SINAMICS G120XA 控制单元接线指导

SINAMICS G120XA CU wiring guide

2019.7.22 He Wei SNC CSA TCC

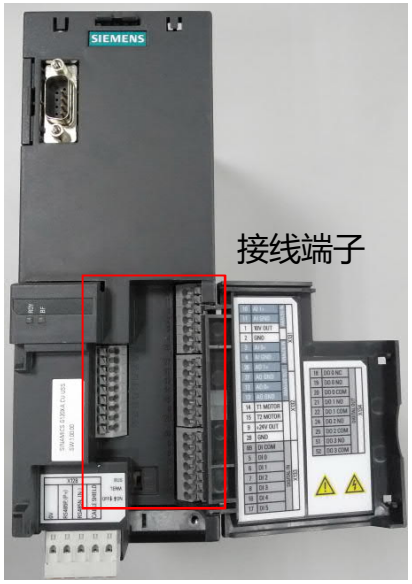
SINAMICS G120XA 控制单元接线总览

G120XA 控制单元提供固定式连接器，最大支持截面积1.5mm²(AWG 16)的导线。

可采用三种方式进行连接

- 绞合线+绝缘型端子
- 绞合线+非绝缘型端子
- 直接使用实心线

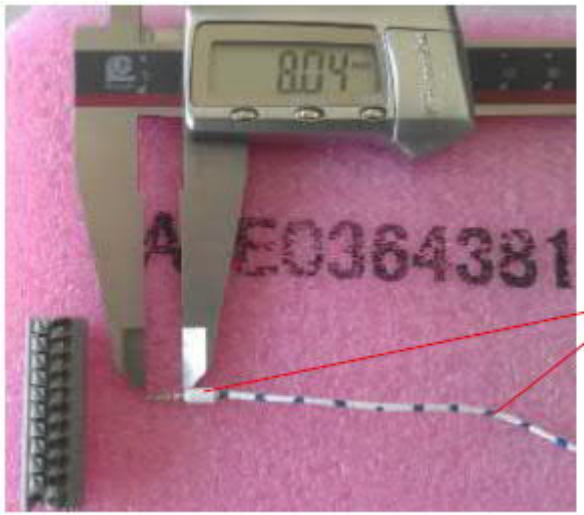
不允许两根线插入一个冷压端子



绝缘型端子	非绝缘型端子

Protection notice / Copyright notice

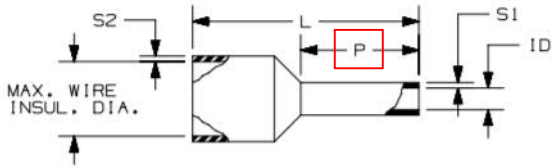
绞合线+绝缘型端子



接线要求

1. 导体截面积0.25(min)~0.5(max)mm²

2. 需要选用合适的冷压端子，前端P长度8~9mm，外径OD不大于1.5mm



3. 使用合适的端子压接工具
(建议所选工具符合DIN 46228第1部分要求的不带绝缘颈环的套管以及符合DIN 46228第4部分要求的带绝缘颈环的套管，0.25 mm² ... 6.0 mm²，水平进线，梯形压接)

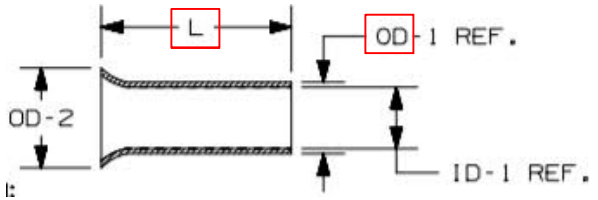
Protection notice / Copyright notice

绞合线+非绝缘型端子

接线要求

1. 导体截面积0.25(min)~1(max)mm²

2. 需要选用合适的冷压端子，前端L长度8~9mm，外径OD不大于1.5mm



3. 使用合适的端子压接工具
(建议所选工具符合DIN 46228第1部分要求的不带绝缘颈环的套管以及符合DIN 46228第4部分要求的带绝缘颈环的套管，0.25 mm² ... 6.0 mm²，水平进线，梯形压接)

