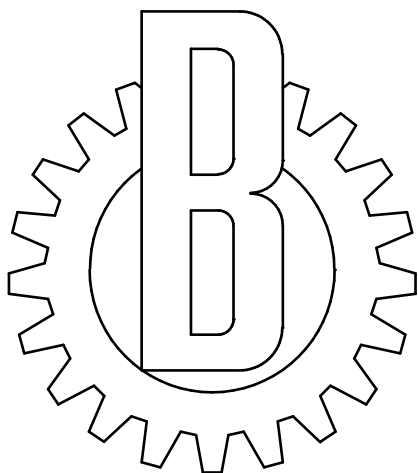


# BENNINGHOVEN

GmbH & Co. KG

Feuerungstechnik  
und Anlagen für den bituminösen Straßenbau



BENNINGHOVEN GmbH & Co. KG  
Industriegebiet  
Postfach 50  
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Fax:06534/8970  
e-mail: info@benninghoven.com  
Internet: <http://www.benninghoven.com>

|  |  |  |  |  |  |   |  |  |
|--|--|--|--|--|--|---|--|--|
| BENNINGHOVEN Wittlich  | BENNINGHOVEN Berlin  | BENNINGHOVEN Hilden  | BENNINGHOVEN U.K. Ltd.   | BENNINGHOVEN Österreich  | BENNINGHOVEN France S.A.R.L.   | BENNINGHOVEN Moskau   | BENNINGHOVEN Polska Sp. z o.o.   | BENNINGHOVEN Baltica UAB   |
| Otto-Hahn-Straße<br>D-54516 Wittlich<br>Tel.:+49-65 71-6 97 80<br>Fax.:+49-65 71-80 20 | Grenzgrabenstraße 11<br>D-13053 Berlin<br>Tel.:+49-30-9 81 00 00<br>Fax.:+49-30-9 81 00 44 | Herderstraße 9<br>D-40721 Hilden<br>Tel.:+49-21 03-36 11 36<br>Fax.:+49-21 03-36 11 44 | Incendium House, Centurion Way<br>Meridian Business Park<br>LE19 1WH Leicester<br>Tel.:+44-11 6-2 63 03 45<br>Fax.:+44-11 6-2 82 72 41 | Josefsthalerstraße 69<br>A-2511 Pfaffstätten<br>Tel.:+43-22 52-8 44 40<br>Fax.:+43-22 52-8 45 70 | Parc d'Affaires Roosevelt<br>Rue Gabin<br>F-69120 Vaulx-en-Velin<br>Tel.:+33-4 72-14 93 80<br>Fax.:+33-4 72-14 93 89 | ul. Petrovka 27, str. 5<br>RUS-107 031 Moskau<br>Tel.:+7-0 95-9 37 56 37<br>Fax.:+7-0 95-9 37 56 38 | ul. Golêdzinowska 10<br>PL-03-302 Warszawa<br>Tel.:+48 22-5 10 09 17<br>Fax.:+48 22-5 10 09 97 | Zadeikos Str. 17<br>LT-06320 Vilnius<br>Tel.:+37 052-68 59 95<br>Fax.:+37 052-68 59 94 |

## Auftraggeber

Skanska DS a.s.  
Floriana Nováka 3 / 5267  
CZ-796 40 Prostějov

## Anlage

CZ-Pardubice

## Elektrodokumentation

Schaltplan : Mischturm/Trocknung  
Projekt : Mischanlage TBA 160  
Auftrags-Nr. : 10421640  
Zeichnungs-Nr. : E96-0305  
Projekt-Nr. : 0464

|            | Änderungstext | Datum      | Name     |
|------------|---------------|------------|----------|
| Prüfung    |               |            |          |
| Montage    |               |            |          |
| gezeichnet |               | 16.11.2004 | O. Lührs |
| Planung    |               | 16.11.2004 | H. Adam  |

Schaltschrank : Mischturm/Trocknung +E16

Auftrags-Nr. : 10421640

Baujahr : 2004

Stromart : Drehstrom

Betriebsspannung : 400V 50Hz

Steuerspannung : 230V 50Hz/24V DC

Anschlußwert ca. : 322kW

Nennsicherung : 630A

Maschinen-Nr. :

Schutzart : IP55

Folgende Anlagenteile werden gesteuert :

## Mischturm/Trocknung

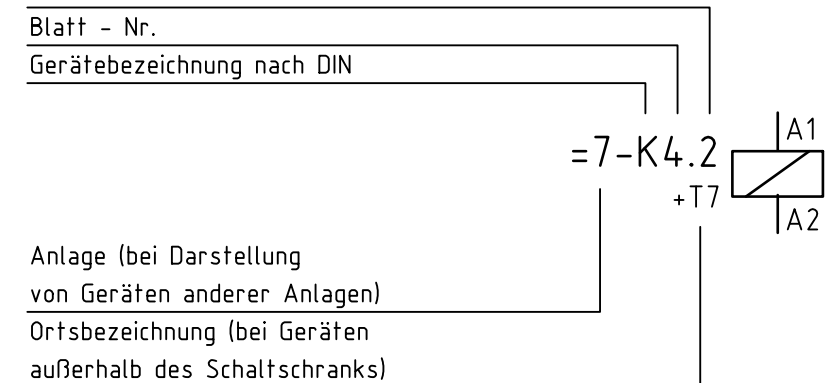
| <i>Schaltschrank</i> | <i>Stück</i> | <i>Typ</i> | <i>Breite</i> | <i>Höhe</i> | <i>Tiefe</i> | <i>Sockel</i> |
|----------------------|--------------|------------|---------------|-------------|--------------|---------------|
| Reihenschrank        | 2            | TS 8285    | 1200          | 1800        | 500          | 200           |
| Reihenschrank        | 1            | TS 8885    | 800           | 1800        | 500          | 200           |
| Reihenschrank        | 1            | TS 8685    | 600           | 1800        | 500          | 200           |
|                      |              |            |               |             |              |               |

### Hinweis zur Gerätebeschriftung

Lfd. Gerätenummer

Blatt - Nr.

Gerätebezeichnung nach DIN



Anlage (bei Darstellung  
von Geräten anderer Anlagen)

Ortsbezeichnung (bei Geräten außerhalb des Schaltschranks)

## Leiterkennfarben und Querschnitte

Leiterkennfarben Leistungsteil /mind. 2,5mm<sup>2</sup>

Phase L1 - L3 : Schwarz

Phase N : Blau

Schutzleiter PE : Grün/Gelb

Leiterkennfarben Steuerteil /mind. 0,75mm<sup>2</sup>

Steuerspannung 230V 50Hz : Rot

Neutralleiter 230V 50Hz : Blau/Rot

Spannung 24V DC : D.Blau

Meßsignale : Weiß

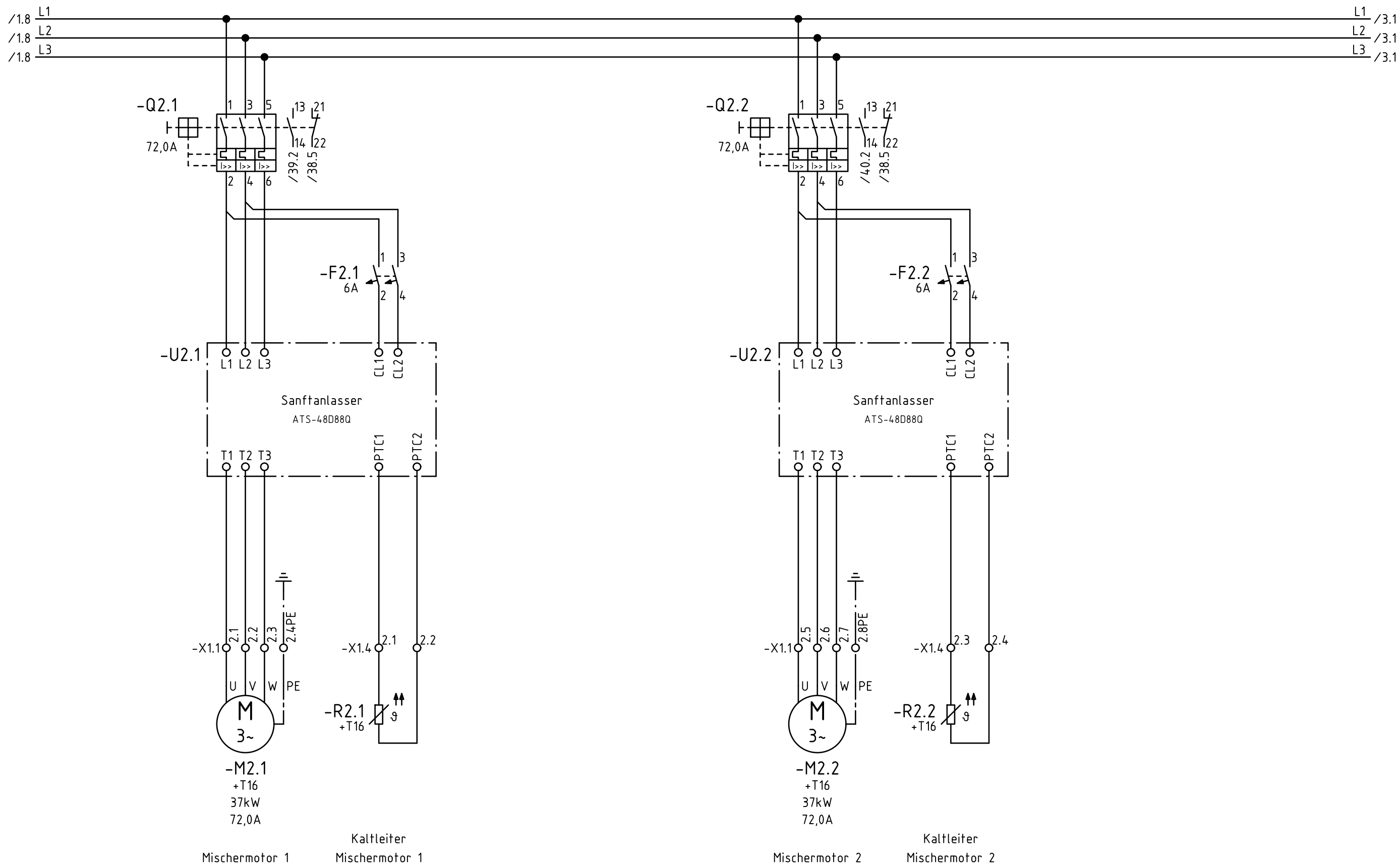
pot.freie Meldung : Violett

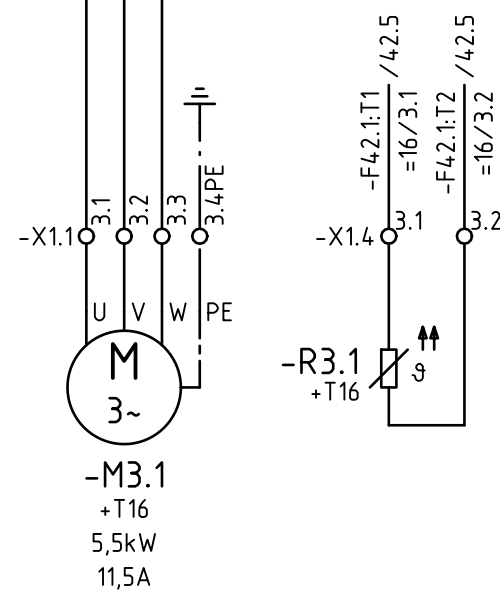
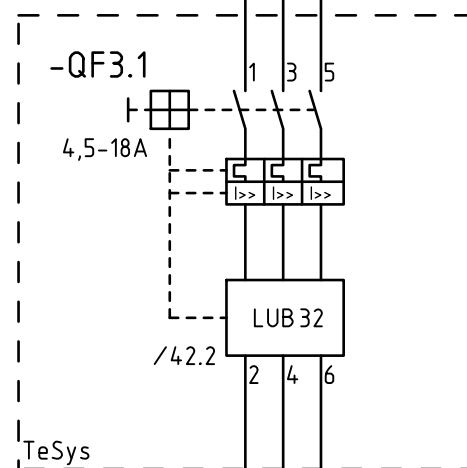
Meßleitung 10V DC : Grau

### Zuordnung der Klemmleisten

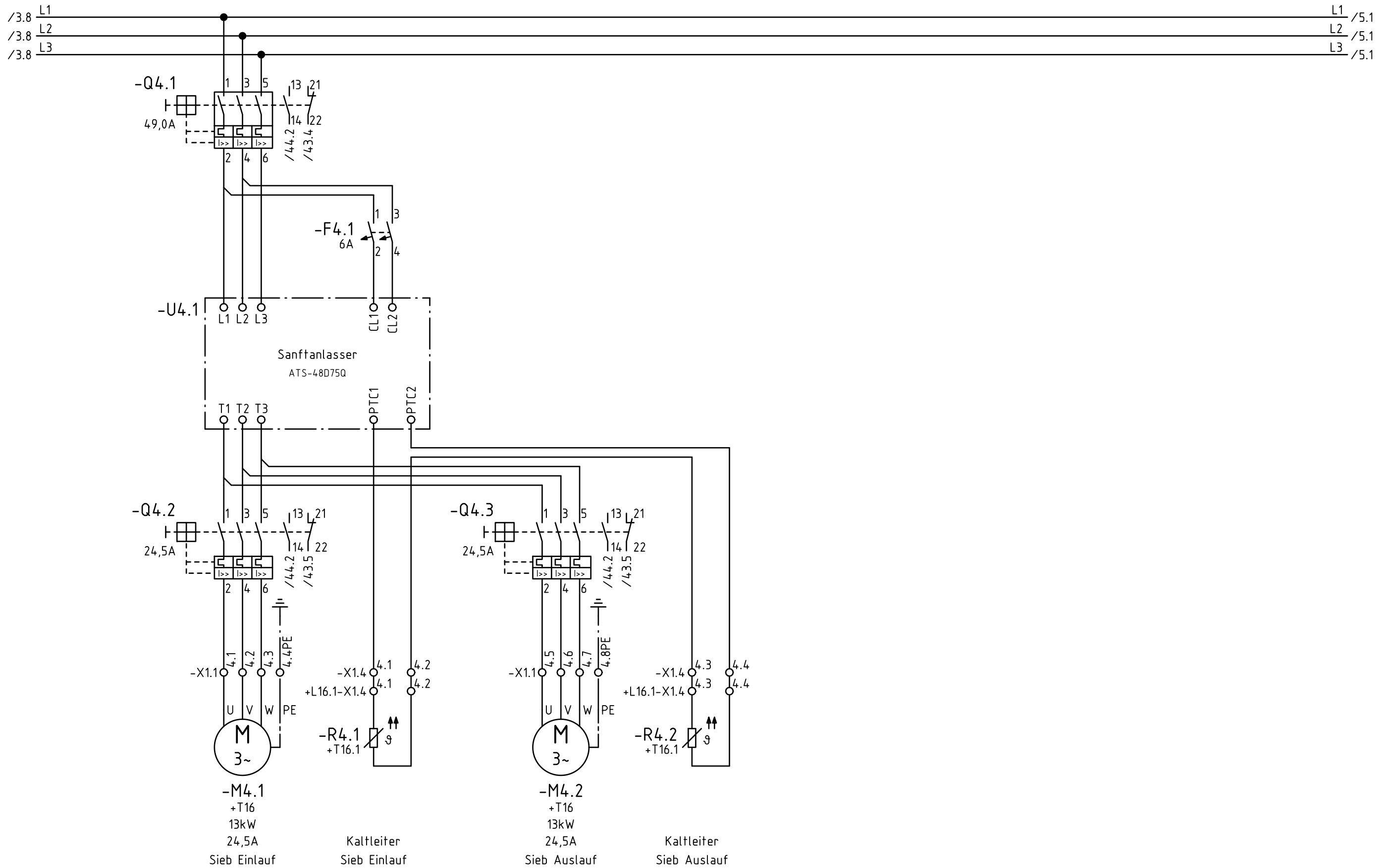
|                            |                  |
|----------------------------|------------------|
| X1 / =Schaltschrank        | -> Mischanlage   |
| X2 / =Schaltschrank        | -> Pult / Tür    |
| X3 / =Pult                 | -> Mischanlage   |
| X4 / =Pult                 | -> Schaubild     |
| X5 / =Schaltschrank / Pult | -> Computer      |
| X6 / =Schaltschrank        | -> Schaltschrank |
| X7 / =Schaltschrank        | -> SPS           |
| X8 / =Schaltschrank / SPS  | -> Mischanlage   |
| X9 / =Schaltschrank        | -> Schreiber     |
| X10/ =Schaltschrank Intern |                  |

