



**FlexLink®**

# AGS Control box

5113440-01

User documentation

# Control box

## Power supply

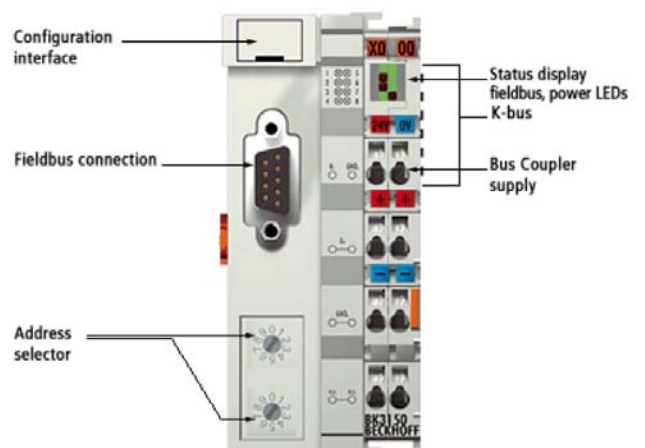
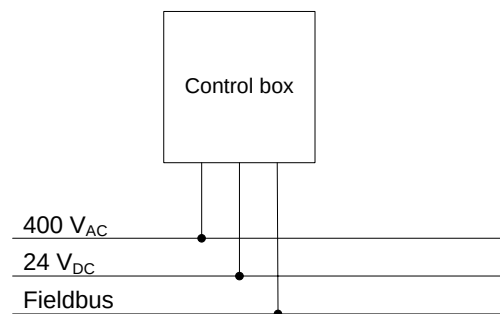
### Main

Voltage: 400 V<sub>AC</sub>  
Phases: 3  
Frequency: 50 Hz  
Current: 6 A  
Short-circuit capacity: 10 kA

### Controls

Voltage: 24 V<sub>DC</sub>  
Current: 0.3 A<sub>DC</sub>  
Fieldbus interface: Beckhoff BK3150,  
[www.beckhoff.com](http://www.beckhoff.com)  
Protocol: Profibus

## Power supply



# Control box

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## CE marking location

The CE marking is located on the outside of the door, in the upper left corner.

## Electricians

Electricians must have:

- Experience from similar installations
- Sufficient knowledge to work from drawings and wiring diagrams
- Knowledge of local safety regulations for electrical power and automation
- Knowledge in english language

To avoid risks, only experienced personnel with technical knowledge and experience may perform repair work on the machine's electronics components.

## Application of usage

The Control box is to be used for controlling FlexLink Guide units without or in combination with FlexLink Junction boxes.

The Control box should not be used for any other purpose than controlling FlexLink Guide rails.

## Safety

The voltage in the control box is 400V for Europe or 480V for US. Ensure that the control box is closed and locked after working in the control box.

The control box door can only be opened using a tool.

- Only authorised personnel may open electrical units.
- Incorrect use of the equipment can cause personal injury.
- Do not stand or climb on the equipment.
- Only use recommended spare parts.
- Before working in the control box, the main switch must be turned off and locked.

## Assembly

The box is equipped with two aluminium beams on the backside to facilitate mechanical assembly.

## Installation

The incoming power supply should be connected to the main switch, Q30102. Protective earth should be connected to PE terminal.

Electrical supply data, Europe-versions:

Voltage: 400 VAC  
Phases: 3  
Frequency: 50 Hz  
Current: 6 A  
Short-circuit capacity: 10 kA

Electrical supply data, US-versions:

Voltage: 460-480 VAC  
Phases: 3  
Frequency: 60 Hz  
Current: 4 A  
Short-circuit capacity: 200 kA

Note: Additional 24V<sub>DC</sub> power supply is necessary for "automatic setting" versions (Type 2). Reference to electrical documentation for 24V<sub>DC</sub> and fieldbus connection.

Connect the Guide unit's included cable to connector X31103 or X31104.

## Instruction for use

Note: Applicable for Control box, Type 1 (Manual setting).

The 3-position switch on the door is used for manually adjusting the Guide units' track width (distance between guide rails).

Turn left: Runs guide rails inwards  
0-position: 0  
Right position: Runs guide rails outwards

The motors are not automatically interlocked and stopped when reaching end-position.

