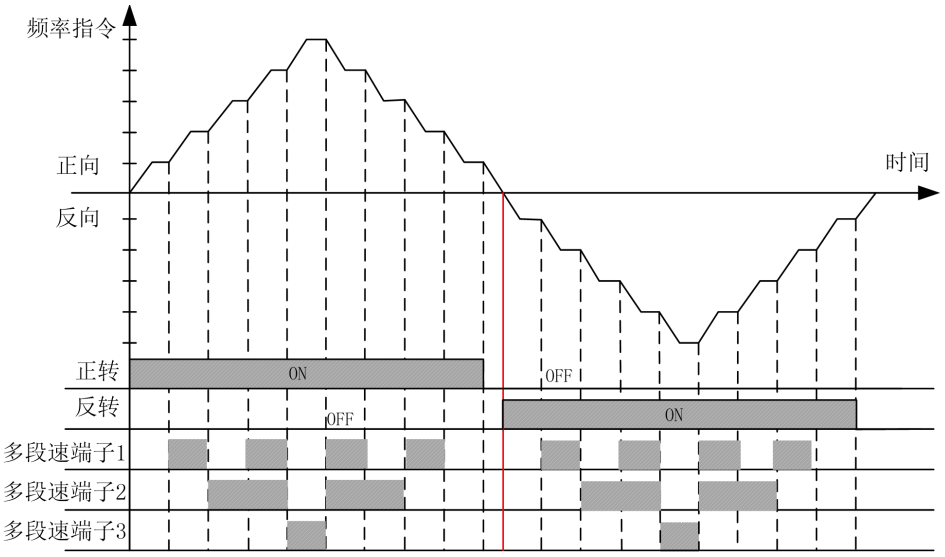

开始
接通电源
确认显示状态
有错误
断开电源
检查
无错误
参数初始化
快速设置参数
V/F控制?
矢量控制（P16.11=1）
静态自学习
完成
动态自学习
完成
P16.11=0
电机电线
过长（50m以上）
或负载过重
是
线间电阻静态自学习
完成
否
设定频率
空载运行
带负载运行
参数保存
结束

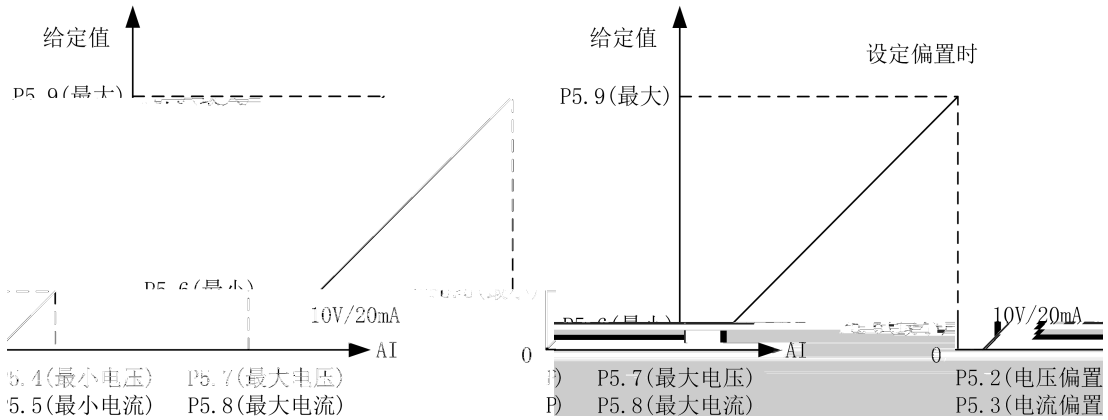
	LOCAL FWD 0.0 Hz	
	LOCAL FWD Er.105	
	COMM.F	

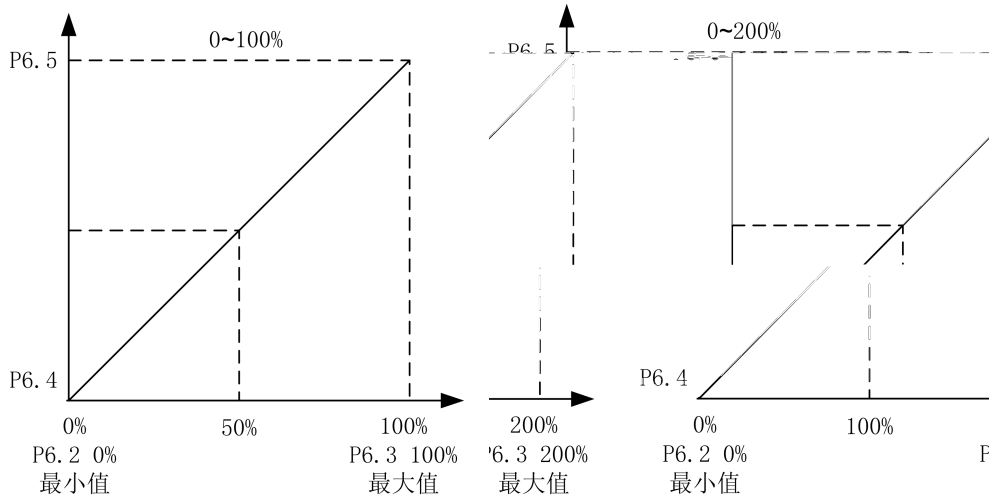
0.0Hz 117.6V 0.0A N|N

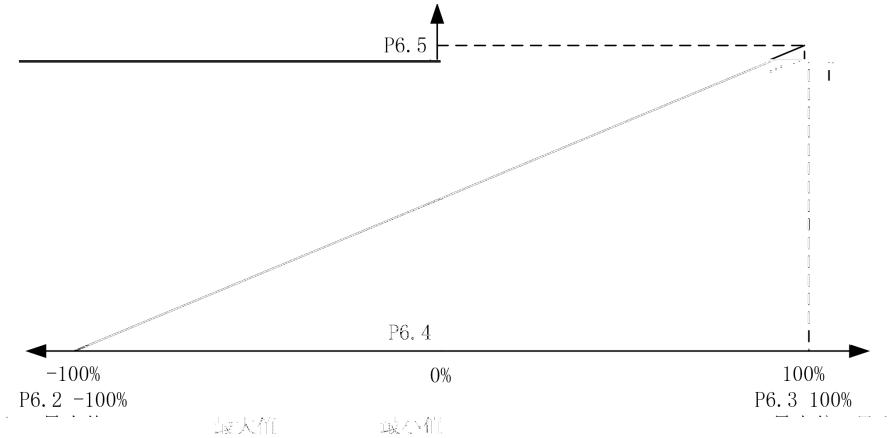
GUIDE


频率指令
正向
反向
正转
反转
OFF
多段速1
多段速2

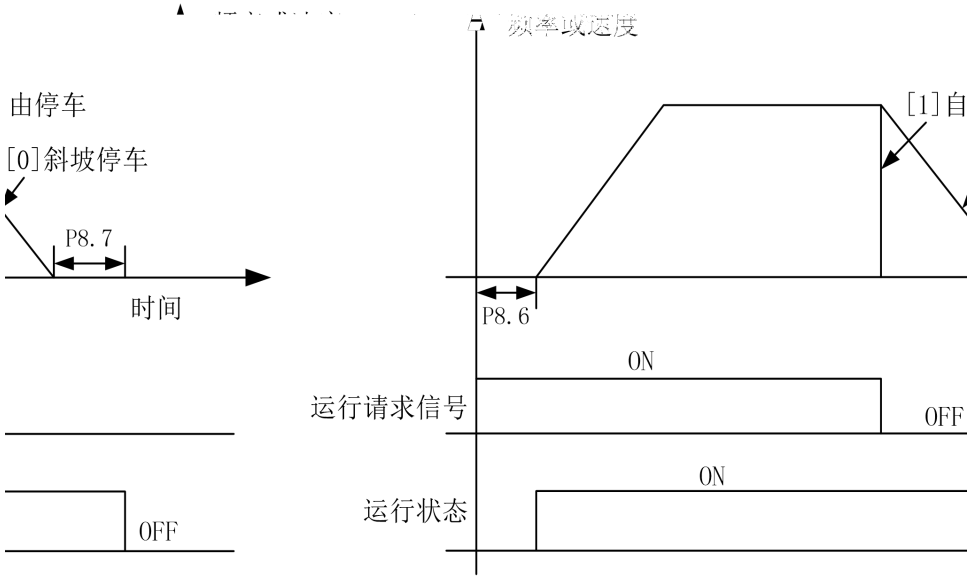

频率指令
正向
反向
时间
正转
反转
多段速端子1
多段速端子2
多段速端子3
ON
OFF
OFF
ON

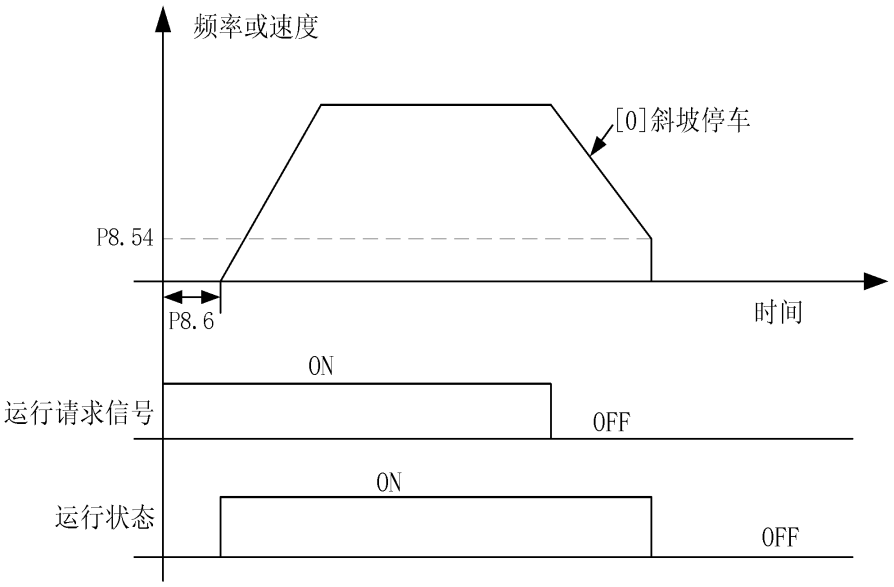

给定值
P5.9(最大)
10V/20mA
AI
5.4(最小电压)
5.5(最小电流)
P5.7(最大电压)
P5.8(最大电流)
给定值
设定偏置时
P5.9(最大)
10V/20mA
AI
0
0
P5.7(最大电压)
P5.8(最大电流)
P5.2(电压偏置
P5.3(电流偏置

