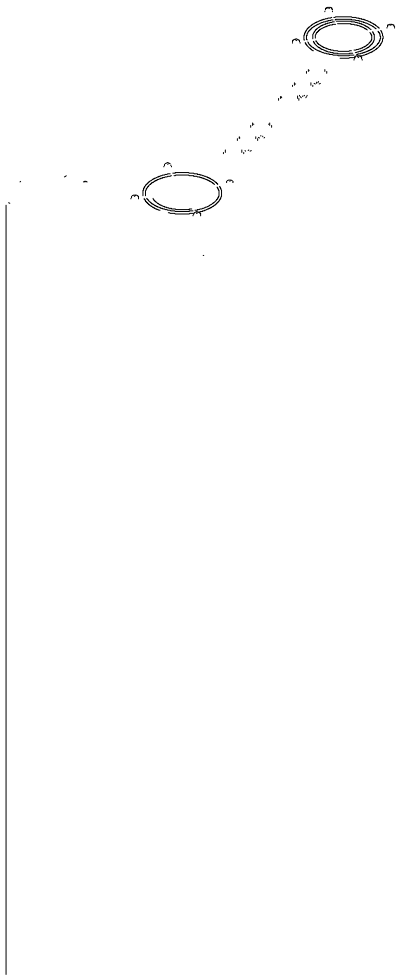
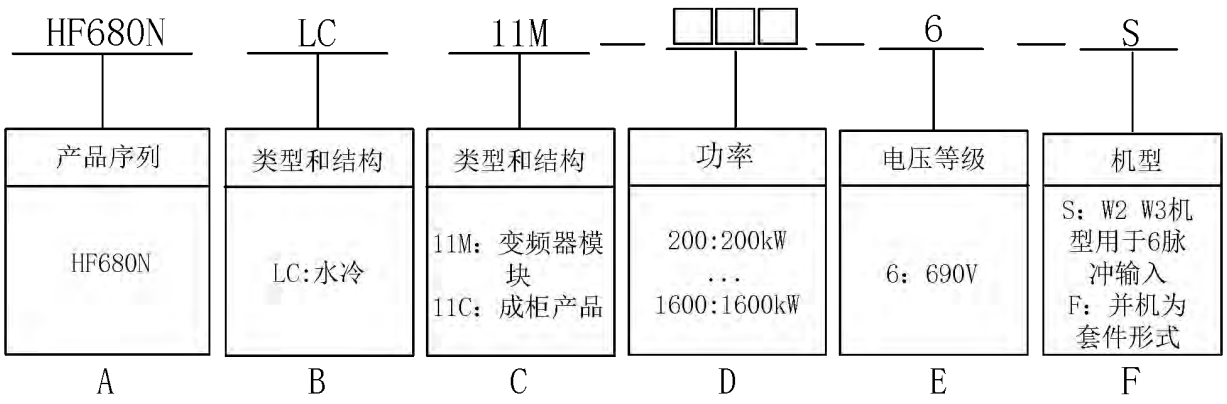
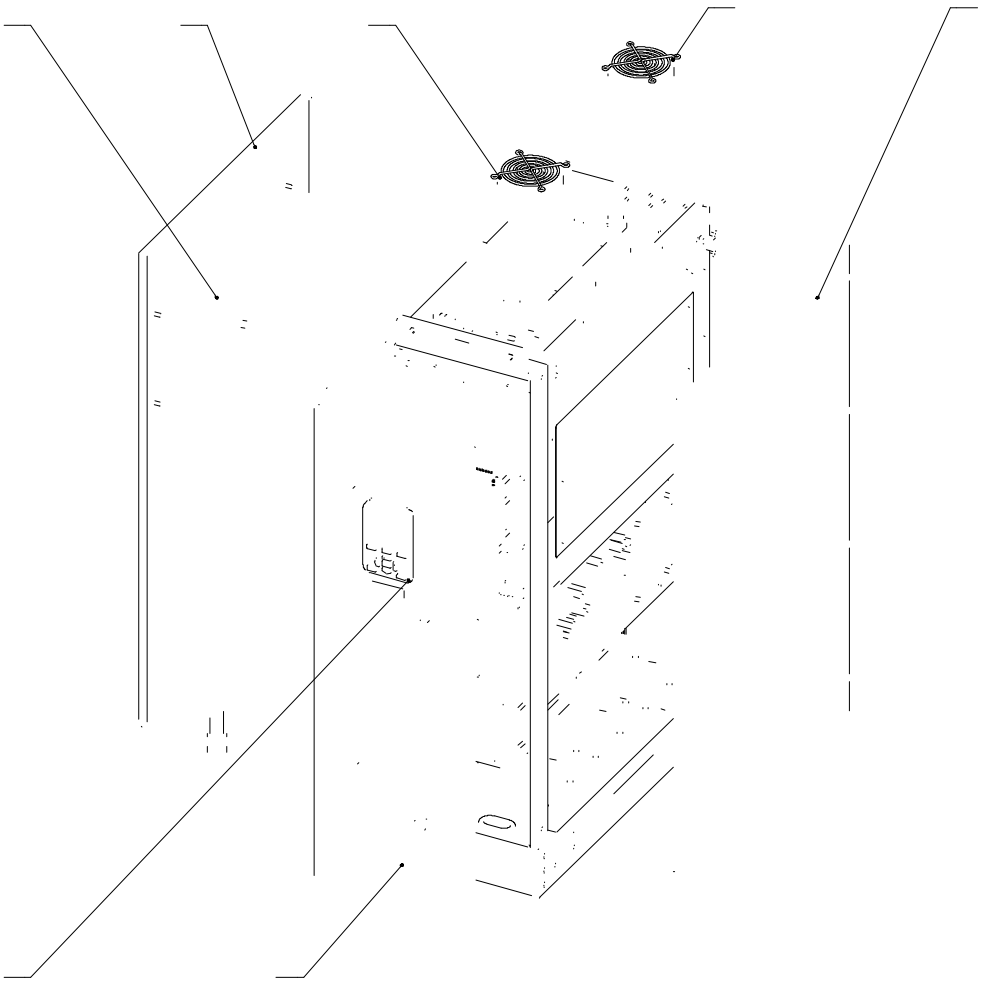
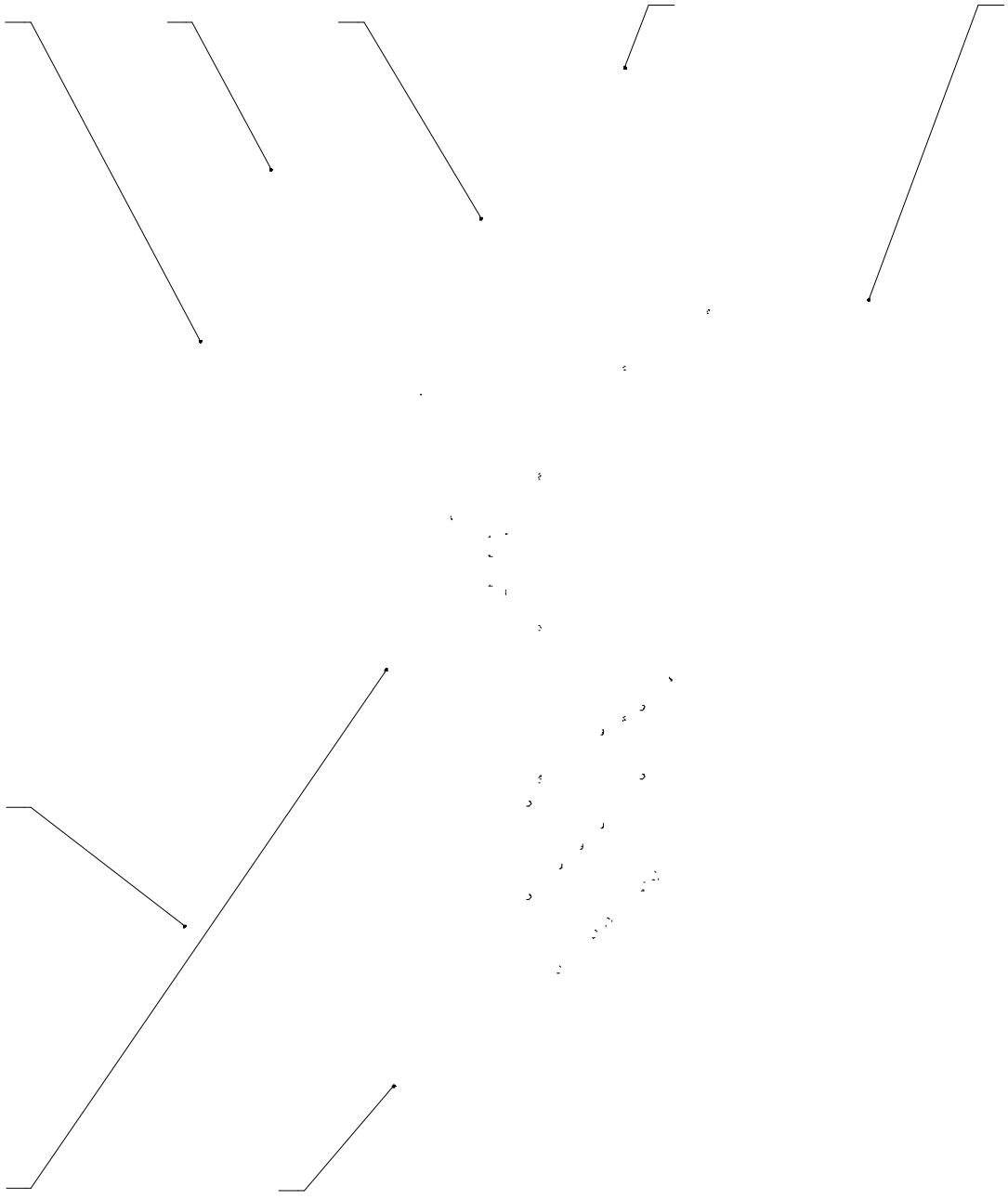
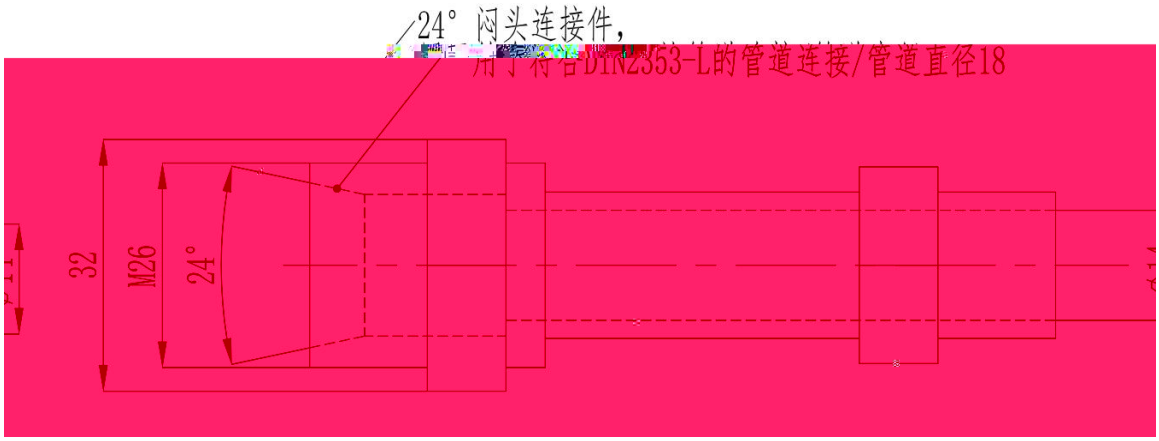
GUIDE