**FlexLink Components AB**  
**SE-41550 Göteborg**  
**Sweden**

declares that the following product(s) is in line with the essential requirements of the below directive(s)

- **AGS Control box 5113440**

**Corresponding EC directives:**

Low Voltage Directive 2006/95/EC

According to 2004/108/EC Electromagnetic Compatibility Directive (EMC), the listed device is not independently operable product, but intended as part of a given fixed installation. Compliance of the directive requires the correct installation of the product, the observance of specific installation notes and product documentation.

FlexLink Components AB

A handwritten signature in blue ink, appearing to read 'Svante Anderholm'.

**Svante Anderholm**  
Chief Operating Officer

Flexlink Components AB

A handwritten signature in blue ink, appearing to read 'Anders Jonsson'.

**Anders Jonsson**  
Responsible Technical file

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**FlexLink Components AB**

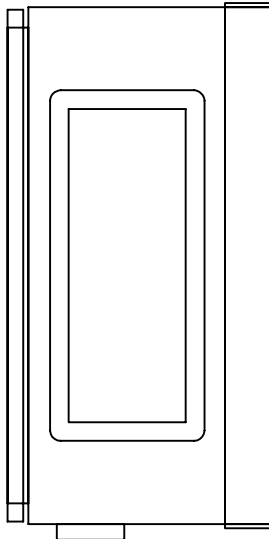
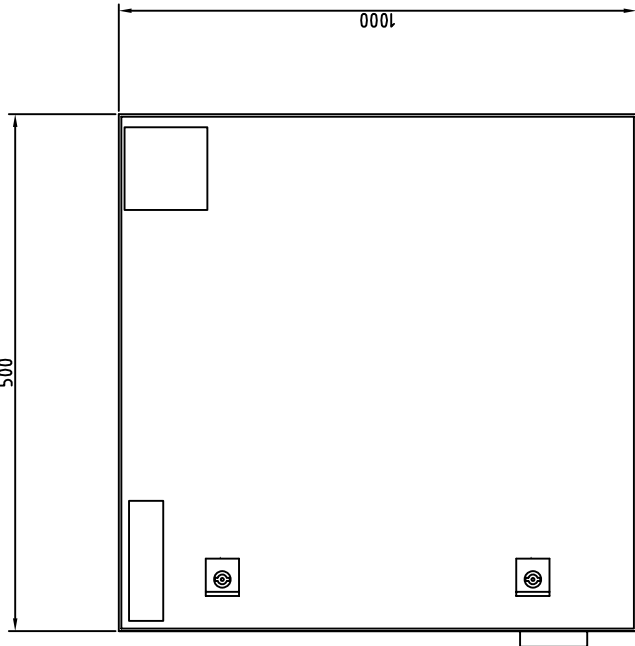
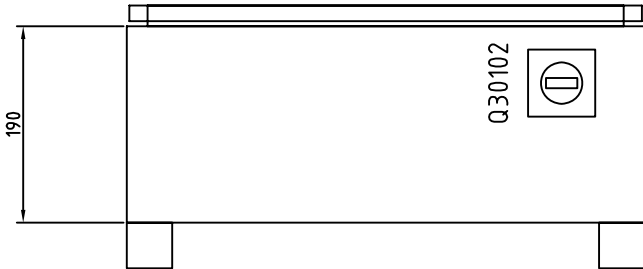
Telephone: +46-31-337 31 00  
Fax: +46-31-337 22 33  
[www.flexlink.com](http://www.flexlink.com)