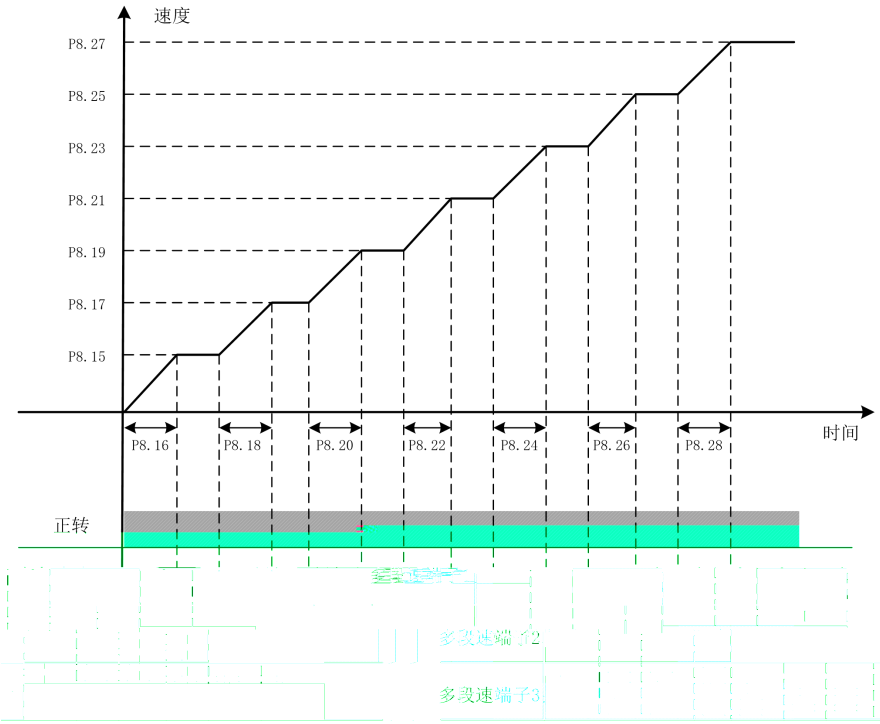

P6.5
0~100%
P6.4
0%
50%
100%
P6.2 0%
最小值
P6.3 100%
最大值
200%
6.3 200%
最大值
0~200%
P6.4
0%
100%
P6.2 0%
最小值

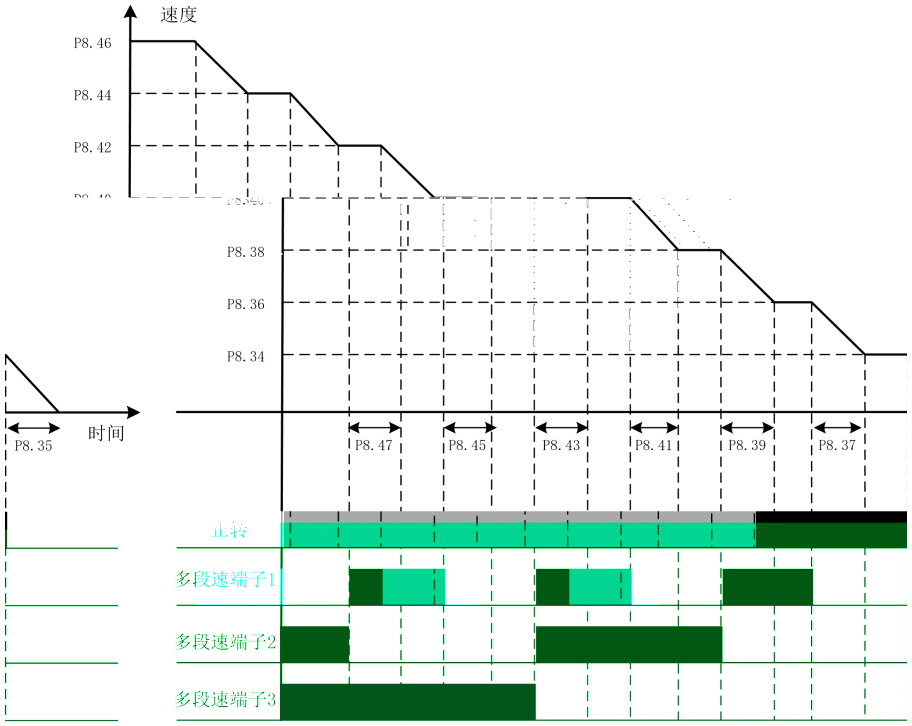

P6.5
P6.4
-100%
P6.2 -100%
0%
100%
P6.3 100%

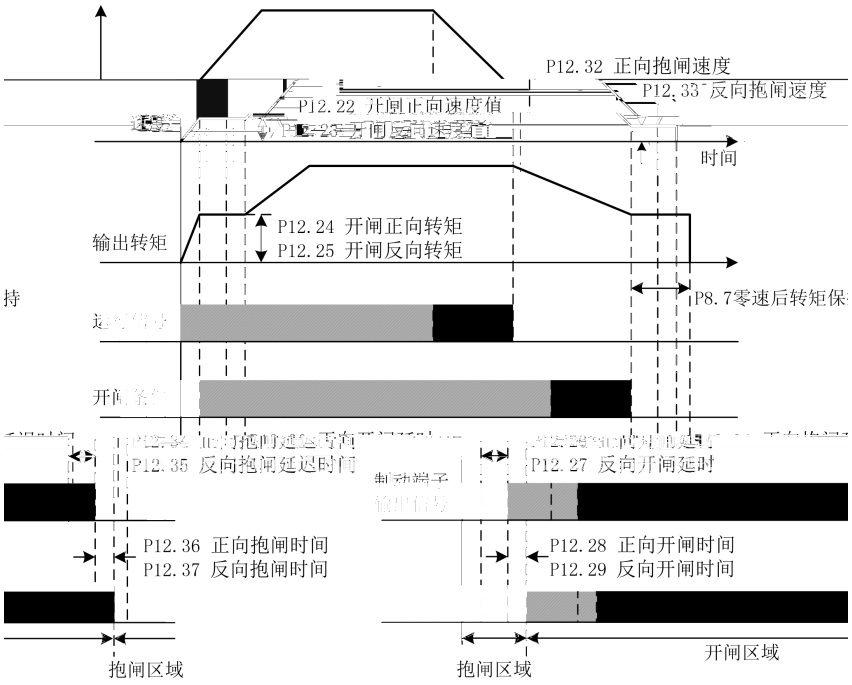
$I_a + I_b + I_c$ $\frac{I_a + I_b + I_c}{} > P$ P