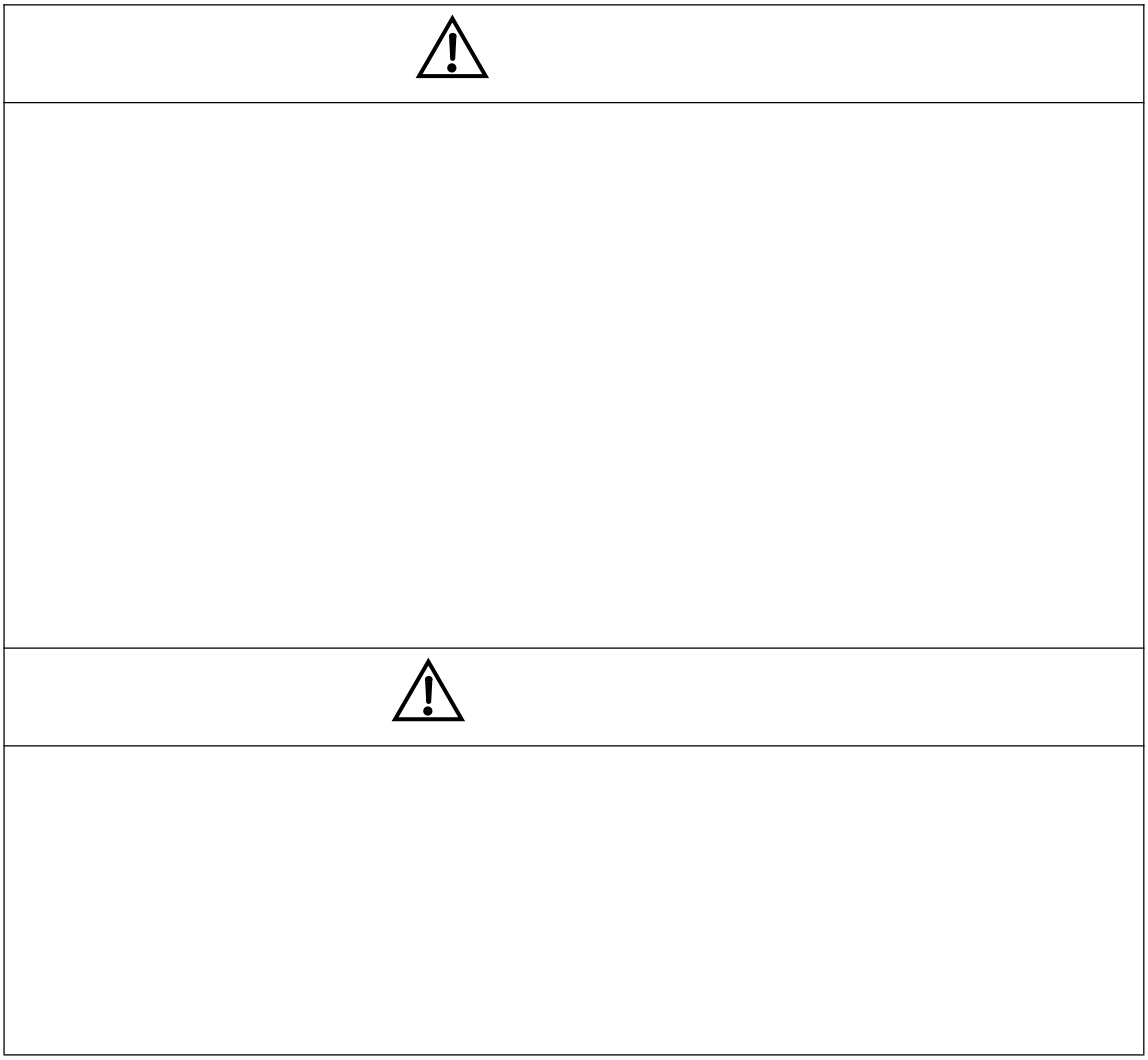

HF680N
LC
11M
□□□
6
S
产品序列
HF680N
类型和结构
LC:水冷
类型和结构
11M：变频器模块
11C：成柜产品
功率
200:200kW
...
1600:1600kW
电压等级
6：690V
机型
S：W2 W3机型用于6脉冲输入
F：并机为套件形式
A
B
C
D
E
F