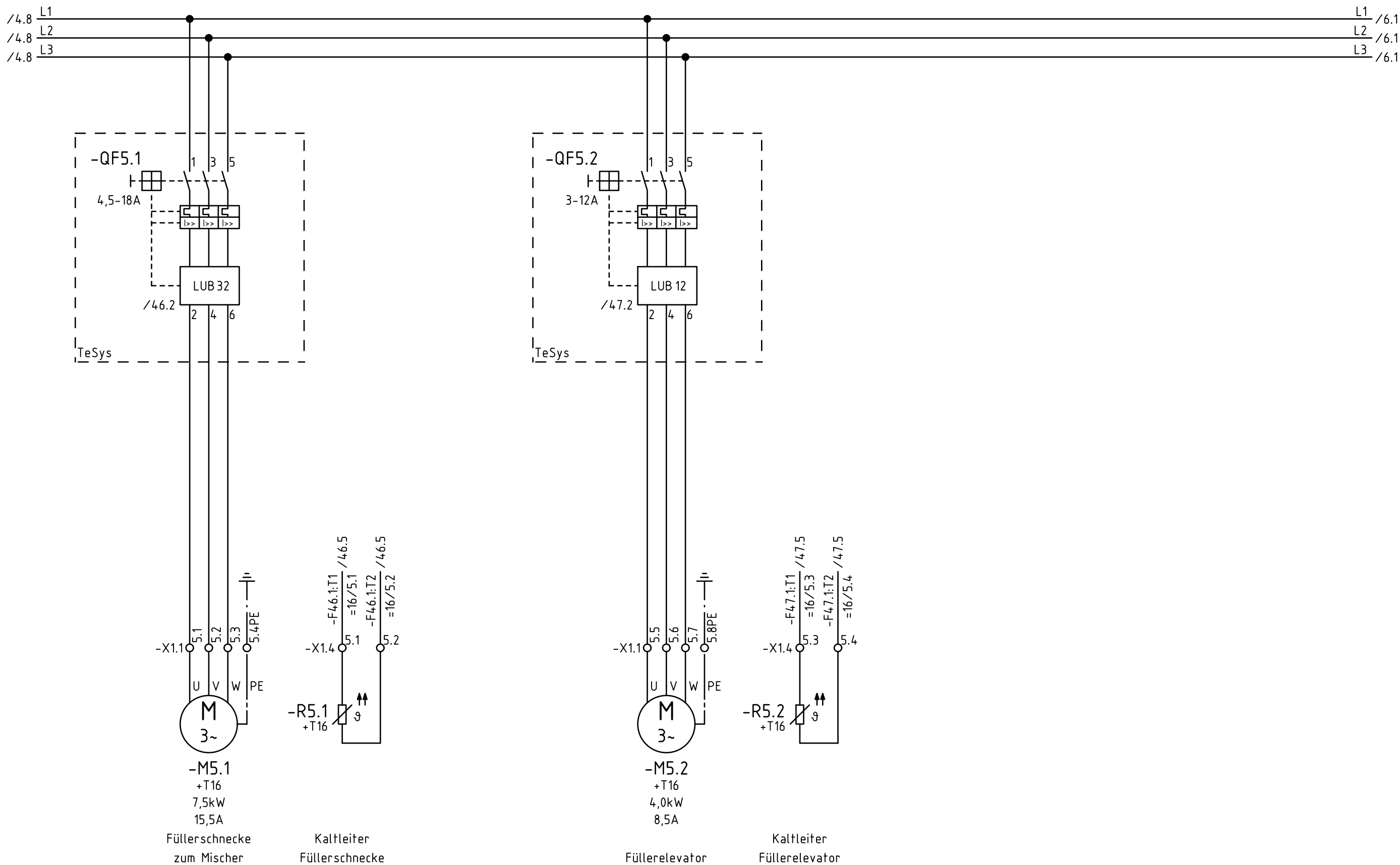


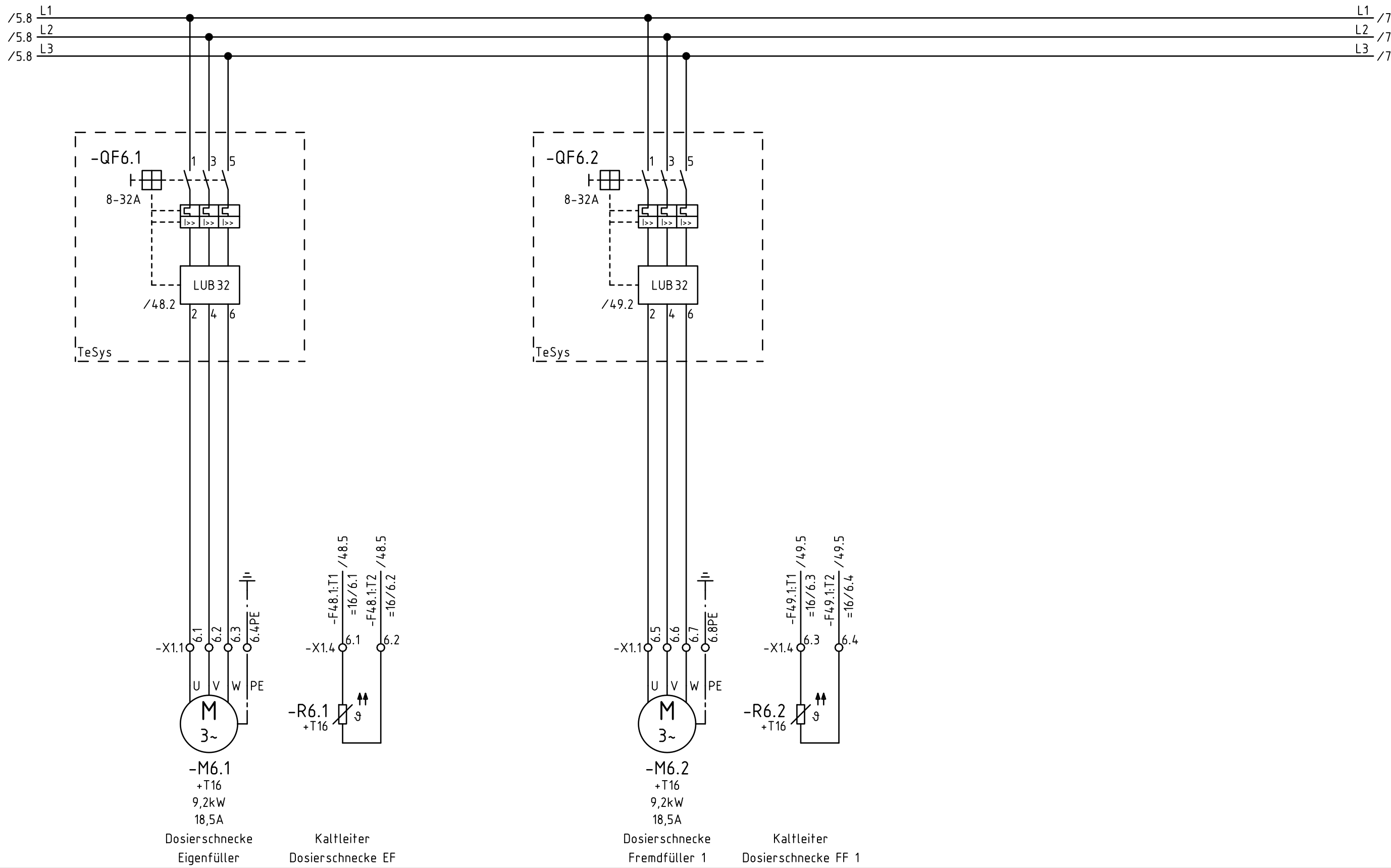




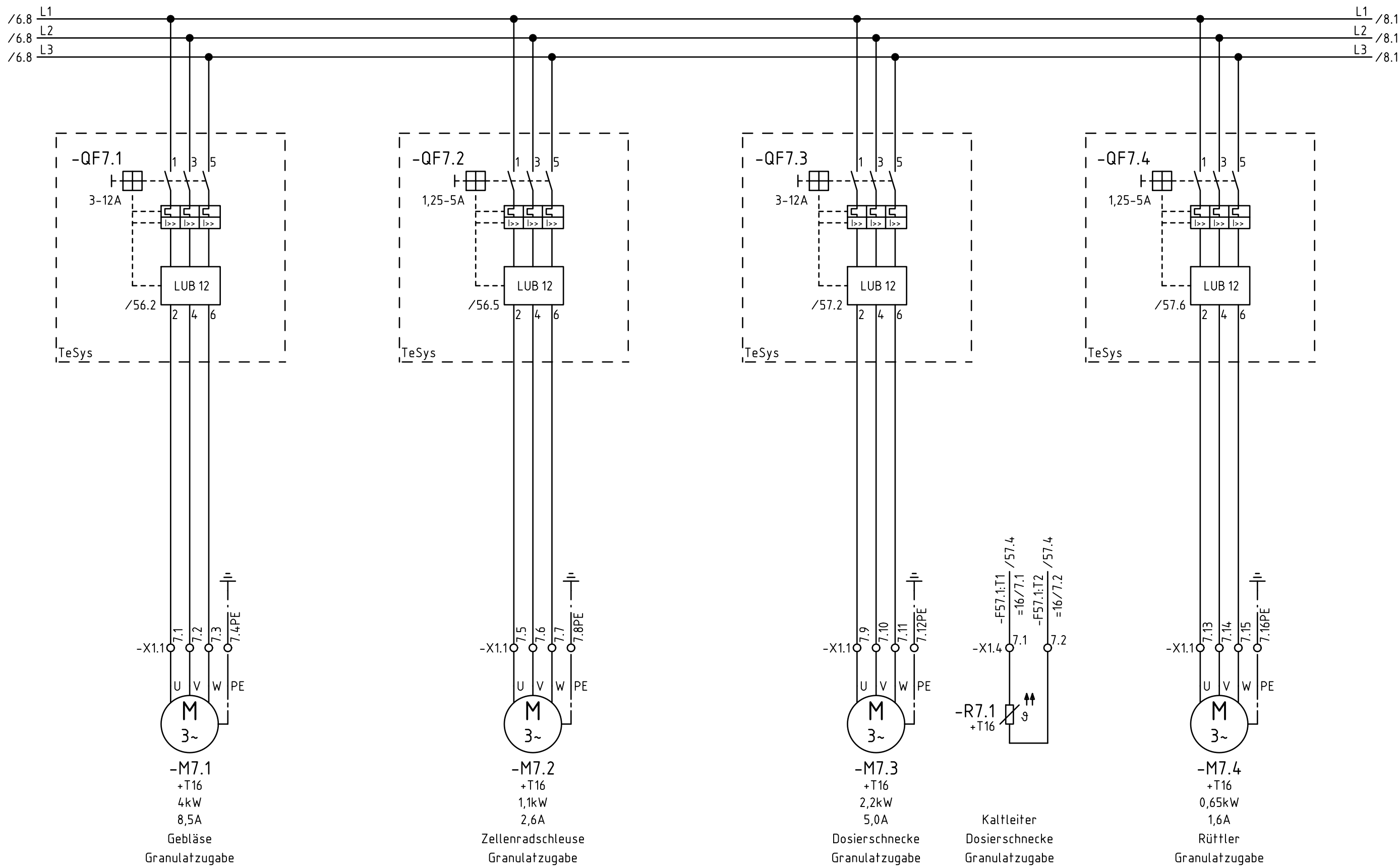
Kaltleiter  
Turmabsaugung

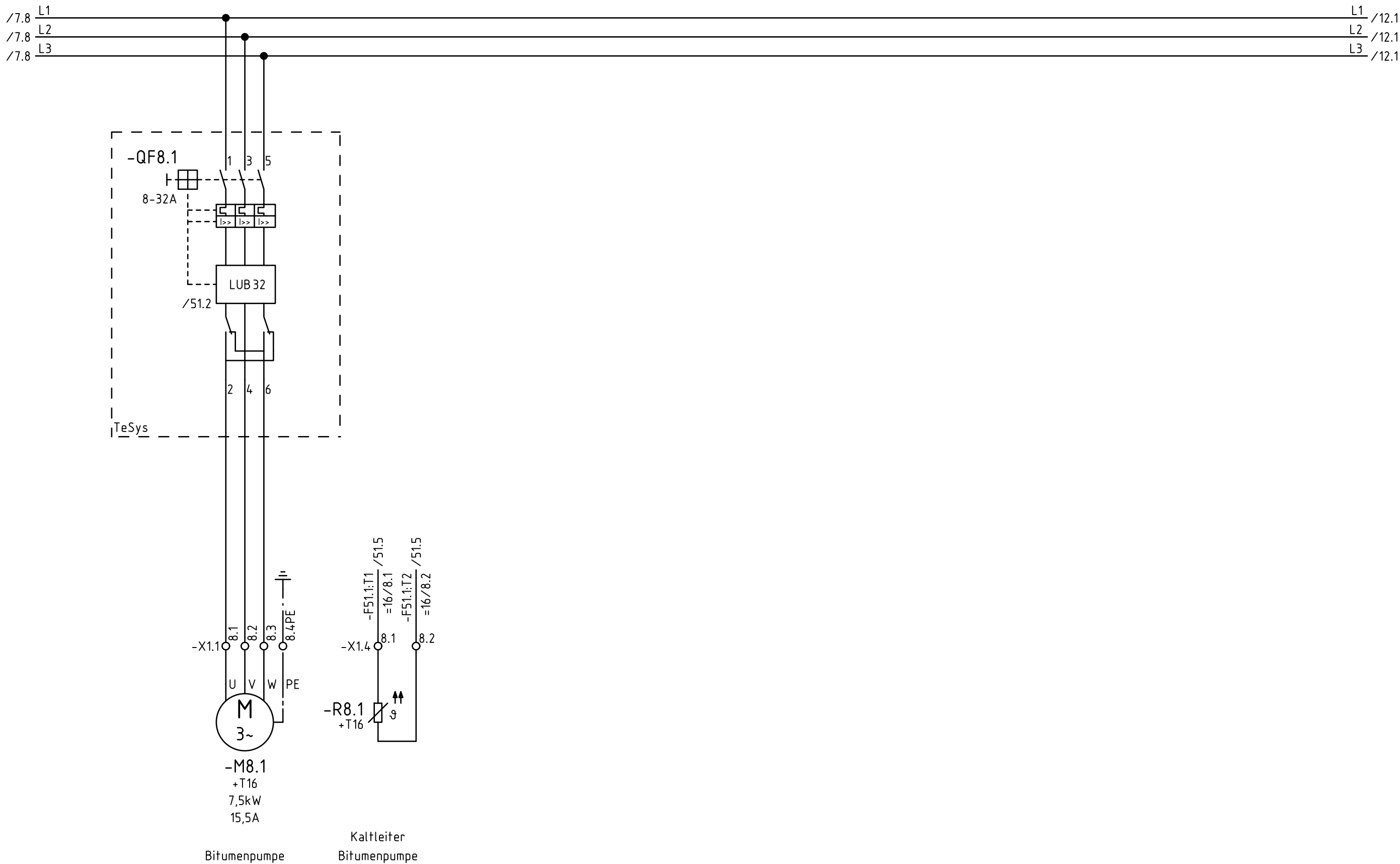





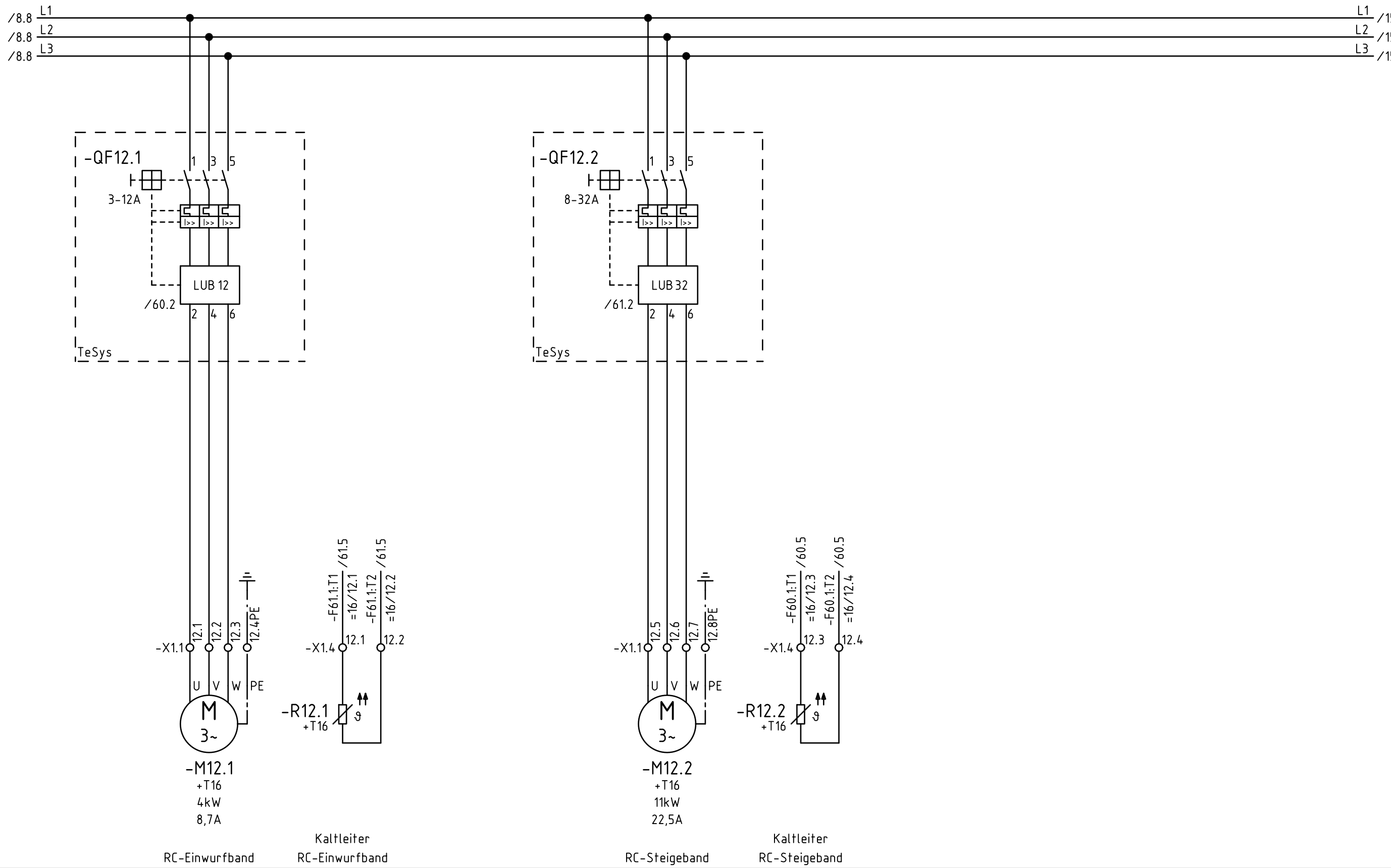





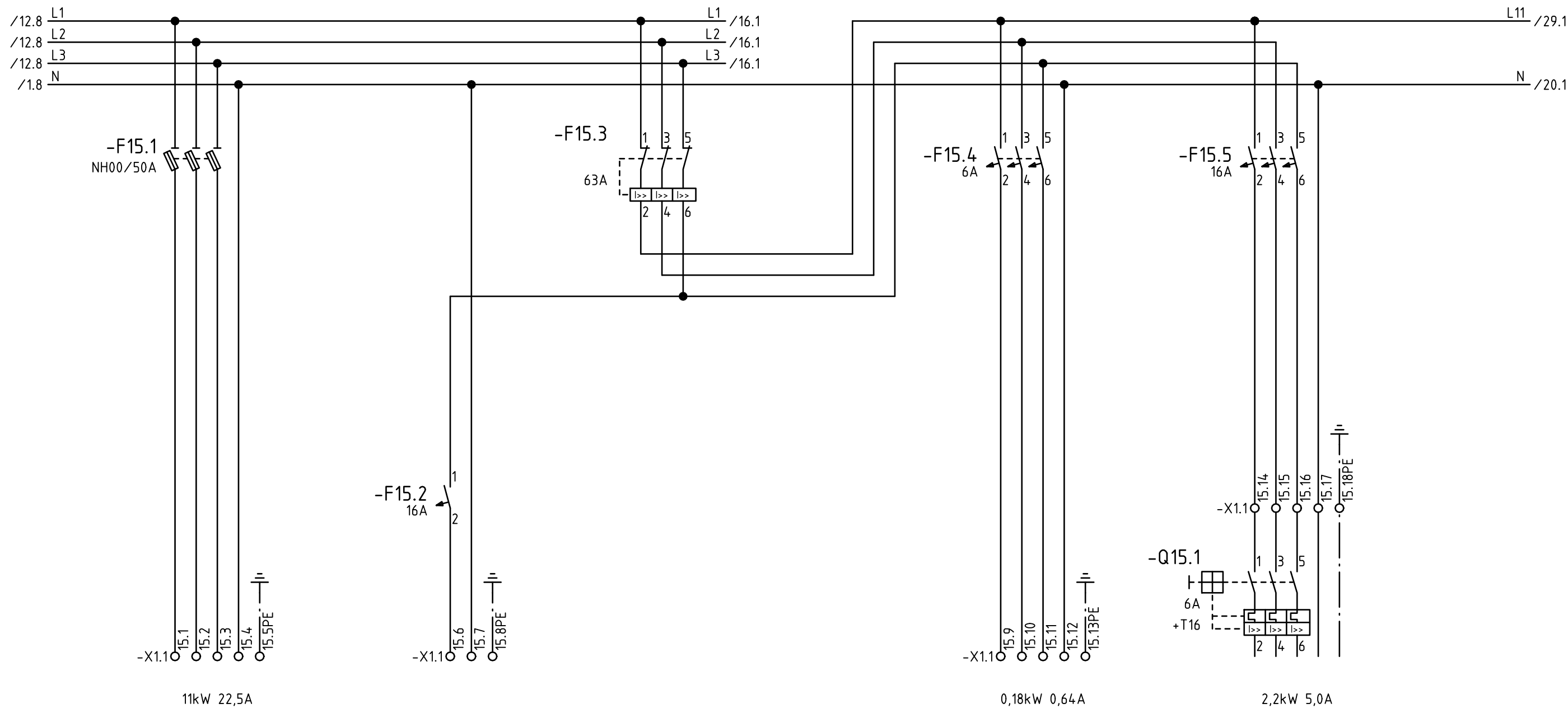




|   |          |       |      |        |            |                 |  |   |  |   |  |          |  |         |  |         |
|---|----------|-------|------|--------|------------|-----------------|--|---|--|---|--|----------|--|---------|--|---------|
| 1 |          | 2     |      | 3      |            | 4               |  | 5   |  | 6   |  | 7        |  | 8       |  |         |
|   |          |       |      |        |            |                 |  |   |  |   |  |          |  |         |  |         |
| c |          |       |      | Datum  | 16.11.2004 | Skanska DS a.s. |  | <div>BENNINGHOVEN</div> <div>GmbH &amp; Co. KG</div> <div></div> |  | Stromlaufplan<br>Misanlage TBA 160<br>Reserve |  | E96-0305 |  | =16     |  | Blatt 9 |
| b |          |       |      | Bearb. |            |                 |  |   |  |   |  |          |  | +E16    |  |         |
| a |          |       |      | Gepr.  |            |                 |  |   |  |   |  |          |  |         |  |         |
|   | Änderung | Datum | Name | Norm   |            | Ersatz durch:   |  | Ersatz für:   |  | Ursprung:                                     |  |          |  | 116 Bl. |  |         |



|   |          |       |      |        |            |                 |  |   |  |  |  |               |  |             |  |          |
|---|----------|-------|------|--------|------------|-----------------|--|---|--|--|--|---------------|--|-------------|--|----------|
| 1 |          | 2     |      | 3      |            | 4               |  | 5   |  | 6  |  | 7             |  | 8           |  |          |
|   |          |       |      |        |            |                 |  |   |  |  |  |               |  |             |  |          |
| c |          |       |      | Datum  | 16.11.2004 | Skanska DS a.s. |  | <div>BENNINGHOVEN</div> <div>GmbH &amp; Co. KG</div> <div></div> |  | Stromlaufplan<br>Misanlage TBA 160<br>Reserve bis Blatt 14 |  | E96-0305      |  | =16         |  | Blatt 13 |
| b |          |       |      | Bearb. |            |                 |  |   |  |  |  |               |  | +E16        |  |          |
| a |          |       |      | Gepr.  |            |                 |  |   |  |  |  | Ersatz durch: |  | Ersatz für: |  |          |
|   | Änderung | Datum | Name | Norm   |            |                 |  |   |  |  |  |               |  | 116 Bl.     |  |          |

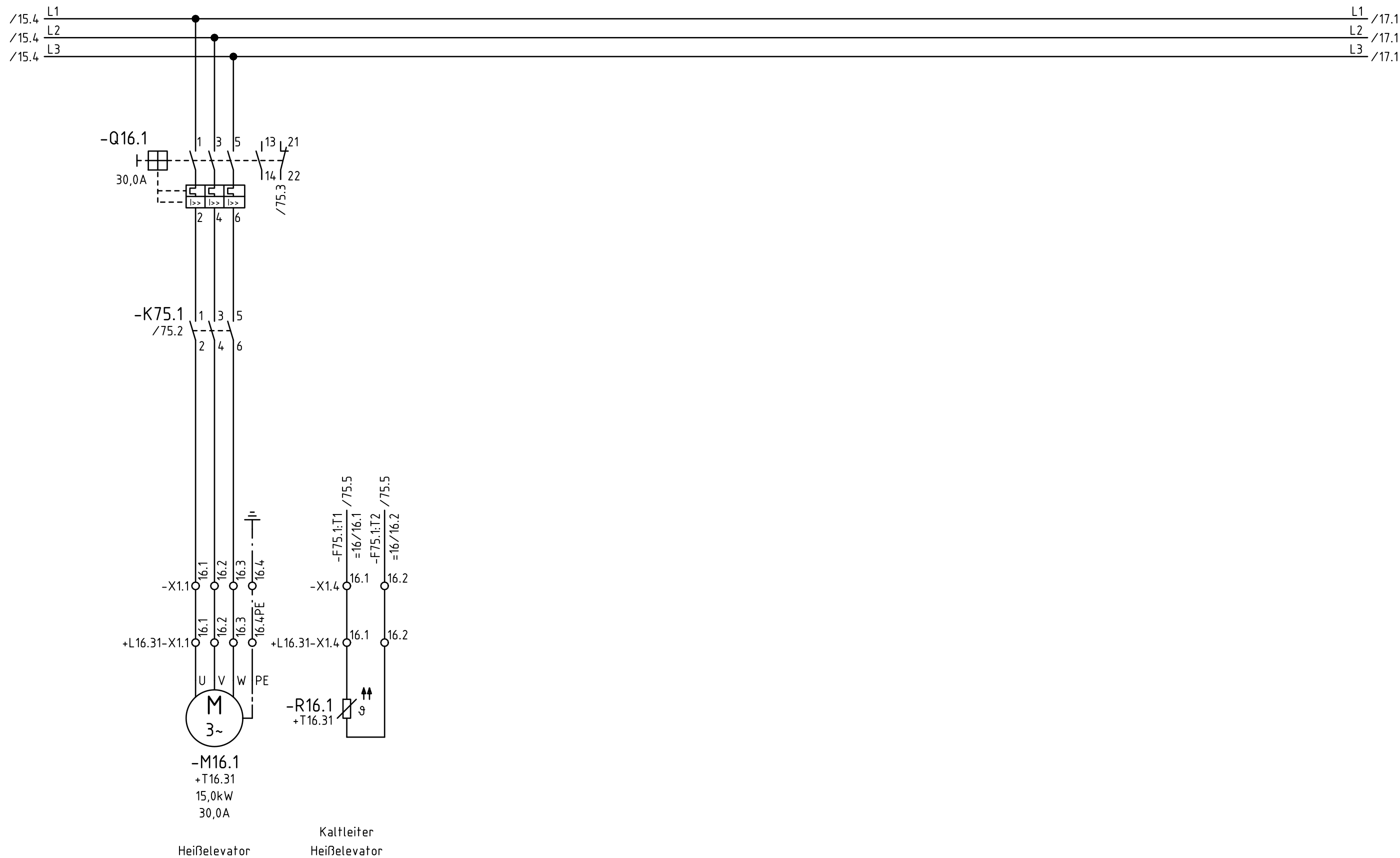


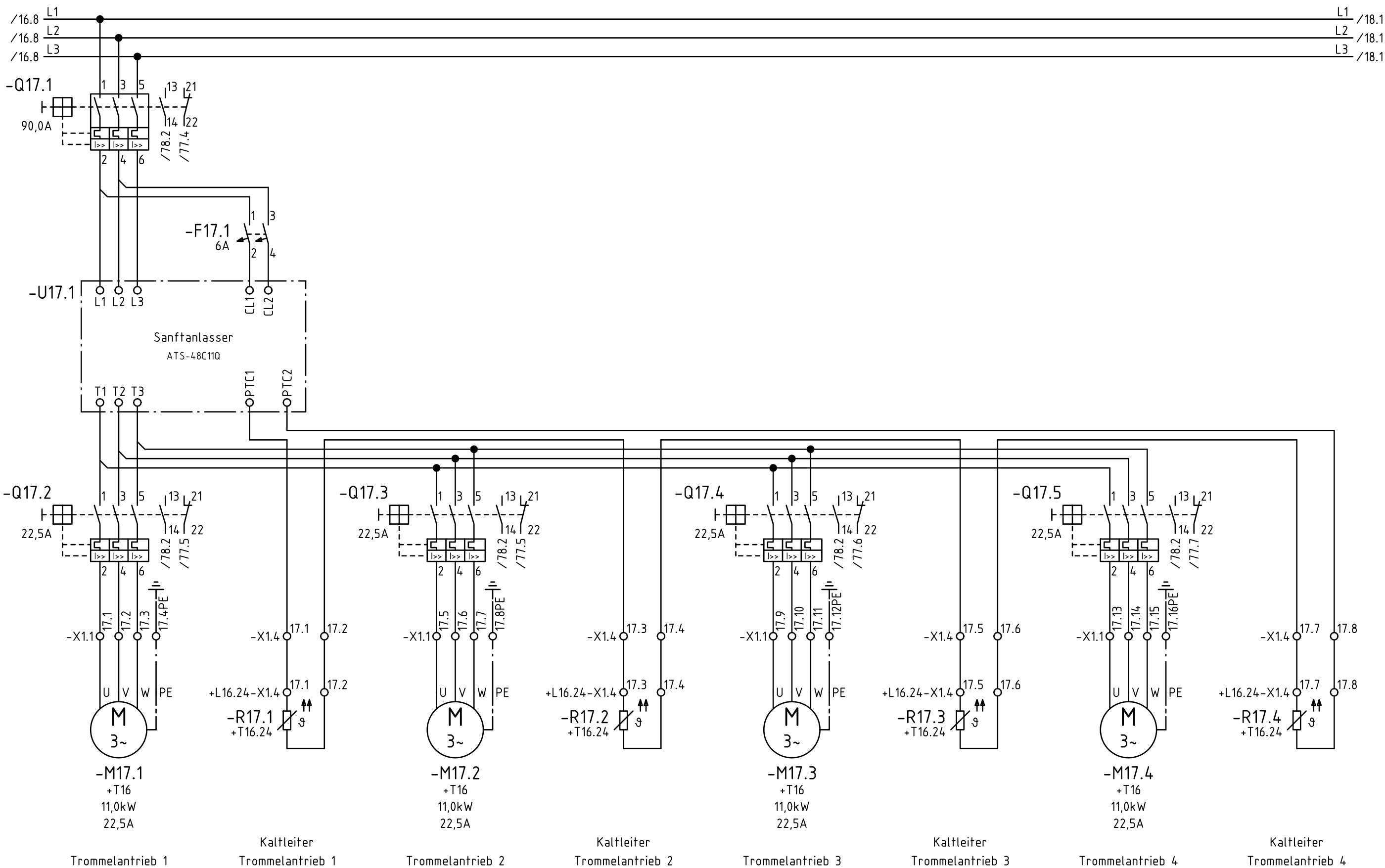
Einspeisung  
Kompressor  
Atlas Copco GA11-10FF