Protection notice / Copyright notice

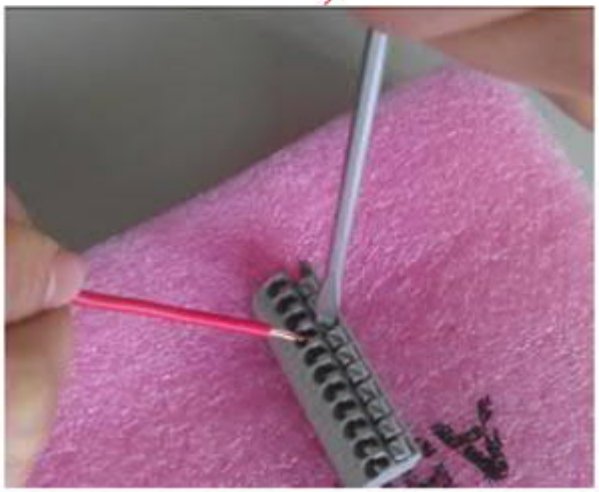
直接使用实心线

接线要求

1. 导体截面积在0.2(min)~1.5(max)mm²

2. 导线的剥线长度推荐为8~9mm

3. 接线步骤是：先用一字型螺丝刀压下塑料压杆，再插导线



Protection notice / Copyright notice

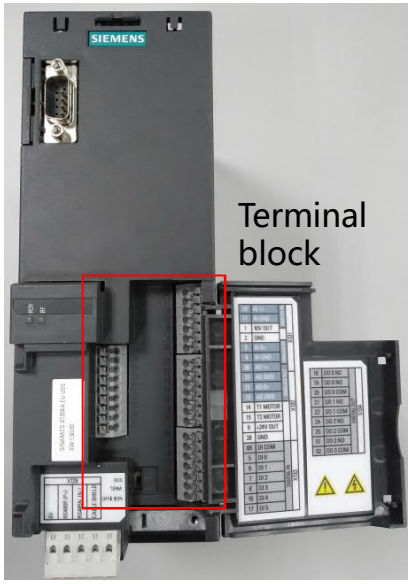
SINAMICS G120XA CU wiring overview

G120XA CU provide fixed terminal block, which support 1.5mm² (AWG 16) wires

It can wiring by the following 3 ways:

- Finely stranded conductor + Insulated terminal
- Finely stranded conductor + Non-Insulated terminal
- Solid conductor without terminal

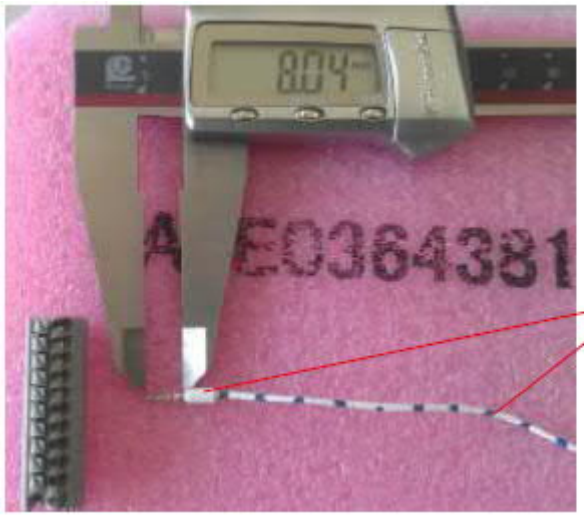
Cable with twin end sleeves are not permissible



Insulated terminal	Non-Insulated terminal

Protection notice / Copyright notice

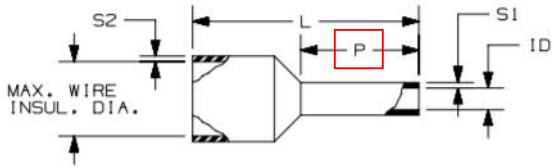
Finely stranded conductor + Insulated terminal



Requirement:

1. Conductor: 0.25(min)~0.5(max)mm²

2. Use matched terminal， Length P 8~9mm， Outer diameter OD<1.5mm



3. Use matched crimping pliers

(Recommended for non-insulated terminal according to DIN 46228 Part 1 and insulated terminal according to DIN 46228 Part 4, 0.25 mm² ... 6.0 mm², lateral entry, trapezoidal crimp)

Protection notice / Copyright notice

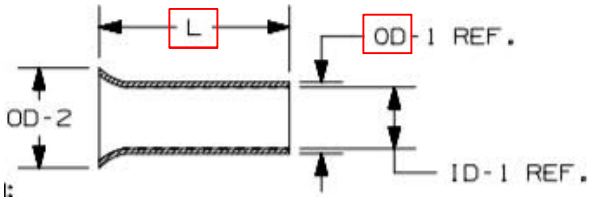
SIEMENS

Finely stranded conductor + Non-Insulated terminal

Requirement:

1. Conductor: 0.25(min)~1(max)mm²

2. Use matched terminal, Length L 8~9mm, Outer diameter OD-1<1.5mm



3. Use matched crimping pliers

(Recommended for non-insulated terminal according to DIN 46228 Part 1 and insulated terminal according to DIN 46228 Part 4, 0.25 mm² ... 6.0 mm², lateral entry, trapezoidal crimp)

Protection notice / Copyright notice

SIEMENS

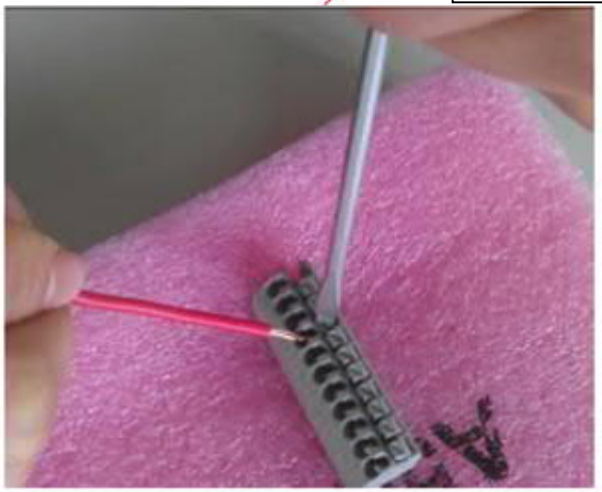
Solid conductor without terminal

Requirement:

1. Conductor: 0.2(min)~1.5(max)mm²

2. Recommended wire strip length 8~9mm

3. Wiring step: press the button with screwdriver, then insert the conductor



Protection notice / Copyright notice

SIEMENS

Thank you very much

Protection notice / Copyright notice