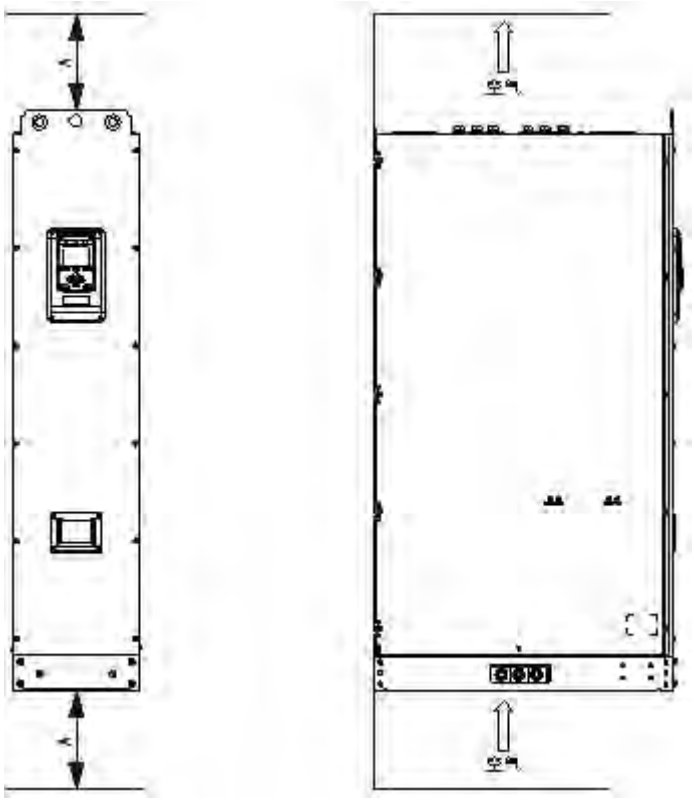

24° 闷头连接件，
32
M26
24°

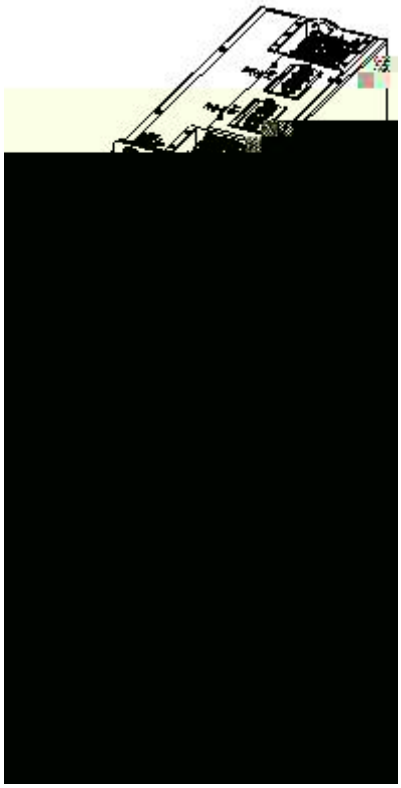
	● ● ● ●
	● ● ●
	● ● ●
	● ●

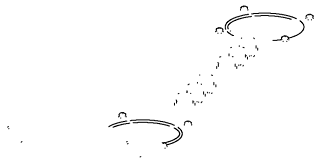


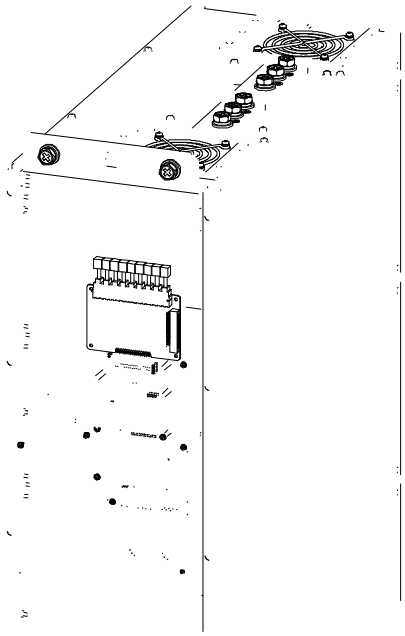
-
-
-
-
-
-

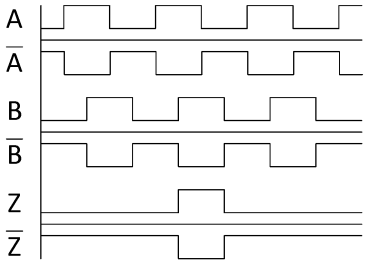
-
-
-
-
-
-
-
-
-

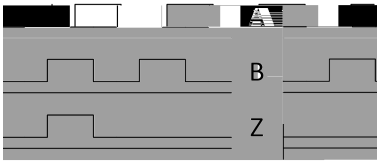


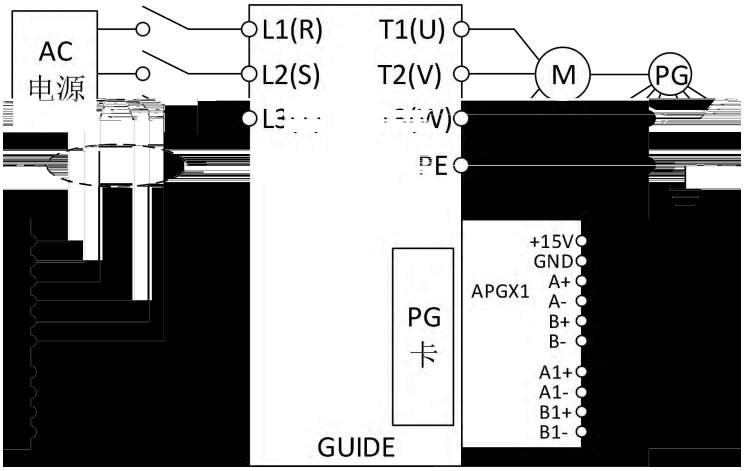


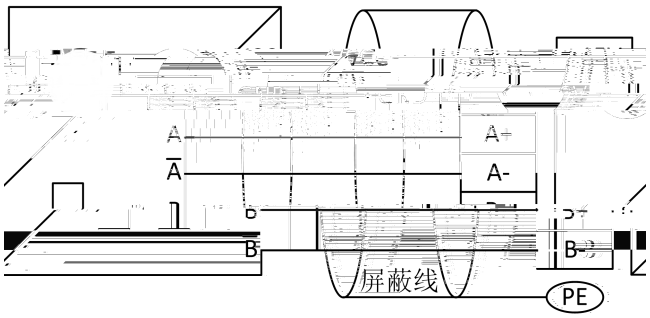


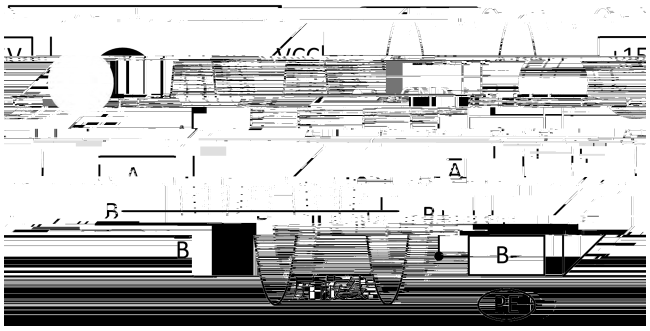


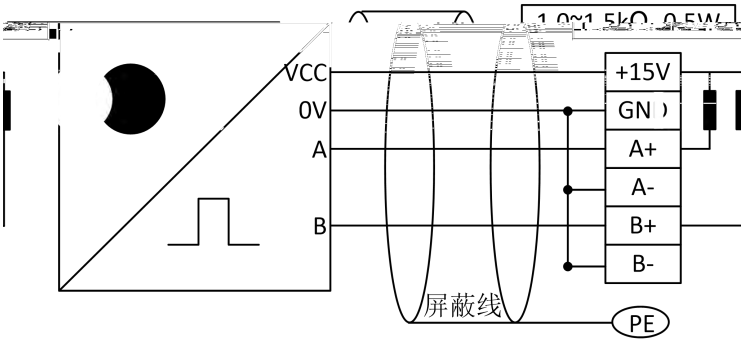

A
$\overline{A}$
B
$\overline{B}$
Z
$\overline{Z}$

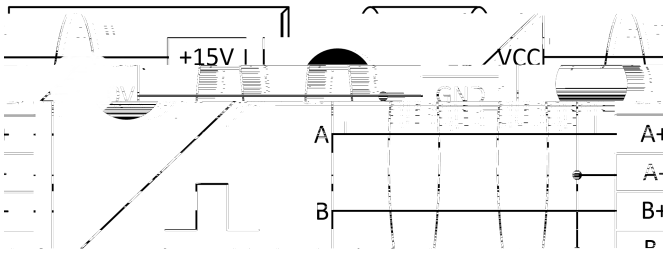

A
B
Z

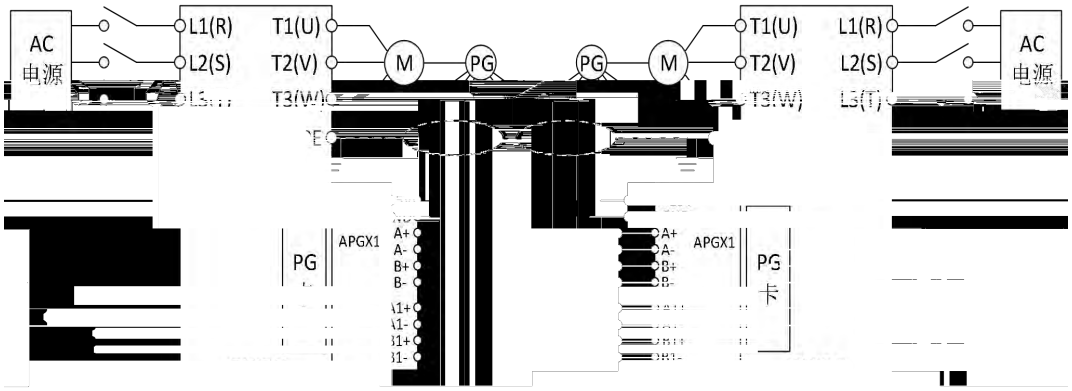

AC
电源
L1(R)
L2(S)
T1(U)
T2(V)
M
PG
PE
+15V
GND
A+
A-
B+
B-
A1+
A1-
B1+
B1-
APGX1
PG
卡
GUIDE

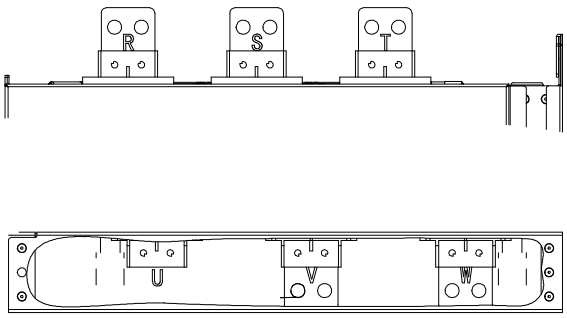

A
A
B
B
A+
A-
B+
B-
屏蔽线
PE

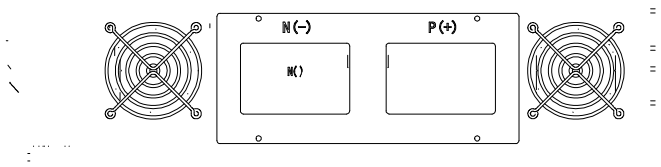

B-


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

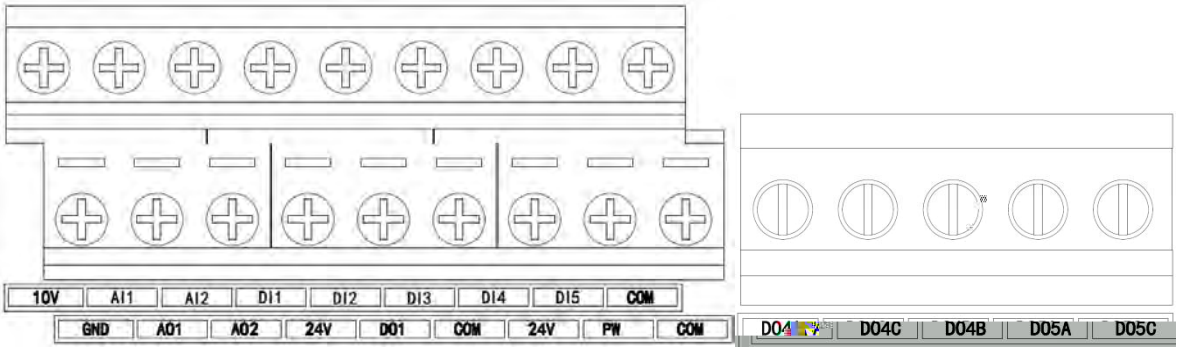

+15V
VCC
A
A+
A-
