No.  |  Description                                                                 |
```
1    | Minimum distance from ceiling for wall-mounting: IP20/21 = 350mm             |
2    | Minimum distance from ceiling for wall-mounting: IP23/43/54 = 255mm         |
3    | Air inlet / outlet protection                                              |
4    | Air outlet                                                                  |
5    | Cable entry possible within the grey area                                  |
6    |                                                                               |
7    |                                                                               |
8    | < Option >                                                                  |
9    | Degree of protection                                                        |
10   |                                                                               |
11   |                                                                               |
12   |                                                                               |
```
1) See the operating instructions
2) Cabinet anti-condensation

- E240
Option 2) <L55>

100W
1. Minimum distance from ceiling for wall-mounting: IP20/21 = 350mm
   Minimum distance from ceiling for wall-mounting: IP23/43/54 = 250mm

2. Air inlet / outlet protection

3. Air outlet

4. Air inlet

5. Cable entry possible within the grey area

6. Line breaker, can be locked with a padlock

7. Power termination, infeed from below

8. < Option >

9. Degree of protection

10.

11.

12. Emergency stop button
1) Main circuit-breaker  
10) Short circuit jumper  
97) Connection to Infeed  
# Short circuit-proof configuration

---

**Project:** ELCAD  
**Version:** SD4

---

**Sheet:** 15  
**Date:** 02.09.2015

---

**Siemens AG**

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**SINAMICS S120 CABINET MODULE**

---

**Circuit diagram**

---

**XF9300560502021201**

---

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---

**6SL37000LG380AA3 D02+D60+K76+L42+L45+L55+L87+M06+M54+M56+M70+P11+T60+X30+Y11+Y32**

---

**Option <L41>**

---

**E8L37000G039AA3 D02+D60+K76+L42+L45+L87+M06+M54+M56+M70+P11+T60+X30+Y11+Y32**

---

**[2.1/2.1]**

---

**[2.2/13.4]**

---

**[2.2/13.4] TO D/D 13**

---

**[=MCBU.D1/017B]**

---

**2.1**

---

**FS-SP**

---

**Sheet:** 15  
**Date:** 02.09.2015

---

**Remarks**

---

**Name**

---

**Nom.s Artus-Symbol**

---

**Org./Repl.f./Repl.by**

---

**AA**

---

**PD/0**

---

**Main**

---

**SYSTEM**

---

**XF9300560502021201**

---

**2.1**

---

**+W.A25**
1) 230V AC auxiliary power supply
2) For connection, see table

Table 2)

<table>
<thead>
<tr>
<th>Voltages</th>
<th>( \text{PRI} )</th>
</tr>
</thead>
<tbody>
<tr>
<td>380V</td>
<td>1 - 2</td>
</tr>
<tr>
<td>400V</td>
<td>1 - 3</td>
</tr>
<tr>
<td>415V</td>
<td>1 - 4</td>
</tr>
<tr>
<td>440V</td>
<td>1 - 5</td>
</tr>
<tr>
<td>460V</td>
<td>1 - 6</td>
</tr>
<tr>
<td>480V</td>
<td>1 - 7</td>
</tr>
<tr>
<td>500V</td>
<td>1 - 8</td>
</tr>
<tr>
<td>525V</td>
<td>1 - 9</td>
</tr>
<tr>
<td>555V</td>
<td>1 - 10</td>
</tr>
<tr>
<td>575V</td>
<td>1 - 11</td>
</tr>
<tr>
<td>600V</td>
<td>1 - 12</td>
</tr>
</tbody>
</table>

Mains voltage

Auxiliary supply
F21

X40

X19

Q2

Q3

Q4

T24

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SINAMICS S120 CABINET MODULE
 XF9300560502021201

120VAC = ACBU.E5/017B

Detector

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1) See the operating instructions
1) See the operating instructions
2) Cabinet anti-condensation heating
97) Connection to Infeed

Project: ELCAD
VERSION: 7.9.0 SP2

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SINAMICS S120 CABINET MODULE

Circuit diagram

100W

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SINAMICS S120 CABINET MODULE
XF9300560502021201

DATE: 02.09.2015
SYSTEM

REV. Remarks Date Name No.: m. Art.: Symbol Orig./Rep.t./Rep. by

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+H_A29

No.