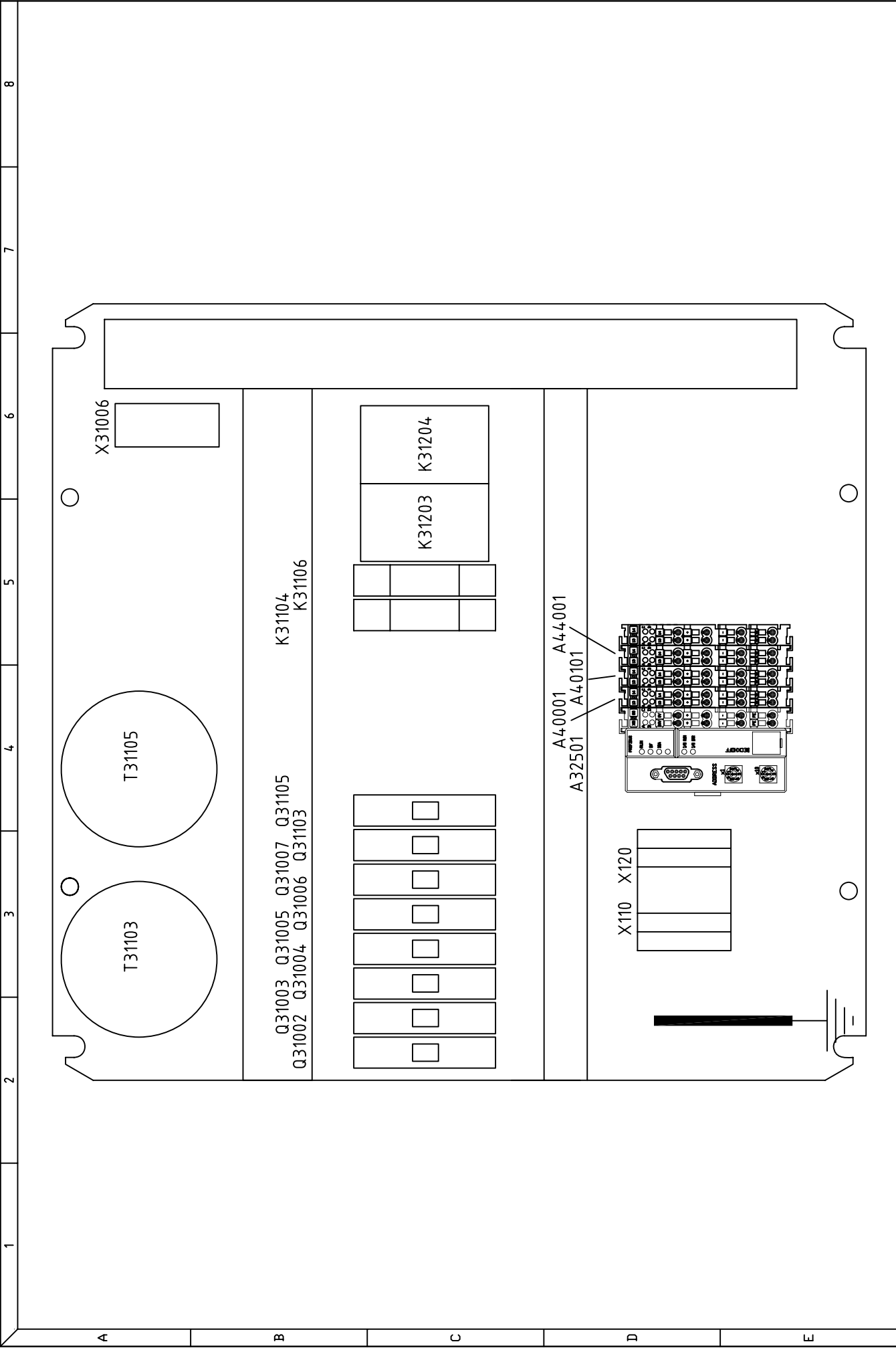
SE-415 50 Göteborg  
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| Layouts              |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 101 Layout exterior  |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 102 Layout interior  |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| Circuit diagrams     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 301 Incoming power   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 310 Zone supply      |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 311 Branch supply    |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 312 Contactors       |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 325 Communication    |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 400 Inputs           |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 401 Inputs           |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 440 Outputs          |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| External connections |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 510 Zone supply      |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 511 Branch supply    |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
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| A                                                                                   |      | B                                                                                    |        | C                                                                                     |  | D          |  | E       |                     |             |  |                 |  |          |  |
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| Nr.                                                                                 | Date | Sign                                                                                 | Change |  |  | Department |  | PSD/PDM |                     | Drawing No. |  |                 |  |          |  |
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|                                                                                     |      |                                                                                      |        |                                                                                       |  | Drawn      |  | FJN     | Project No. 9220213 | Name        |  | Layout exterior |  |          |  |
|                                                                                     |      |                                                                                      |        |                                                                                       |  | Appr.      |  |         | Date 2010-03-17     | -           |  | Sheet 101       |  |          |  |
|                                                                                     |      |                                                                                      |        |                                                                                       |  |            |  |         |                     |             |  |                 |  | Next 102 |  |