B
B+

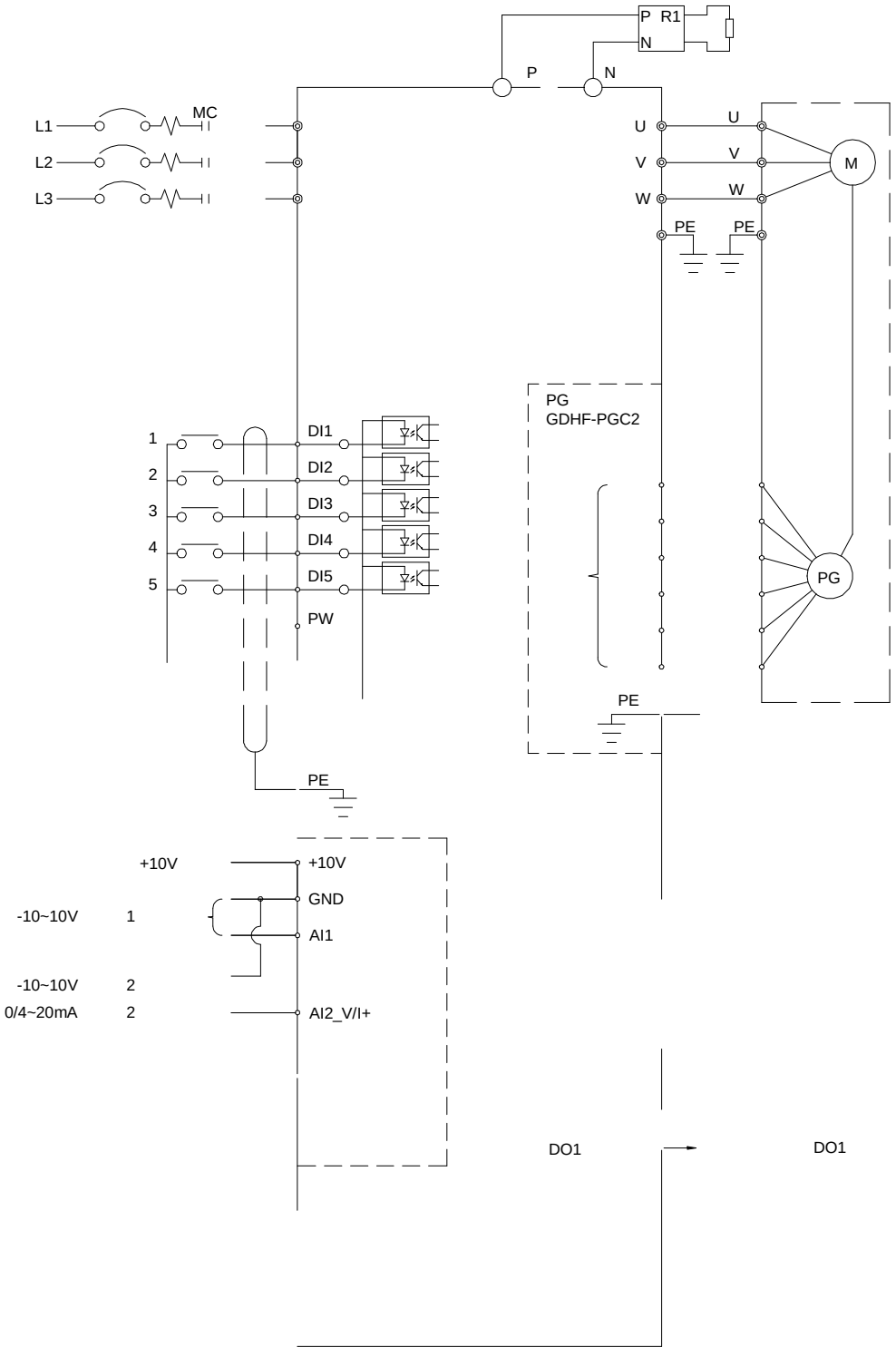

AC
电源
L1(R)
L2(S)
T1(U)
T2(V)
T3(W)
M
PG
PG
M
T1(U)
T2(V)
T3(W)
L1(R)
L2(S)
L3(T)
AC
电源
PG
APGX1
A+
A-
B+
B-
APGX1
PG
卡

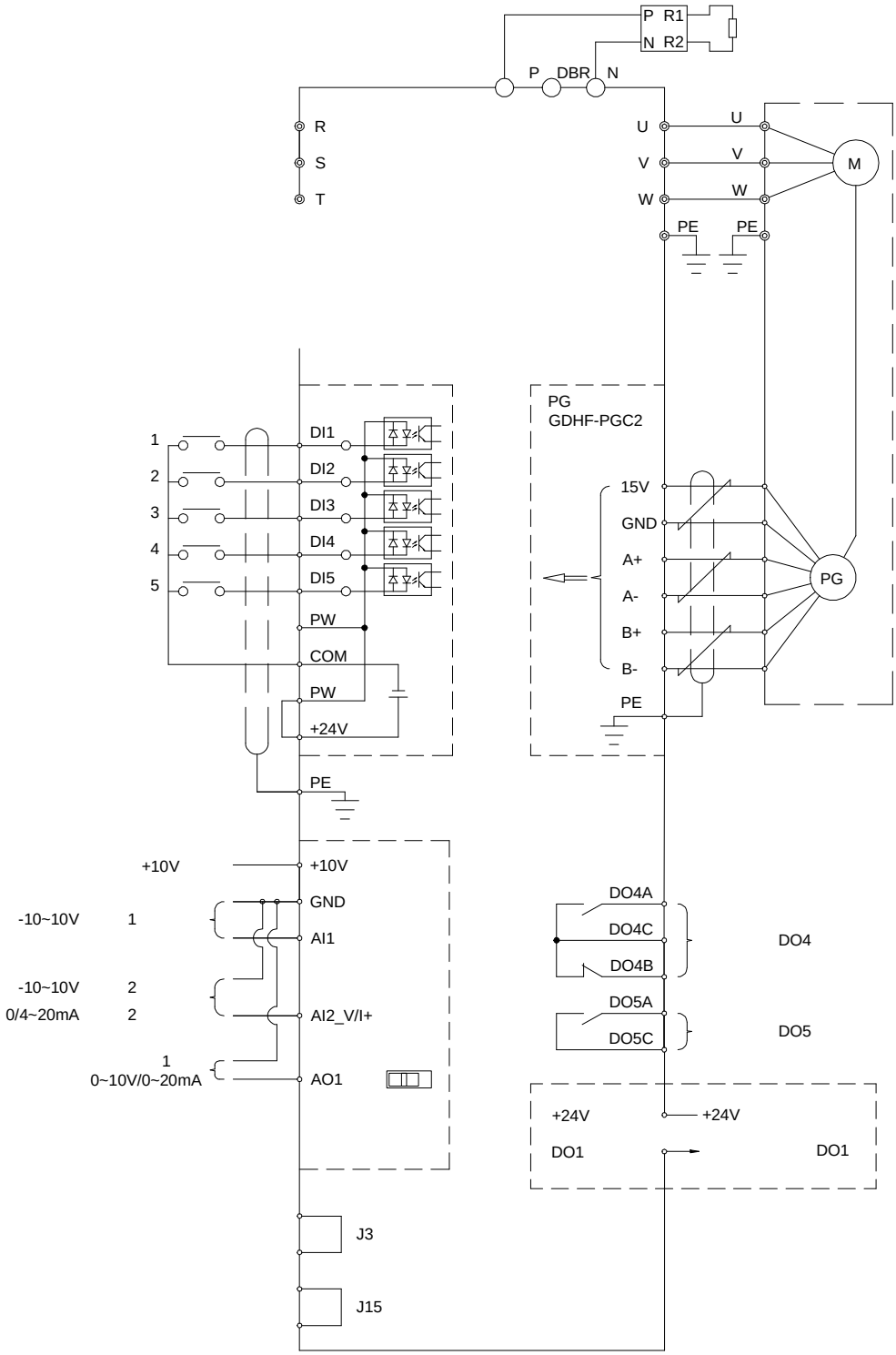

R
S
T
U
V
W

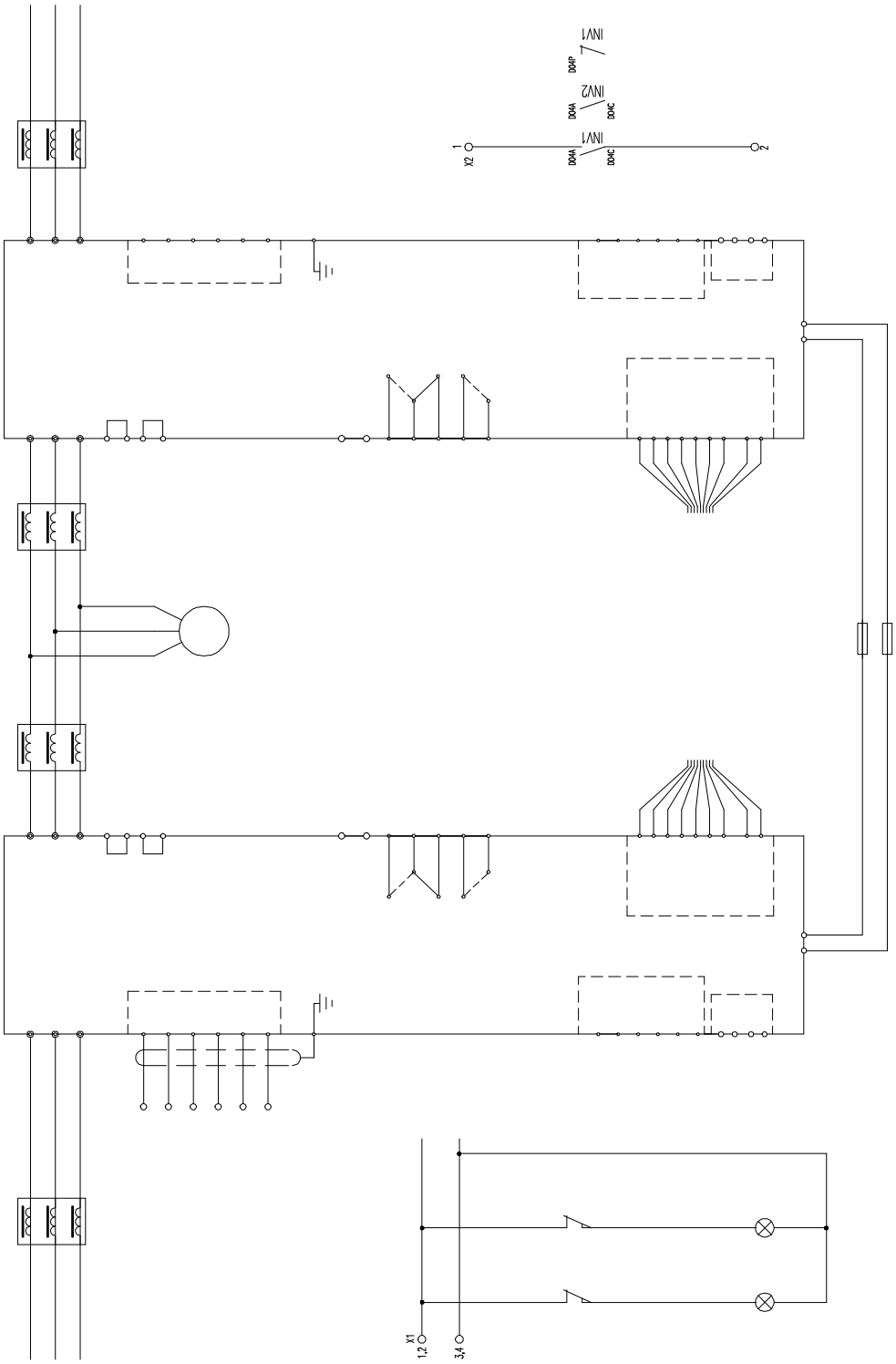

N(–)
P(+)
N( )

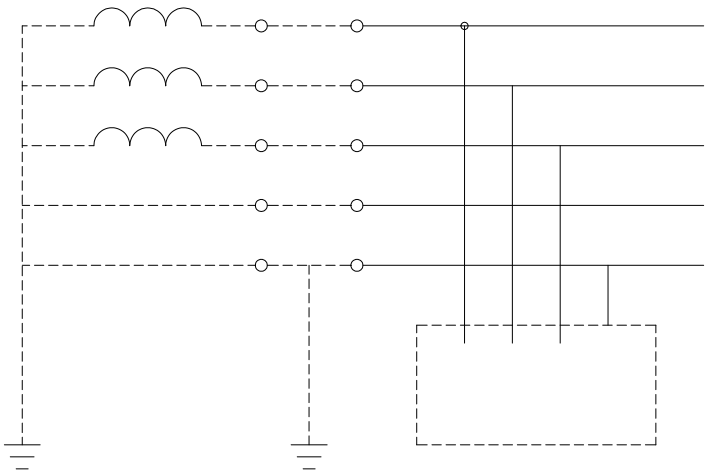
⏚	

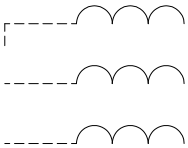

10V
AI1
AI2
DI1
DI2
DI3
DI4
DI5
COM
GND
AO1
AO2
24V
DO1
COM
24V
PW
COM
DO4C
DO4B
DO5A
DO5C

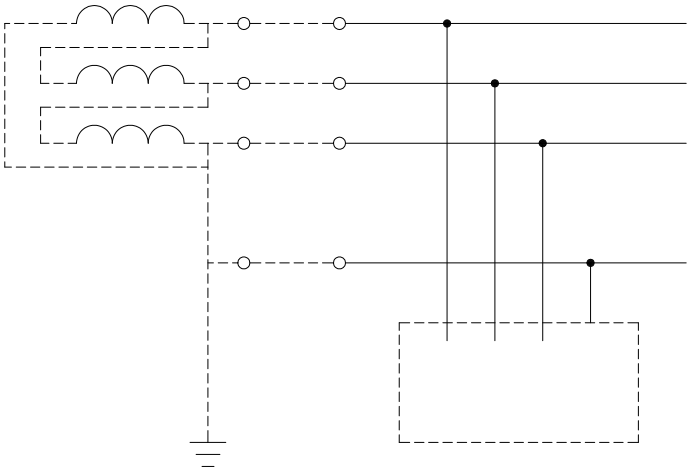

P R1
N
P
N
L1
L2
L3
MC
U
V
W
PE
PE
M
PG
GDHF-PGC2
1
2
3
4
5
DI1
DI2
DI3
DI4
DI5
PW
PG
PE
PE
+10V
+10V
GND
-10~10V
1
AI1
-10~10V
2
0/4~20mA
2
AI2_V/I+
DO1
DO1

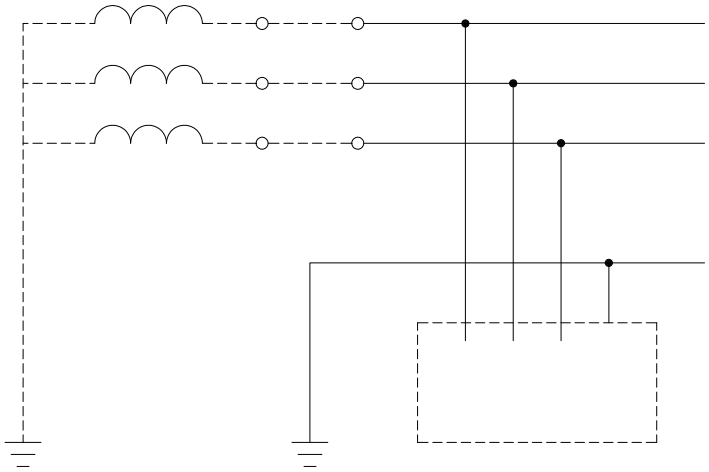

P R1
N R2
P DBR N
R
S
T
U
V
W
PE
U
V
W
PE
M
PG
GDHF-PGC2
15V
GND
A+
A-
B+
B-
PE
PG
1
2
3
4
5
DI1
DI2
DI3
DI4
DI5
PW
COM
PW
+24V
PE
+10V
+10V
GND
-10~10V
1
AI1
-10~10V
2
0/4~20mA
2
AI2_V/I+
1
0~10V/0~20mA
AO1
DO4A
DO4C
DO4B
DO4
DO5A
DO5C
DO5
+24V
+24V
DO1
DO1
J3
J15