Sheet/
1) See the operating instructions
2) Insulation monitor

# Short circuit-proof configuration

---

AI1 = 180k  R > 5M
See the operating instructions
if IT grid
remove grounding clip
short circuit-proof configuration

1) See the operating instructions
5) If IT grid
- remove grounding clip
- short circuit-proof configuration

Voltage Sensing Module
1) See the operating instructions
2) Adapting Transformer on mains voltage
   + Factory setting
99) Connection to LCM
See the operating instructions.
1) See the operating instructions
2) Cabinet anti-condensation heating
99) Connection to LCM

---

Project: ELCAD
VERSION: 7.9.0 SP2

---

Sheet: 15
Sheet4

---

Option 1)

Option 2)

---

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SINAMICS S120 CABINET MODULE
XF9300560502021201

---

Date 02.09.2015
02.09.15Syst

---

100W LNPE E240

---

100W LNPE E241

---

Option 2)
No. | IP23/IP43/IP5 | M23 | M43 | M54 |
---|---|---|---|---|
1 | Minimum distance from ceiling for wall-mounting: IP20/21 = 350mm  
Minimum distance from ceiling for wall-mounting: IP23/IP43/IP5 = 255mm |
2 | Air inlet / outlet protection |
3 | Air outlet |
4 | Air inlet |
5 | Cable entry possible within the grey area |
6 |
7 |
8 | < Option > |
9 | Degree of protection |
10 |
11 |
12 |

Degree of protection:  
IPX43/IPX54  
IP23/IP43/IP54  
IP20/21  
Minimum distance from ceiling for wall-mounting: IP20/21 = 350mm  
Minimum distance from ceiling for wall-mounting: IP23/IP43/IP5 = 255mm  
Air inlet / outlet protection  
Air inlet  
Air outlet  
Cable entry possible within the grey area
See the operating instructions
Adapting Transformer on
Mainsvoltage
Factory setting

1) See the operating instructions
2) Adapting Transformer on
Mainsvoltage
Factory setting
1. See the operating instructions
1) See the operating instructions
2) Cabinet anti-condensation heating

---

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**Sheet:**

SINAMICS S120 CABINET MODULE
XF9300560502021601
Circuit diagram

**Date:** 02.09.2015
**System:**

**Remarks:**

1) Option <L55>
2) Option <L55>

**100W**

---

**N1**

**L1**

**N**

**PE**

max. 16A

---

**100W**

---

**L1**

**N**

PE

3.2/9.1

L1

2.1/7.3

N

PE

---

**-E240**

**-E241**

Option 1)

Option 2)
1) See the operating instructions
2) Adapting Transformer on mains voltage
   - Factory setting
1) See the operating instructions
2) Cabinet anti-condensation heating

1) Option: <LS>
2) L1 3.2/9.3
   N 3.2/9.3
   L1 max. 16A
   PE 3.2/9.3

100W
**Date:** 02.09.2015  
**Sheet:** 14  
**Sheet no.:** 4

**Project:** ELCAD  
**VERSION:** 7.9.0 SP2

**Sheet:**  
**Artus-Symbol:** FS-SP

**Operating voltage:** 230V

---

**Auxiliary supply:**

- X101_1
- X101_2
- X101_3
- X101_4

**Mains voltage:**

- X100_1
- X100_2

**Auxiliary supply:**

- X101
- P24
- 24V

---

**Sheet Reference:** SINAMICS S120 CABINET MODULE  
**Sheet No.:** 4  
**Project no.:** XF9300560502021601  
**Org. Repl. Repl. by:**