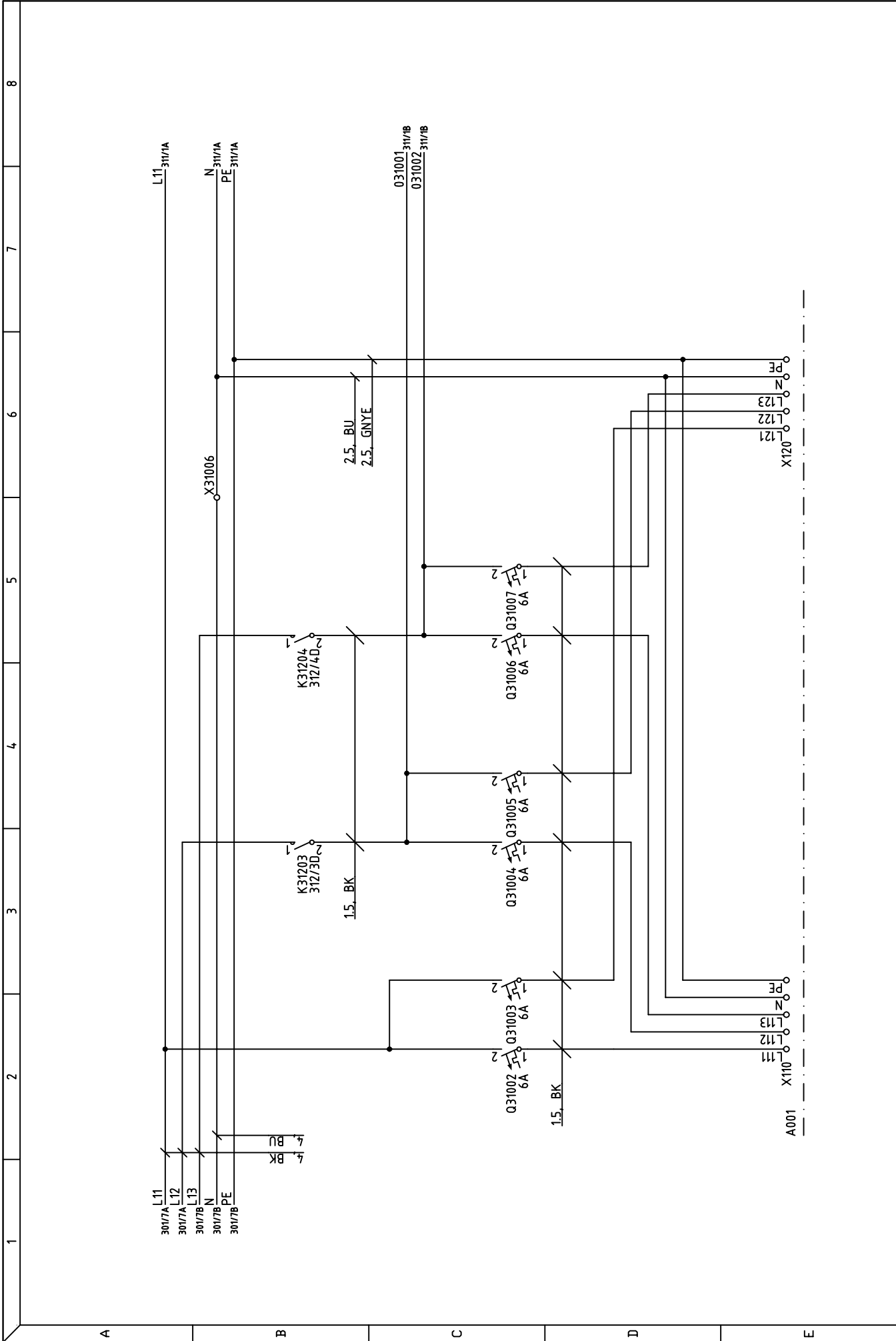
Denna ritning är Flexlinks egendom. Skyddad enligt gällande lag.  
This drawing is the property of Flexlink. Protected in  
accordance with prevailing law.