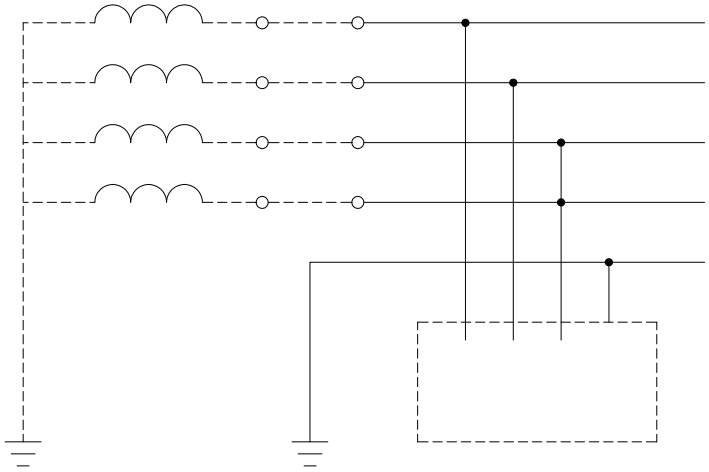

INV1
DO4P
INV2
DO4A
DO4C
INV1
DO4A
DO4C
X2
1
2
X1
1,2
3,4

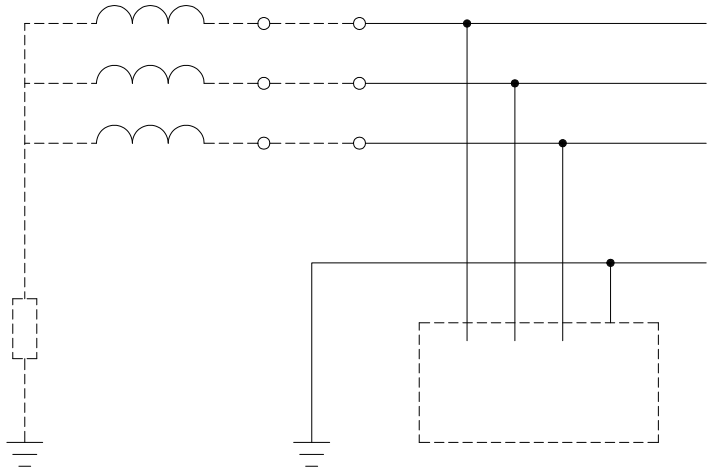


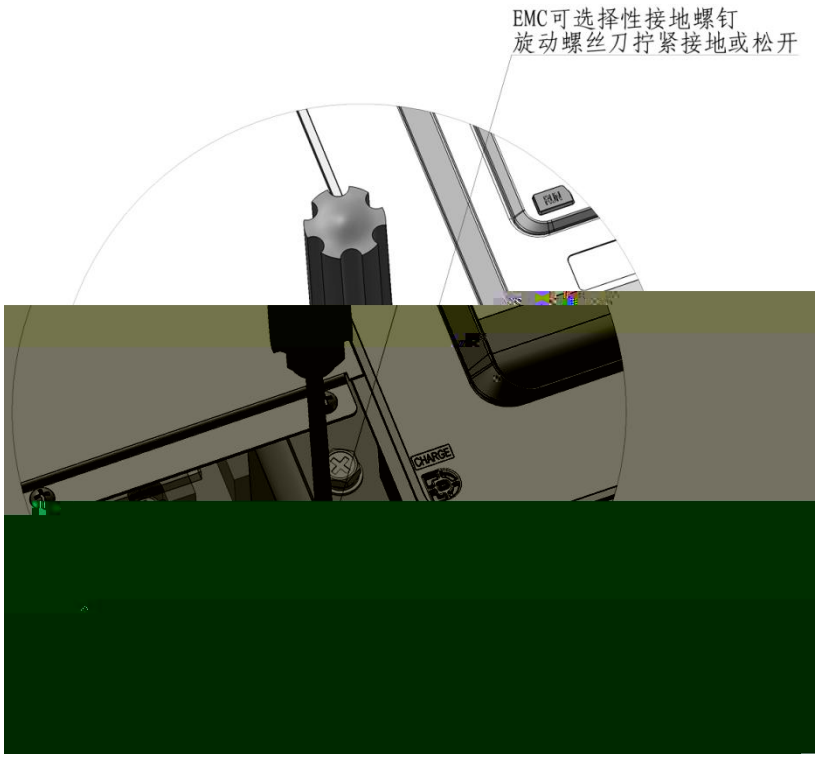




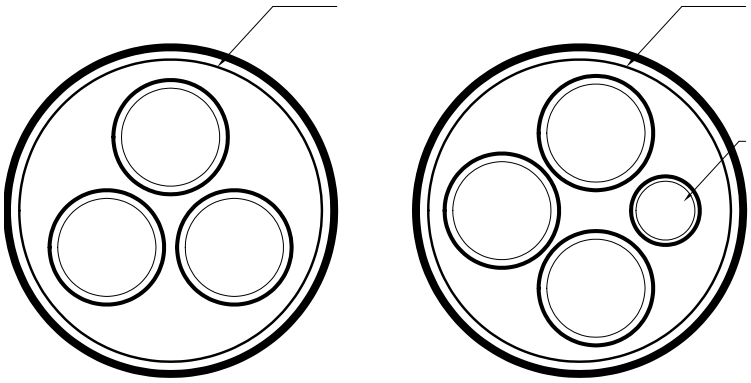


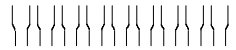


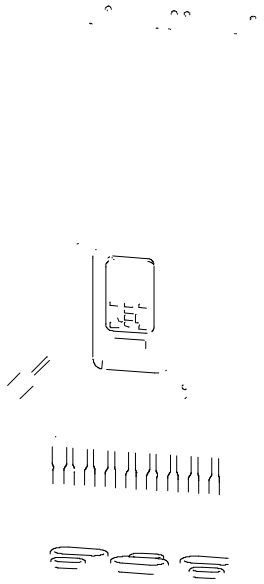


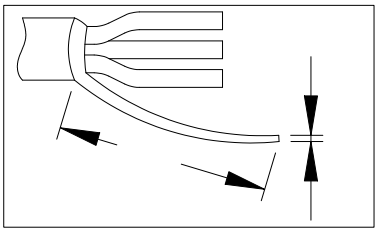

EMC可选择性接地螺钉
旋动螺丝刀拧紧接地或松开
CHARGE

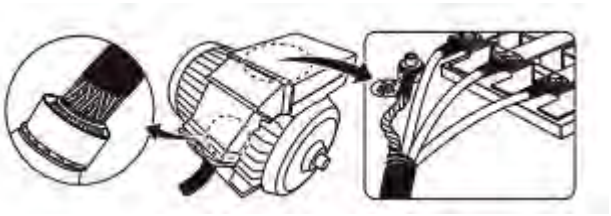
-
-
-
-

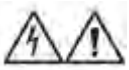


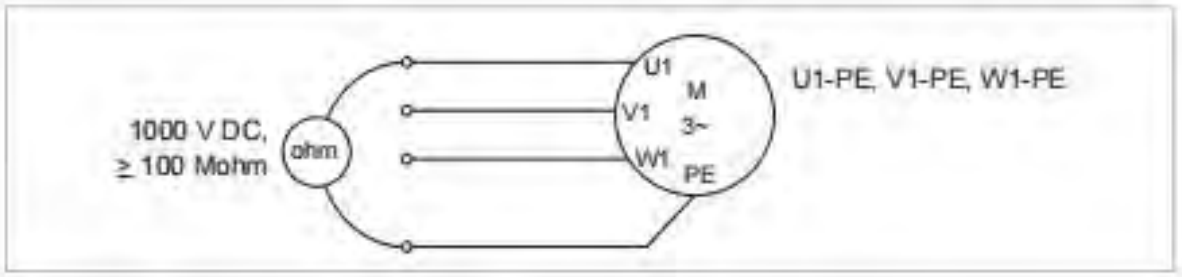


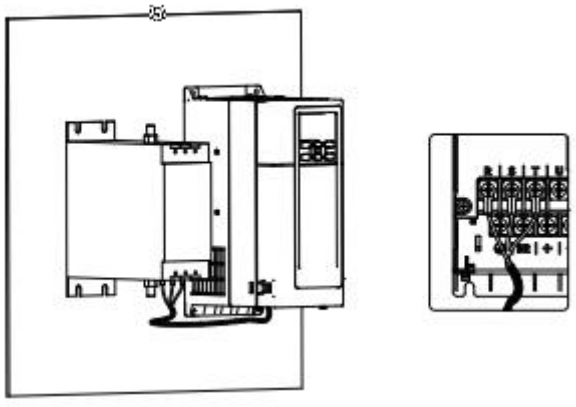


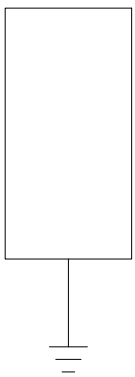


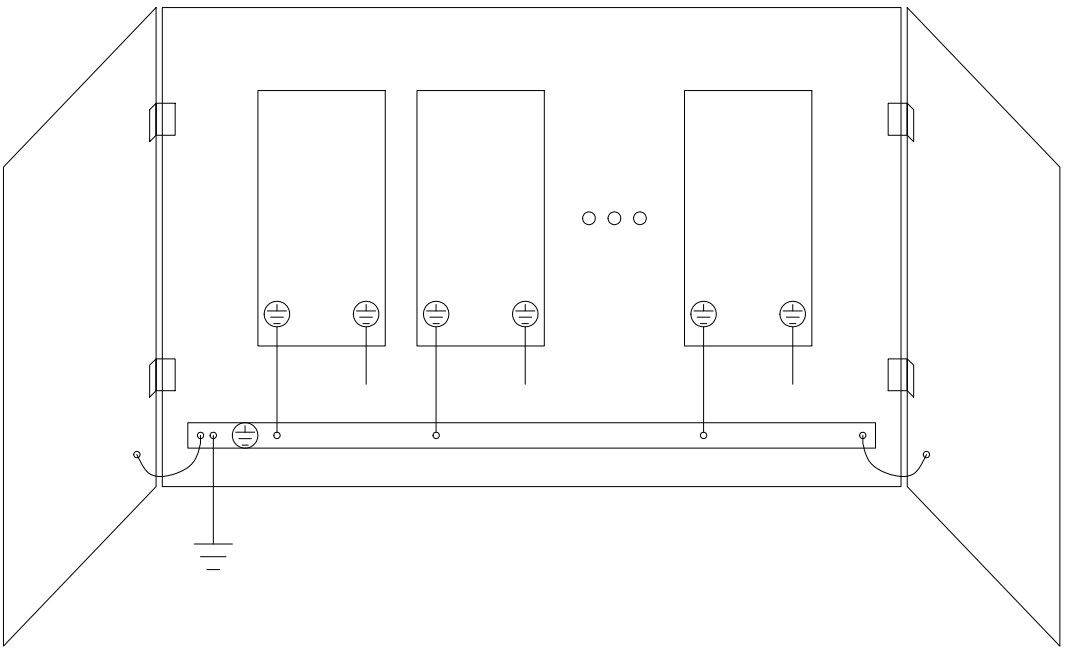


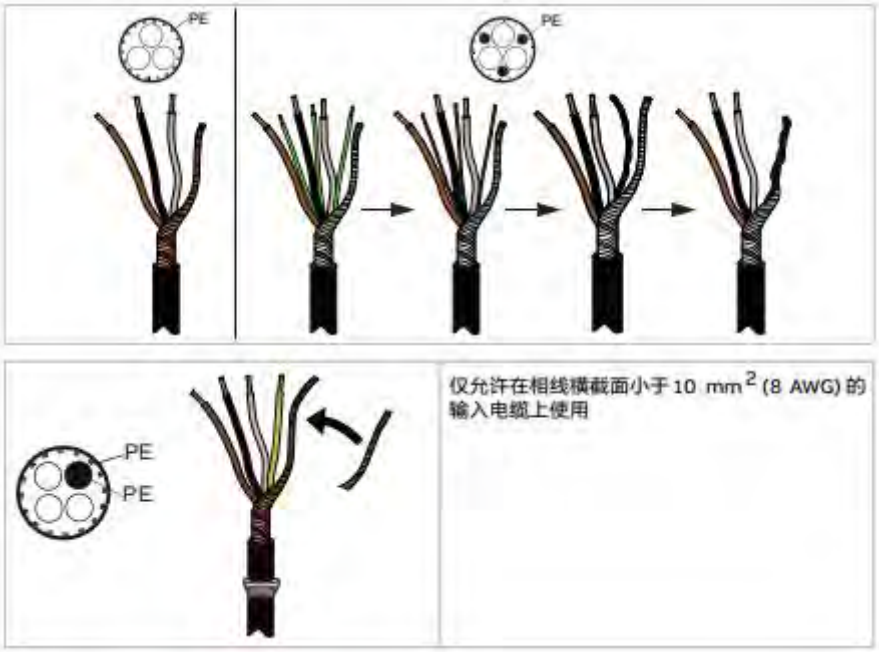


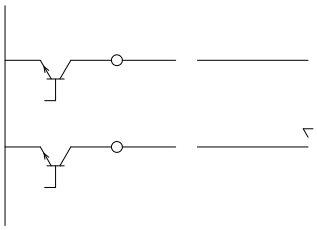

1000 V DC,
≥ 100 Mohm
ohm
U1
V1
W1
M
3~
PE
U1-PE, V1-PE, W1-PE

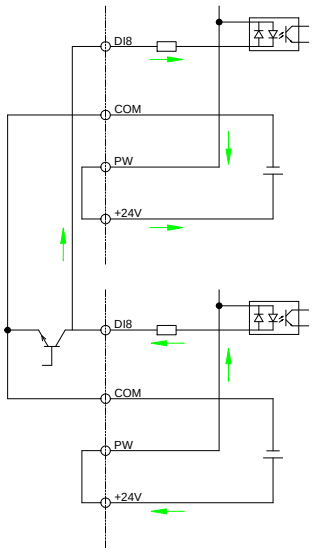


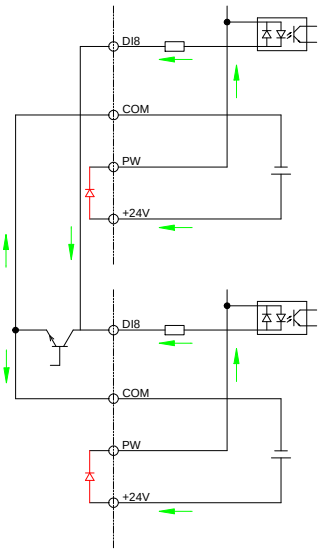