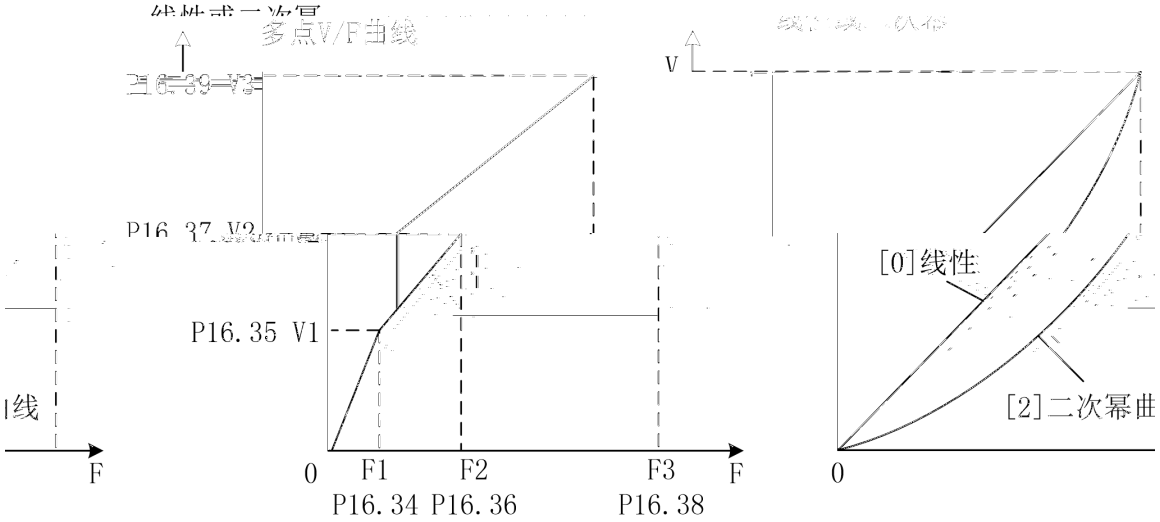

频率或速度
由停车
[0]斜坡停车
P8.7
时间
[1]自
P8.6
ON
运行请求信号
OFF
ON
运行状态
OFF

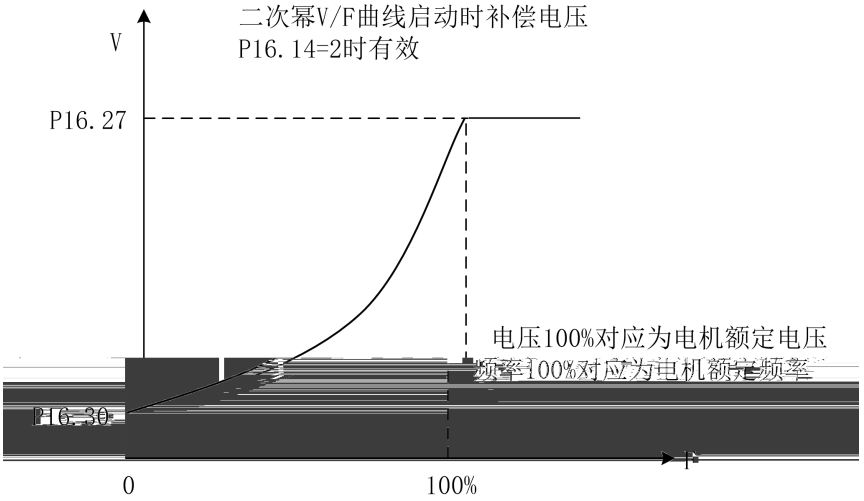

频率或速度
[0]斜坡停车
P8.54
P8.6
时间
ON
运行请求信号
OFF
ON
运行状态
OFF

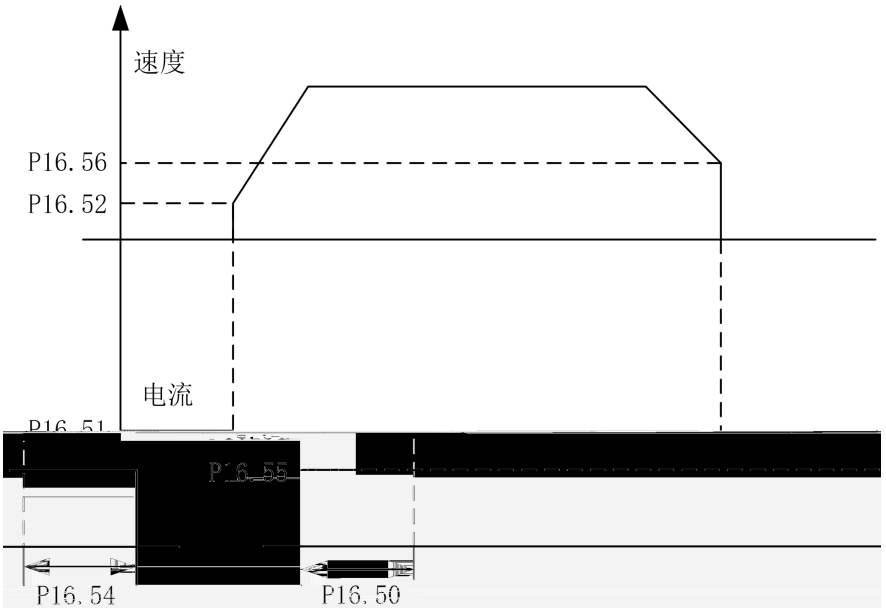

速度
P8.27
P8.25
P8.23
P8.21
P8.19
P8.17
P8.15
P8.16
P8.18
P8.20
P8.22
P8.24
P8.26
P8.28
时间
正转
多段速端子2
多段速端子3

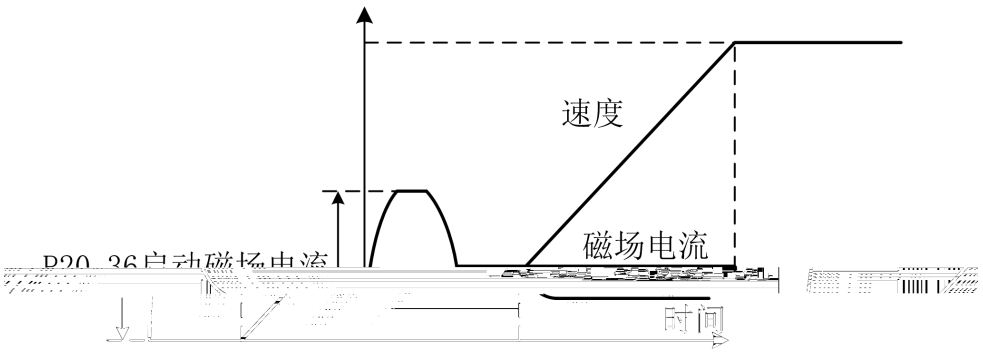

速度
P8.46
P8.44
P8.42
P8.38
P8.36
P8.34
时间
P8.35
P8.47
P8.45
P8.43
P8.41
P8.39
P8.37
正转
多段速端子1
多段速端子2
多段速端子3

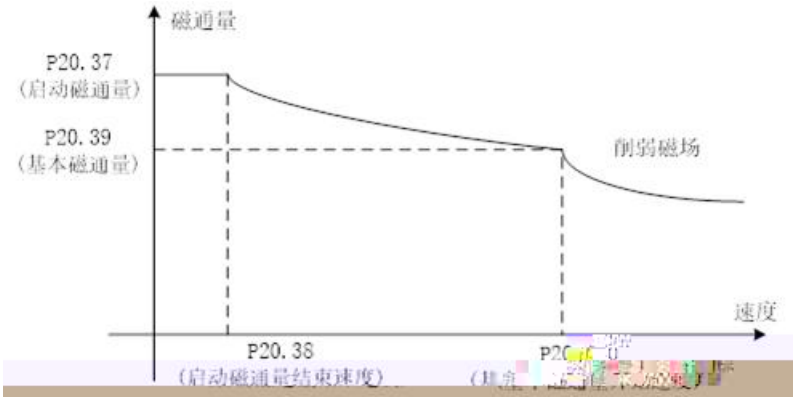

P12.32 正向抱闸速度
P12.33 反向抱闸速度
P12.22 开闸正向速度值
时间
输出转矩
P12.24 开闸正向转矩
P12.25 开闸反向转矩
P8.7零速后转矩保
P12.35 反向抱闸延迟时间
P12.27 反向开闸延时
P12.36 正向抱闸时间
P12.37 反向抱闸时间
P12.28 正向开闸时间
P12.29 反向开闸时间
抱闸区域
抱闸区域
开闸区域

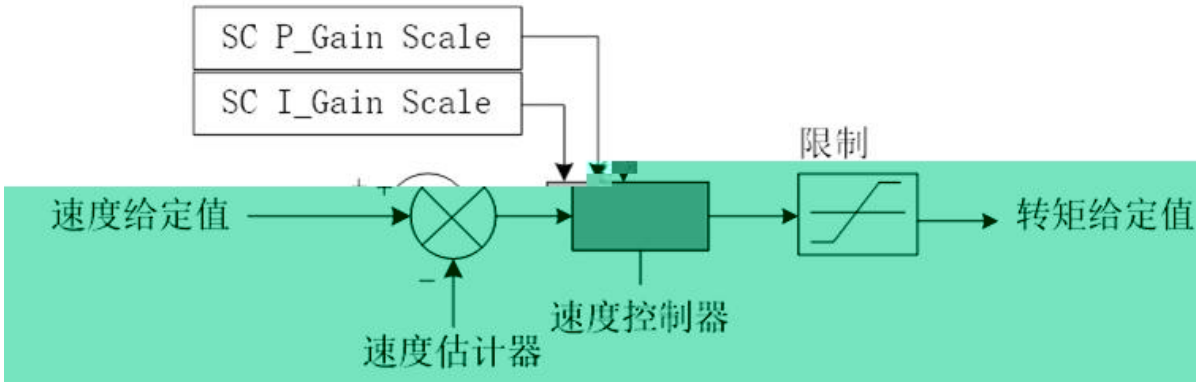

多点V/F曲线
P16.35 V1
0
F1
F2
F3
F
P16.34 P16.36
P16.38
V
[0]线性
[2]二次幂曲
0

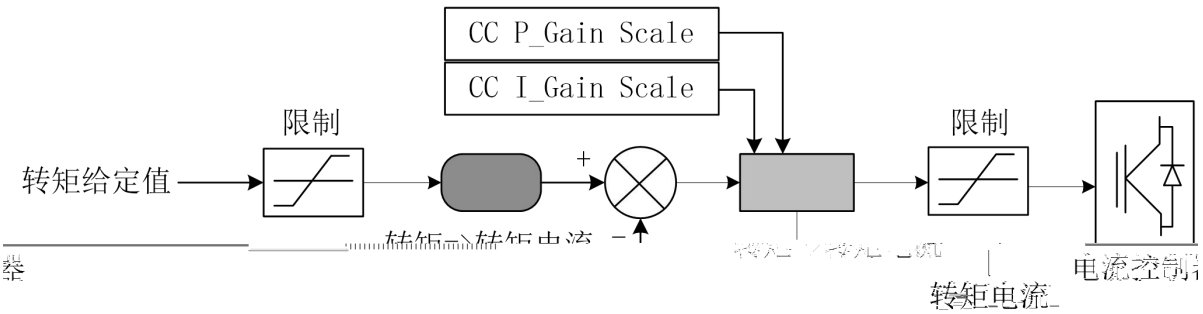

二次幂V/F曲线启动时补偿电压
P16.14=2时有效
V
P16.27
电压100%对应为电机额定电压
频率100%对应为电机额定频率
P16.30
0
100%
f


速度
P16.56
P16.52
电流
P16.55
P16.54
P16.50


速度
磁场电流
P20.36启动磁场电流
时间

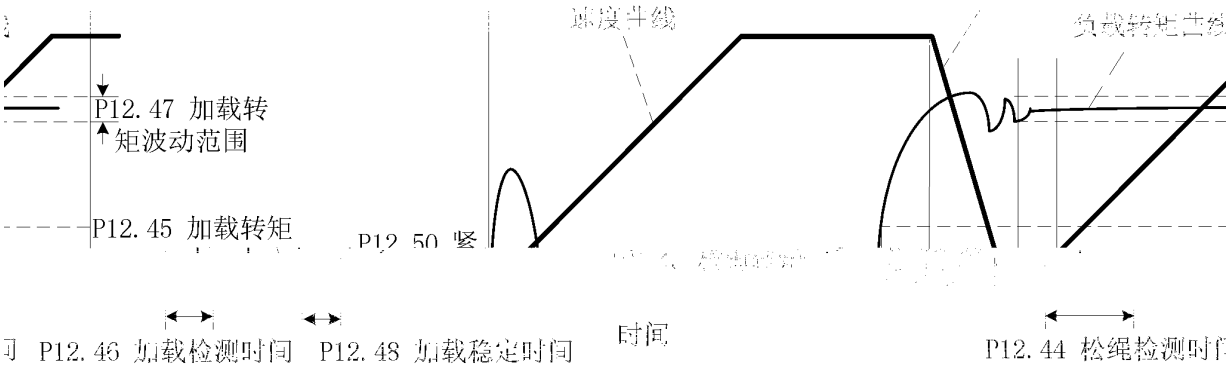

磁通量
P20.37
(启动磁通量)
P20.39
(基本磁通量)
削弱磁场
速度
P20.38
(启动磁通量结束速度)