Heizung  
Kompressor

Einspeisung  
Siloaufsatzfilter  
Fremdfüller 1

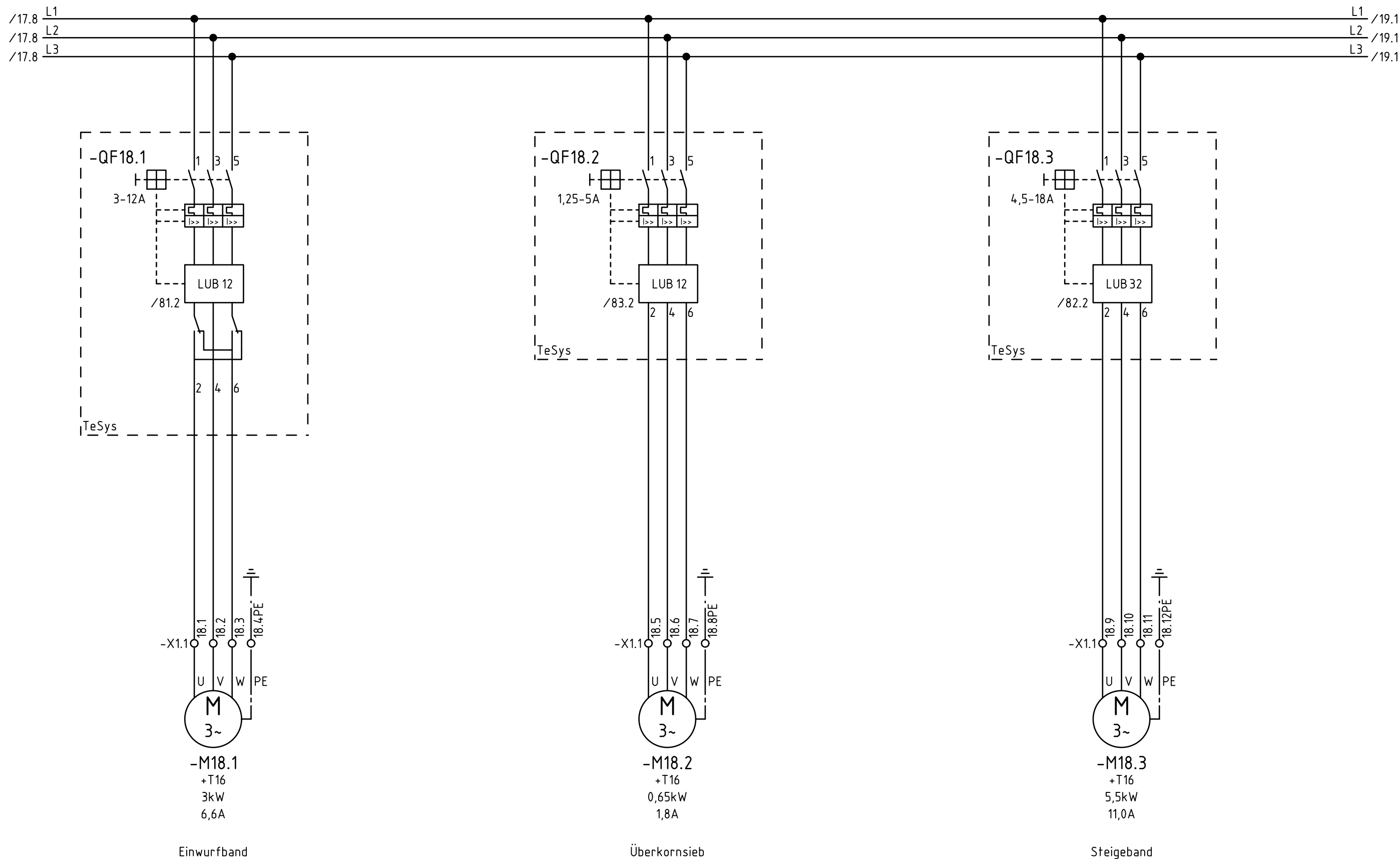
Einspeisung  
Hebezug

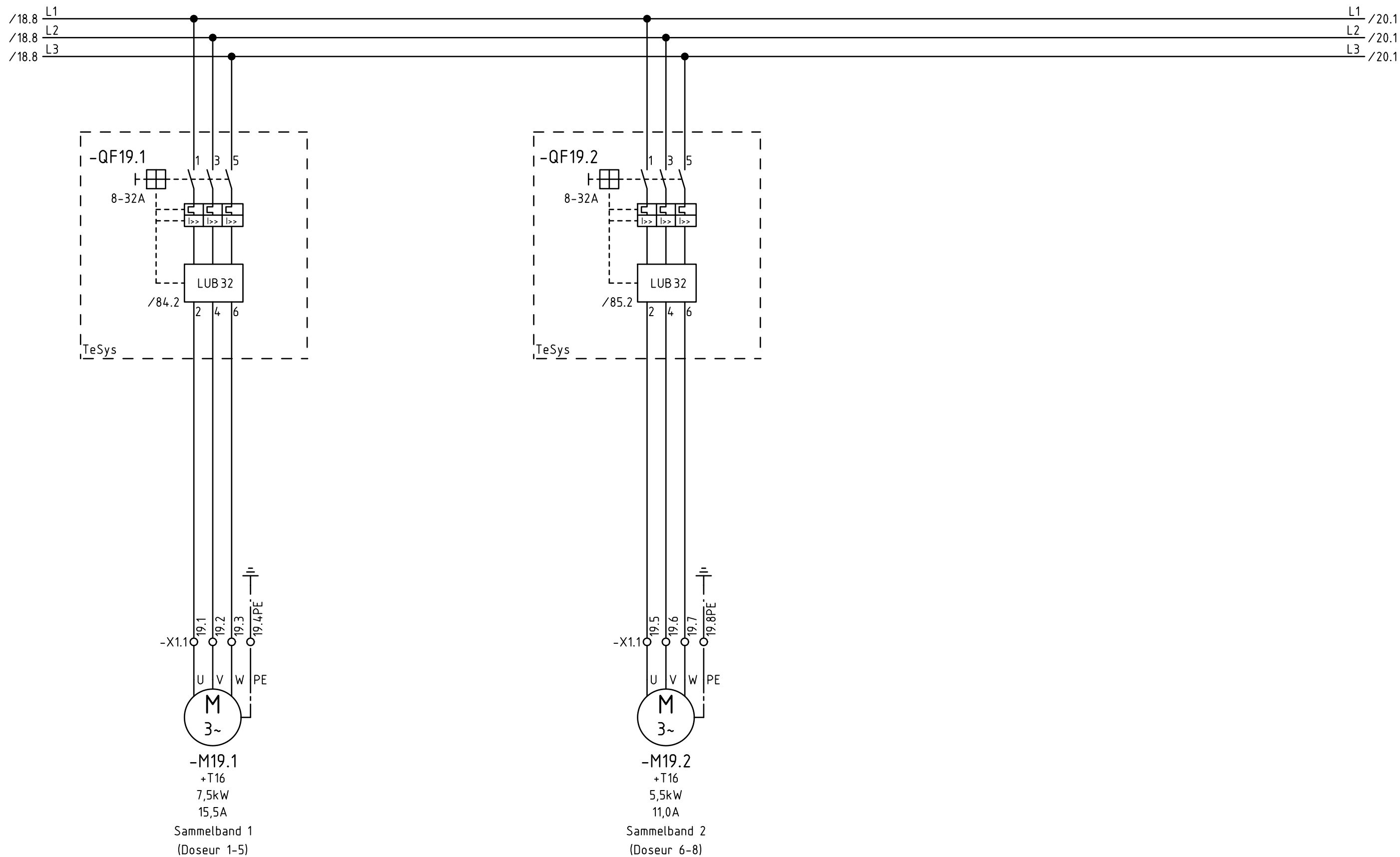


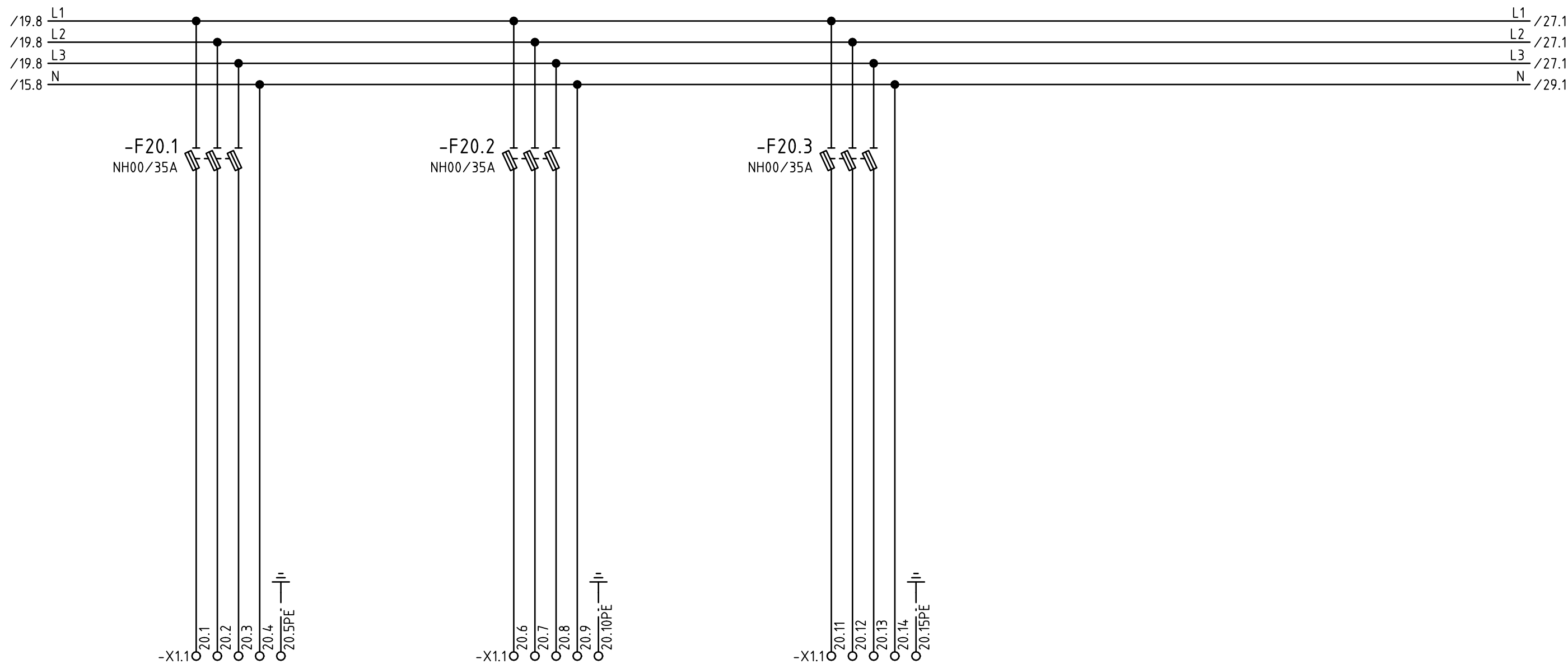


|          |       |      |        |            |                 |             |                                      |  |   |  |          |  |      |          |
|----------|-------|------|--------|------------|-----------------|-------------|--------------------------------------|--|---|--|----------|--|------|----------|
| c        |       |      | Datum  | 16.11.2004 | Skanska DS a.s. |             | <b>BENNINGHOVEN</b><br>GmbH & Co. KG |  | Stromlaufplan<br>Mischanlage TBA 160<br>Leistung Trommelstrecke |  | E96-0305 |  | =16  | Blatt 17 |
| b        |       |      | Bearb. |            |                 |             |                                      |  |   |  |          |  | +E16 |          |
| a        |       |      | Gepr.  |            |                 |             |                                      |  |   |  |          |  |      |          |
| Änderung | Datum | Name | Norm   |            | Ersatz durch:   | Ersatz für: | Ursprung:                            |  |   |  |          |  |      | 116 Bl.  |








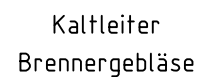



Einspeisung  
Vordosierung 1  
(Doseur 1-5)  
400V 50Hz

Einspeisung  
Vordosierung 2  
(Doseur 6-8)  
400V 50Hz

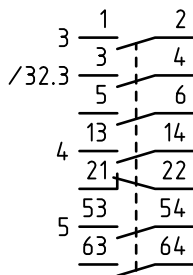
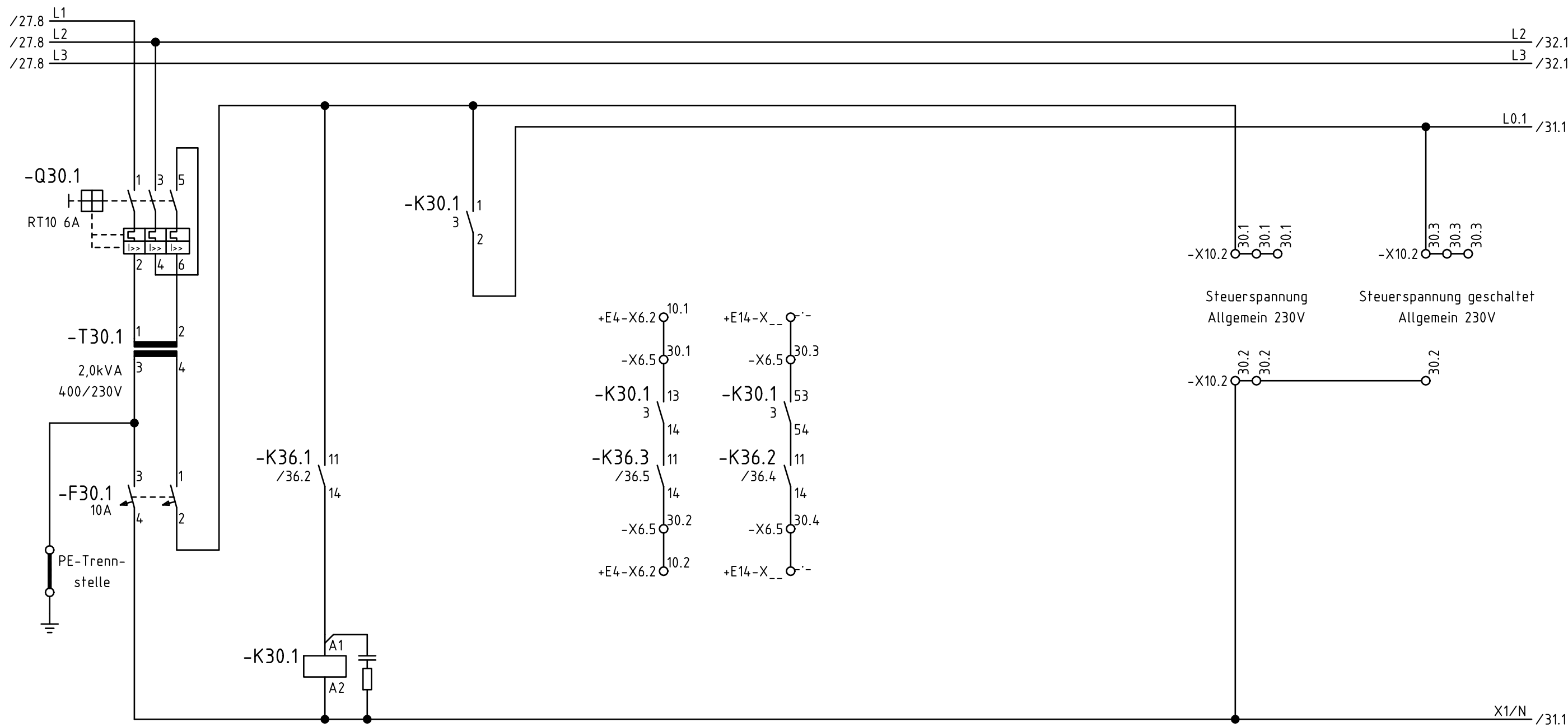
Einspeisung  
RC-Doseur  
400V 50Hz

|   |          |       |      |        |            |                 |  |   |  |  |  |               |  |             |  |          |
|---|----------|-------|------|--------|------------|-----------------|--|---|--|--|--|---------------|--|-------------|--|----------|
| 1 |          | 2     |      | 3      |            | 4               |  | 5   |  | 6  |  | 7             |  | 8           |  |          |
|   |          |       |      |        |            |                 |  |   |  |  |  |               |  |             |  |          |
| c |          |       |      | Datum  | 16.11.2004 | Skanska DS a.s. |  | <div>BENNINGHOVEN</div> <div>GmbH &amp; Co. KG</div> <div></div> |  | Stromlaufplan<br>Misanlage TBA 160<br>Reserve bis Blatt 26 |  | E96-0305      |  | =16         |  | Blatt 21 |
| b |          |       |      | Bearb. |            |                 |  |   |  |  |  |               |  | +E16        |  |          |
| a |          |       |      | Gepr.  |            |                 |  |   |  |  |  | Ersatz durch: |  | Ersatz für: |  |          |
|   | Änderung | Datum | Name | Norm   |            |                 |  |   |  |  |  |               |  | 116 Bl.     |  |          |



|   |          |       |        |       |            |                 |  |   |  |  |  |          |  |     |  |          |
|---|----------|-------|--------|-------|------------|-----------------|--|---|--|--|--|----------|--|-----|--|----------|
| 1 |          | 2     |        | 3     |            | 4               |  | 5   |  | 6  |  | 7        |  | 8   |  |          |
|   |          |       |        |       |            |                 |  |   |  |  |  |          |  |     |  |          |
| c |          |       |        | Datum | 16.11.2004 | Skanska DS a.s. |  | <div>BENNINGHOVEN</div> <div>GmbH &amp; Co. KG</div> <div></div> |  | Stromlaufplan<br>Misanlage TBA 160<br>Leistung Brenner Reserve |  | E96-0305 |  | =16 |  | Blatt 28 |
| b |          |       | Bearb. |       | +E16       |                 |  |   |  |  |  |          |  |     |  |          |
| a |          |       |        | Gepr. |            |                 |  |   |  |  |  |          |  |     |  |          |
|   | Änderung | Datum | Name   | Norm  |            | Ersatz durch:   |  | Ersatz für:   |  | Ursprung:  |  |          |  |     |  |          |



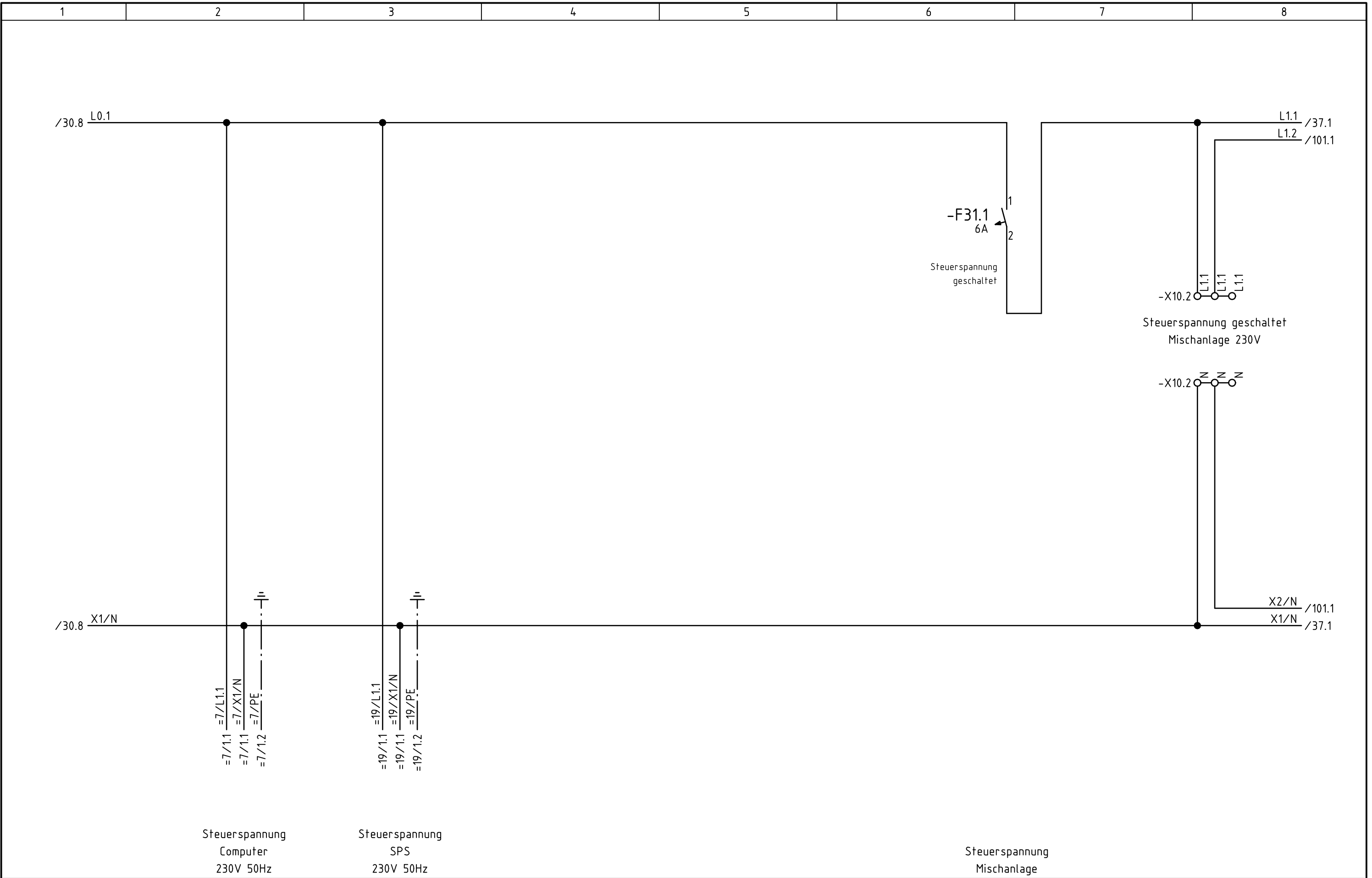


Steuerung aus/ein

Freigabe  
Verladesilo

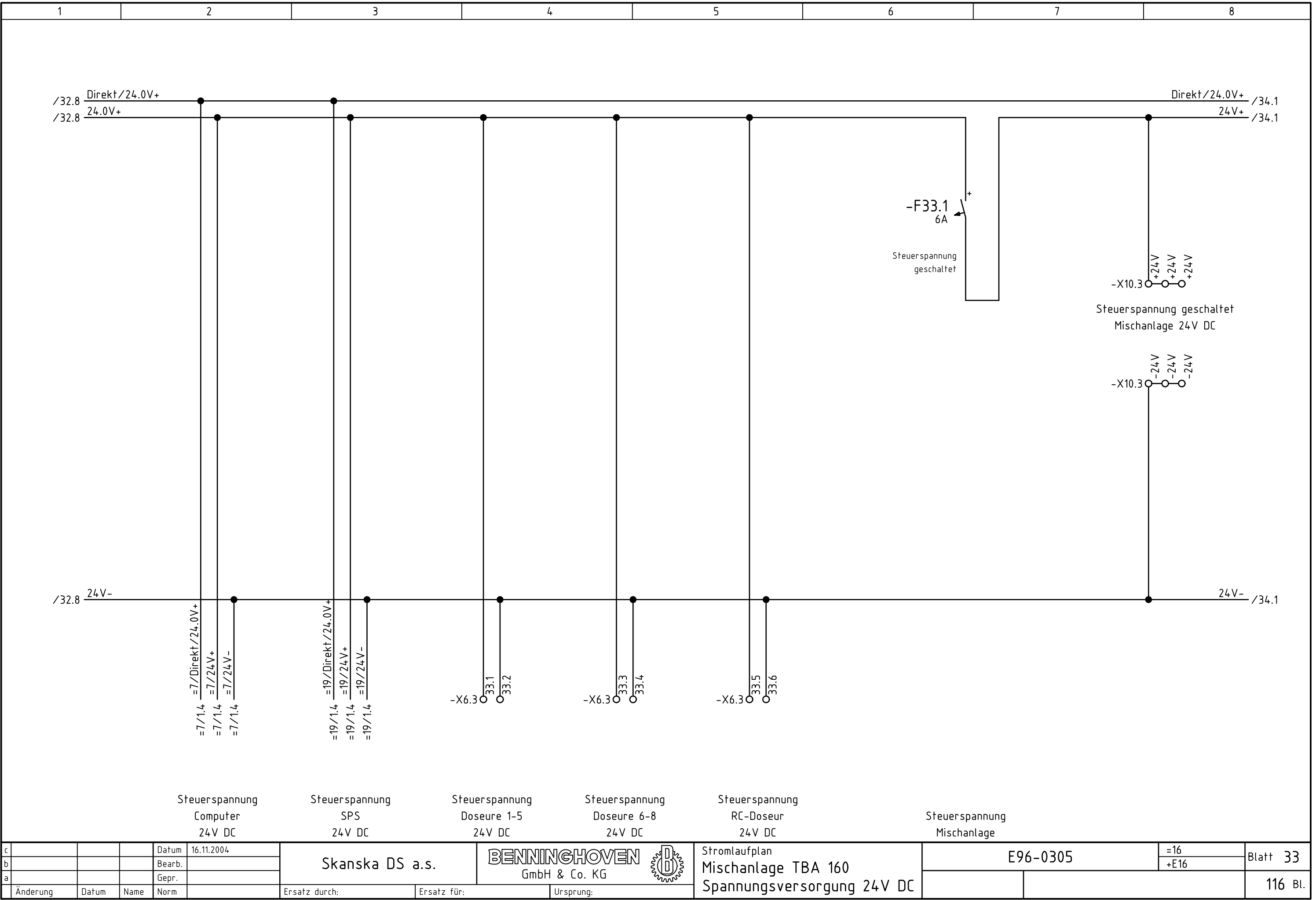
Freigabe  
Filter

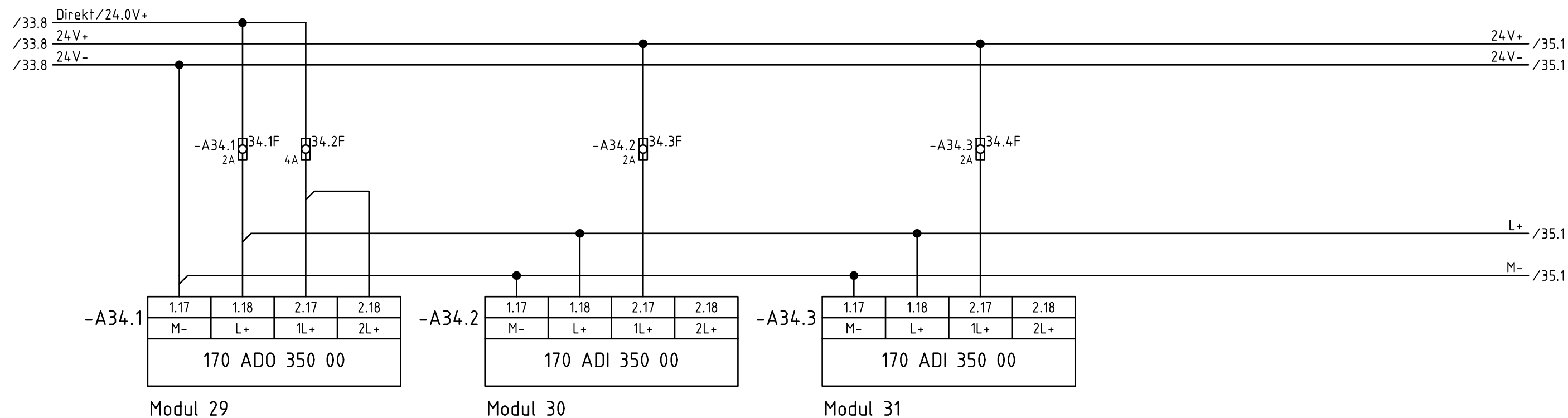




|          |  |       |      |        |            |                 |  |                                      |  |  |  |          |  |      |          |
|----------|--|-------|------|--------|------------|-----------------|--|--------------------------------------|--|--|--|----------|--|------|----------|
| c        |  |       |      | Datum  | 16.11.2004 | Skanska DS a.s. |  | <b>BENNINGHOVEN</b><br>GmbH & Co. KG |  | Stromlaufplan<br>Mischanlage TBA 160<br>Spannungsversorgung 230V |  | E96-0305 |  | =16  | Blatt 31 |
| b        |  |       |      | Bearb. |            |                 |  |                                      |  |  |  |          |  | +E16 |          |
| a        |  |       |      | Gepr.  |            |                 |  |                                      |  |  |  |          |  |      |          |
| Änderung |  | Datum | Name | Norm   |            | Ersatz durch:   |  | Ersatz für:                          |  | Ursprung:  |  |          |  |      | 116 Bl.  |