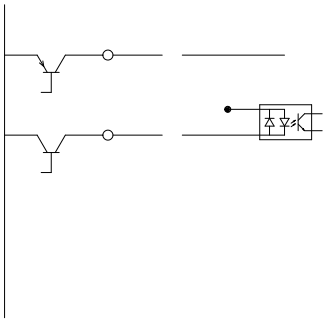


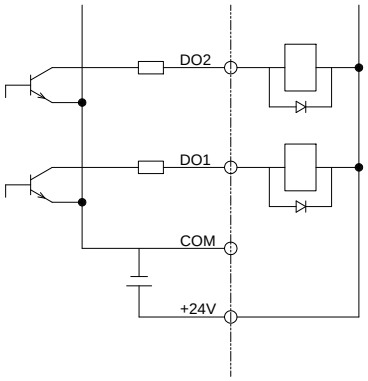

PE
PE
PE
PE
仅允许在相线横截面小于 10 mm² (8 AWG) 的输入电缆上使用

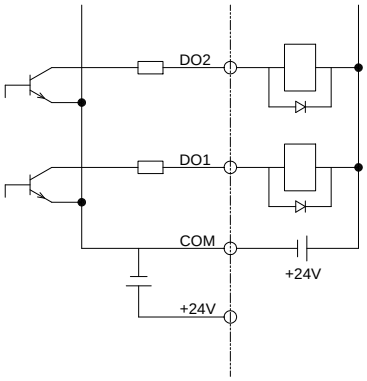


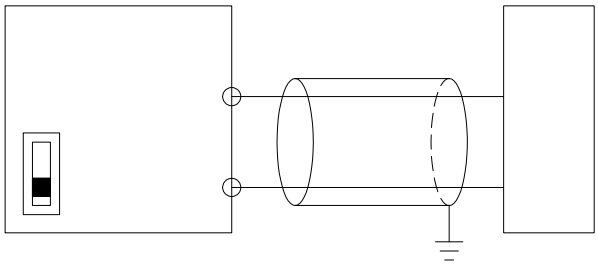

DI8
COM
PW
+24V
DI8
COM
PW
+24V

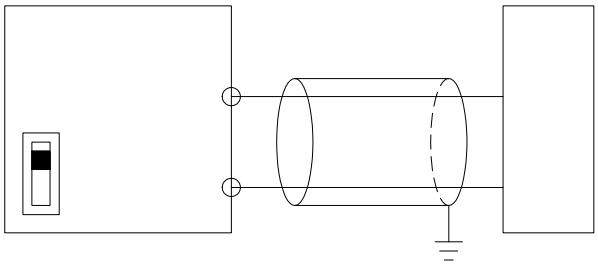

DI8
COM
PW
+24V
DI8
COM
PW
+24V

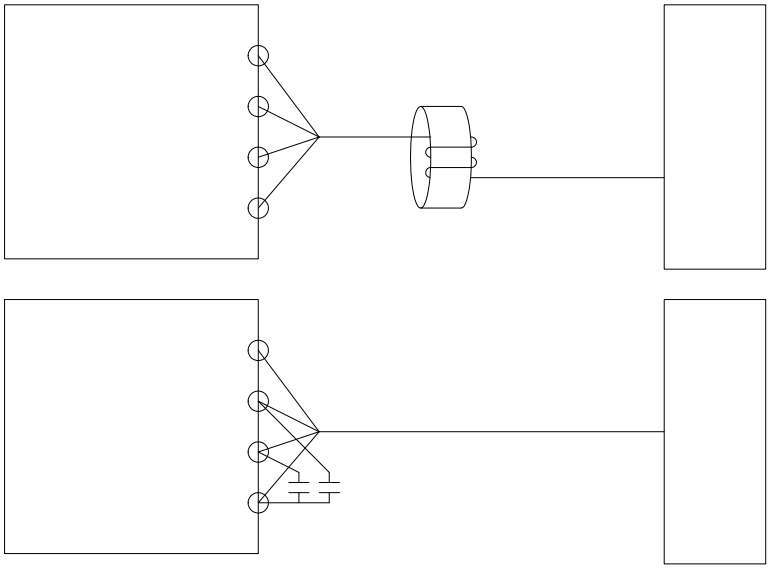


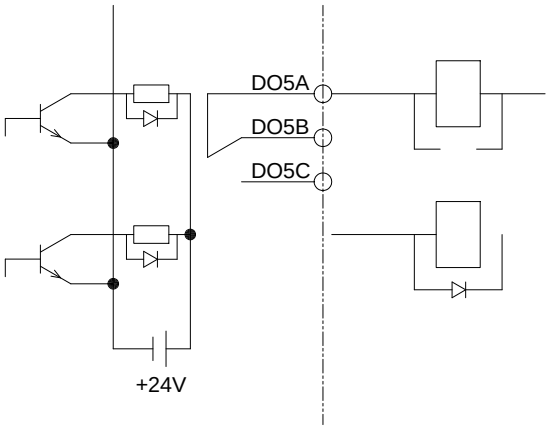

DO2
DO1
COM
+24V

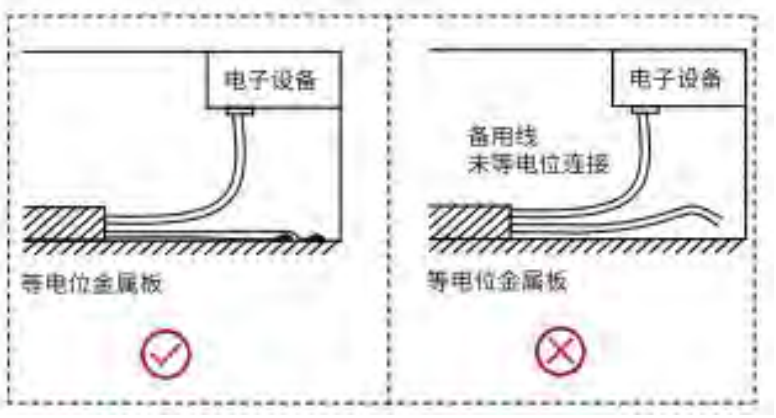

DO2
DO1
COM
+24V
+24V

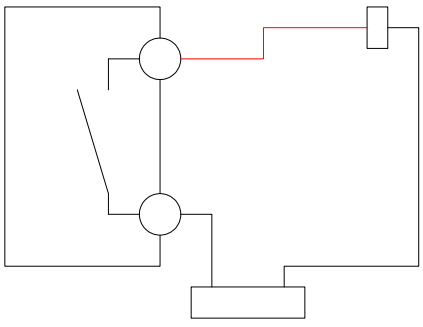


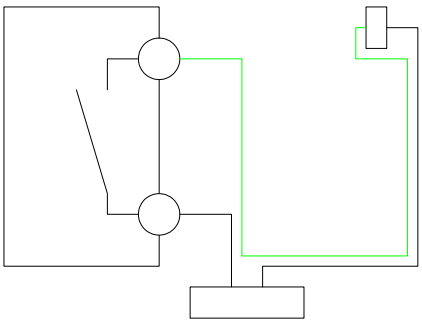


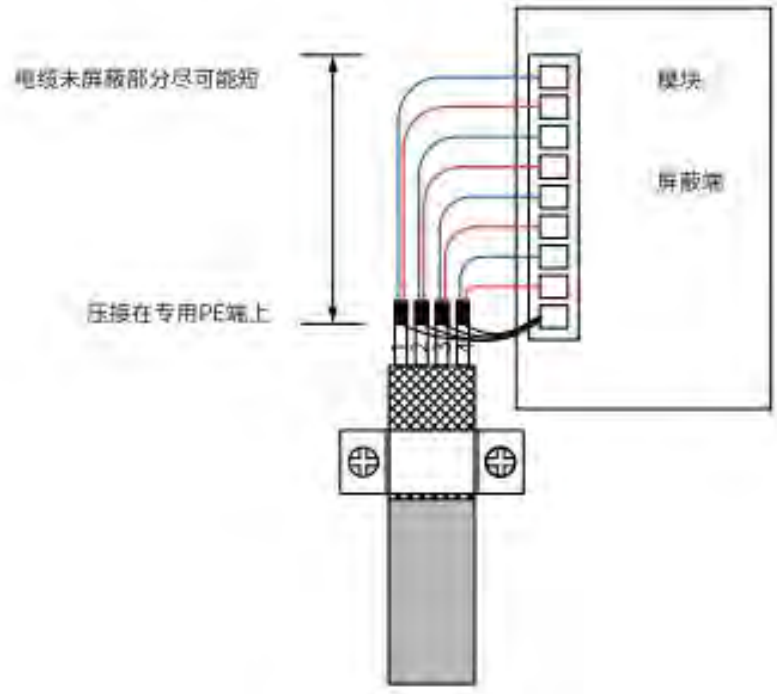


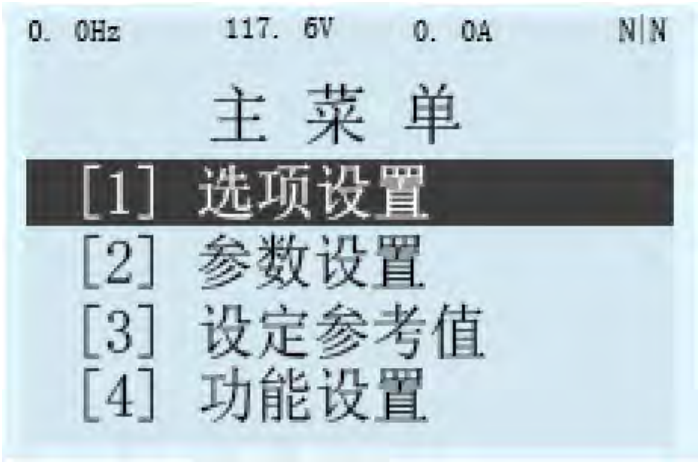

DO5A
DO5B
DO5C
+24V

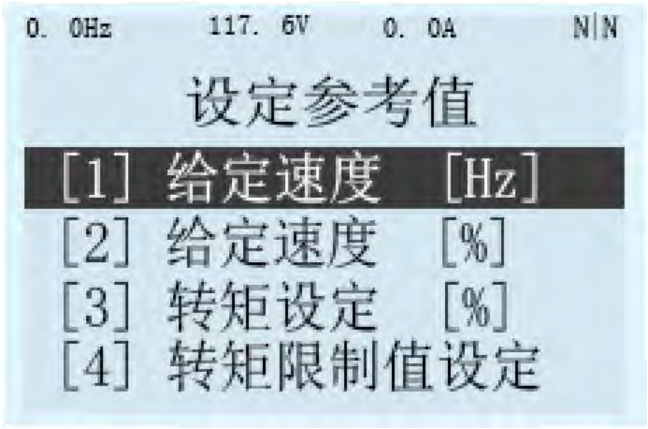

电子设备
等电位金属板
电子设备
备用线
未等电位连接
等电位金属板

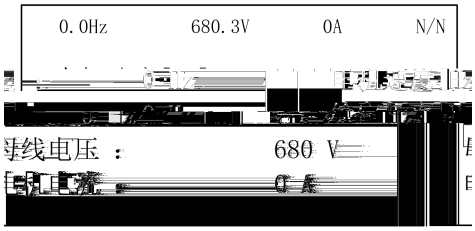


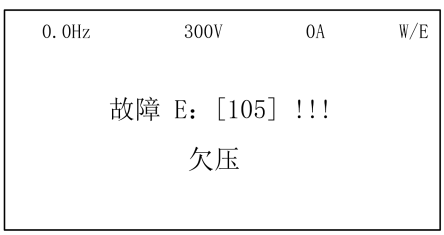


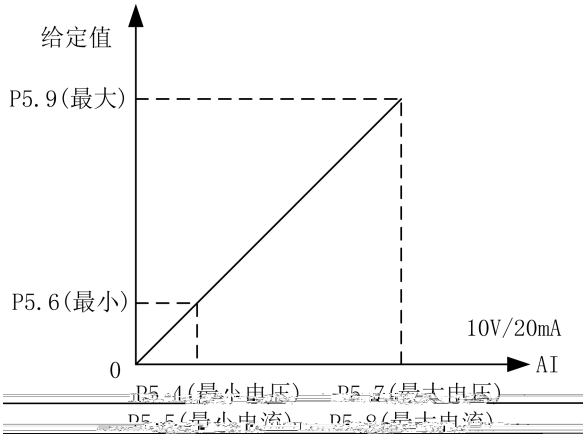