SC P_Gain Scale
SC I_Gain Scale
限制
速度给定值
转矩给定值
速度估计器
速度控制器

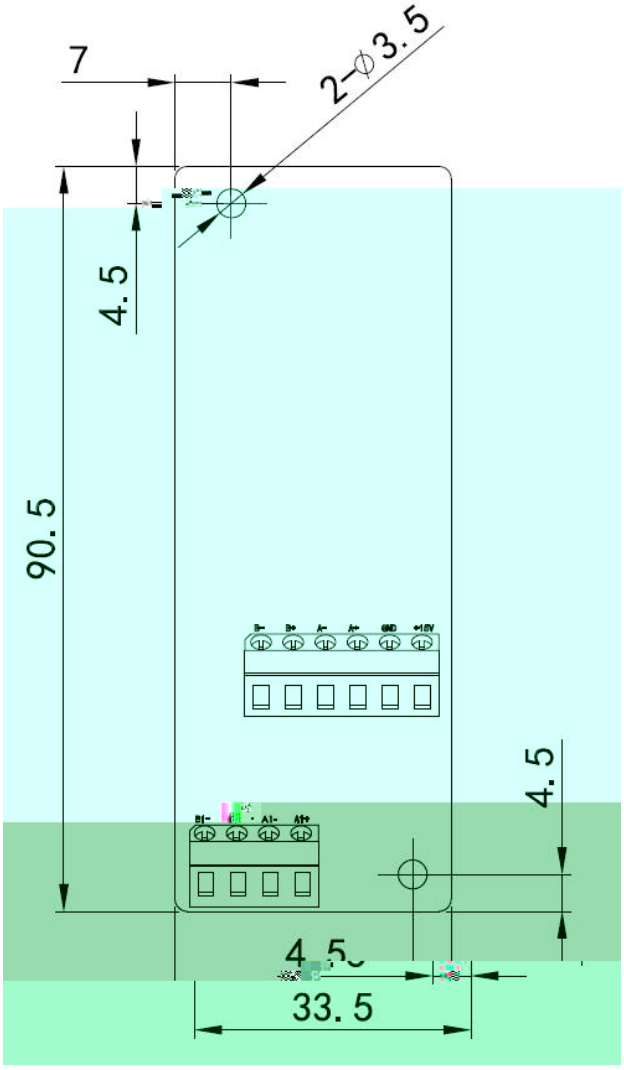

CC P_Gain Scale
CC I_Gain Scale
限制
限制
转矩给定值
转矩电流
电流控制

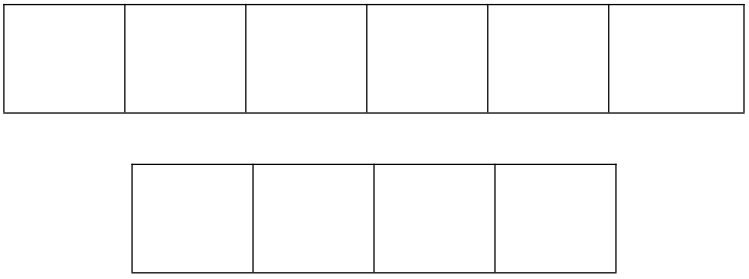
速度

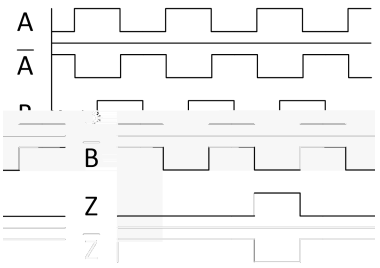
负载转矩

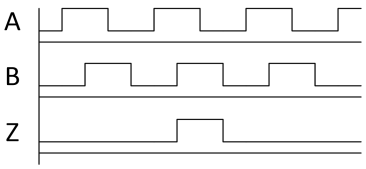

速度斜线
P12.47 加载转矩波动范围
P12.45 加载转矩
时间
P12.46 加载检测时间
P12.48 加载稳定时间
P12.44 松绳检测时间

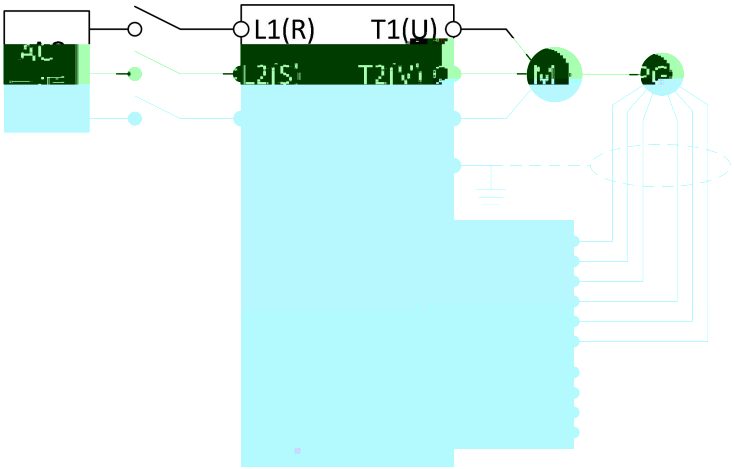