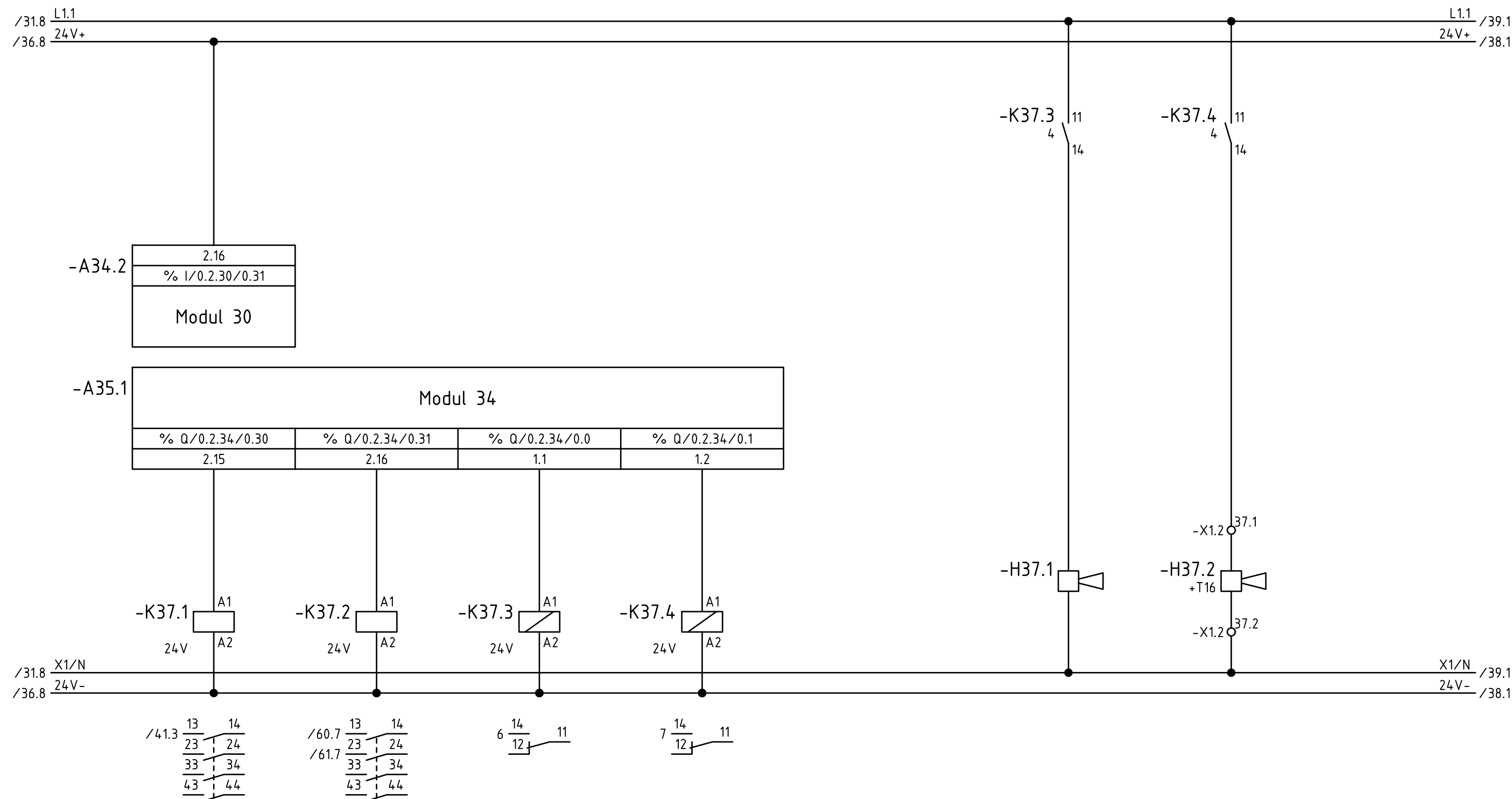


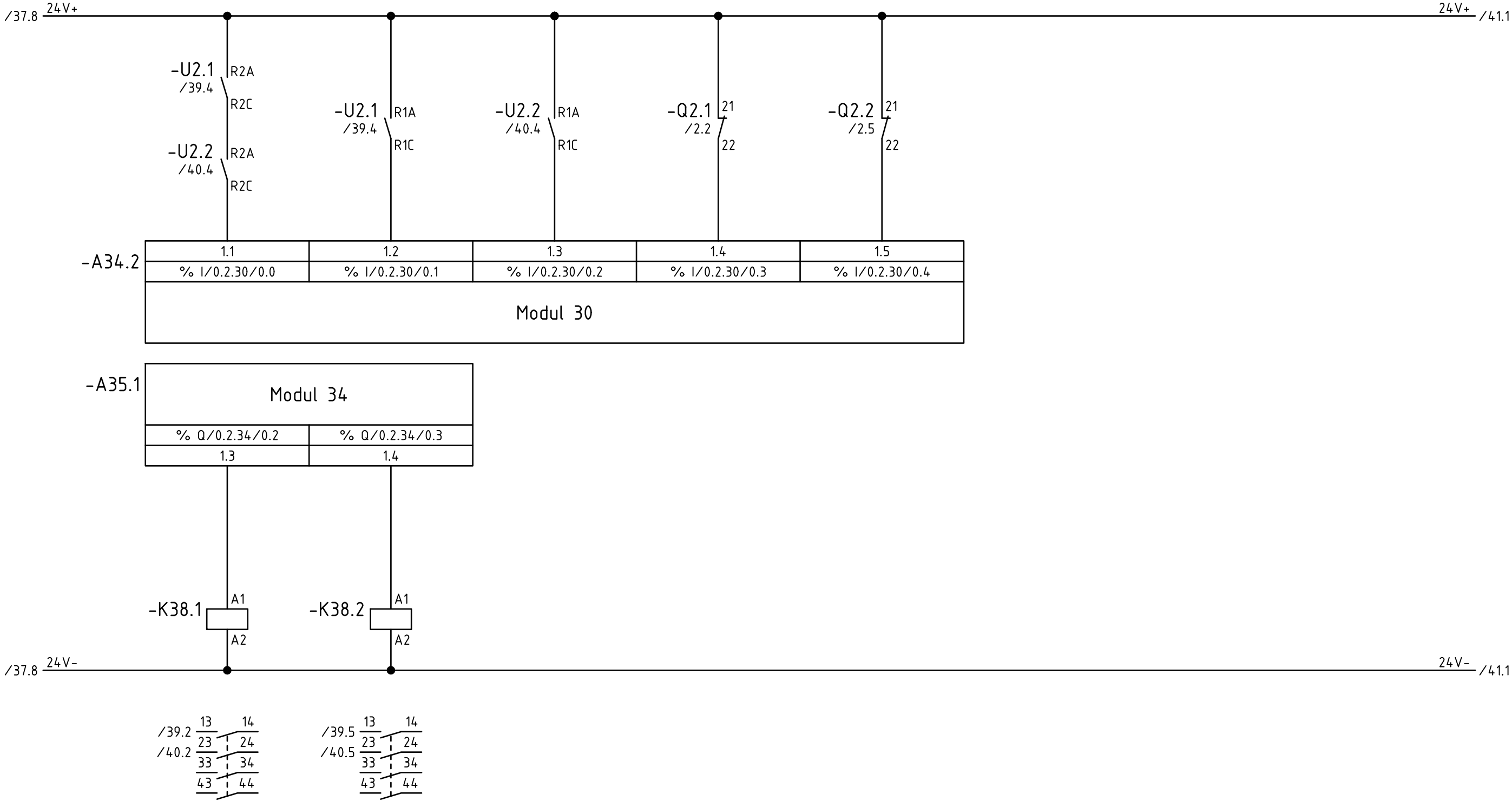




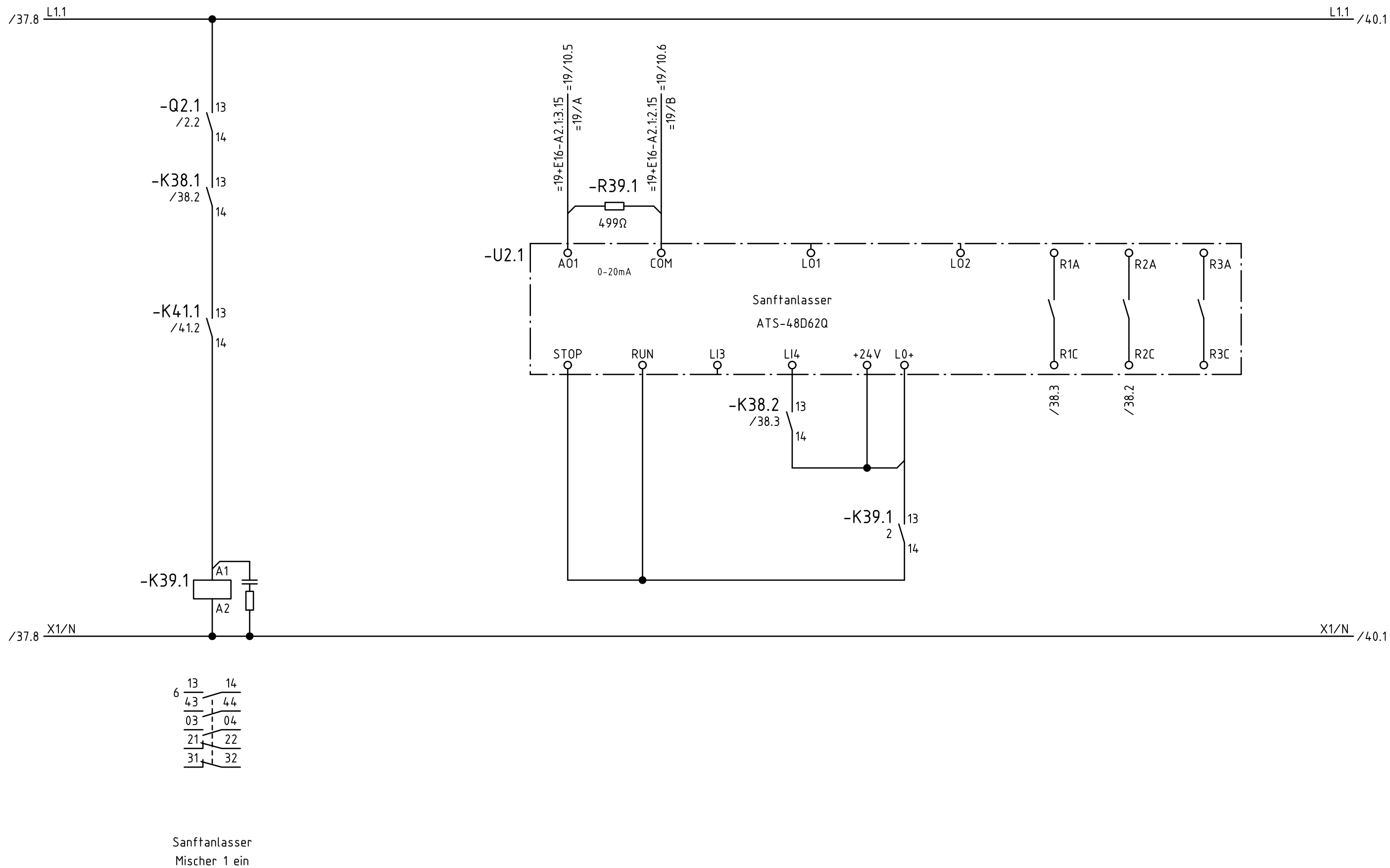


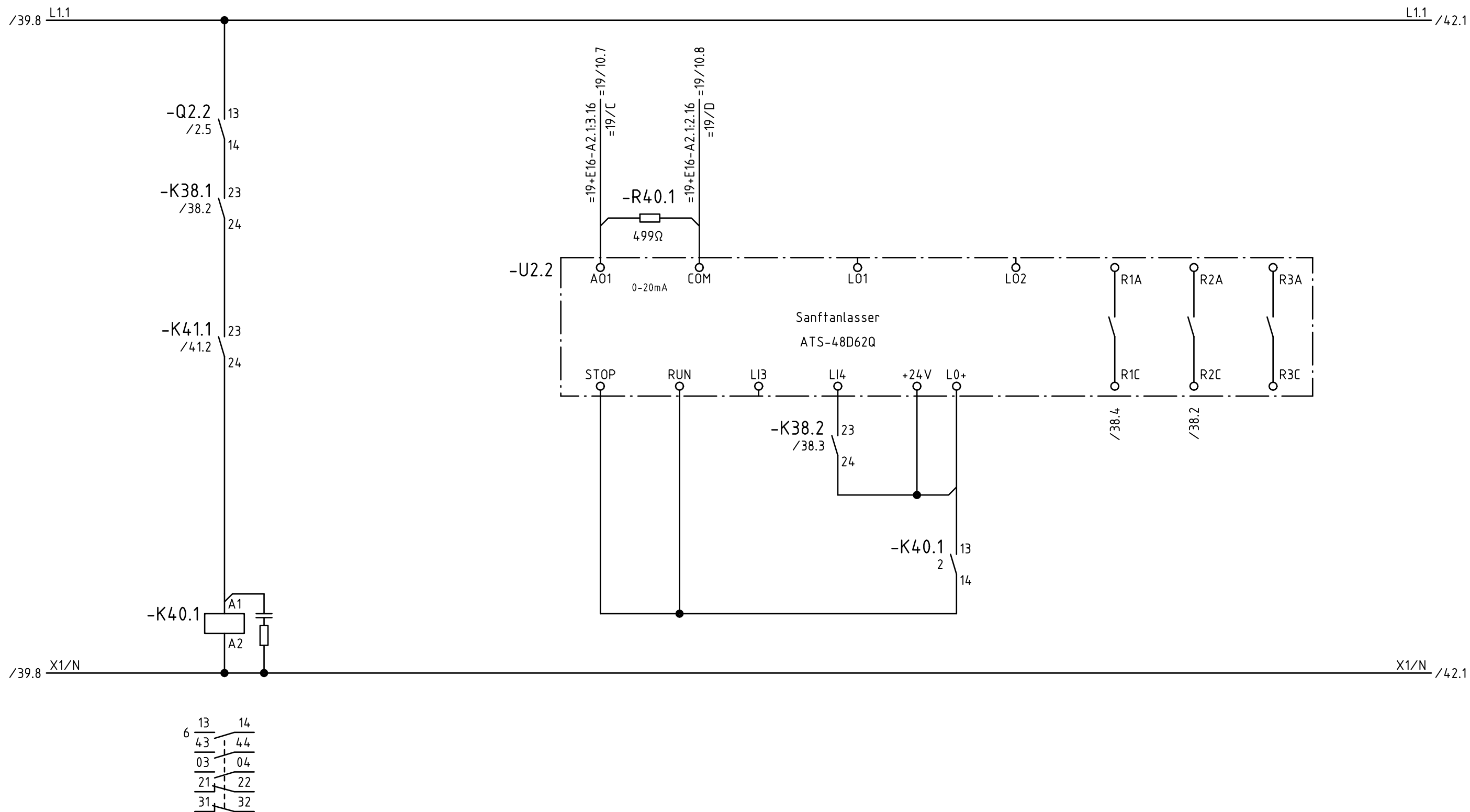




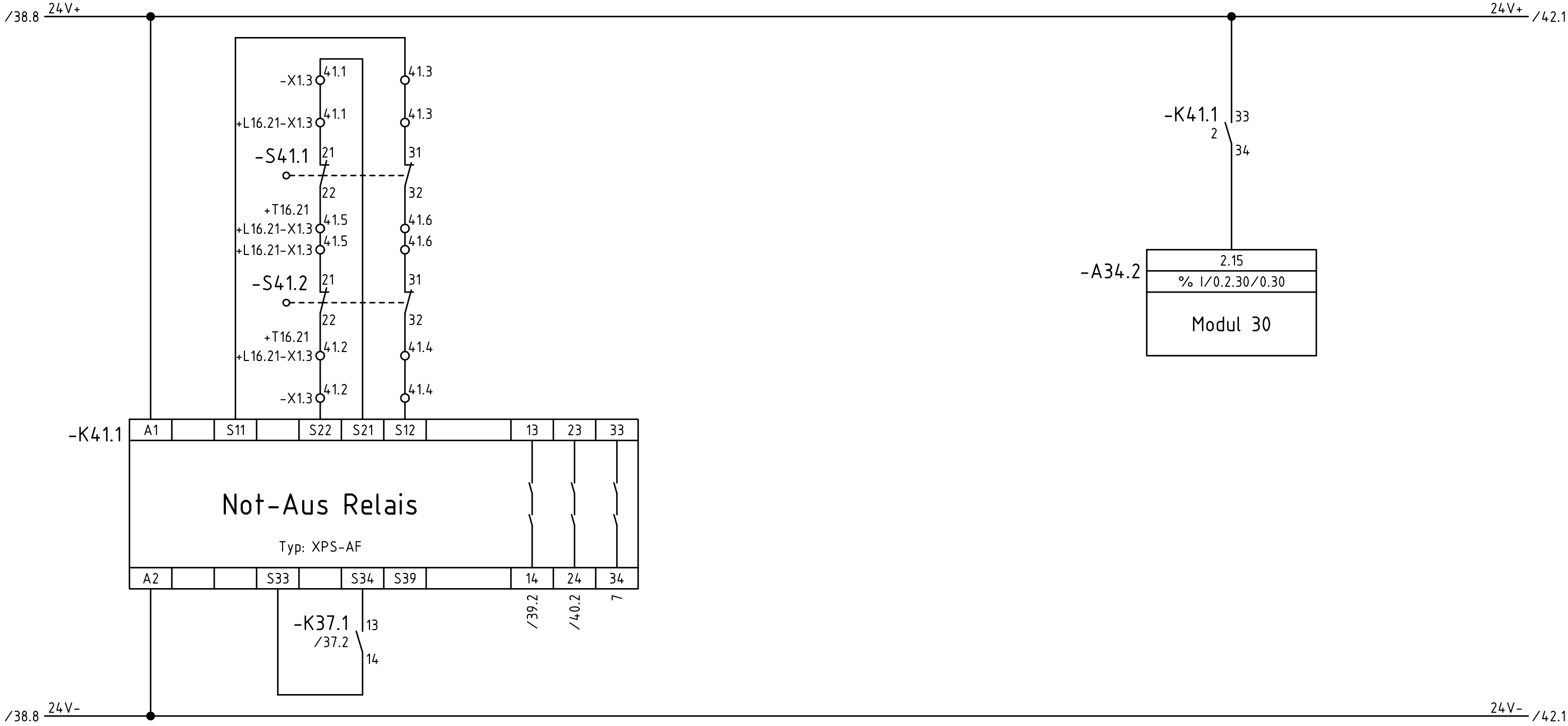




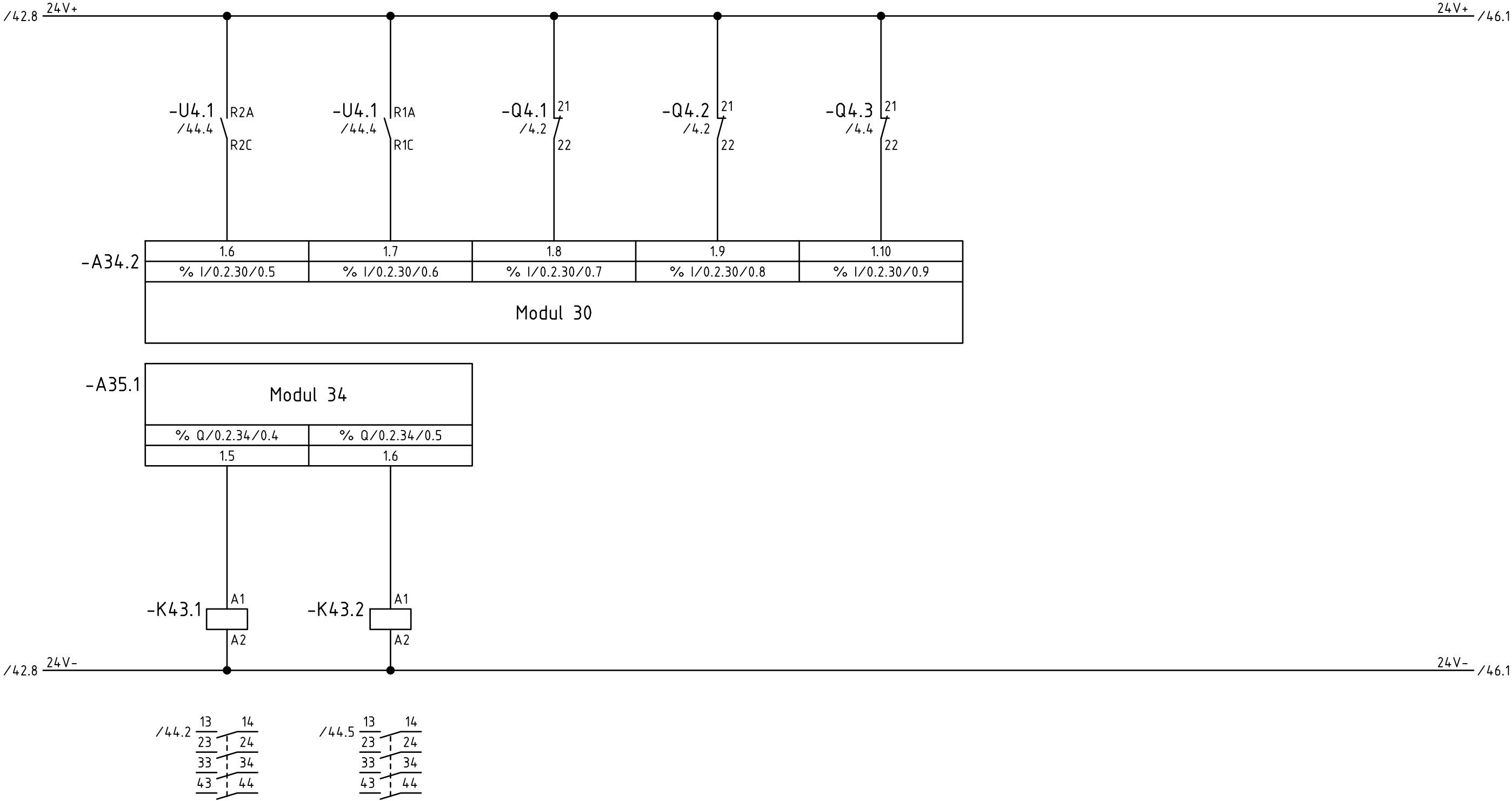


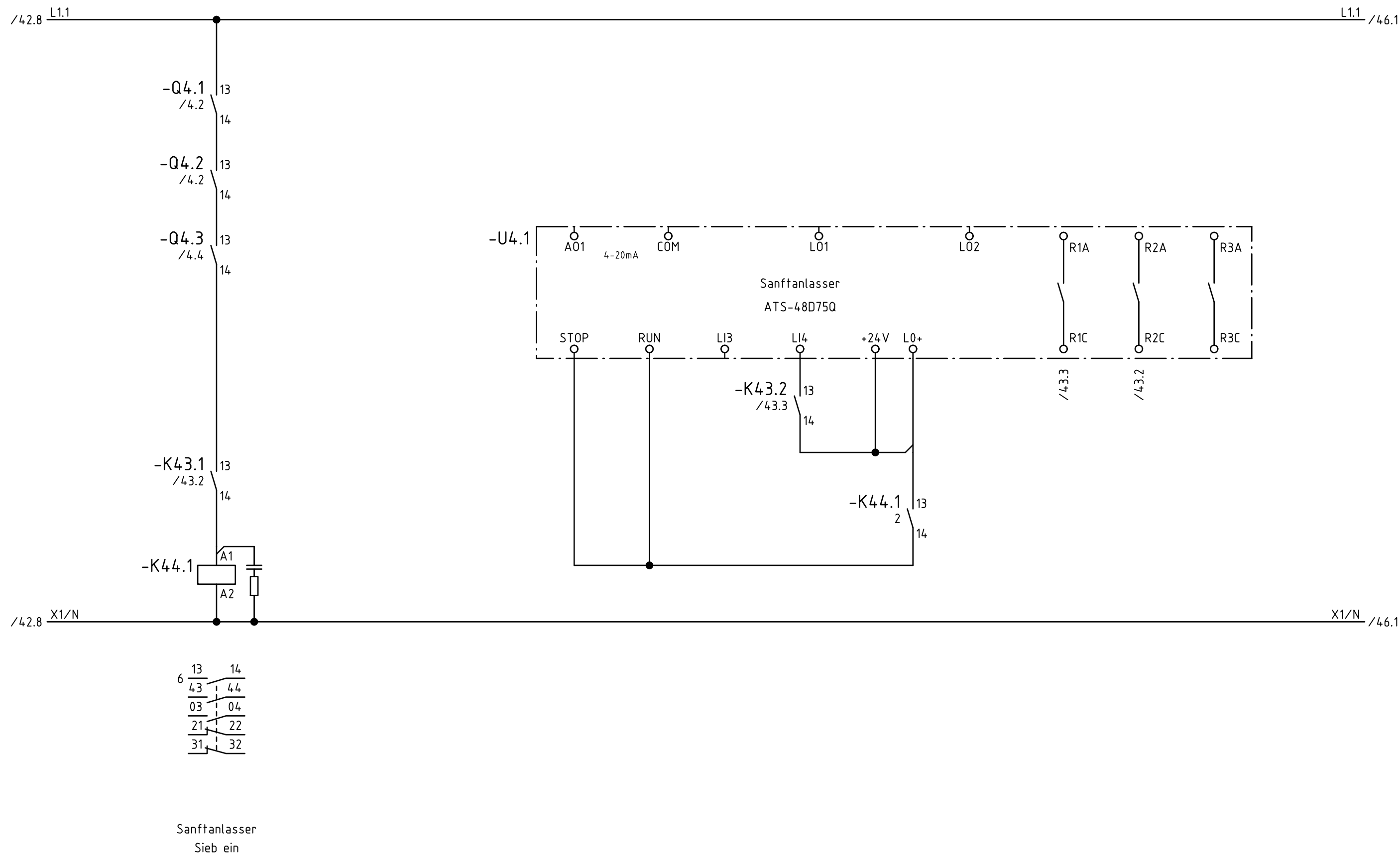



Sanftanlasser  
Mischer 2 ein

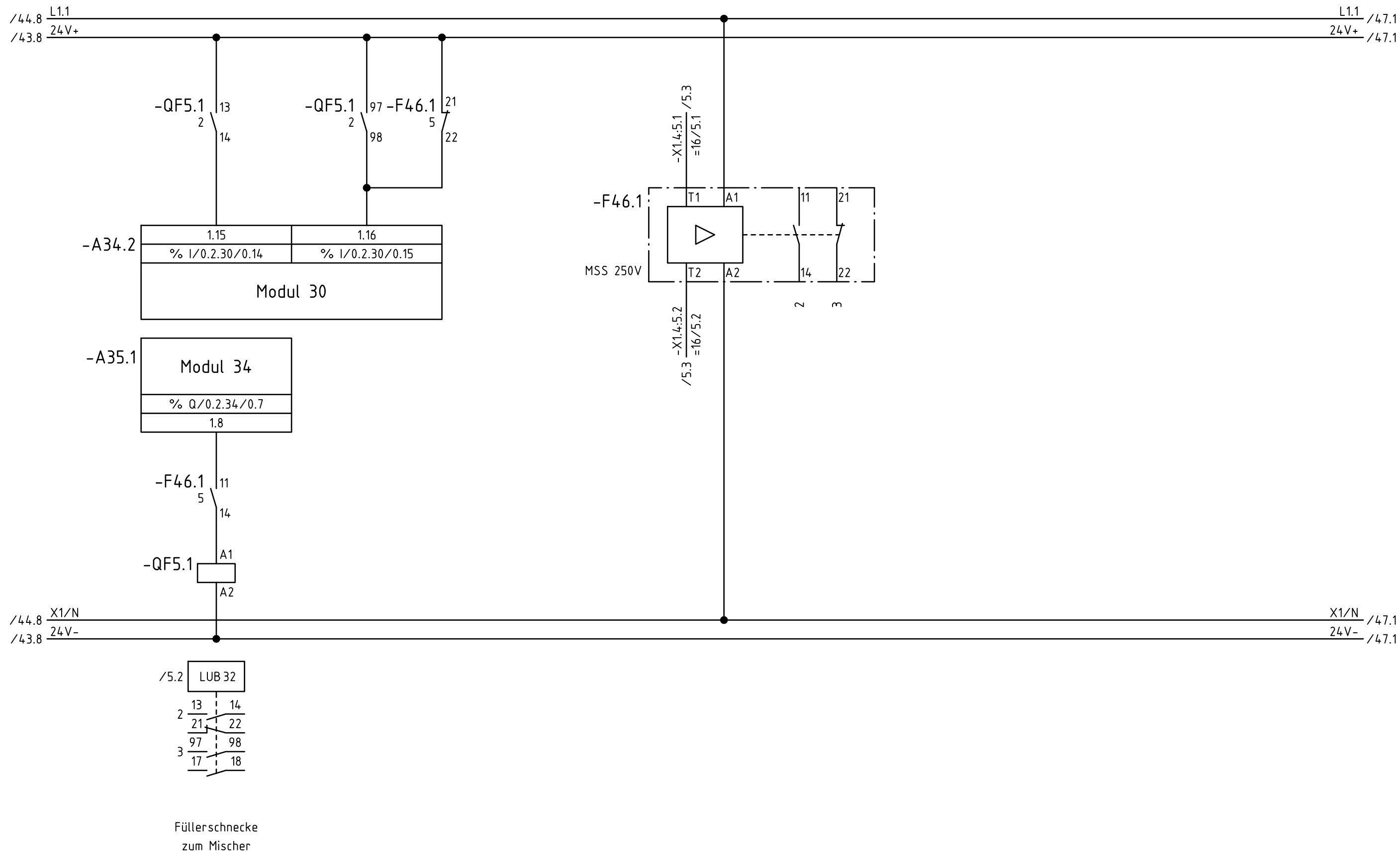








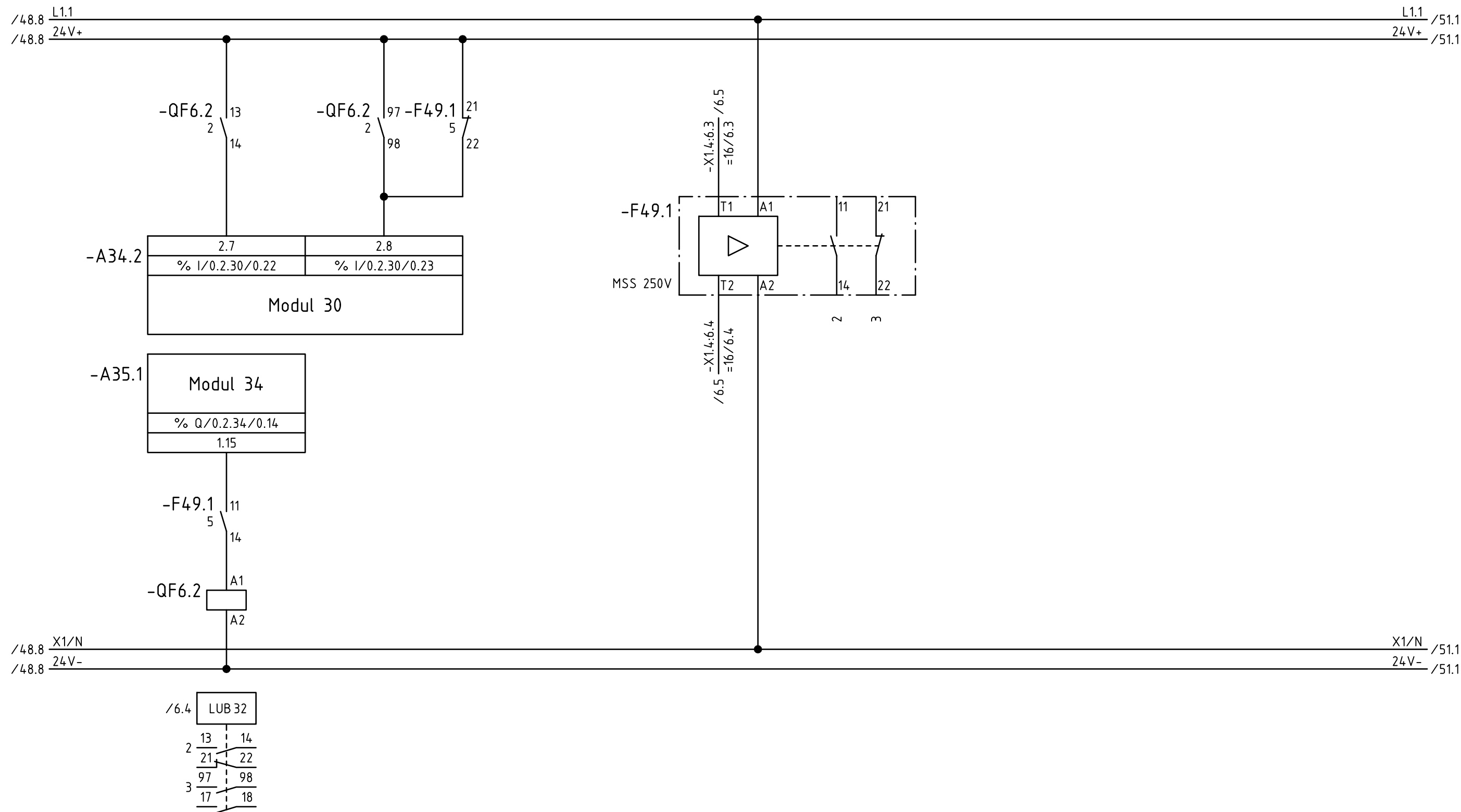
|   |          |       |      |        |            |                 |  |   |  |   |  |               |  |             |  |           |
|---|----------|-------|------|--------|------------|-----------------|--|---|--|---|--|---------------|--|-------------|--|-----------|
| 1 |          | 2     |      | 3      |            | 4               |  | 5   |  | 6   |  | 7             |  | 8           |  |           |
|   |          |       |      |        |            |                 |  |   |  |   |  |               |  |             |  |           |
| c |          |       |      | Datum  | 16.11.2004 | Skanska DS a.s. |  | <div>BENNINGHOVEN</div> <div>GmbH &amp; Co. KG</div> <div></div> |  | Stromlaufplan<br>Misanlage TBA 160<br>Steuerung Reserve |  | E96-0305      |  | =16         |  | Blatt 45  |
| b |          |       |      | Bearb. |            |                 |  |   |  |   |  |               |  | +E16        |  |           |
| a |          |       |      | Gepr.  |            |                 |  |   |  |   |  | Ersatz durch: |  | Ersatz für: |  | Ursprung: |
|   | Änderung | Datum | Name | Norm   |            |                 |  |   |  |   |  |               |  |             |  |           |