电缆未屏蔽部分尽可能短
压接在专用PE端上
模块
屏蔽端

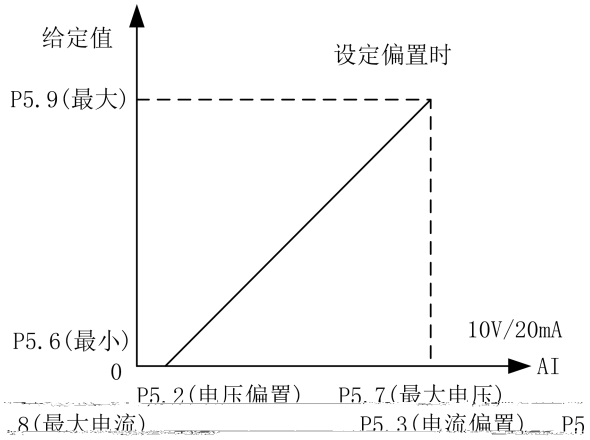

0. 0Hz
117. 6V
0. 0A
N|N
主 菜 单
[1] 选项设置
[2] 参数设置
[3] 设定参考值
[4] 功能设置

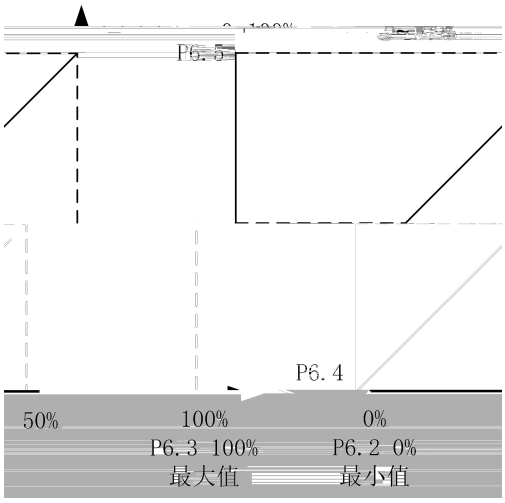

0. 0Hz
117. 6V
0. 0A
N|N
设定参考值
[1] 给定速度 [Hz]
[2] 给定速度 [%]
[3] 转矩设定 [%]
[4] 转矩限制值设定

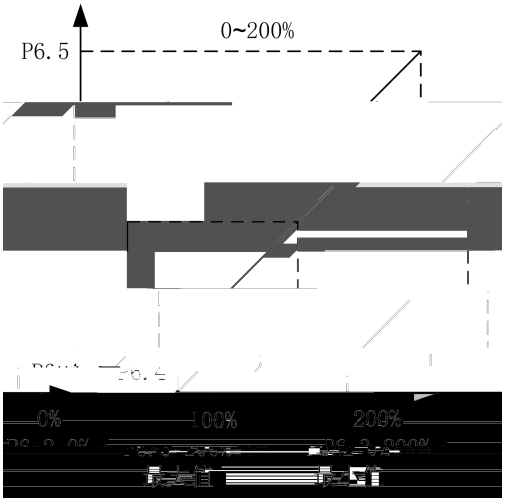

0.0Hz
680.3V
0A
N/N
680 V

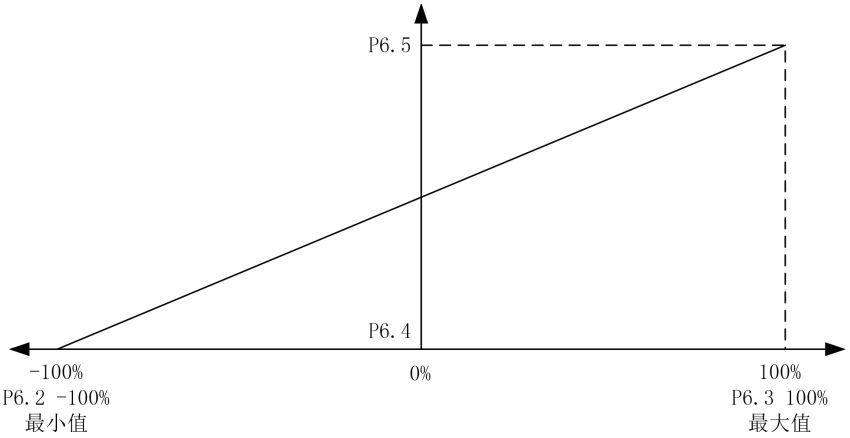

0.0Hz
300V
0A
W/E
故障 E:[105] !!!
欠压


给定值
P5.9(最大)
P5.6(最小)
10V/20mA
0
AI
P5.4(最小电压)
P5.7(最大电压)
P5.5(最小电流)
P5.8(最大电流)


给定值
设定偏置时
P5.9(最大)
P5.6(最小)
10V/20mA
0
AI
P5.2(电压偏置)
P5.7(最大电压)
8(最大电流)
P5.3(电流偏置)
P5

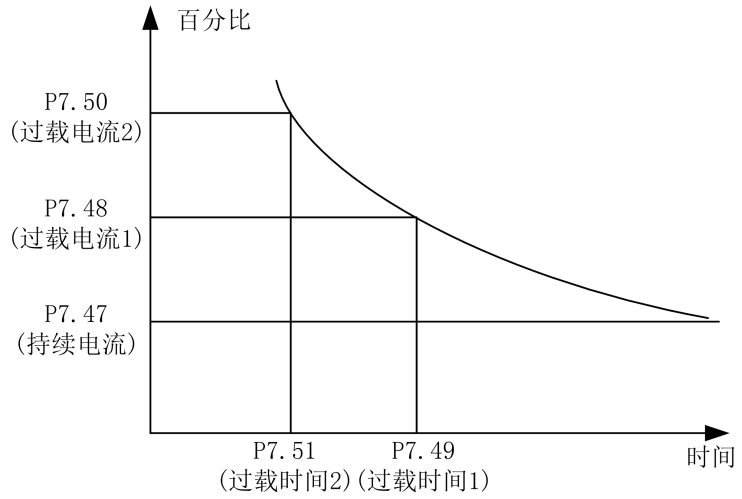

P6.5
P6.4
50%
100%
P6.3 100%
最大值
0%
P6.2 0%
最小值


0~200%
P6.5
0%
100%
200%


P6.5
P6.4
-100%
P6.2 -100%
最小值
0%
100%
P6.3 100%
最大值

$$I_a + I_b + I_c$$

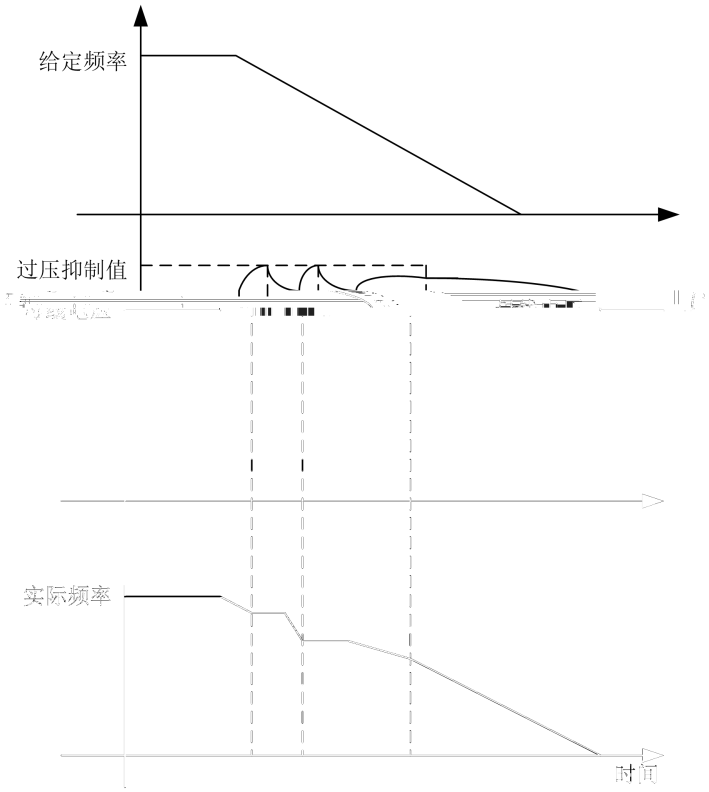
$$\frac{(I_a + I_b + I_c)}{3} > P7.8 \quad P16.4 \quad 1.414$$