.À Õ@ Ö@ &

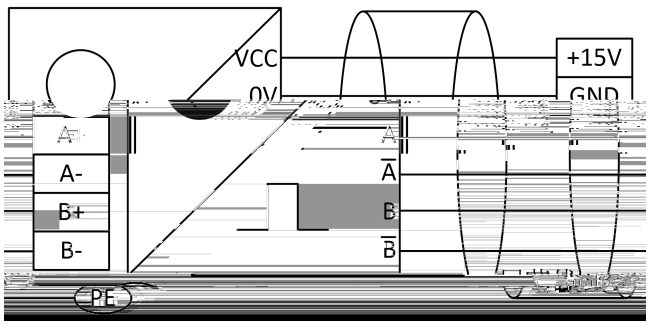

7
2-Φ3.5
4.5
90.5
4.5
33.5

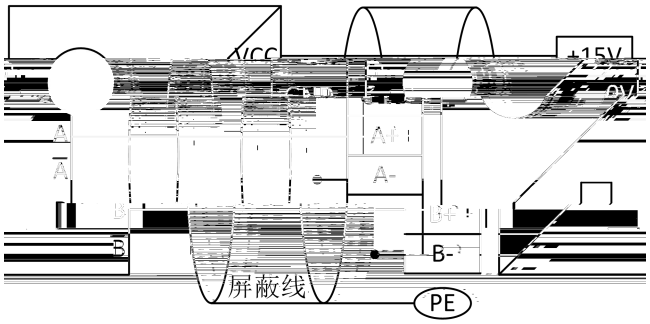


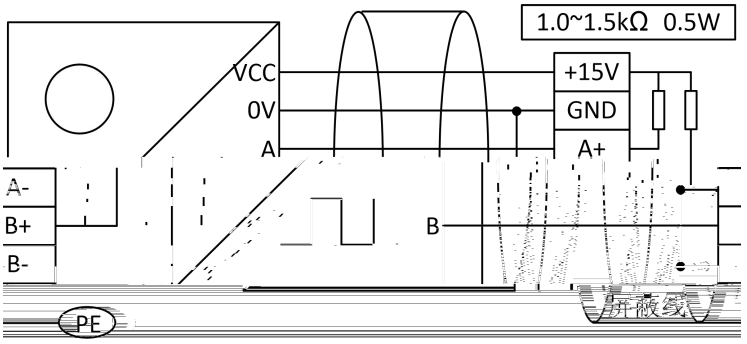

A
B
Z

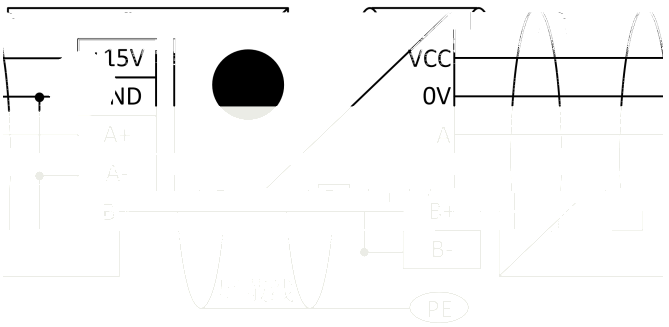

A
B
Z

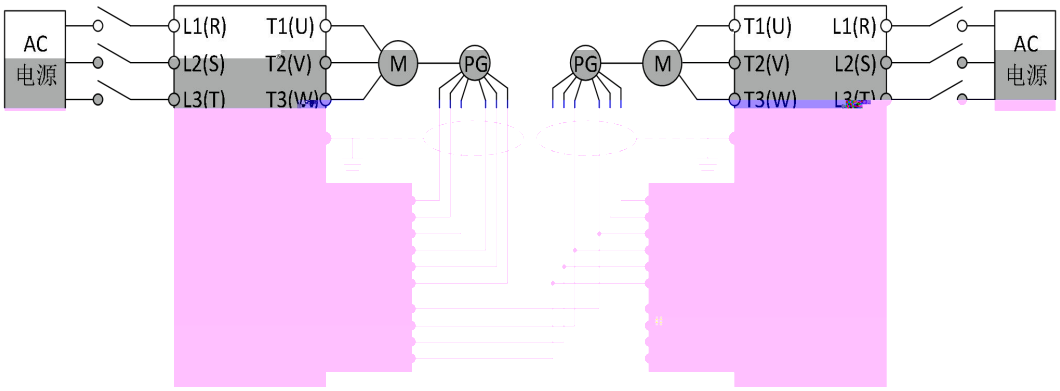

L1(R)
T1(U)
M

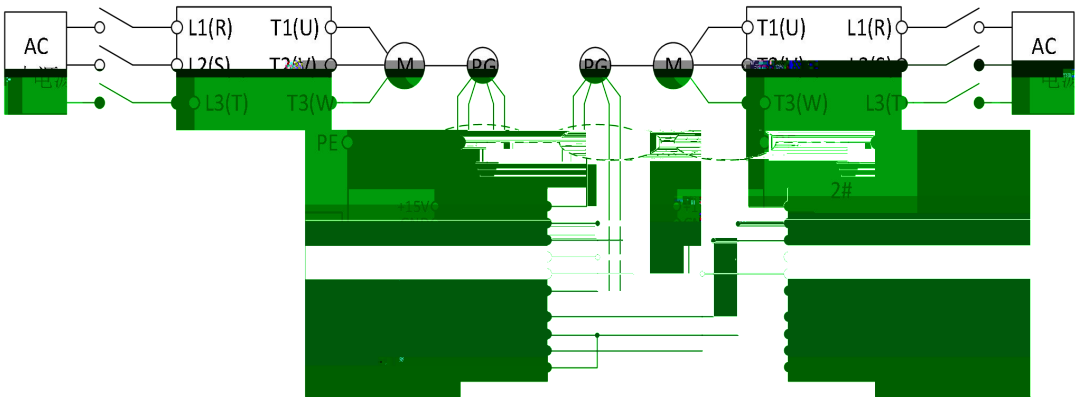

VCC
0V
+15V
GND
A+
A-
B+
B-
PE

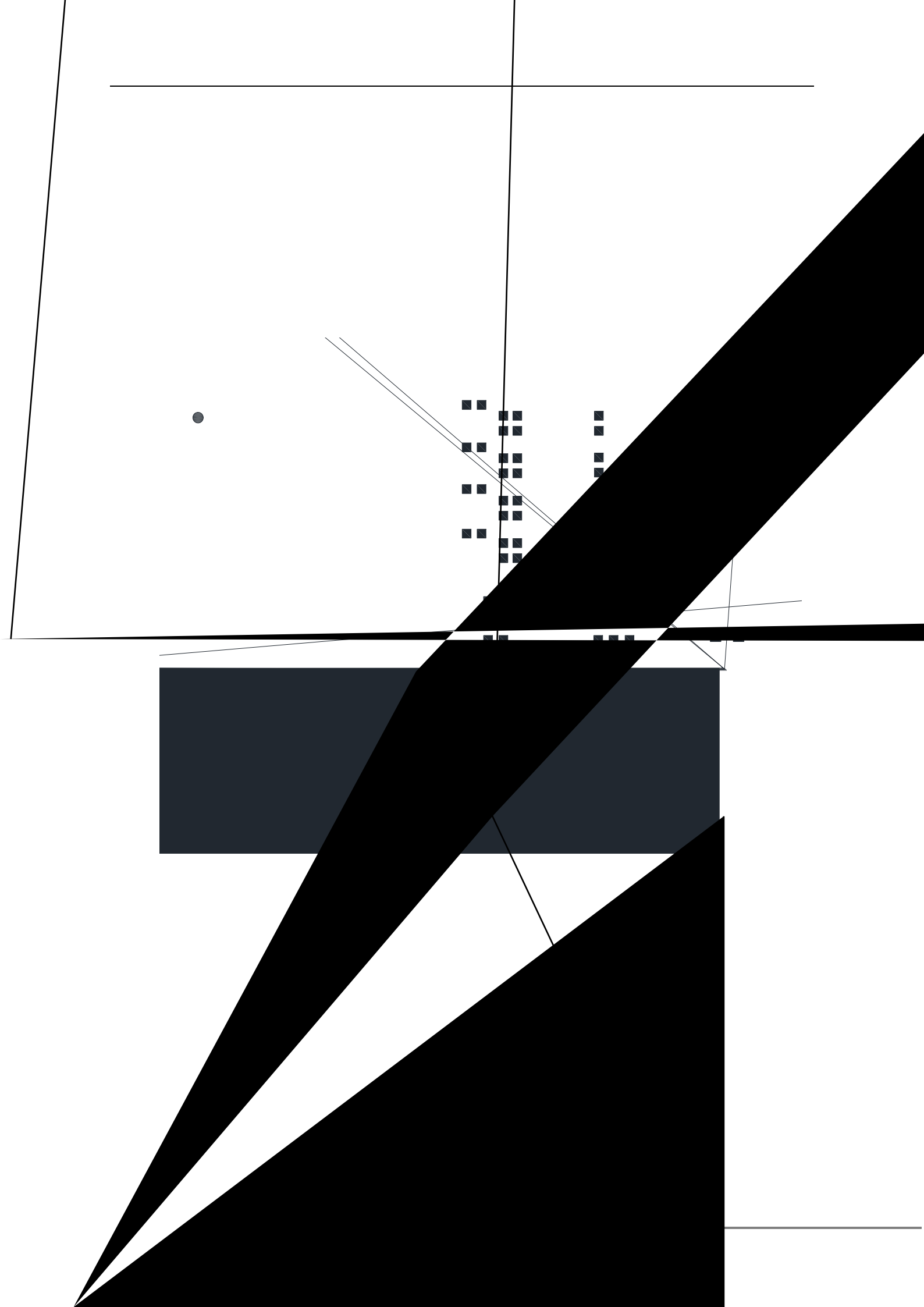