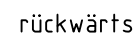





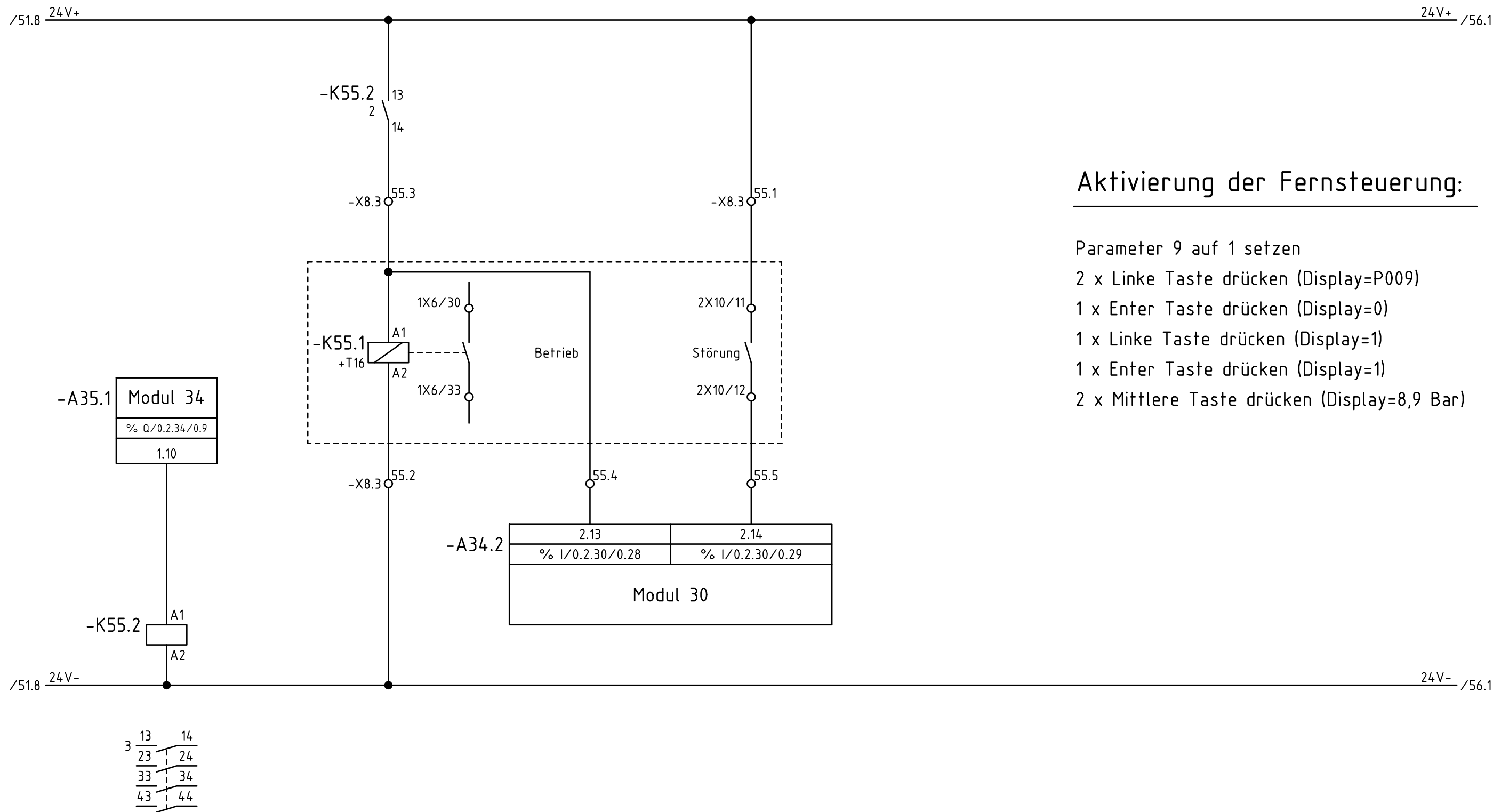




|   |          |       |      |        |            |                 |  |   |  |   |  |   |          |   |      |  |          |
|---|----------|-------|------|--------|------------|-----------------|--|---|--|---|--|---|----------|---|------|--|----------|
| 1 |          | 2     |      | 3      |            | 4               |  | 5   |  | 6   |  | 7 |          | 8 |      |  |          |
|   |          |       |      |        |            |                 |  |   |  |   |  |   |          |   |      |  |          |
| c |          |       |      | Datum  | 16.11.2004 | Skanska DS a.s. |  | <div>BENNINGHOVEN</div> <div>GmbH &amp; Co. KG</div> <div></div> |  | Stromlaufplan<br>Mischanlage TBA 160<br>Steuerung Reserve |  |   | E96-0305 |   | =16  |  | Blatt 50 |
| b |          |       |      | Bearb. |            |                 |  |   |  |   |  |   |          |   | +E16 |  |          |
| a |          |       |      | Gepr.  |            |                 |  |   |  |   |  |   |          |   |      |  |          |
|   | Änderung | Datum | Name | Norm   |            | Ersatz durch:   |  | Ersatz für:   |  | Ursprung:   |  |   |          |   |      |  |          |

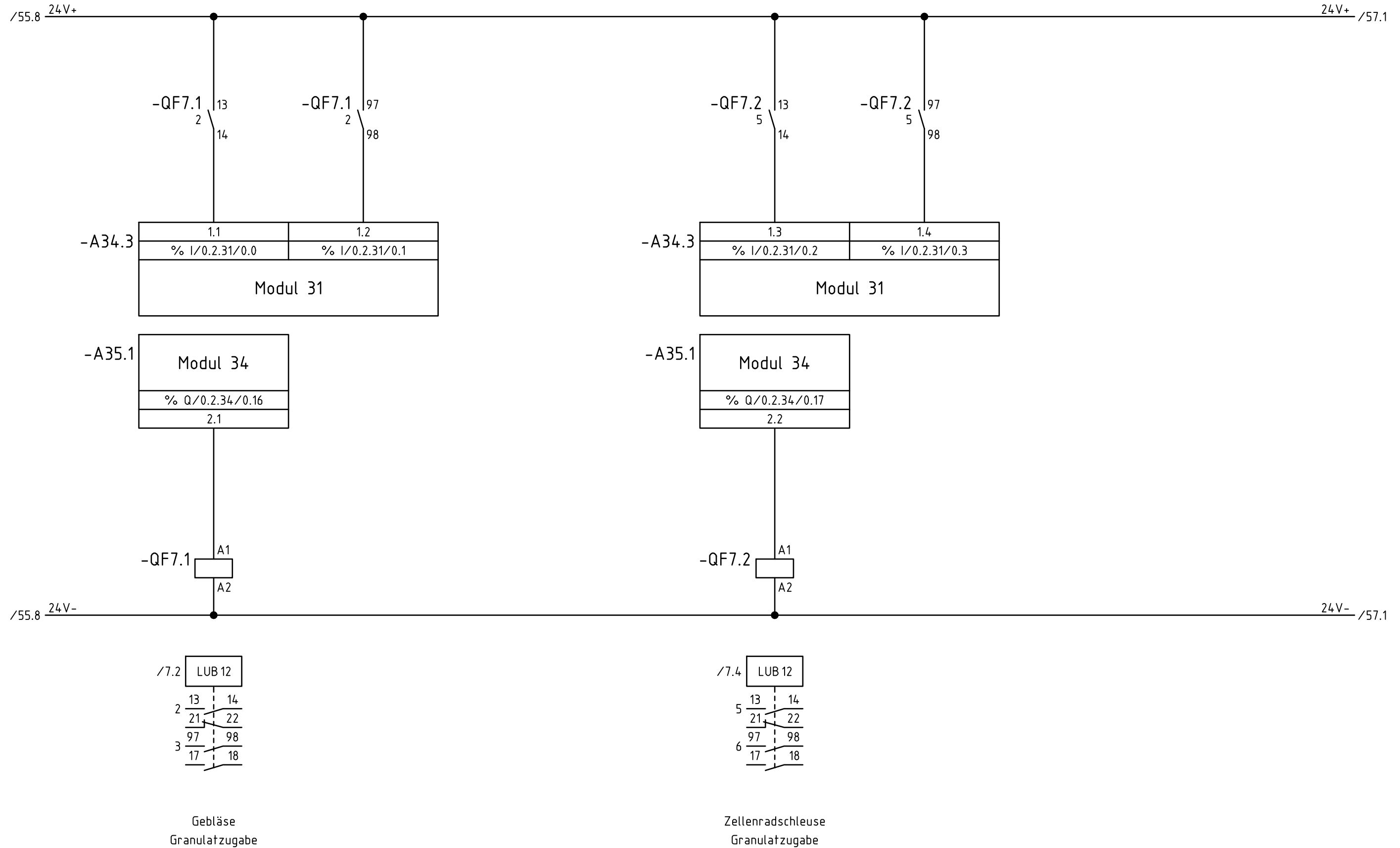


|   |          |       |      |        |            |                 |             |   |  |  |  |          |         |      |  |          |
|---|----------|-------|------|--------|------------|-----------------|-------------|---|--|--|--|----------|---------|------|--|----------|
| 1 |          | 2     |      | 3      |            | 4               |             | 5   |  | 6  |  | 7        |         | 8    |  |          |
|   |          |       |      |        |            |                 |             |   |  |  |  |          |         |      |  |          |
| c |          |       |      | Datum  | 16.11.2004 | Skanska DS a.s. |             | <div>BENNINGHOVEN</div> <div>GmbH &amp; Co. KG</div> <div></div> |  | Stromlaufplan<br>Misanlage TBA 160<br>Reserve bis Blatt 54 |  | E96-0305 |         | =16  |  | Blatt 52 |
| b |          |       |      | Bearb. |            |                 |             |   |  |  |  |          |         | +E16 |  |          |
| a |          |       |      | Gepr.  |            |                 |             |   |  |  |  |          |         |      |  |          |
|   | Änderung | Datum | Name | Norm   |            | Ersatz durch:   | Ersatz für: | Ursprung:   |  |  |  |          | 116 Bl. |      |  |          |

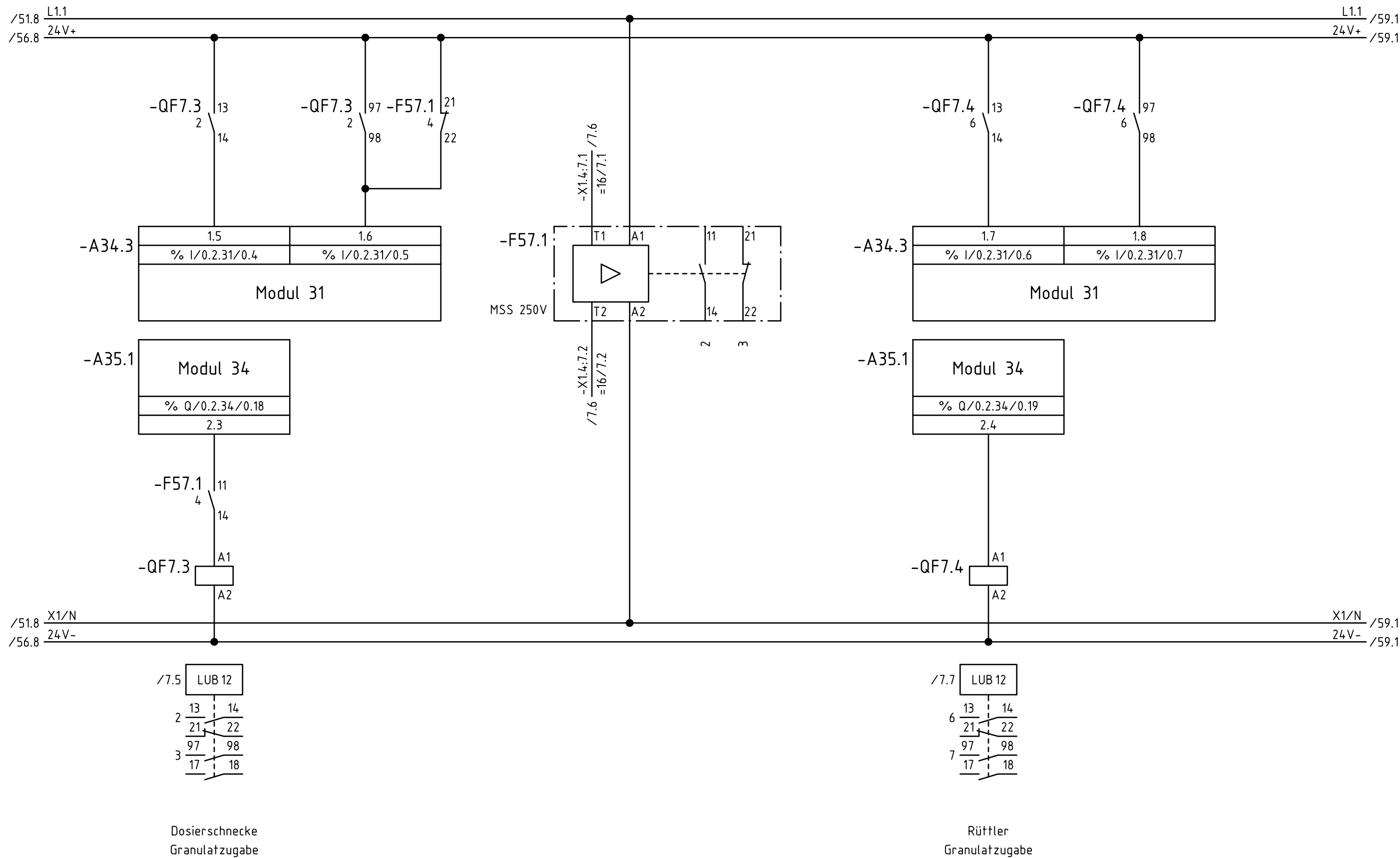



### Aktivierung der Fernsteuerung:

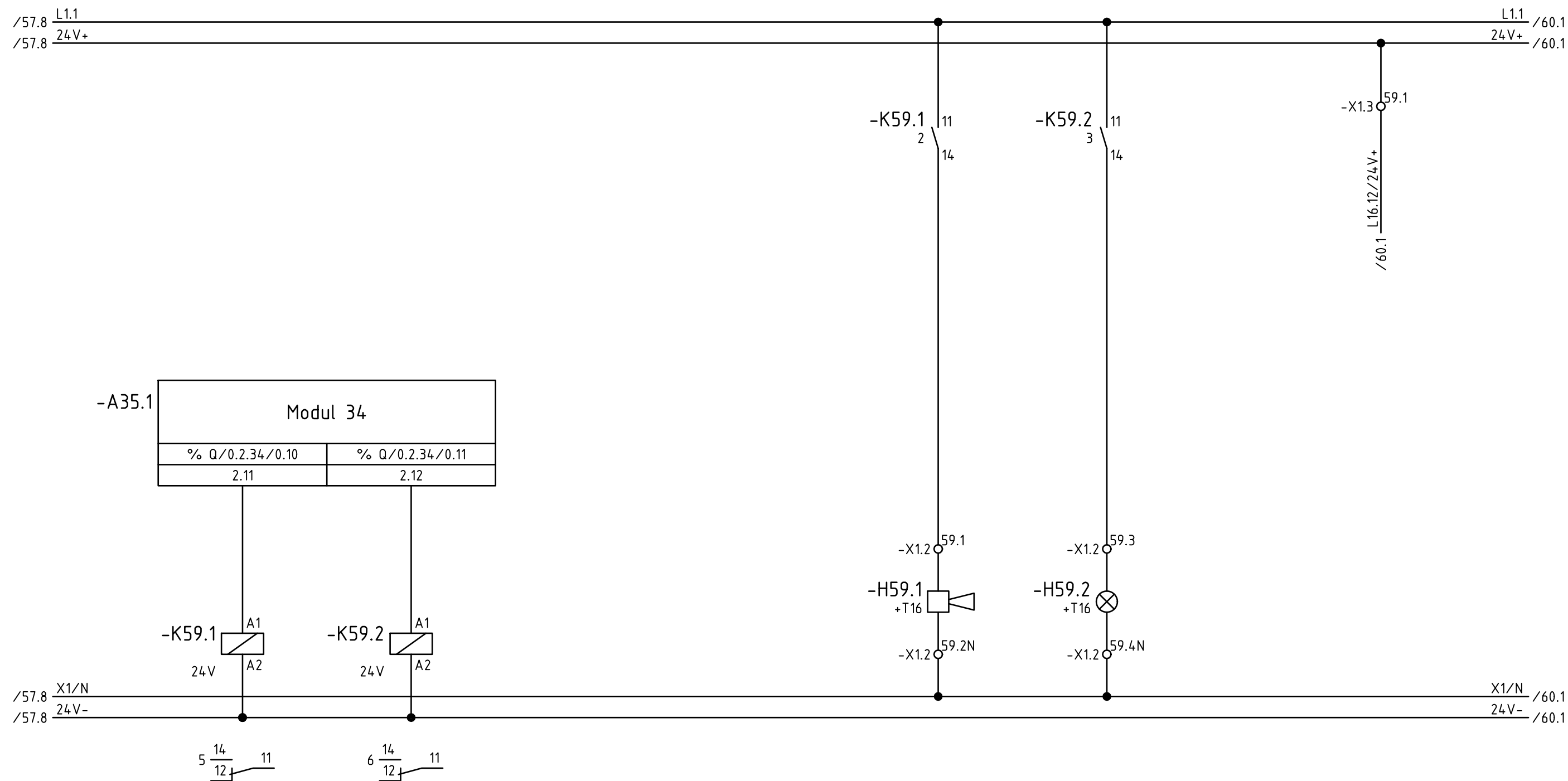
- Parameter 9 auf 1 setzen
- 2 x Linke Taste drücken (Display=P009)
- 1 x Enter Taste drücken (Display=0)
- 1 x Linke Taste drücken (Display=1)
- 1 x Enter Taste drücken (Display=1)
- 2 x Mittlere Taste drücken (Display=8,9 Bar)

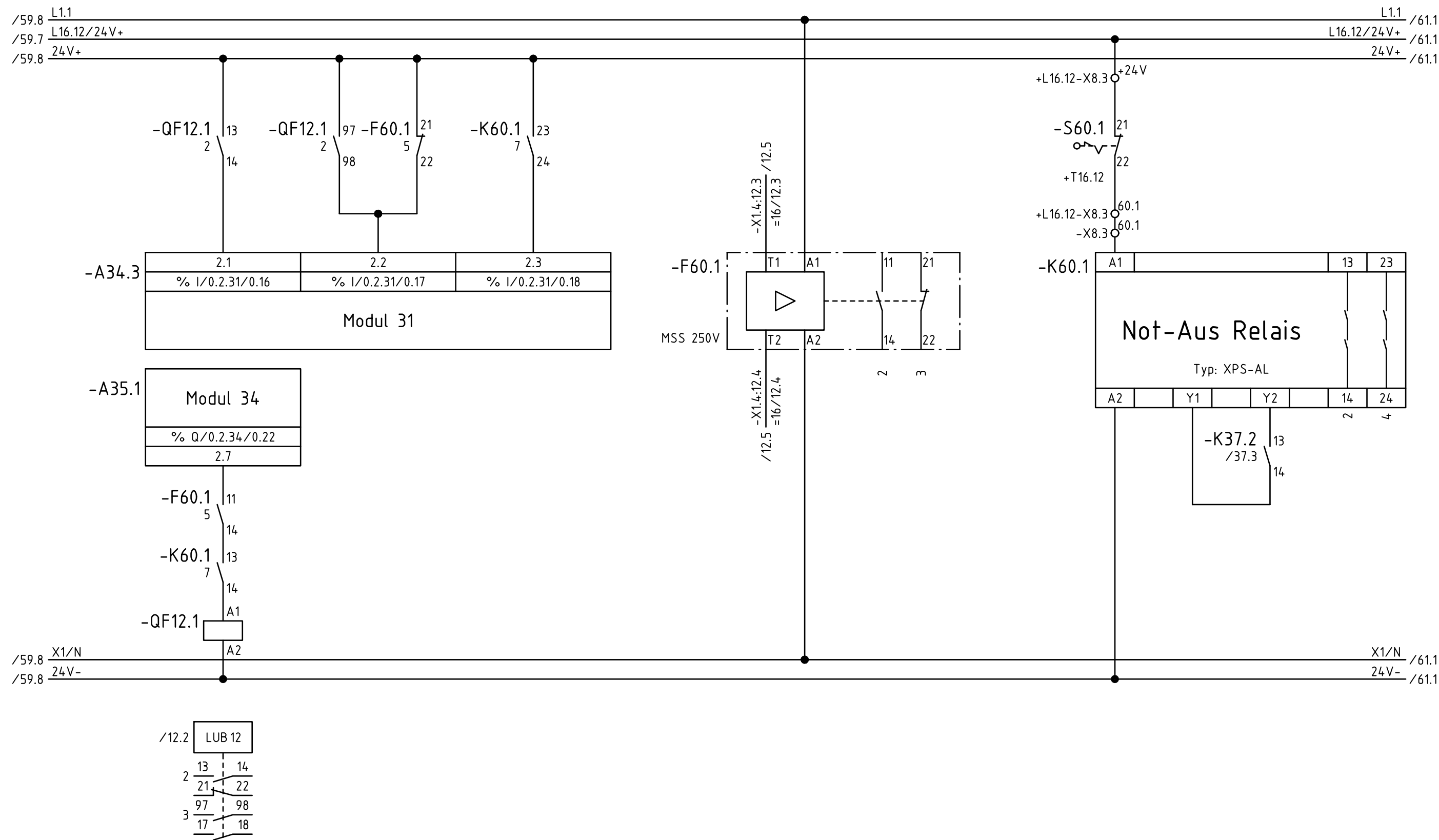






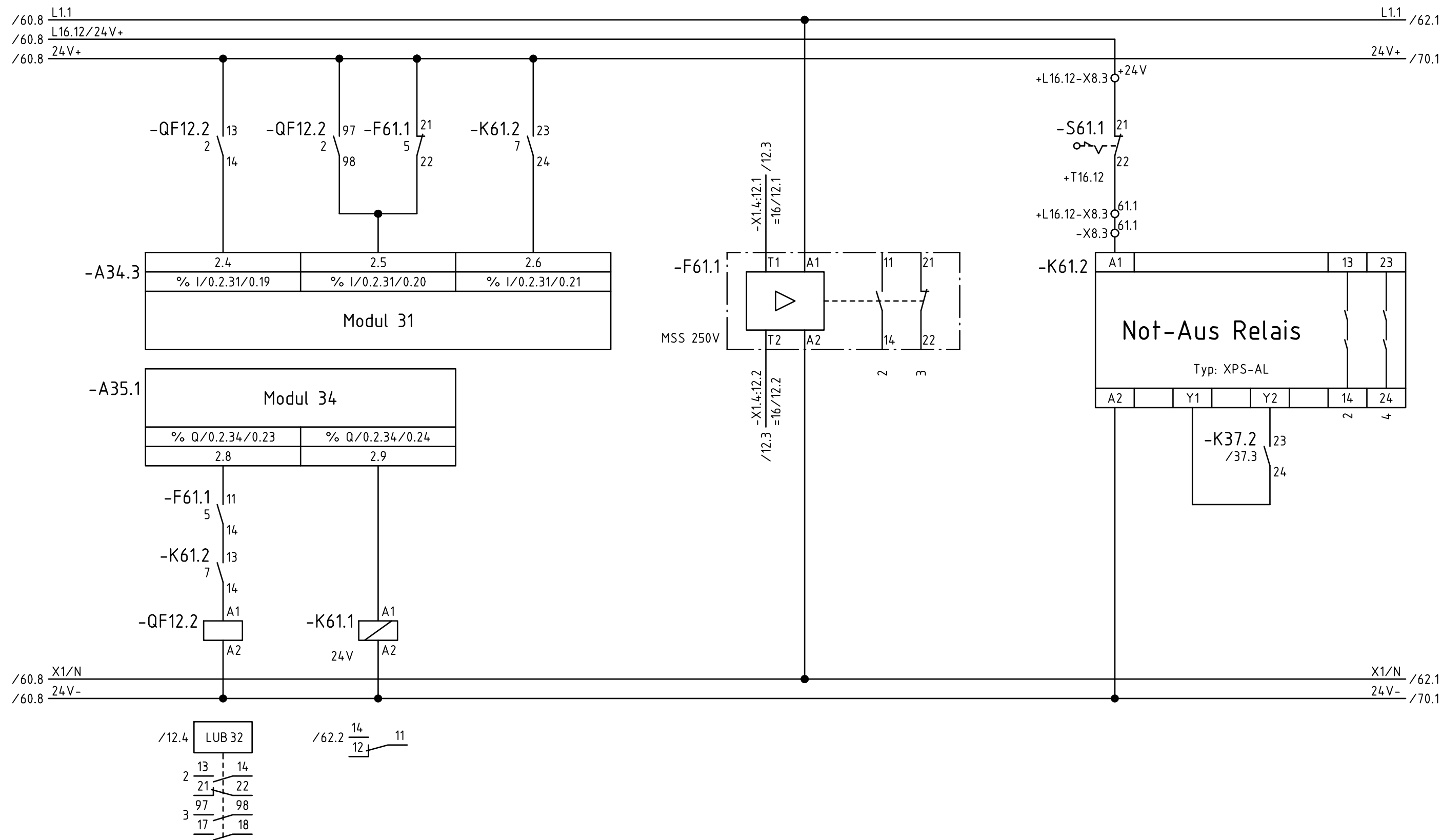
|          |  |       |        |       |            |                 |  |   |  |   |  |          |  |     |  |          |
|----------|--|-------|--------|-------|------------|-----------------|--|---|--|---|--|----------|--|-----|--|----------|
| 1        |  | 2     |        | 3     |            | 4               |  | 5   |  | 6   |  | 7        |  | 8   |  |          |
|          |  |       |        |       |            |                 |  |   |  |   |  |          |  |     |  |          |
| c        |  |       |        | Datum | 16.11.2004 | Skanska DS a.s. |  | <div>BENNINGHOVEN</div> <div>GmbH &amp; Co. KG</div> <div></div> |  | Stromlaufplan<br>Mischanlage TBA 160<br>Steuerung Reserve |  | E96-0305 |  | =16 |  | Blatt 58 |
| b        |  |       | Bearb. |       | +E16       |                 |  |   |  |   |  |          |  |     |  |          |
| a        |  |       |        | Gepr. |            |                 |  |   |  |   |  |          |  |     |  |          |
| Änderung |  | Datum | Name   | Norm  |            | Ersatz durch:   |  | Ersatz für:   |  | Ursprung:   |  |          |  |     |  |          |