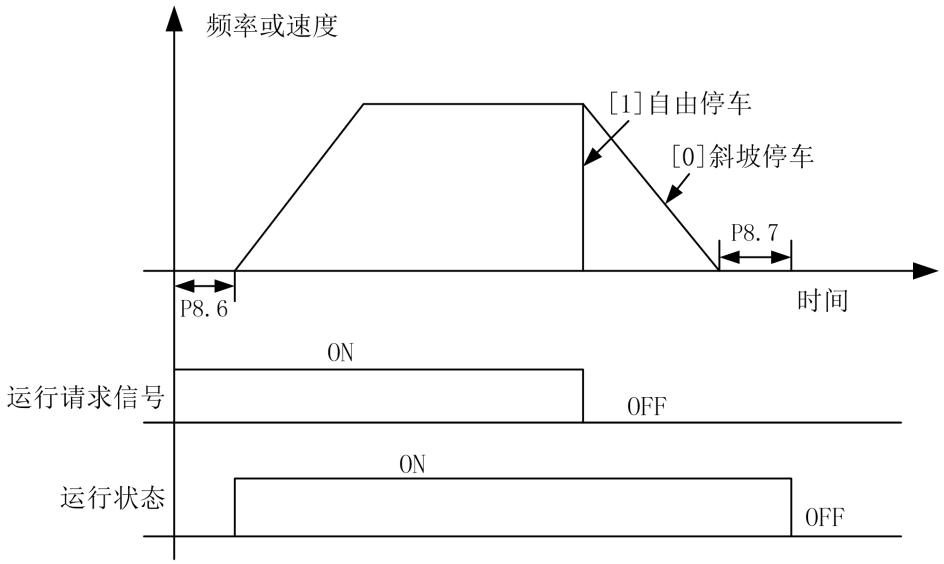

百分比
P7.50
(过载电流2)
P7.48
(过载电流1)
P7.47
(持续电流)
P7.51
(过载时间2)
P7.49
(过载时间1)
时间

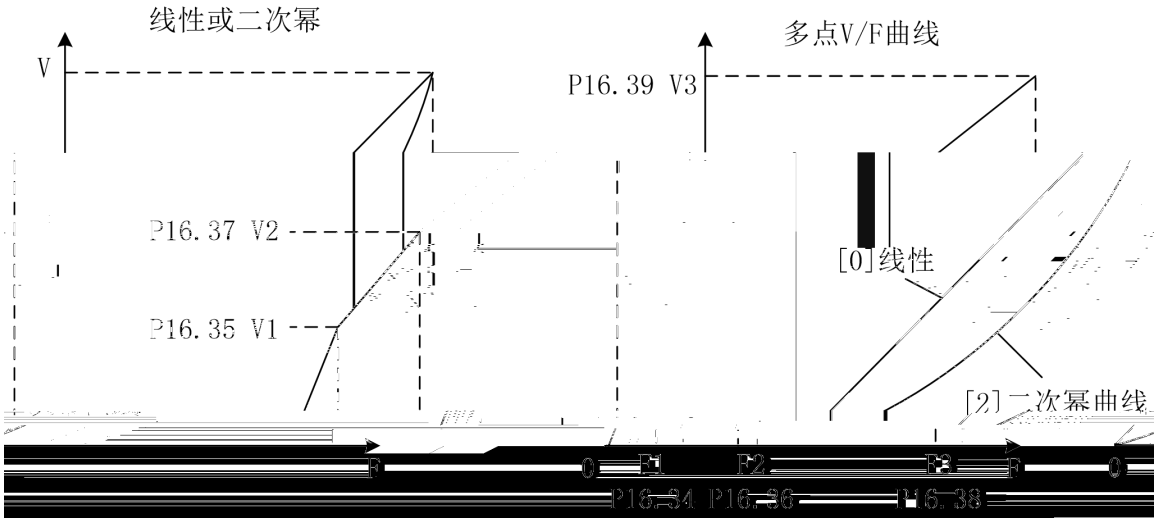
1.075 $\sqrt{2}$ P16.0 + 20 + P7.65

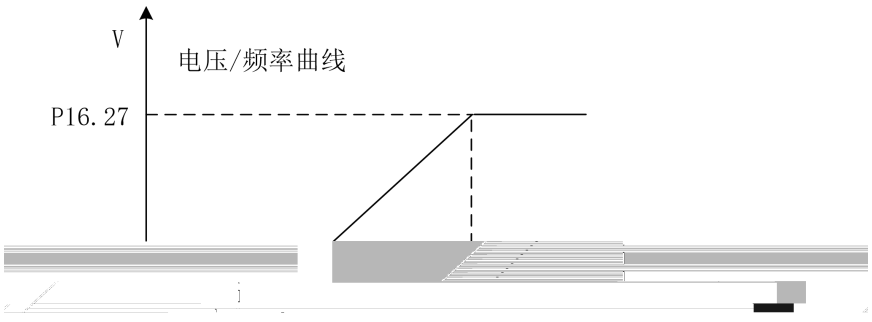
1.075 $\sqrt{2}$ P16.0 + 20 + P7.66

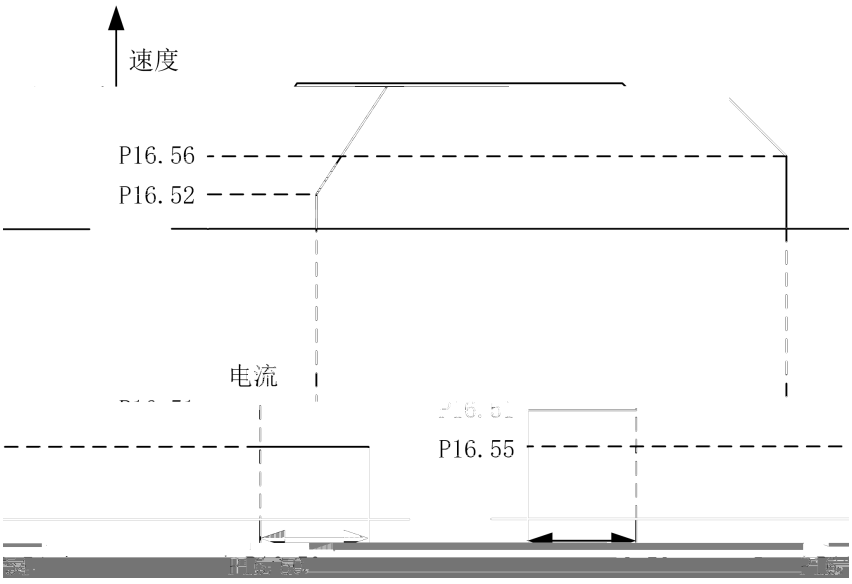
1.1 $\sqrt{2}$ P16.0 + 20 + P7.70

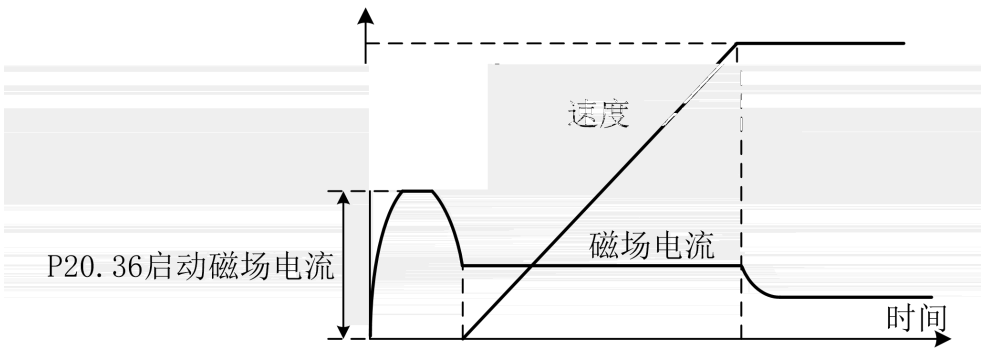


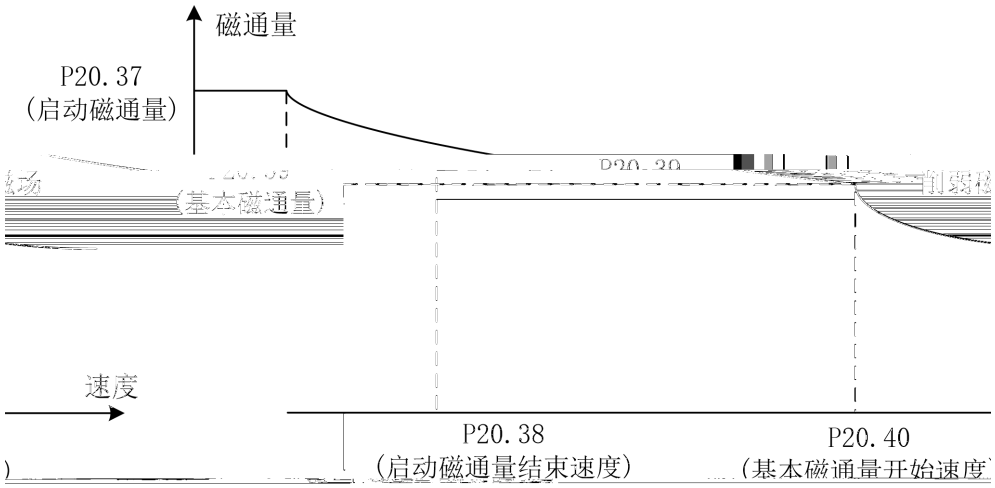

频率或速度
[1]自由停车
[0]斜坡停车
P8.7
P8.6
时间
ON
运行请求信号
OFF
ON
运行状态
OFF

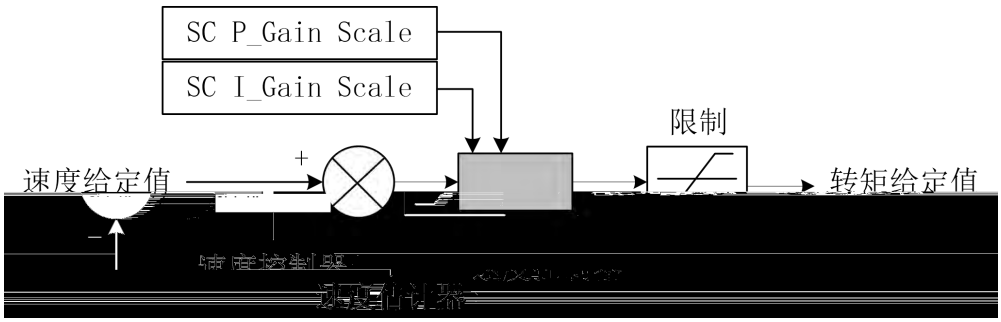

线性或二次幂
V
P16.37 V2
P16.35 V1
多点V/F曲线
P16.39 V3
[0]线性
[2]二次幂曲线
F
0
F1
F2
F3
P16.34 P16.36 P16.38

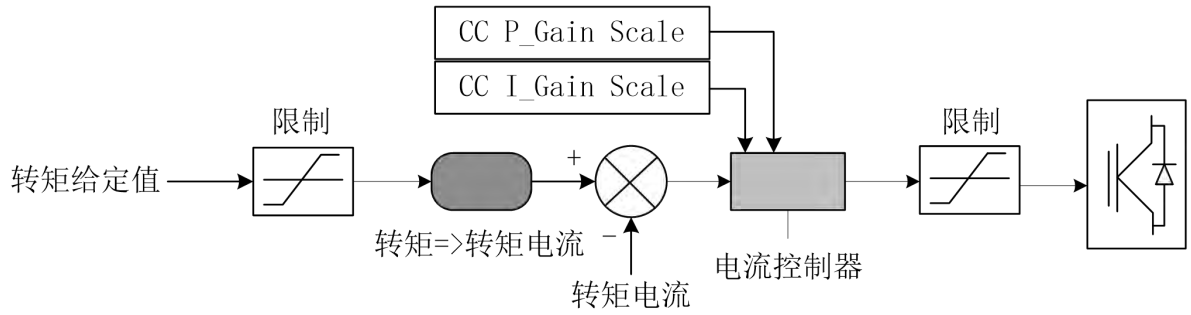

V
电压/频率曲线
P16.27


速度
P16.56
P16.52
电流
P16.55


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）
速度
P20.38
（启动磁通量结束速度）
P20.40


SC P_Gain Scale
SC I_Gain Scale
限制
速度给定值
+
−
转矩给定值


CC P_Gain Scale
CC I_Gain Scale
限制
限制
转矩给定值
+
−
转矩=>转矩电流
转矩电流
电流控制器

GUIDE