VCC
+15V
0V
A+
A-
B+
B-
屏蔽线
PE

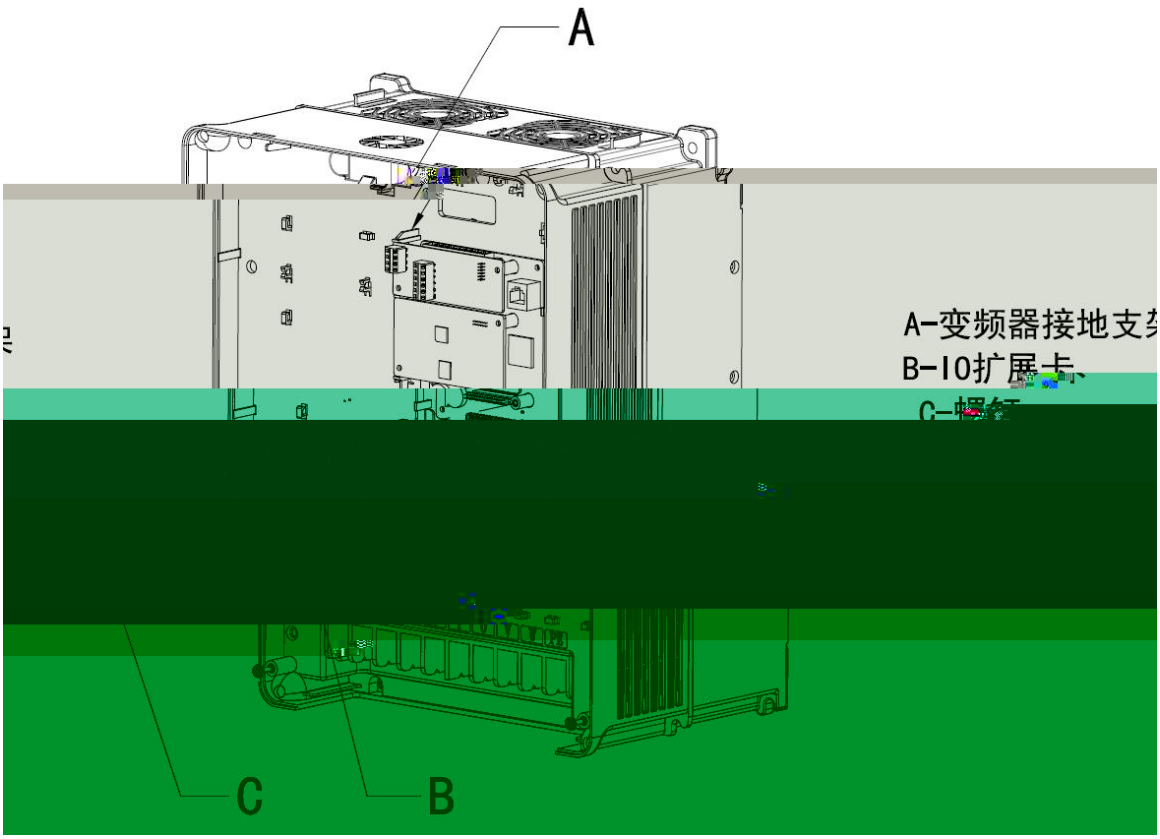

1.0~1.5kΩ 0.5W
VCC
0V
A
+15V
GND
A+
A-
B+
B-
B
PE
屏蔽线

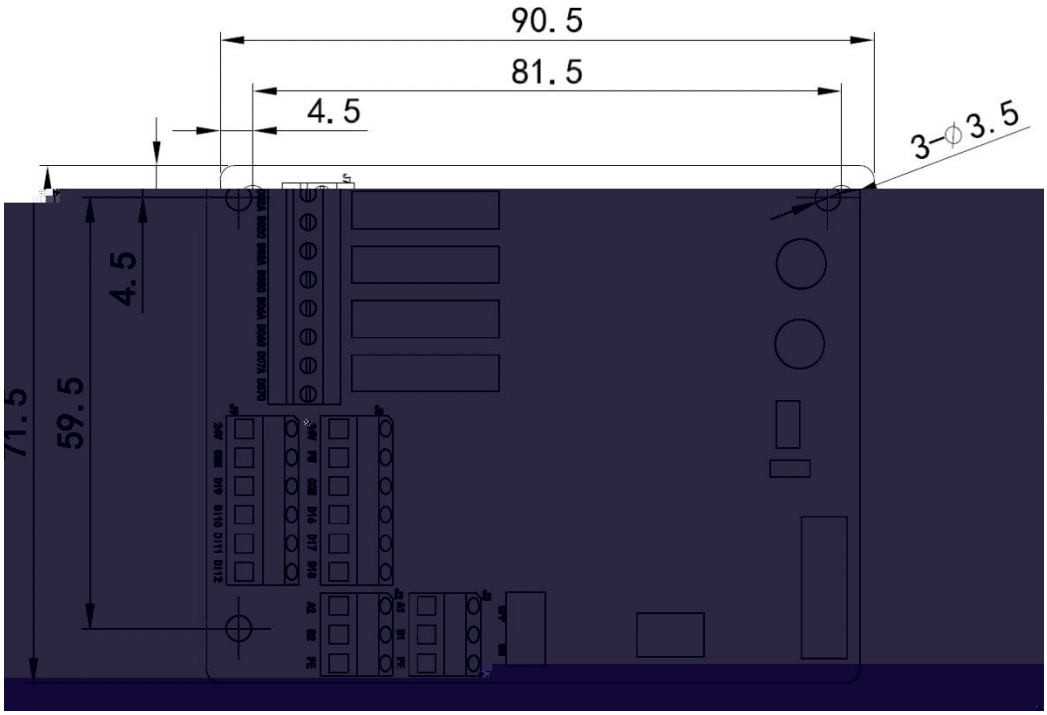

VCC
0V
PE

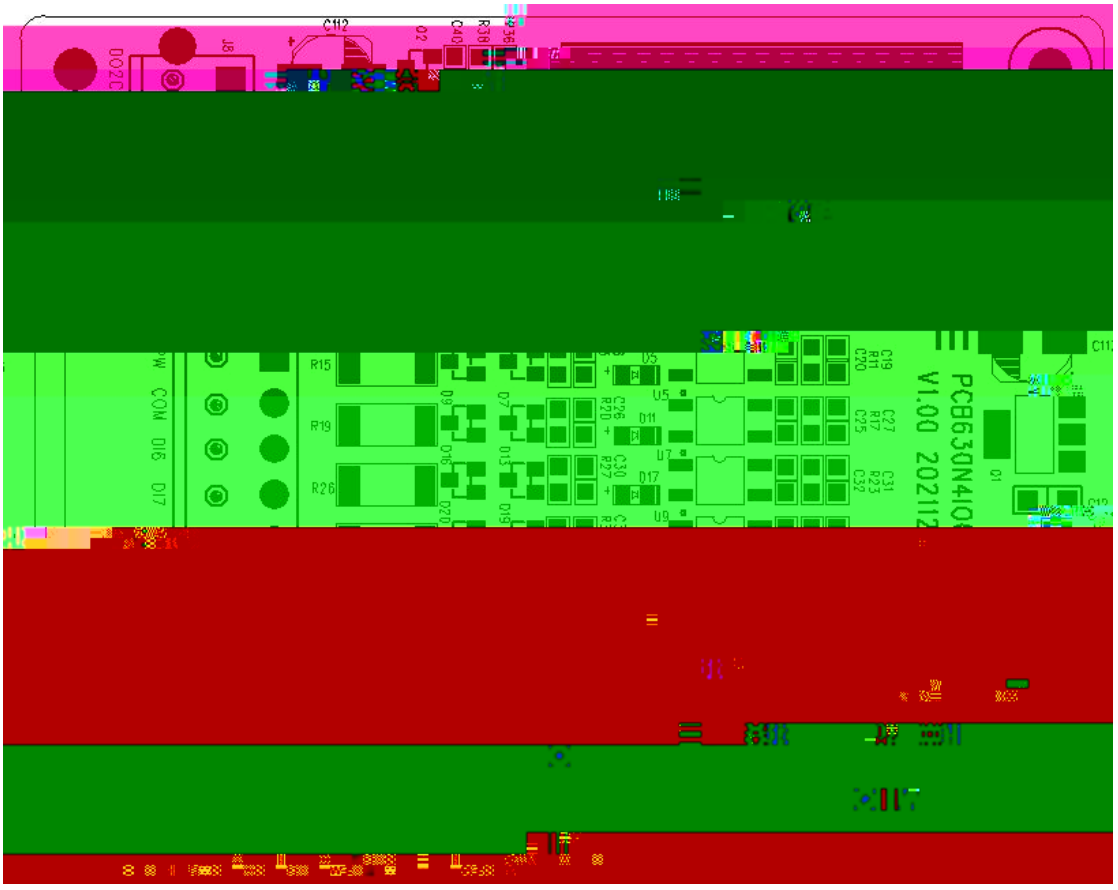

AC
电源
L1(R)
L2(S)
L3(T)
T1(U)
T2(V)
T3(W)
M
PG
PG
M
T1(U)
T2(V)
T3(W)
L1(R)
L2(S)
AC
电源

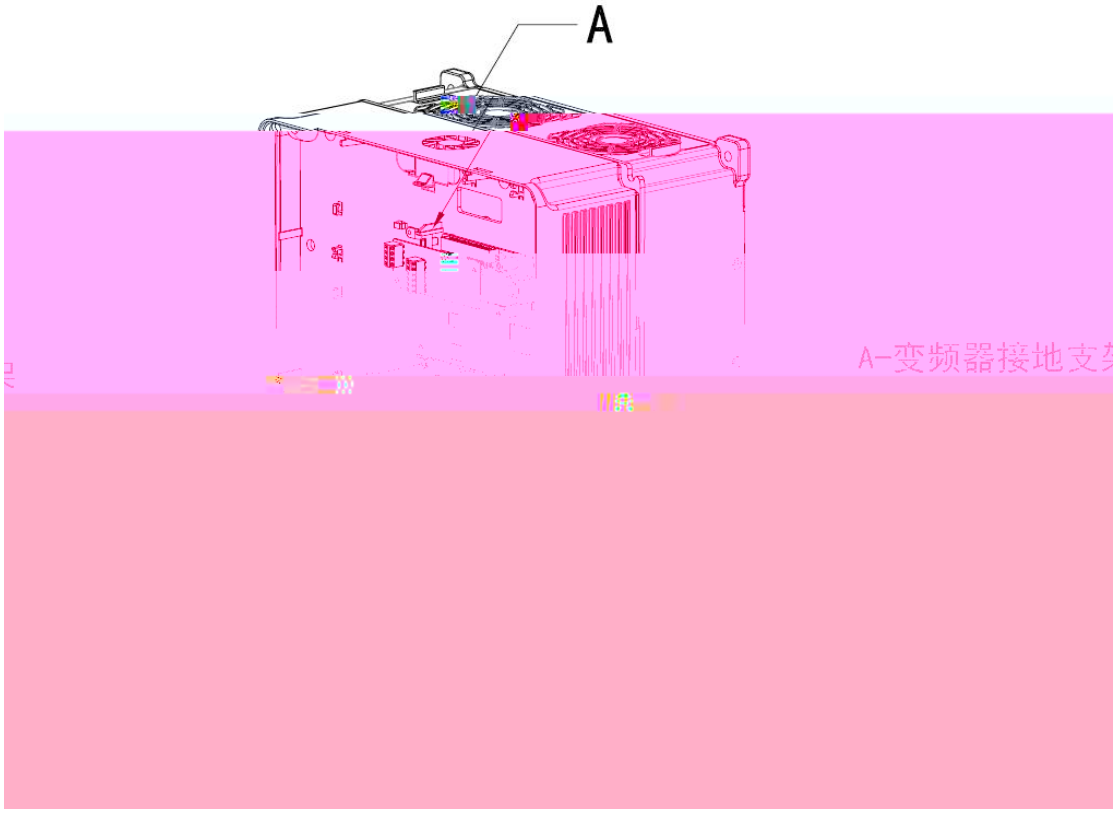

AC
L1(R)
T1(U)
L3(T)
T3(W)
M
PG
PG
M
T1(U)
L1(R)