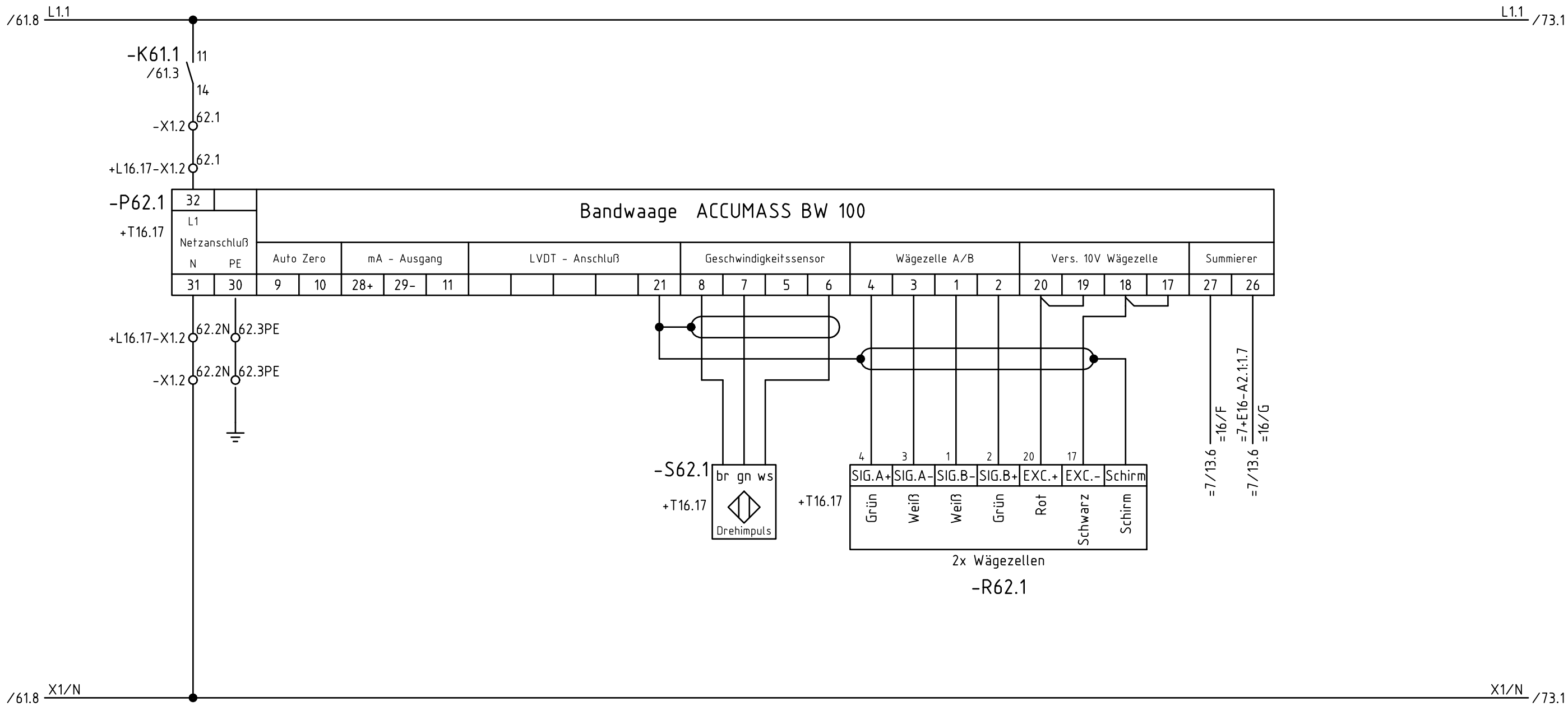





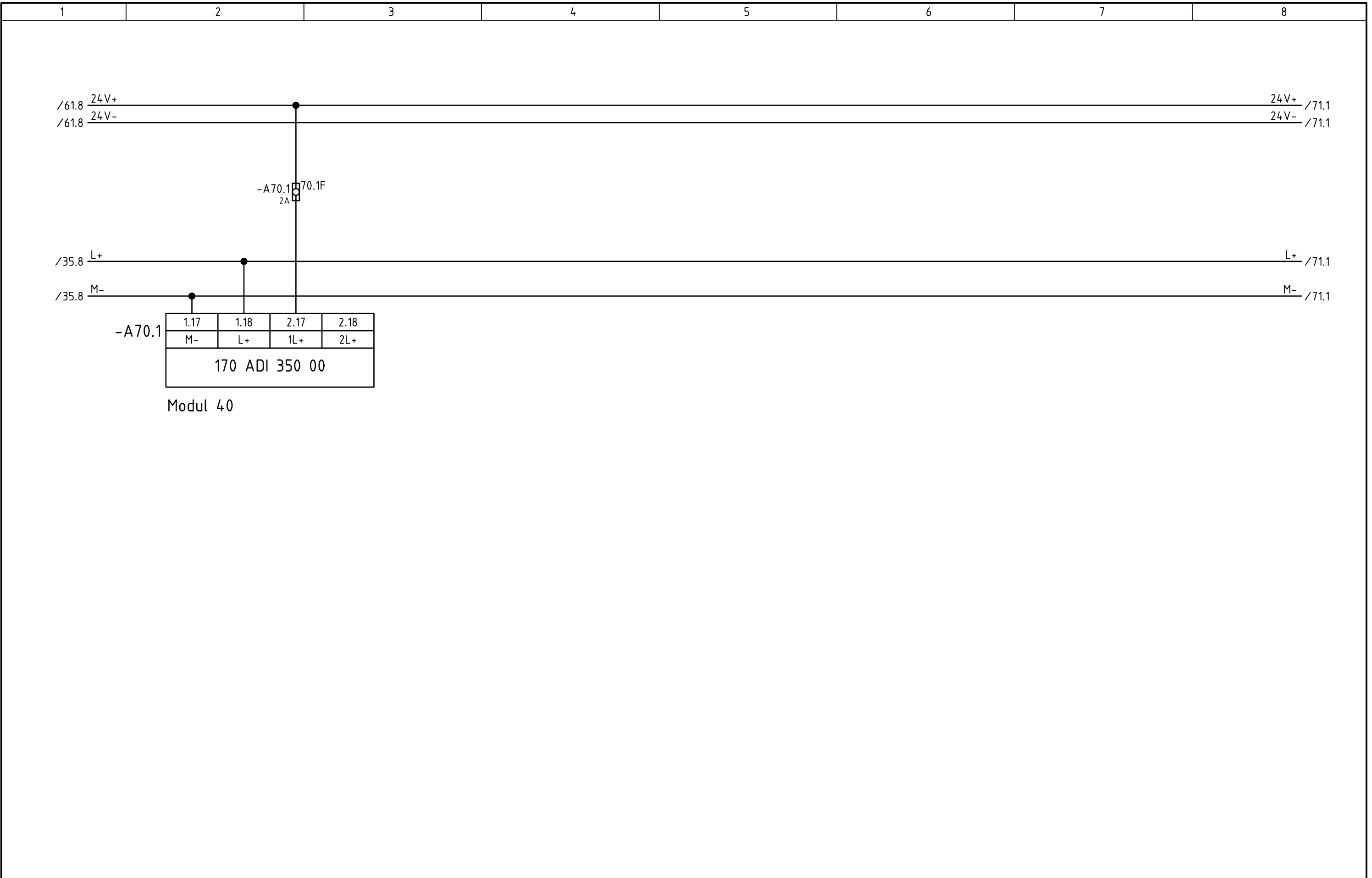
RC-Einwurfband

Reißleine  
RC-Einwurfband

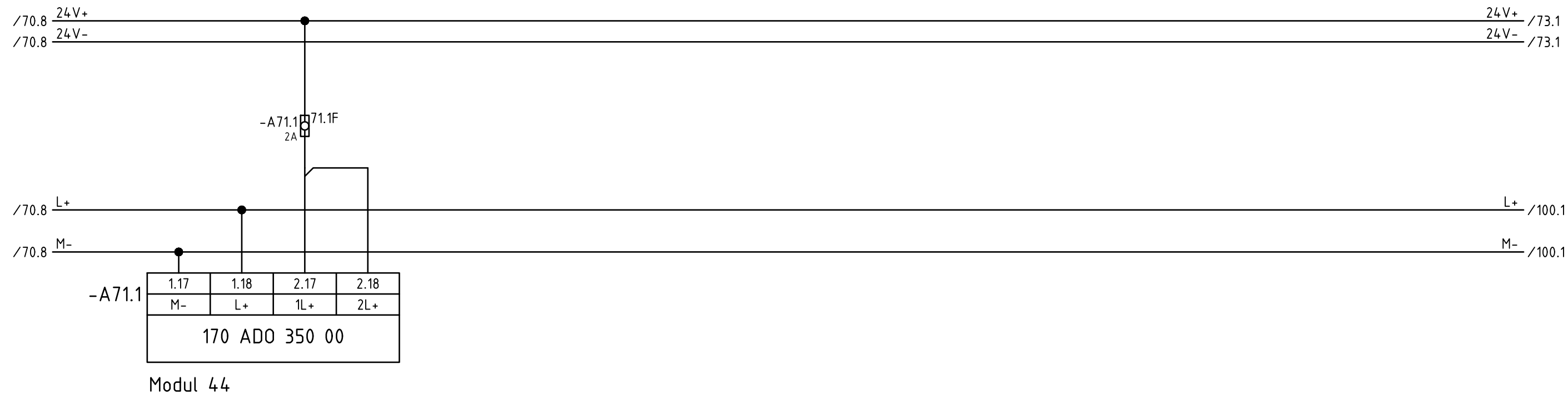





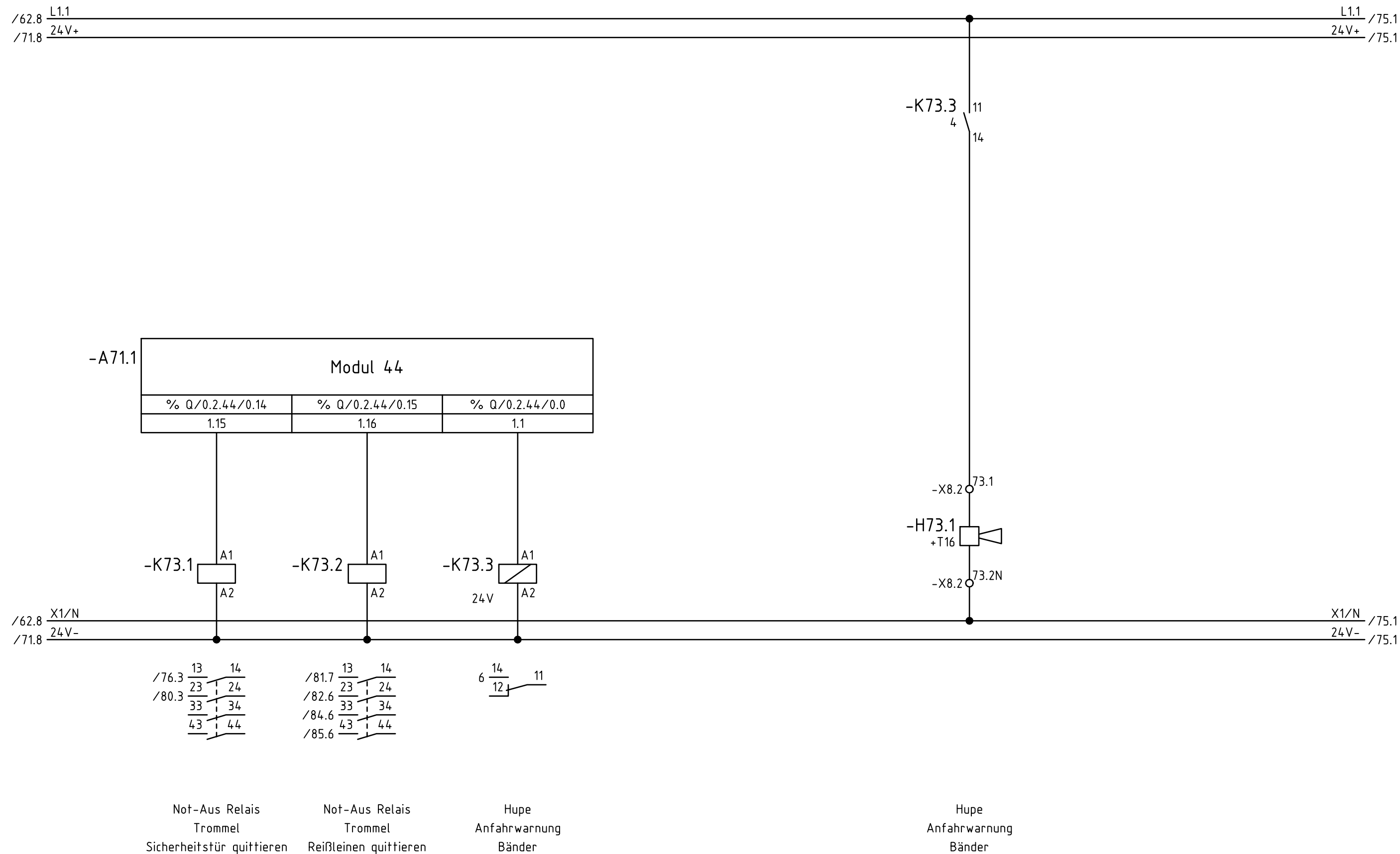
|   |          |       |      |        |            |                 |  |   |  |  |  |   |          |         |     |          |
|---|----------|-------|------|--------|------------|-----------------|--|---|--|--|--|---|----------|---------|-----|----------|
| 1 |          | 2     |      | 3      |            | 4               |  | 5   |  | 6  |  | 7 |          | 8       |     |          |
|   |          |       |      |        |            |                 |  |   |  |  |  |   |          |         |     |          |
| c |          |       |      | Datum  | 16.11.2004 | Skanska DS a.s. |  | <div>BENNINGHOVEN</div> <div>GmbH &amp; Co. KG</div> <div></div> |  | Stromlaufplan<br>Misanlage TBA 160<br>Reserve bis Blatt 69 |  |   | E96-0305 |         | =16 | Blatt 63 |
| b |          |       |      | Bearb. |            |                 |  |   |  |  |  |   | +E16     |         |     |          |
| a |          |       |      | Gepr.  |            |                 |  |   |  |  |  |   |          |         |     |          |
|   | Änderung | Datum | Name | Norm   |            | Ersatz durch:   |  | Ersatz für:   |  | Ursprung:  |  |   |          | 116 Bl. |     |          |




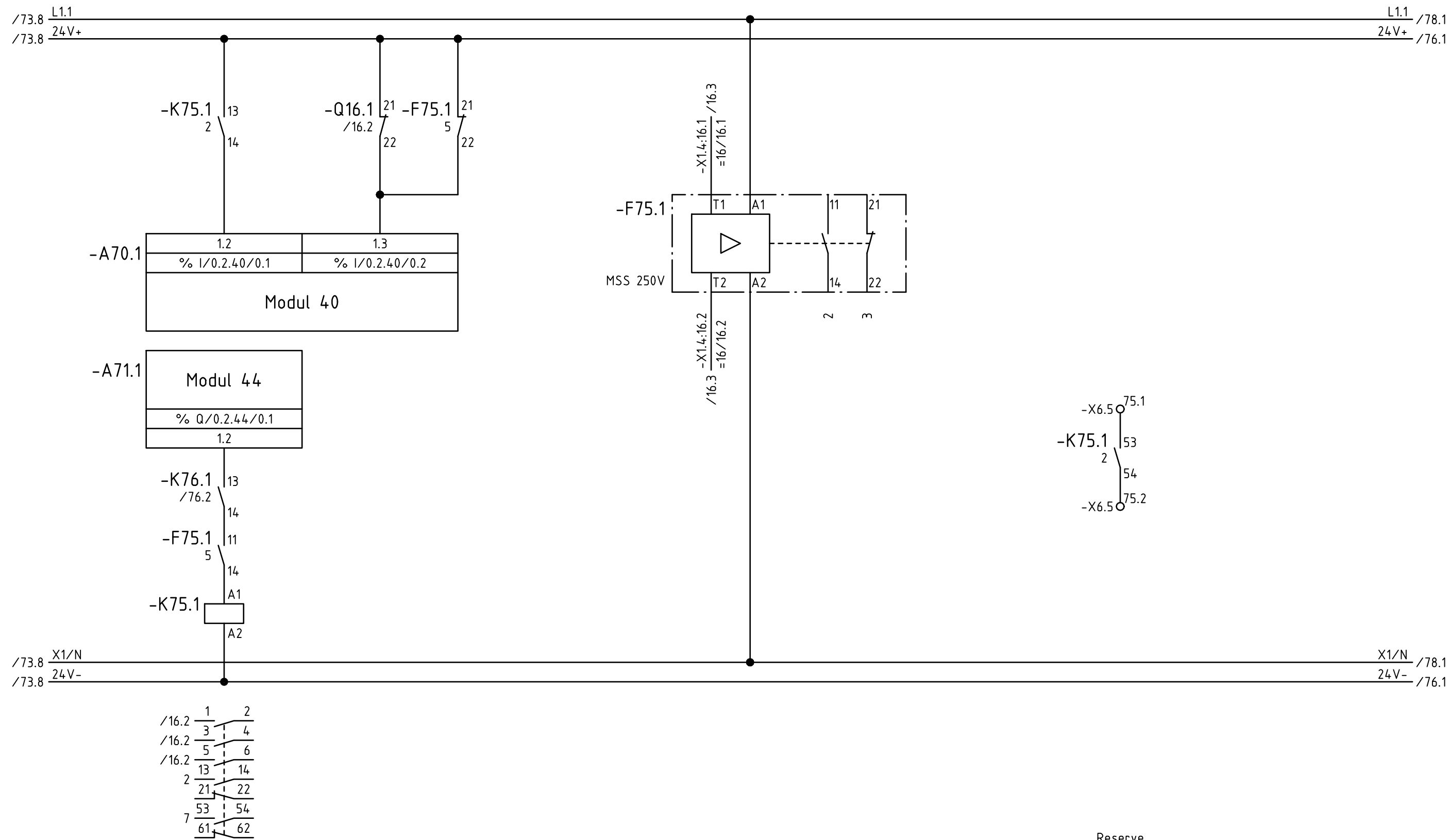




|   |          |       |      |        |            |                 |  |   |  |   |  |          |  |         |  |          |
|---|----------|-------|------|--------|------------|-----------------|--|---|--|---|--|----------|--|---------|--|----------|
| 1 |          | 2     |      | 3      |            | 4               |  | 5   |  | 6   |  | 7        |  | 8       |  |          |
|   |          |       |      |        |            |                 |  |   |  |   |  |          |  |         |  |          |
| c |          |       |      | Datum  | 16.11.2004 | Skanska DS a.s. |  | <div>BENNINGHOVEN</div> <div>GmbH &amp; Co. KG</div> <div></div> |  | Stromlaufplan<br>Mischanlage TBA 160<br>Spannungsversorgung Reserve |  | E96-0305 |  | =16     |  | Blatt 72 |
| b |          |       |      | Bearb. |            |                 |  |   |  |   |  |          |  | +E16    |  |          |
| a |          |       |      | Gepr.  |            |                 |  |   |  |   |  |          |  |         |  |          |
|   | Änderung | Datum | Name | Norm   |            | Ersatz durch:   |  | Ersatz für:   |  | Ursprung:   |  |          |  | 116 Bl. |  |          |

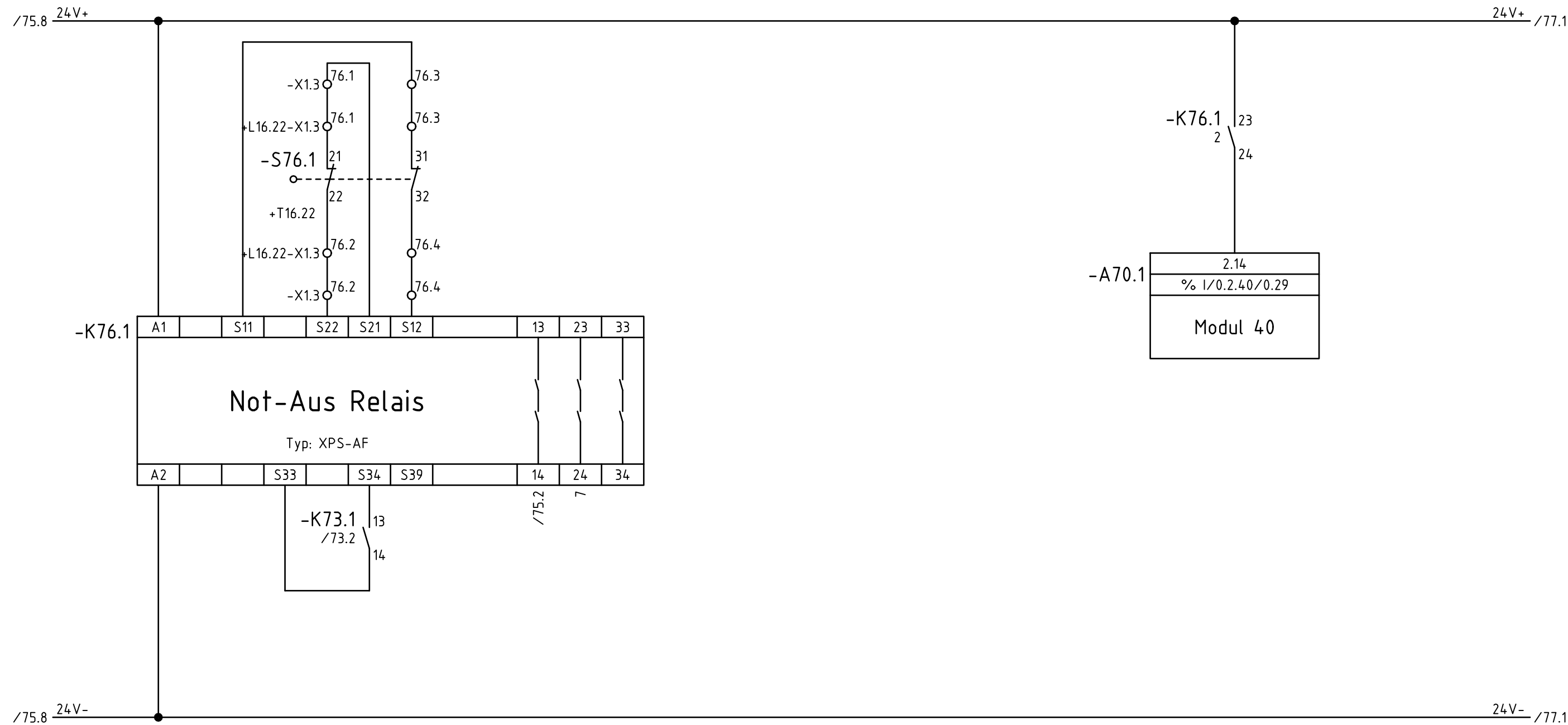


|   |          |       |      |        |            |                 |  |   |  |   |  |   |          |         |      |          |
|---|----------|-------|------|--------|------------|-----------------|--|---|--|---|--|---|----------|---------|------|----------|
| 1 |          | 2     |      | 3      |            | 4               |  | 5   |  | 6   |  | 7 |          | 8       |      |          |
|   |          |       |      |        |            |                 |  |   |  |   |  |   |          |         |      |          |
| c |          |       |      | Datum  | 16.11.2004 | Skanska DS a.s. |  | <div>BENNINGHOVEN</div> <div>GmbH &amp; Co. KG</div> <div></div> |  | Stromlaufplan<br>Mischanlage TBA 160<br>Steuerung Reserve |  |   | E96-0305 |         | =16  | Blatt 74 |
| b |          |       |      | Bearb. |            |                 |  |   |  |   |  |   |          |         | +E16 |          |
| a |          |       |      | Gepr.  |            |                 |  |   |  |   |  |   |          |         |      |          |
|   | Änderung | Datum | Name | Norm   |            | Ersatz durch:   |  | Ersatz für:   |  | Ursprung:   |  |   |          | 116 Bl. |      |          |