| Nr. | Date | Sign | Change | FlexLink® |  |  |  | Department | PSD/PDM             | Drawing No. |                 |
|-----|------|------|--------|-----------|--|--|--|------------|---------------------|-------------|-----------------|
|     |      |      |        |           |  |  |  | Customer   | -                   |             |                 |
|     |      |      |        |           |  |  |  | Drawn FJN  | Project No. 9220213 | Name        | Layout interior |
|     |      |      |        |           |  |  |  | Appr.      | Date 2010-03-17     | Sheet 102   | Next 301        |

| Identification of wiring                                      |                  |
|---------------------------------------------------------------|------------------|
| Earth conductors                                              | GREEN-AND-YELLOW |
| Neutral conductors                                            | BLUE             |
| AC or DC power conductors                                     | BLACK            |
| AC control circuits                                           | RED              |
| DC control circuits                                           | BLUE             |
| Interlocking control circuits<br>supplied from external power | ORANGE           |

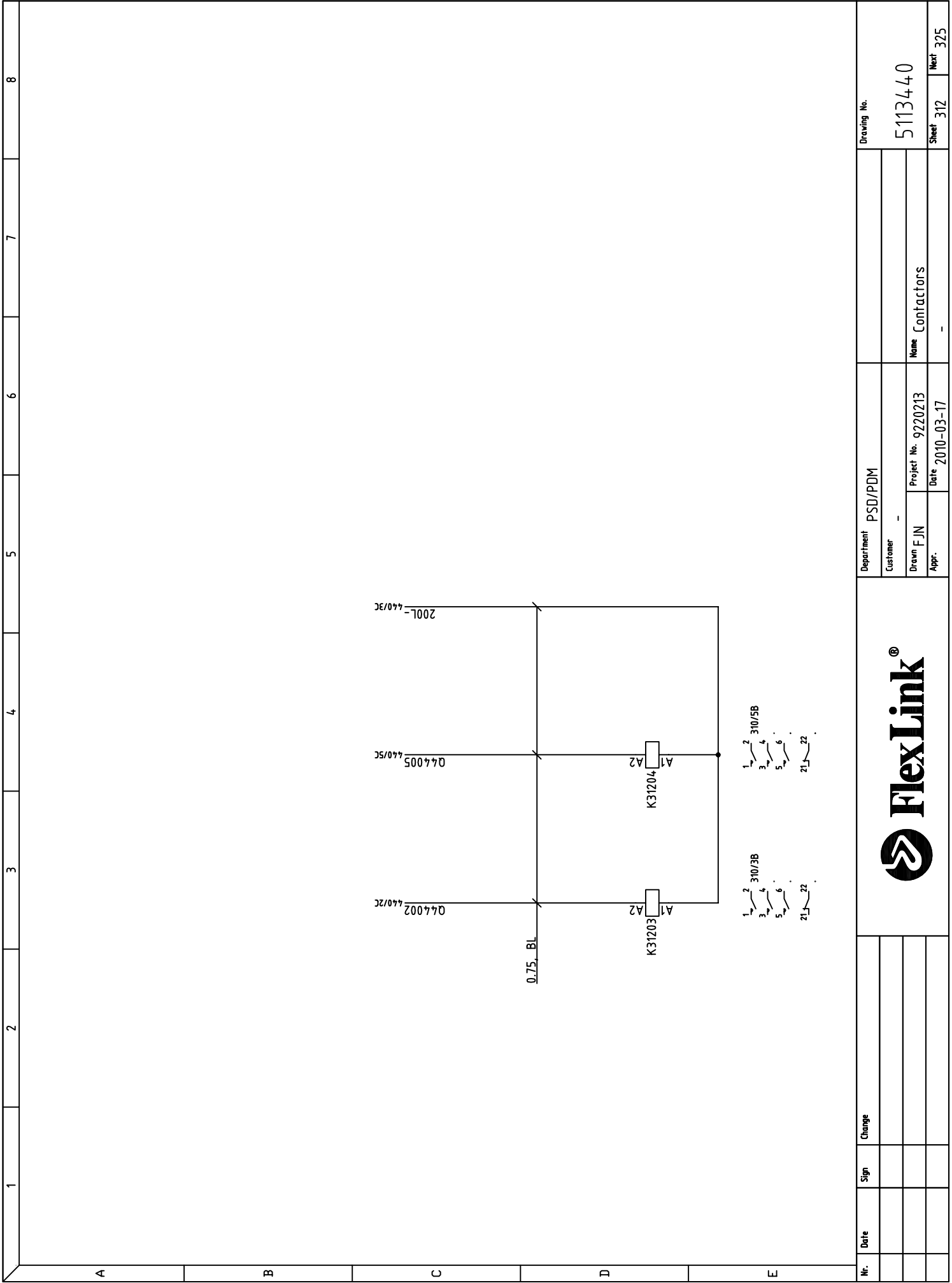
|                                                                                                                                                                                             |      |      |         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|---------|
| Nr.                                                                                                                                                                                         | Date | Sign | Change  |
|                                                                                                                                                                                             |      |      |         |
|                                                                                                                                                                                             |      |      |         |
|                                                                                                                                                                                             |      |      |         |
|  <b>FlexLink®</b>                                                                                      |      |      |         |
| <div> <div>Department</div> <div>Customer</div> </div> <div> <div>Project No. 9220213</div> <div>Drawn F J N</div> </div> <div> <div>Date 2010-03-17</div> <div>Appr.</div> </div>          |      |      |         |
| PSD/PDM                                                                                                                                                                                     |      |      |         |
| <div> <div>Customer</div> <div>Project No. 9220213</div> </div> <div> <div>Name Incoming power</div> <div>Drawn F J N</div> </div> <div> <div>Date 2010-03-17</div> <div>Appr.</div> </div> |      |      |         |
| Drawing No.                                                                                                                                                                                 |      |      | 5113440 |
| Sheet                                                                                                                                                                                       |      |      | 301     |
| Next                                                                                                                                                                                        |      |      | 310     |