T3(W)
L3(T)
AC
PE
2#

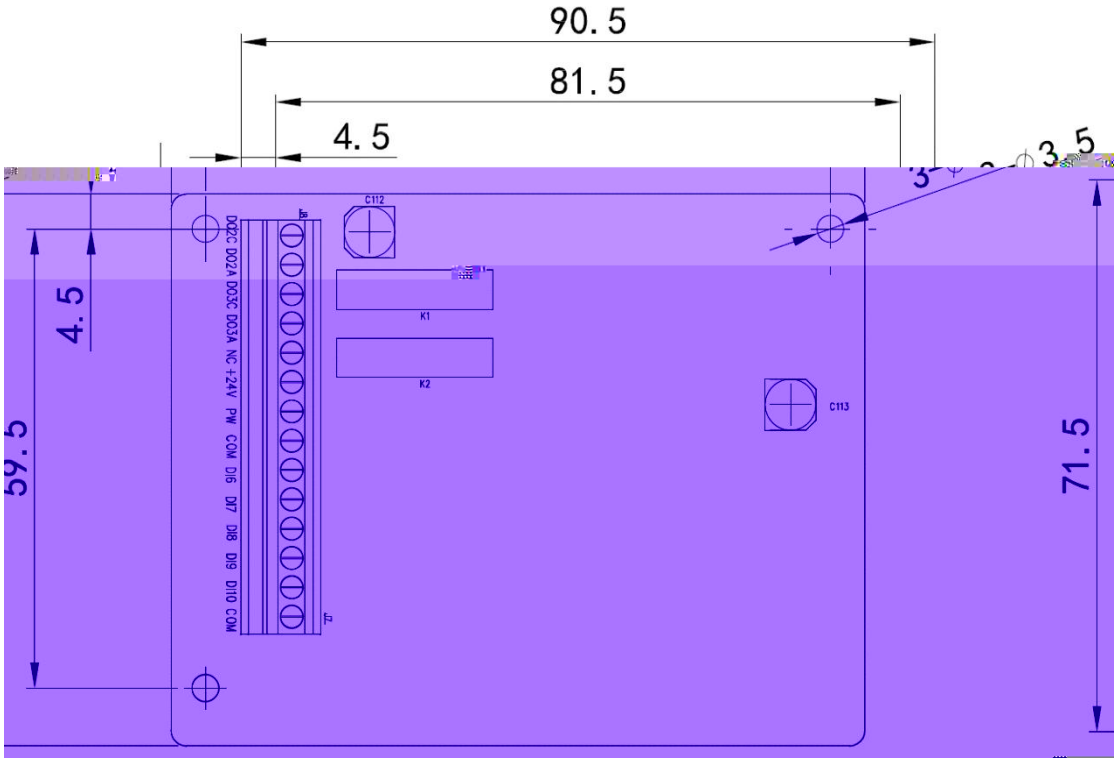


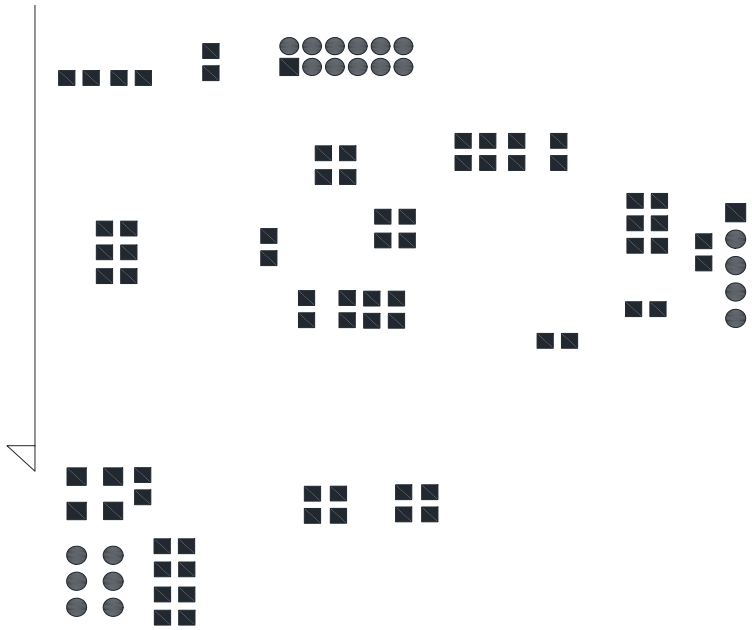

A
A-变频器接地支
B-IO扩展卡、
C-
C
B

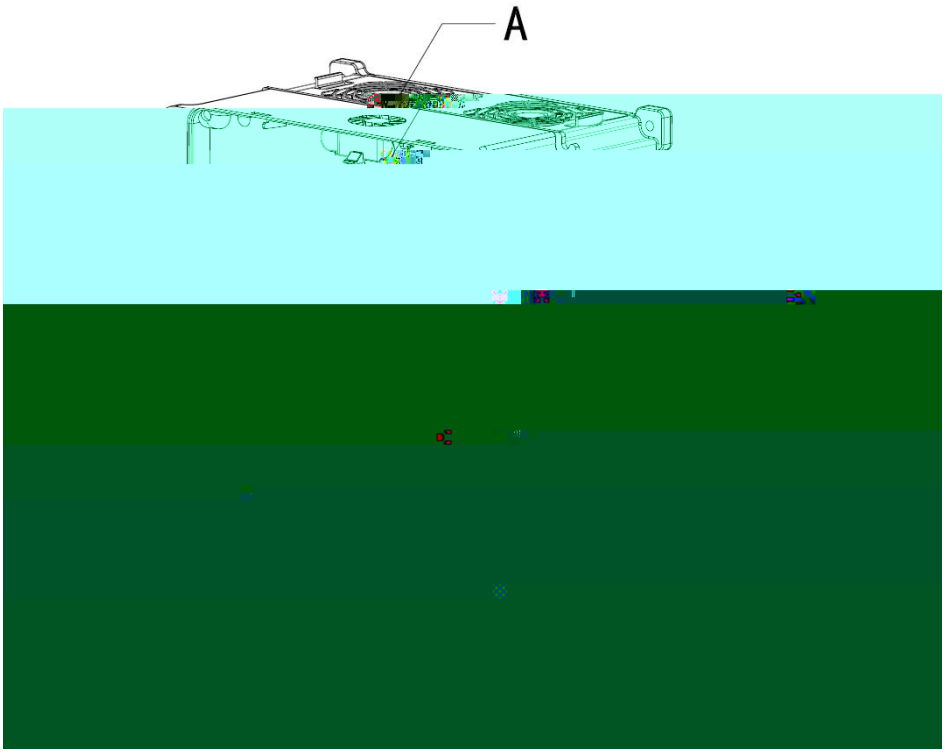

90.5
81.5
4.5
3-φ3.5
4.5
59.5
71.5

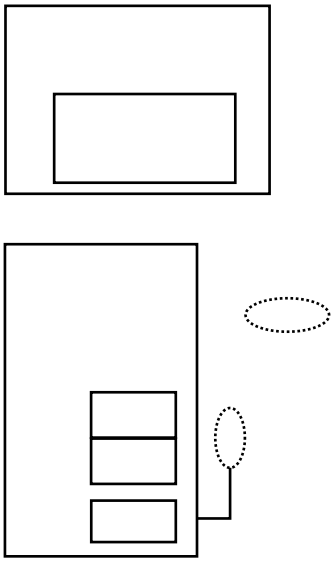

V1.00 202112

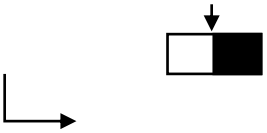

A
A-变频器接地支

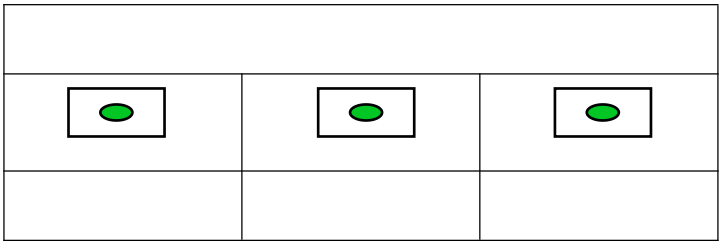

90.5
81.5
4.5
3.5
4.5
59.5
71.5
C112