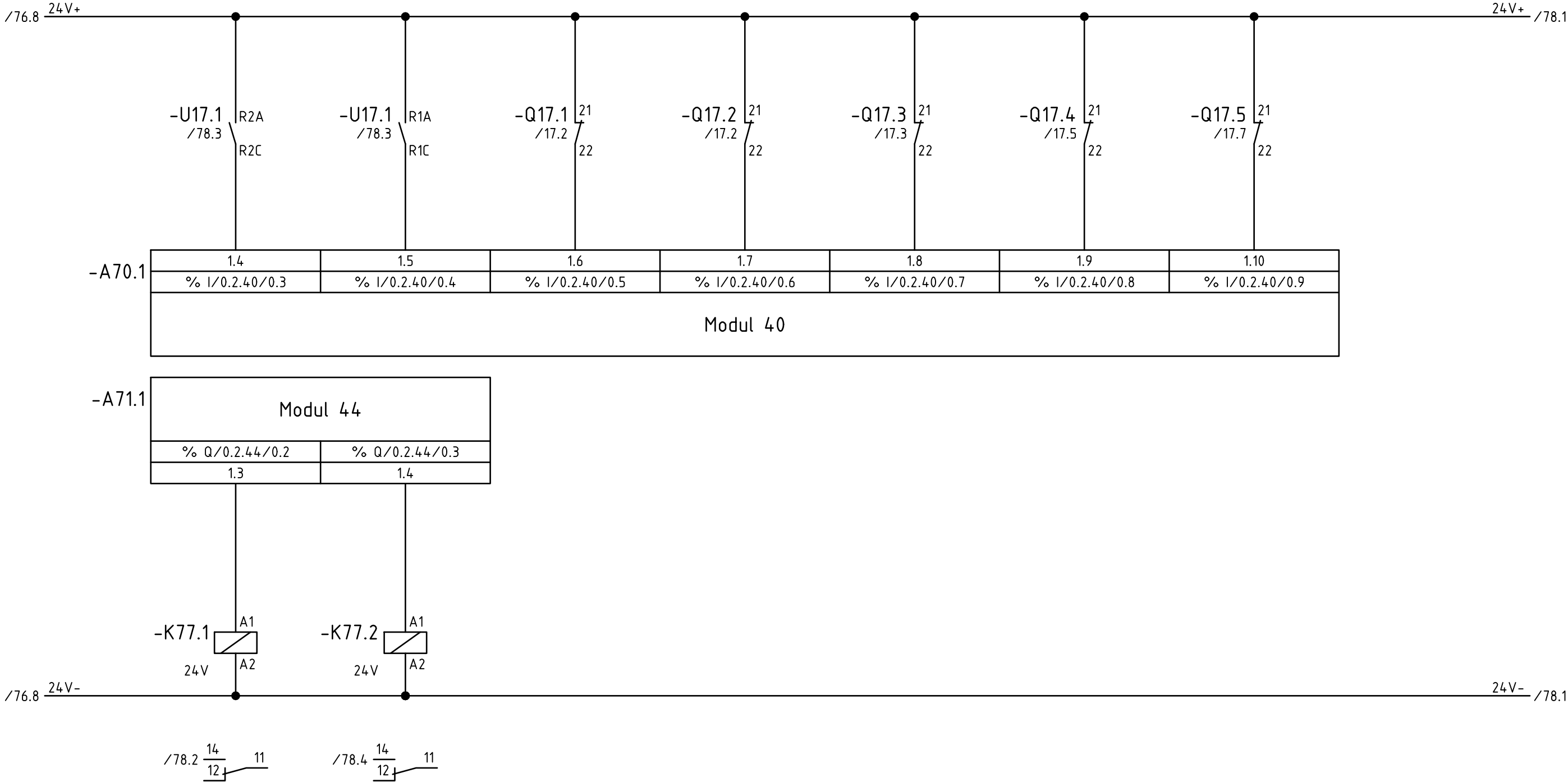


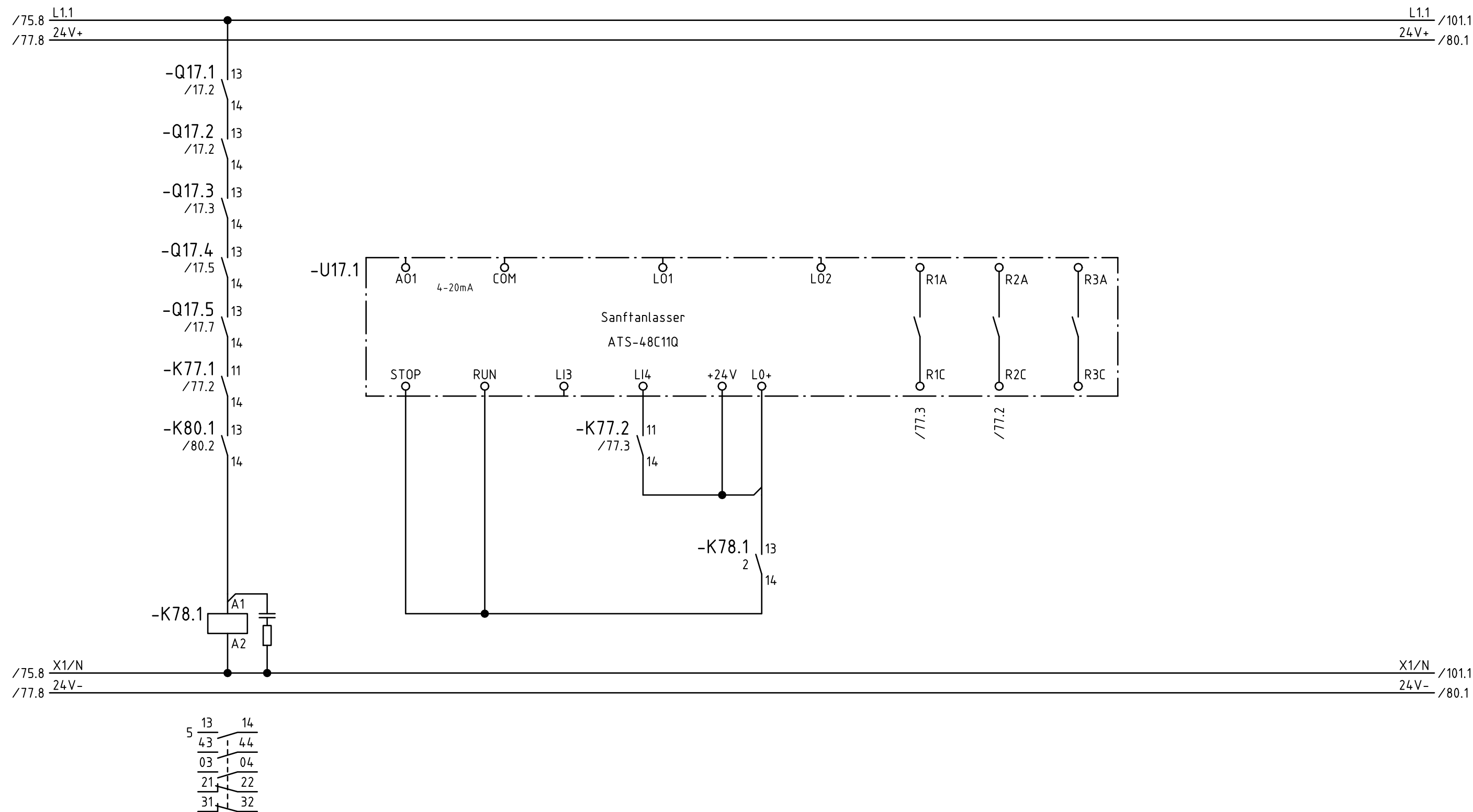
Heißelevator

Reserve  
Verriegelung  
Filter




Endschalter  
Sicherheitstür Heißelevator

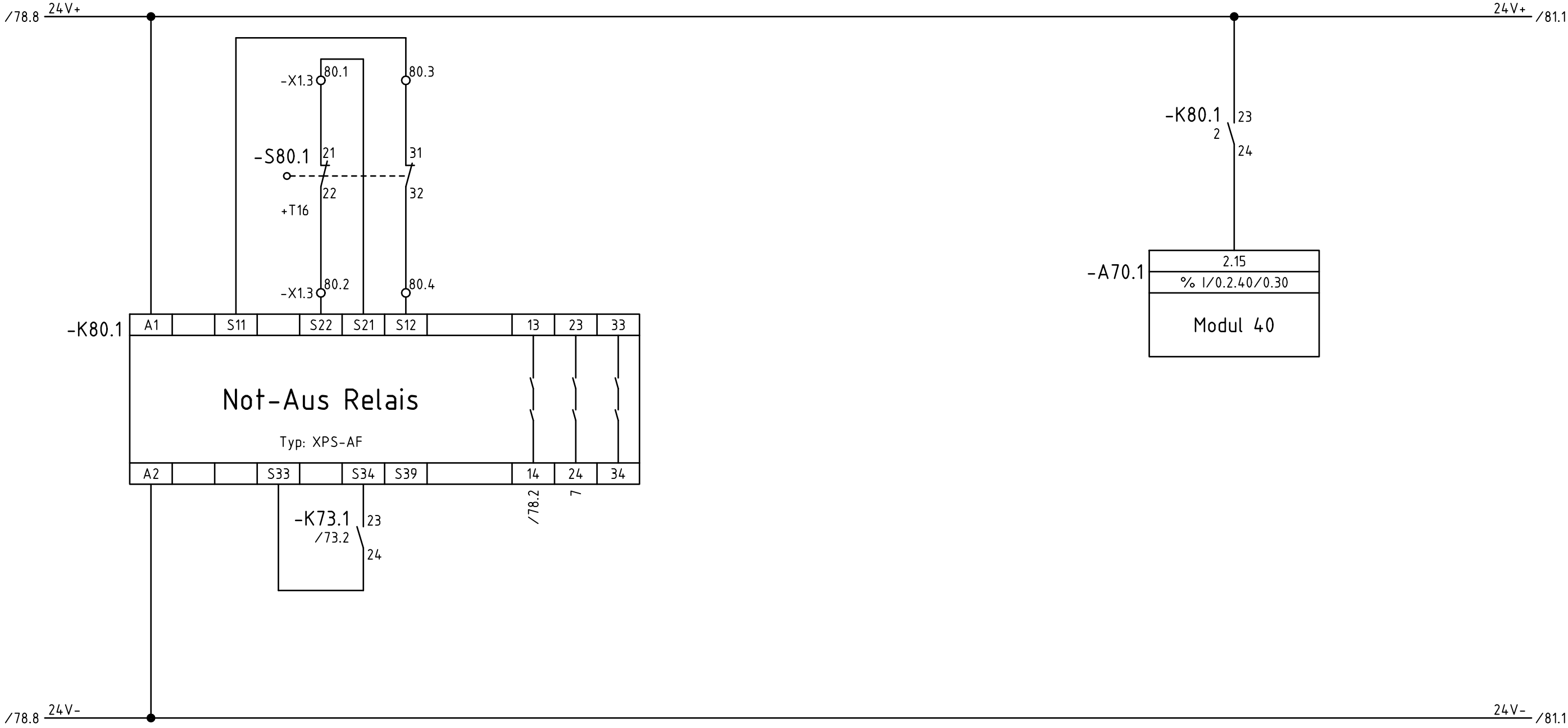




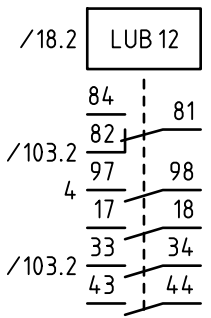
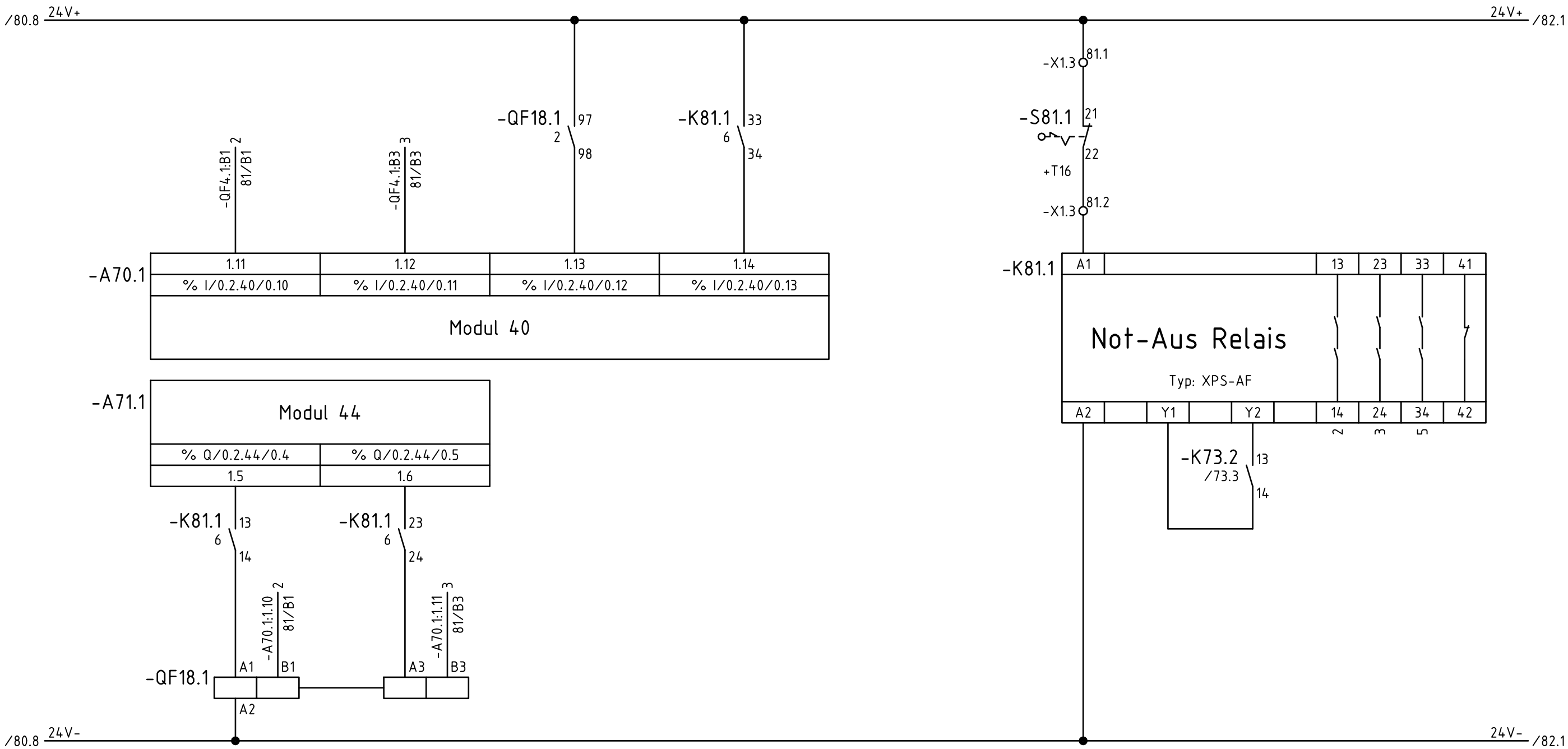
Sanftanlasser  
Trommelantrieb ein



|   |          |       |      |        |            |                 |  |   |  |   |  |               |  |             |  |          |
|---|----------|-------|------|--------|------------|-----------------|--|---|--|---|--|---------------|--|-------------|--|----------|
| 1 |          | 2     |      | 3      |            | 4               |  | 5   |  | 6   |  | 7             |  | 8           |  |          |
|   |          |       |      |        |            |                 |  |   |  |   |  |               |  |             |  |          |
| c |          |       |      | Datum  | 16.11.2004 | Skanska DS a.s. |  | <div>BENNINGHOVEN</div> <div>GmbH &amp; Co. KG</div> <div></div> |  | Stromlaufplan<br>Misanlage TBA 160<br>Steuerung Reserve |  | E96-0305      |  | =16         |  | Blatt 79 |
| b |          |       |      | Bearb. |            |                 |  |   |  |   |  |               |  | +E16        |  |          |
| a |          |       |      | Gepr.  |            |                 |  |   |  |   |  | Ersatz durch: |  | Ersatz für: |  |          |
|   | Änderung | Datum | Name | Norm   |            |                 |  |   |  |   |  |               |  | 116 Bl.     |  |          |



Endschalter  
Sicherheitstür Trommelantrieb



Einwurfband

vorwärts

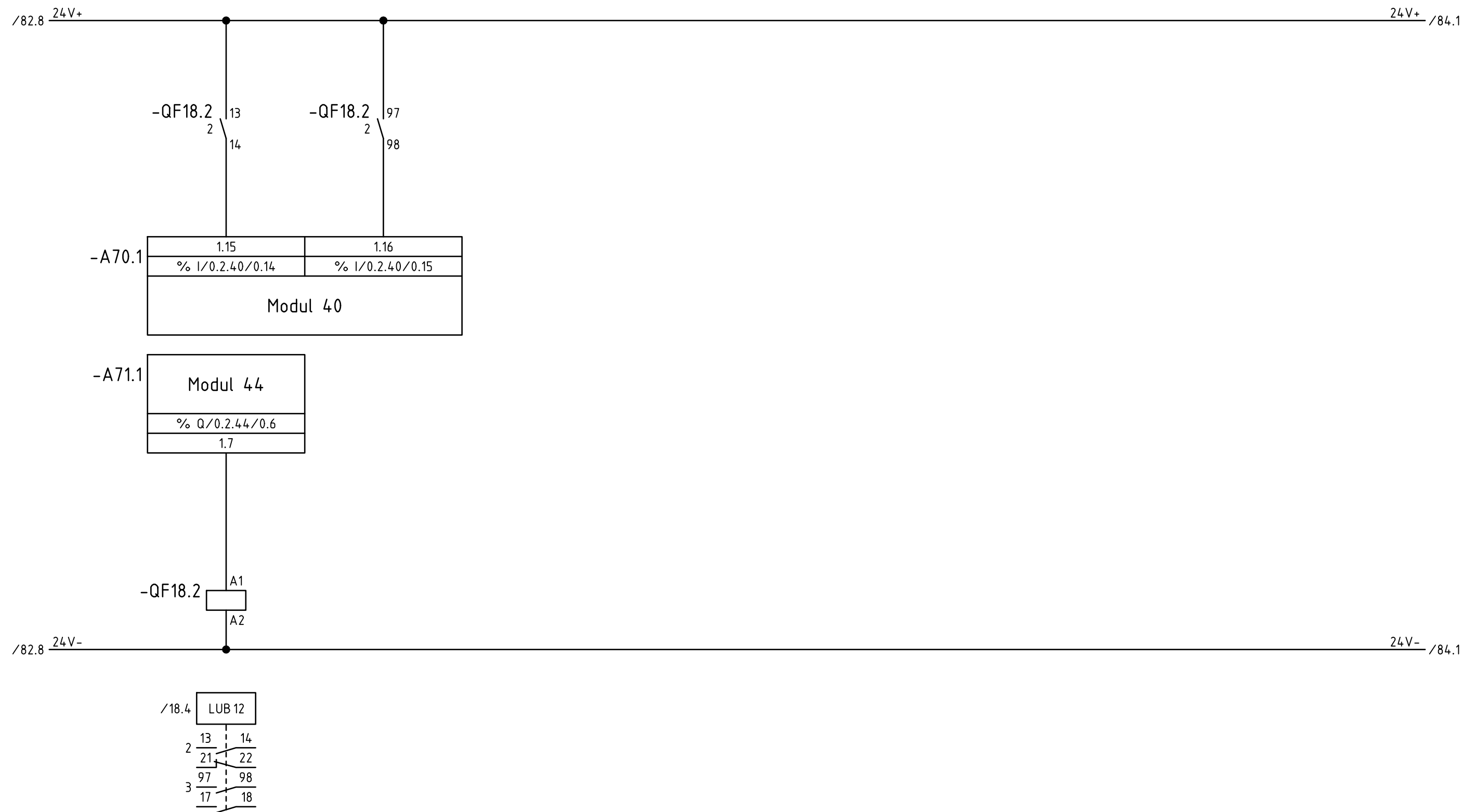
rückwärts

Reißleine

Einwurfband

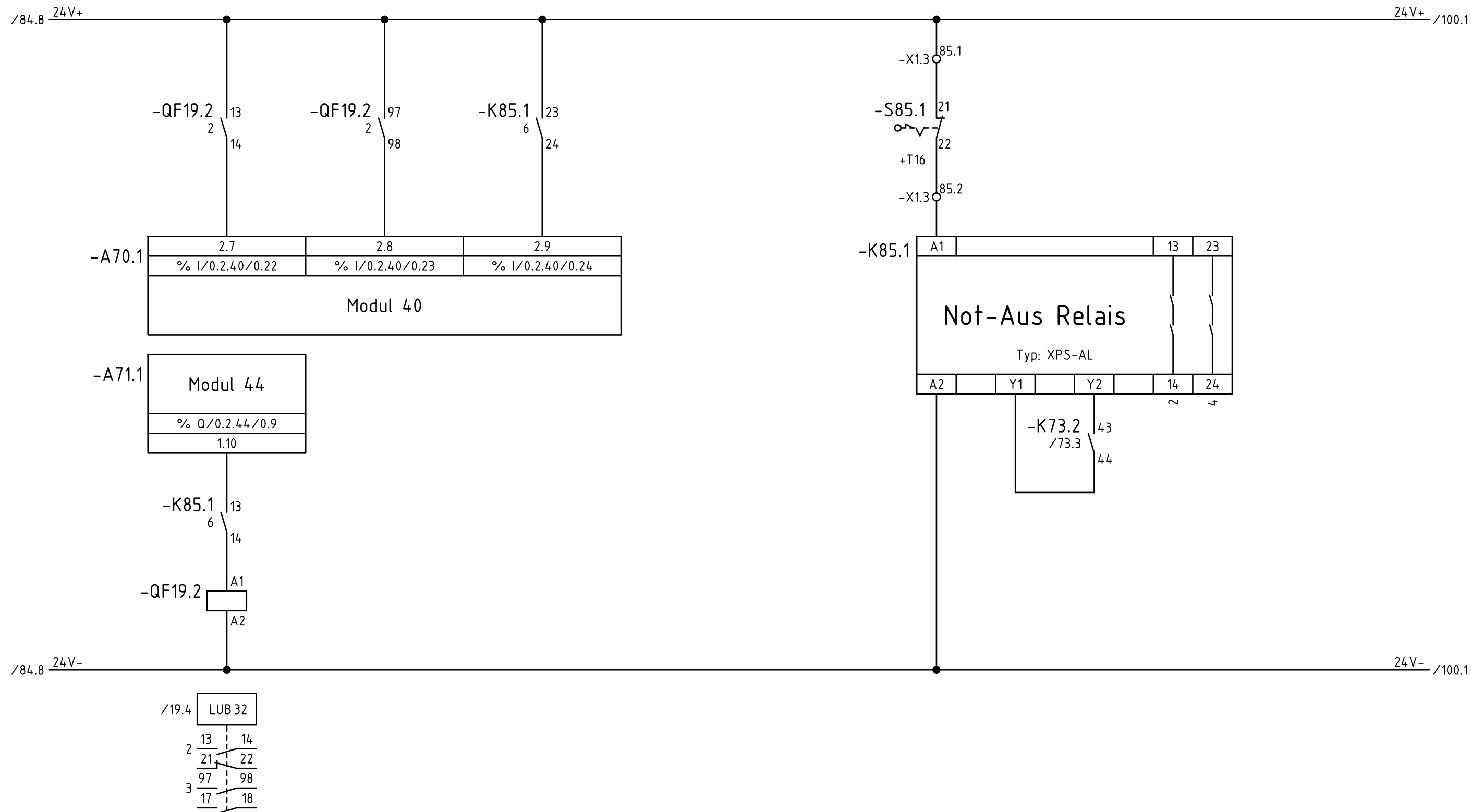


|                      |
|----------------------|
| Stromlaufplan        |
| Mischanlage TBA 160  |
| Steuerung Steigeband |




Überkornsieb



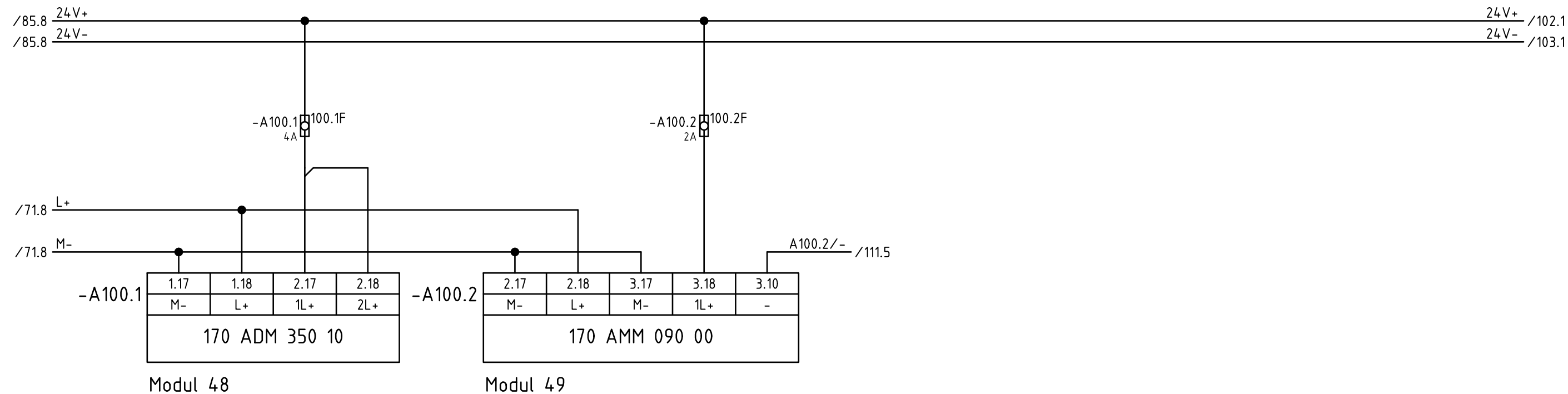


Sammelband 2

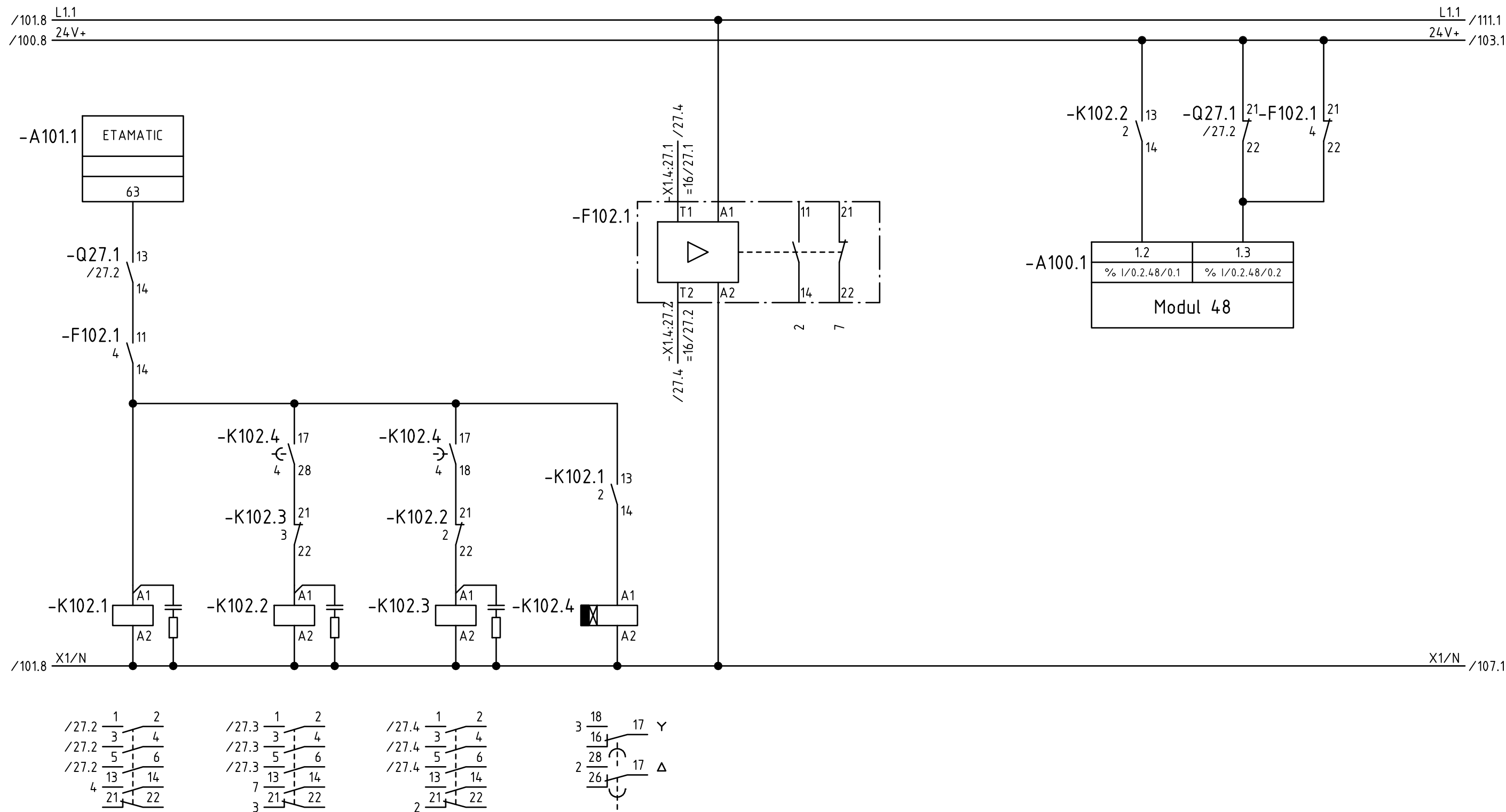
Reißleine  
Sammelband 2

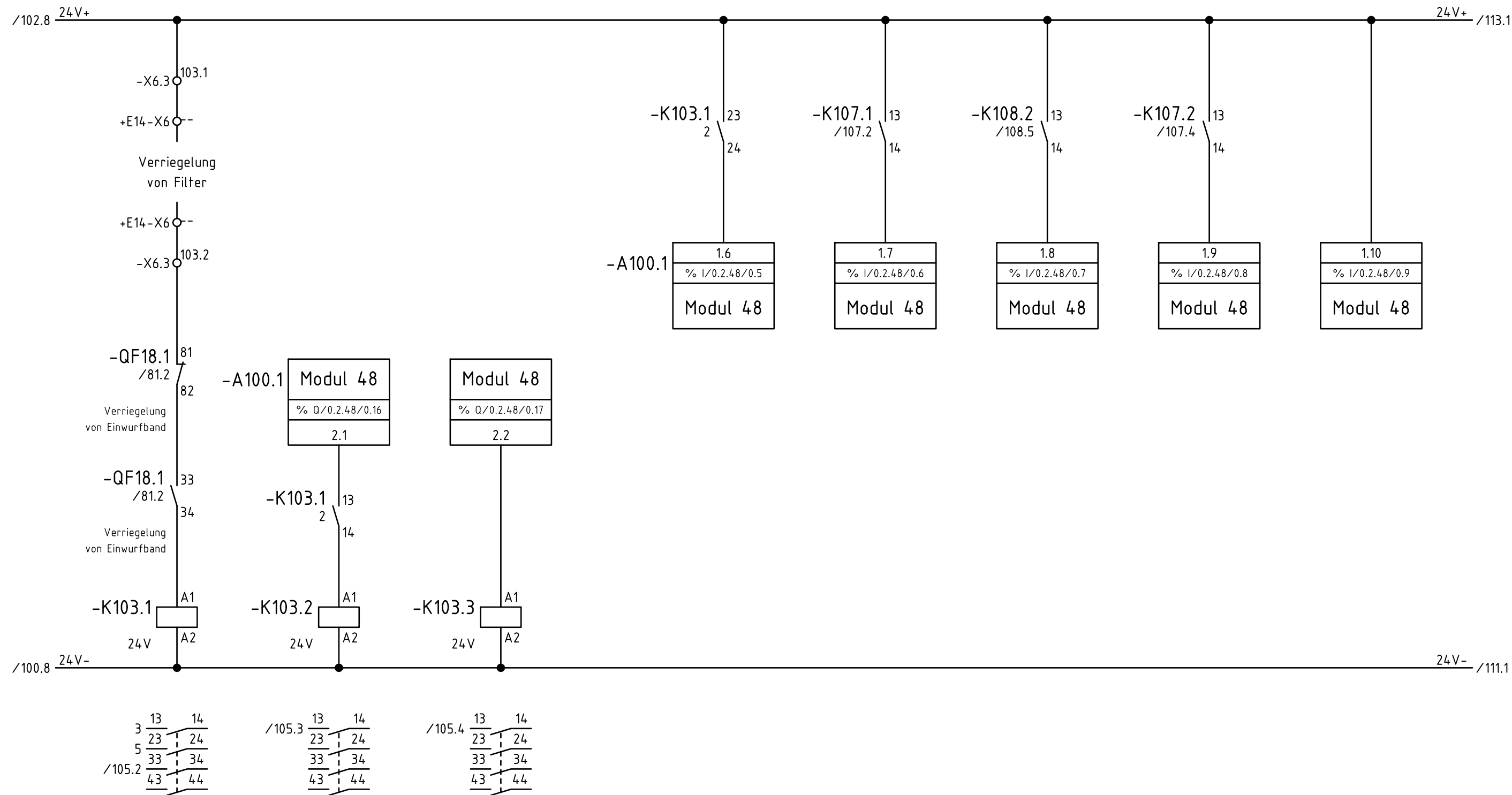
|   |          |       |        |       |            |                 |  |   |  |  |  |          |  |     |  |          |
|---|----------|-------|--------|-------|------------|-----------------|--|---|--|--|--|----------|--|-----|--|----------|
| 1 |          | 2     |        | 3     |            | 4               |  | 5   |  | 6  |  | 7        |  | 8   |  |          |
|   |          |       |        |       |            |                 |  |   |  |  |  |          |  |     |  |          |
| c |          |       |        | Datum | 22.11.2004 | Skanska DS a.s. |  | <div>BENNINGHOVEN</div> <div>GmbH &amp; Co. KG</div> <div></div> |  | Stromlaufplan<br>Misanlage TBA 160<br>Reserve bis Blatt 99 |  | E96-0305 |  | =16 |  | Blatt 86 |
| b |          |       | Bearb. |       | +E16       |                 |  |   |  |  |  |          |  |     |  |          |
| a |          |       |        | Gepr. |            |                 |  |   |  |  |  |          |  |     |  |          |
|   | Änderung | Datum | Name   | Norm  |            | Ersatz durch:   |  | Ersatz für:   |  | Ursprung:  |  |          |  |     |  |          |