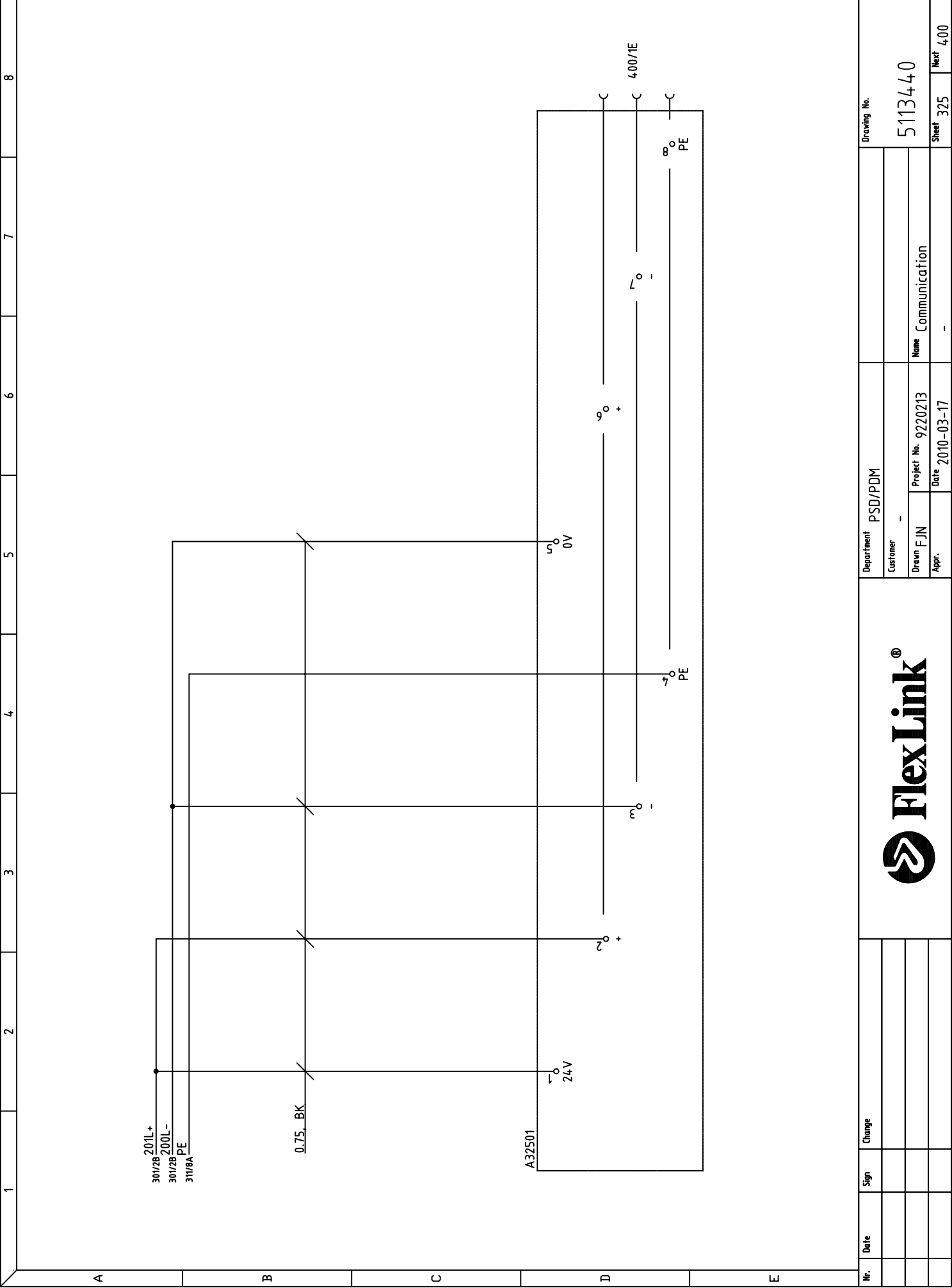




| Nr. | Date | Sign | Change |  |  |  |  | Department |                     | PSD/PDM         |           | Drawing No. |  |
|-----|------|------|--------|---------------------------------------------------------------------------------------|--|--|--|------------|---------------------|-----------------|-----------|-------------|--|
|     |      |      |        |                                                                                       |  |  |  | Customer   | Name                | Zone            | supply    | 5113440     |  |
|     |      |      |        |                                                                                       |  |  |  |            |                     |                 |           |             |  |
|     |      |      |        |                                                                                       |  |  |  | Drawn FJN  | Project No. 9220213 | Date 2010-03-17 | Sheet 310 | Next 311    |  |