K1
K2
C113
DO2C DO2A DO3C DO3A NC +24V PW COM DI6 DI7 DI8 DI9 DI10 COM

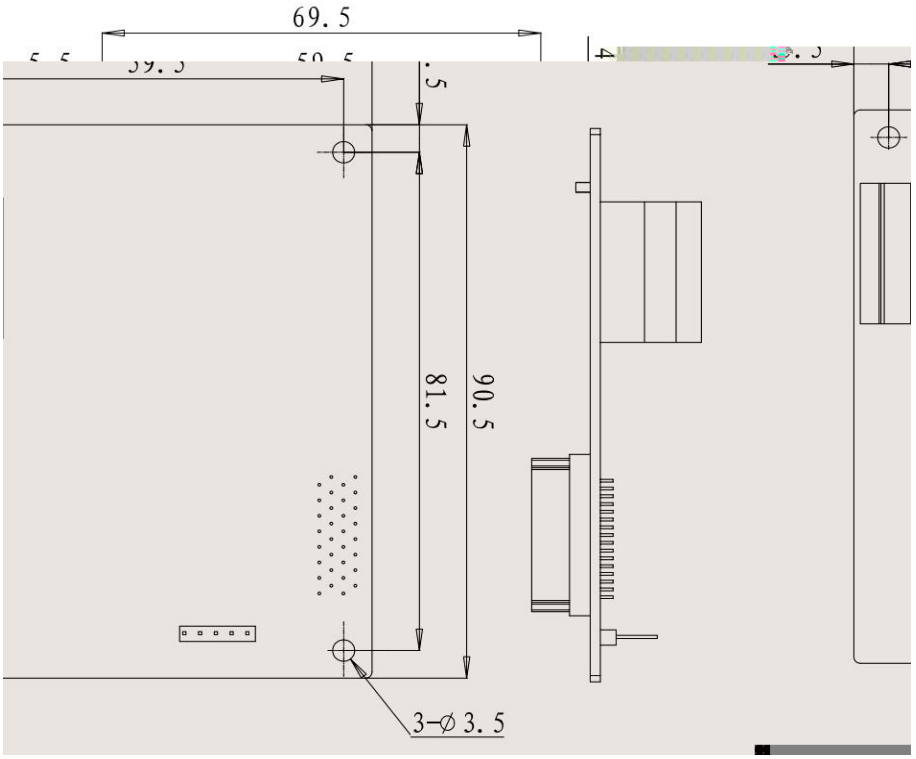


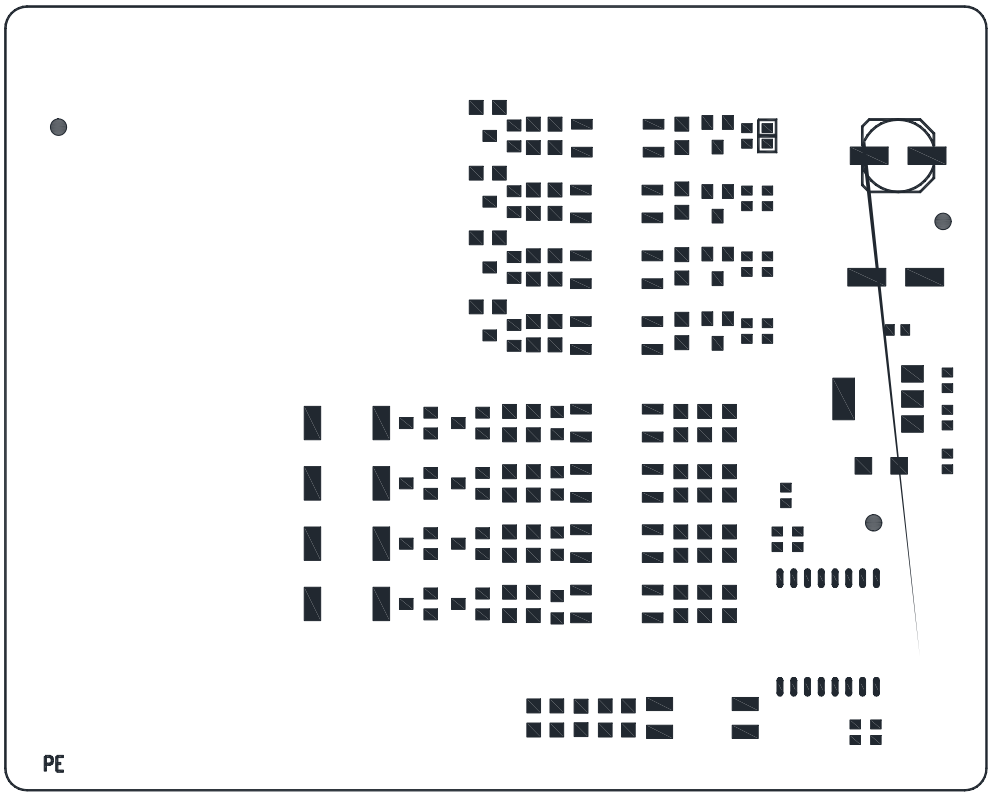

A

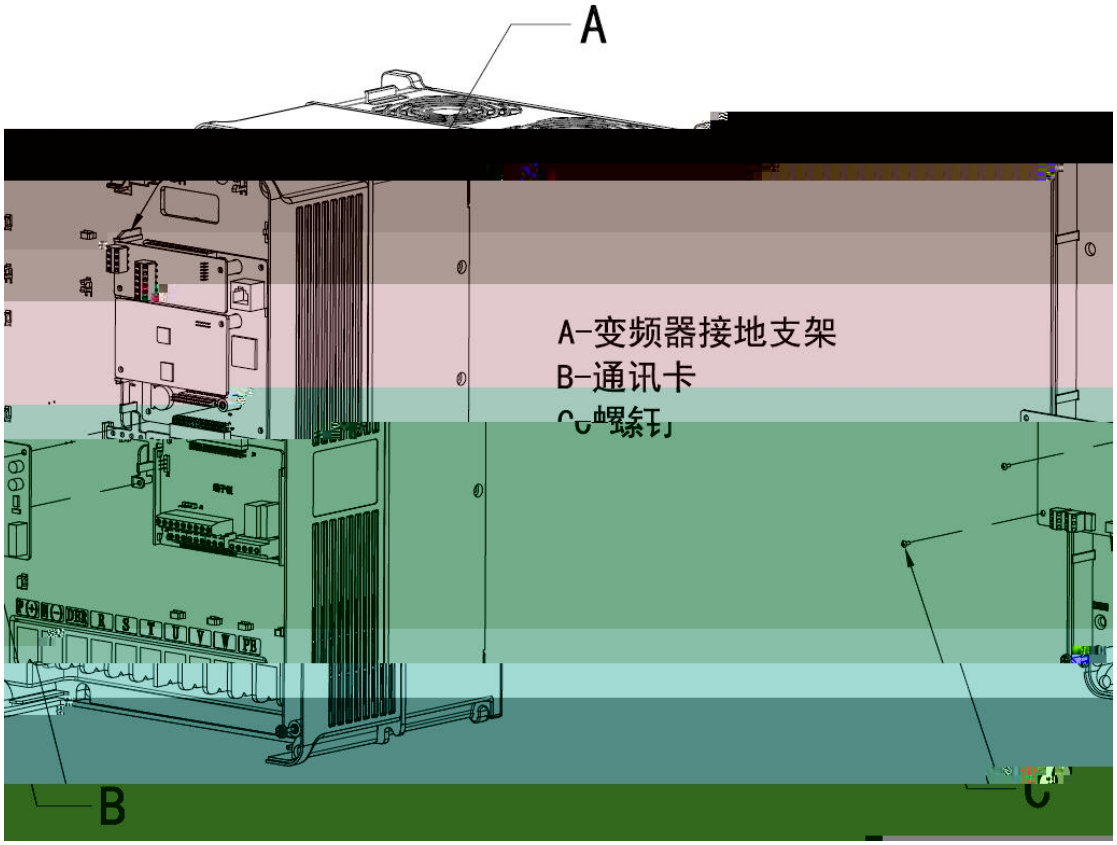


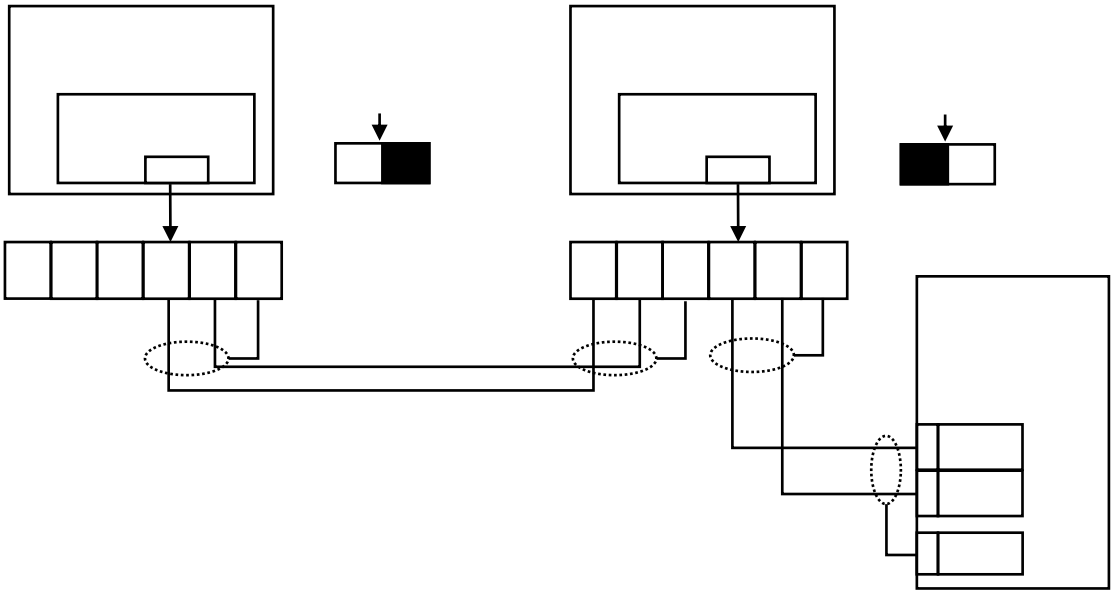


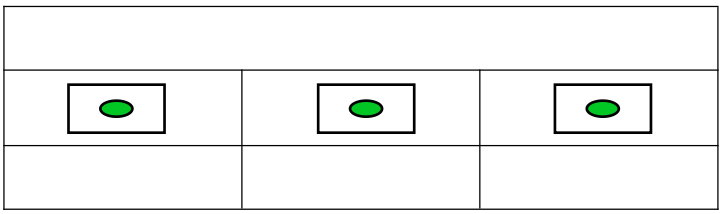


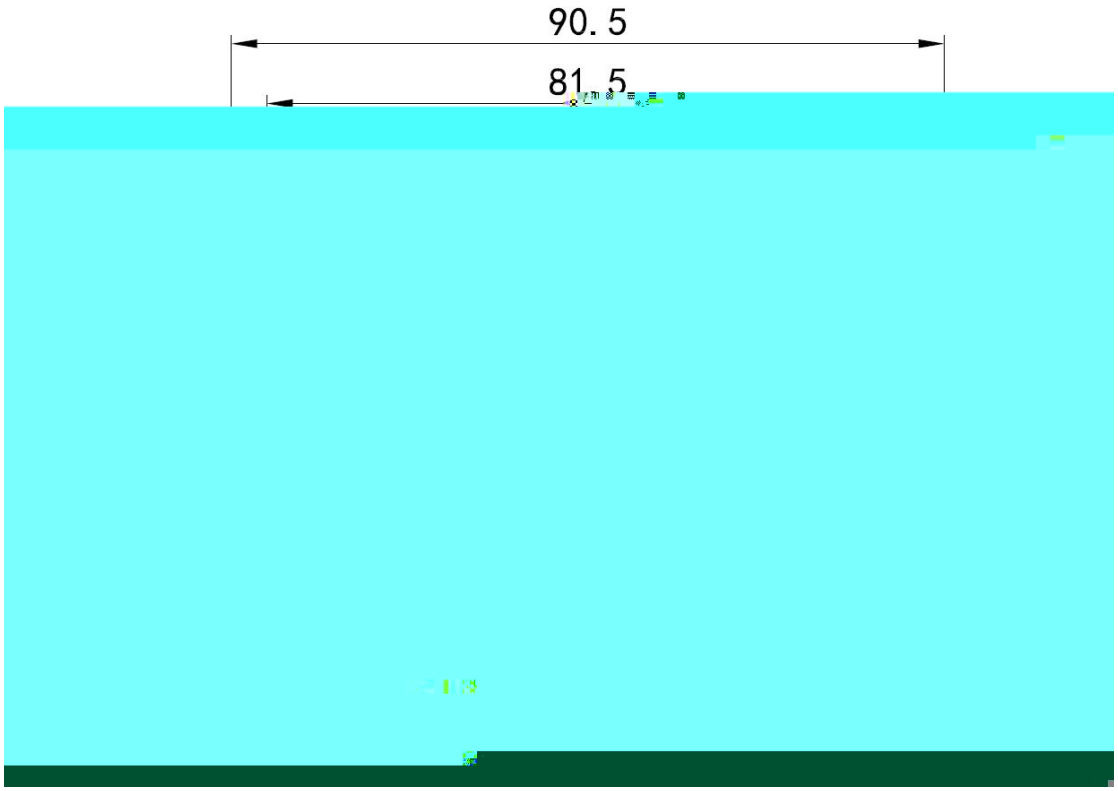

69.5
81.5
90.5
3-Ø3.5


PE


A
A-变频器接地支架
B-通讯卡
C-螺钉
B
C






90. 5
81. 5