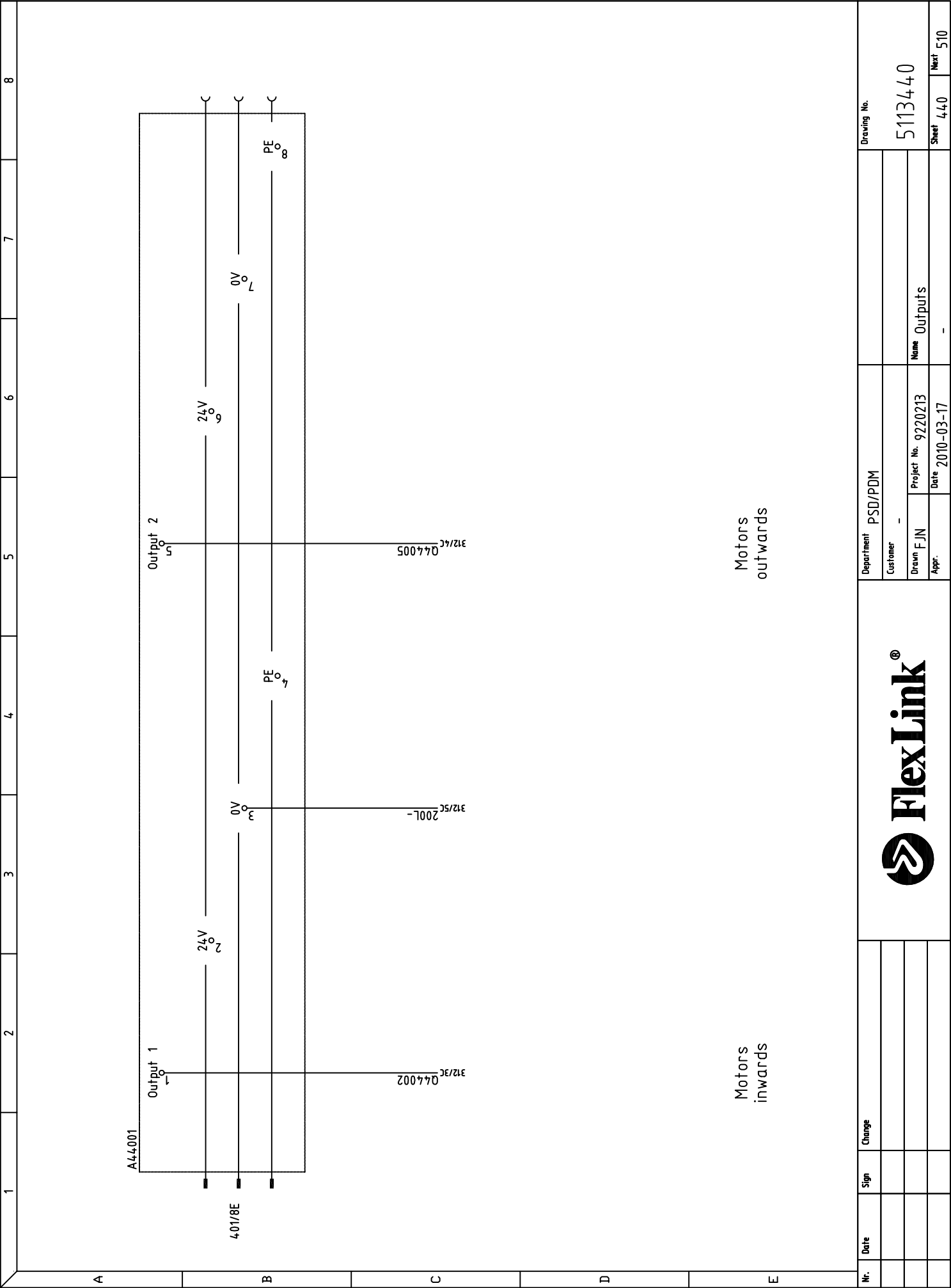


















**Spare parts list Control box 5113440**

| Pos    | Des | Name                      | Manufacturer     | Manufacturer item nr | Qty | Comment |
|--------|-----|---------------------------|------------------|----------------------|-----|---------|
| Q31002 |     | Miniature circuit breaker | Merlin Gerin     | C60N 1P C6A          |     |         |
| Q31003 |     | Miniature circuit breaker | Merlin Gerin     | C60N 1P C6A          |     |         |
| Q31004 |     | Miniature circuit breaker | Merlin Gerin     | C60N 1P C6A          |     |         |
| Q31005 |     | Miniature circuit breaker | Merlin Gerin     | C60N 1P C6A          |     |         |
| Q31006 |     | Miniature circuit breaker | Merlin Gerin     | C60N 1P C6A          |     |         |
| Q31007 |     | Miniature circuit breaker | Merlin Gerin     | C60N 1P C6A          |     |         |
| Q31103 |     | Miniature circuit breaker | Merlin Gerin     | C60N 1P C6A          |     |         |
| Q31105 |     | Miniature circuit breaker | Merlin Gerin     | C60N 1P C6A          |     |         |
| T31103 |     | Transformer               | FlexLink         | 5058593              |     |         |
| T31103 |     | Fuse                      | Littlefuse       | 1A, 5x20mm           |     |         |
| T31105 |     | Transformer               | FlexLink         | 5058593              |     |         |
| T31105 |     | Fuse                      | Littlefuse       | 1A, 5x20mm           |     |         |
| K31203 |     | Contact                   | Moeller electric | 276845               |     |         |
| K31204 |     | Contact                   | Moeller electric | 276845               |     |         |
| K31104 |     | Relay                     | Finder           | 40.51.8.024          |     |         |
| K31104 |     | Relay socket              | Finder           | 95.05.SMA            |     |         |
| K31106 |     | Relay                     | Finder           | 40.51.8.024          |     |         |
| K31106 |     | Relay socket              | Finder           | 95.05.SMA            |     |         |
| A32501 |     | Communication interface   | Beckhoff         | BK3150               |     |         |
| A40001 |     | Input module              | Beckhoff         | KL1002               |     |         |
| A40101 |     | Input module              | Beckhoff         | KL1002               |     |         |
| A44001 |     | Output module             | Beckhoff         | KL2022               |     |         |
| X31103 |     | Connector                 | Wieland          | 96.031.1053.1        |     |         |
| X31104 |     | Connector                 | Wieland          | 96.031.1053.1        |     |         |