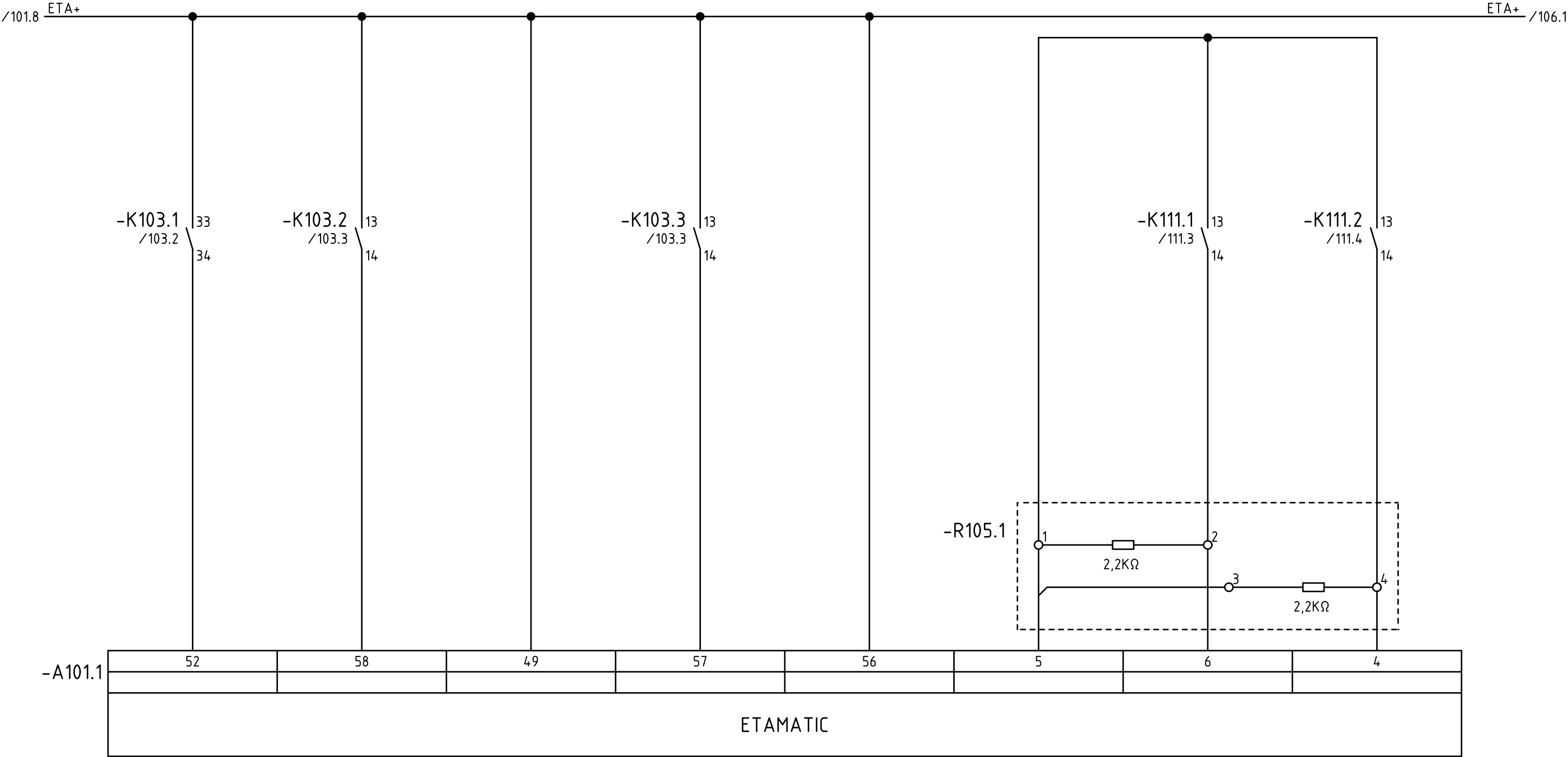


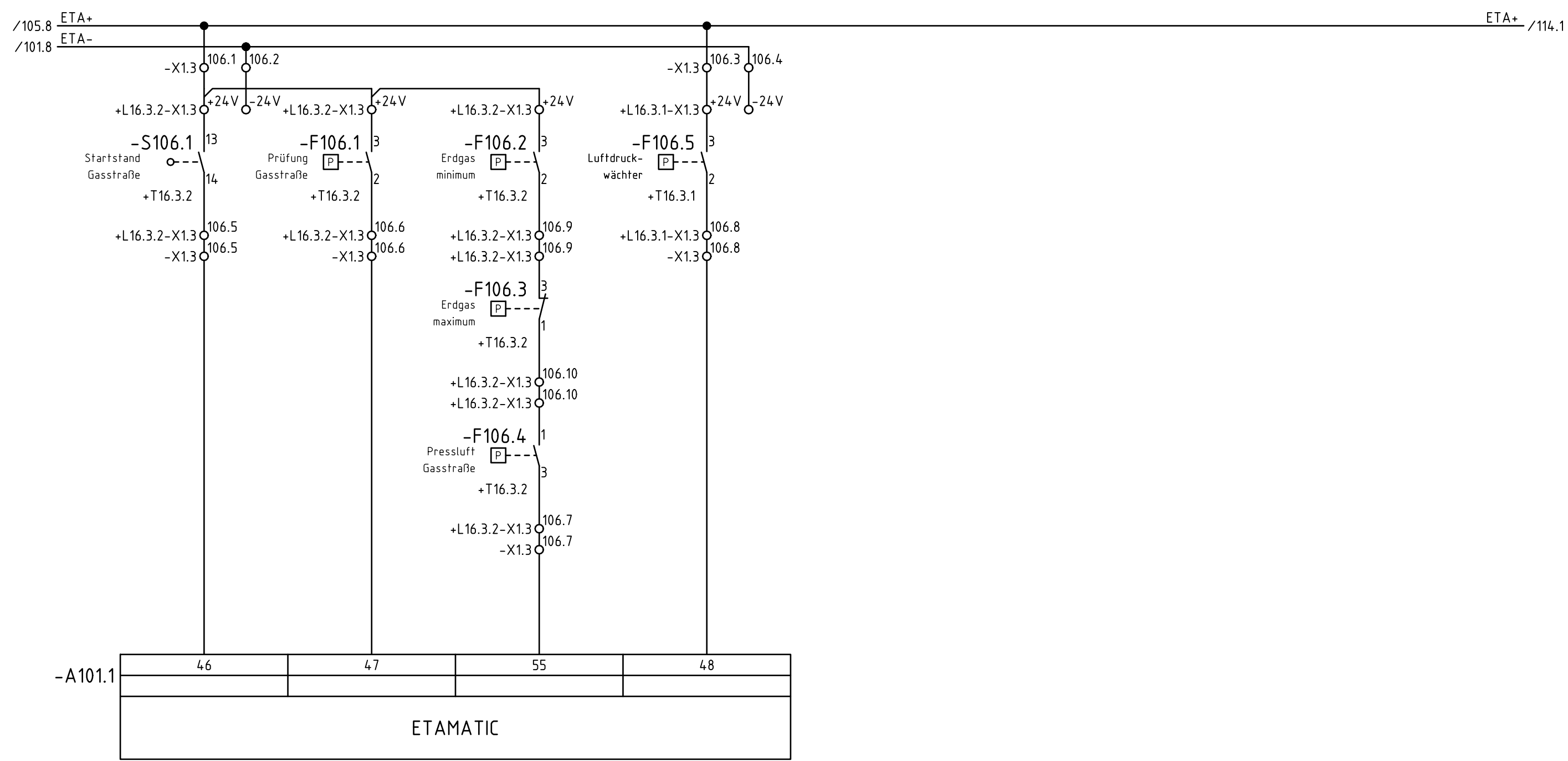


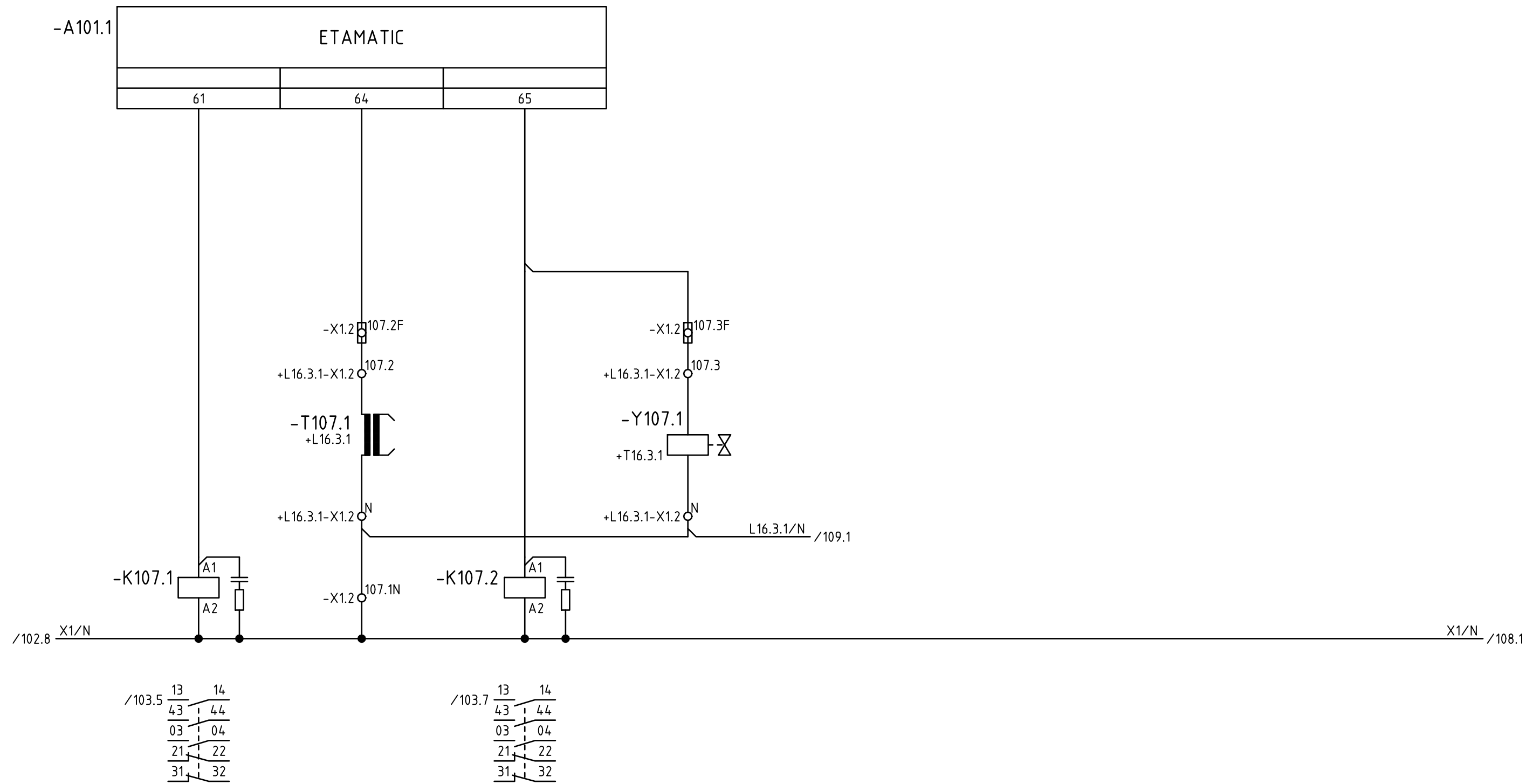




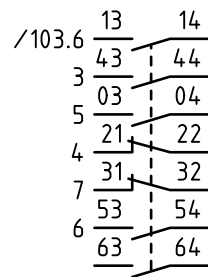
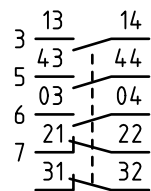
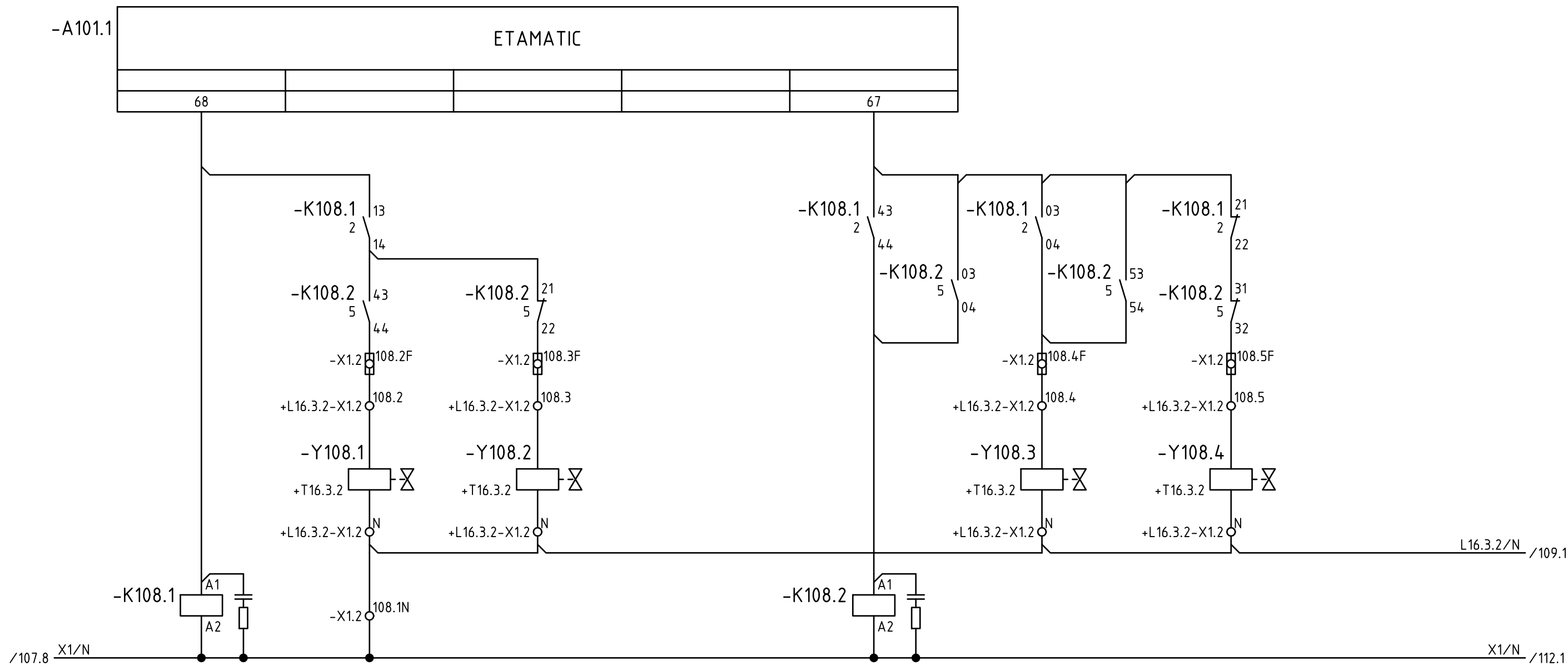
|   |          |       |      |        |            |                 |  |   |  |   |  |   |          |   |      |  |           |
|---|----------|-------|------|--------|------------|-----------------|--|---|--|---|--|---|----------|---|------|--|-----------|
| 1 |          | 2     |      | 3      |            | 4               |  | 5   |  | 6   |  | 7 |          | 8 |      |  |           |
|   |          |       |      |        |            |                 |  |   |  |   |  |   |          |   |      |  |           |
| c |          |       |      | Datum  | 16.11.2004 | Skanska DS a.s. |  | <div>BENNINGHOVEN</div> <div>GmbH &amp; Co. KG</div> <div></div> |  | Stromlaufplan<br>Mischanlage TBA 160<br>Steuerung Reserve |  |   | E96-0305 |   | =16  |  | Blatt 104 |
| b |          |       |      | Bearb. |            |                 |  |   |  |   |  |   |          |   | +E16 |  |           |
| a |          |       |      | Gepr.  |            |                 |  |   |  |   |  |   |          |   |      |  |           |
|   | Änderung | Datum | Name | Norm   |            | Ersatz durch:   |  | Ersatz für:   |  | Ursprung:   |  |   |          |   |      |  |           |











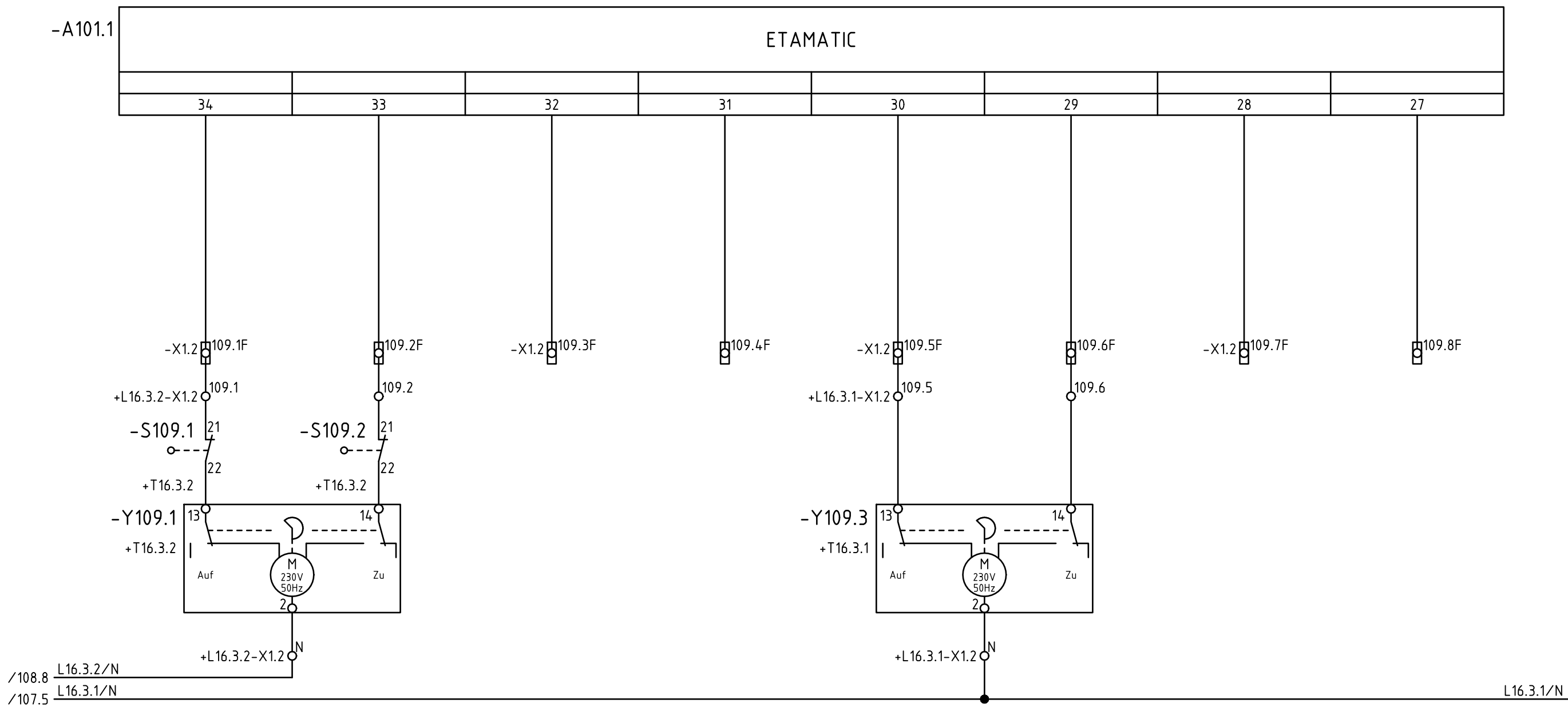
Hauptgas-  
ventil 1

Gasstraße  
befüllen

Flamme  
Erdgas

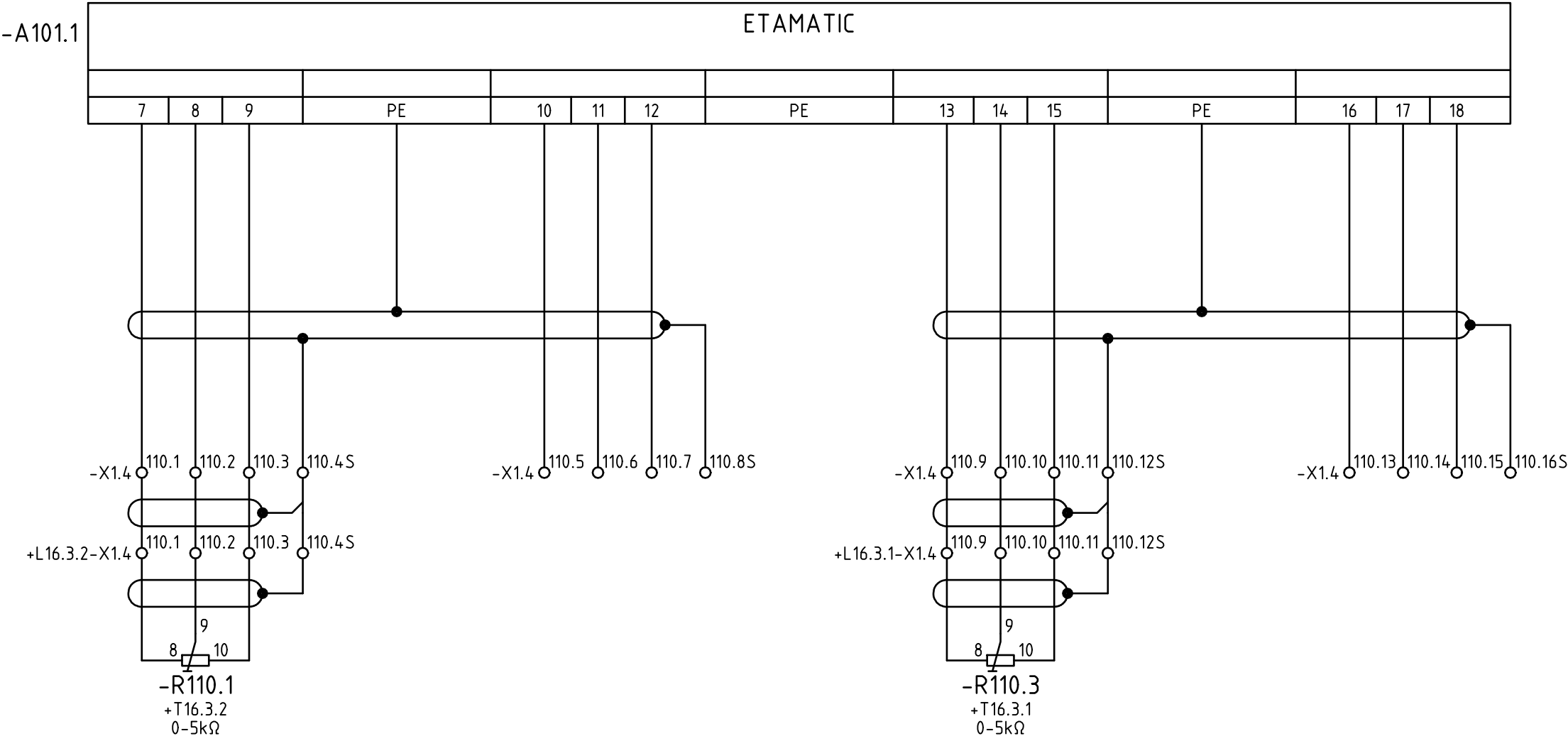
Hauptgas-  
ventil 2

Gasstraße  
entlüften



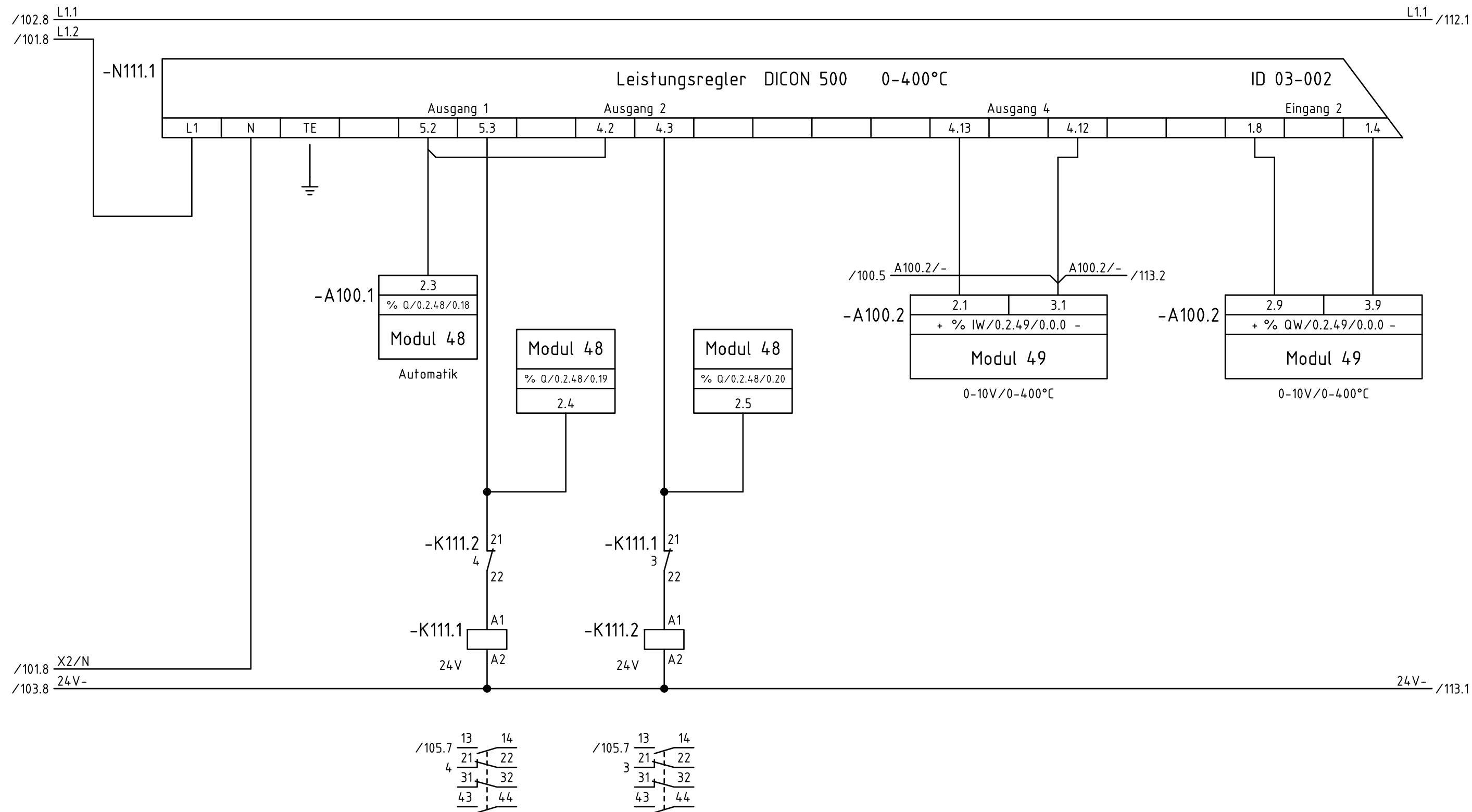
Stellmotor  
Erdgas

Stellmotor  
Luft

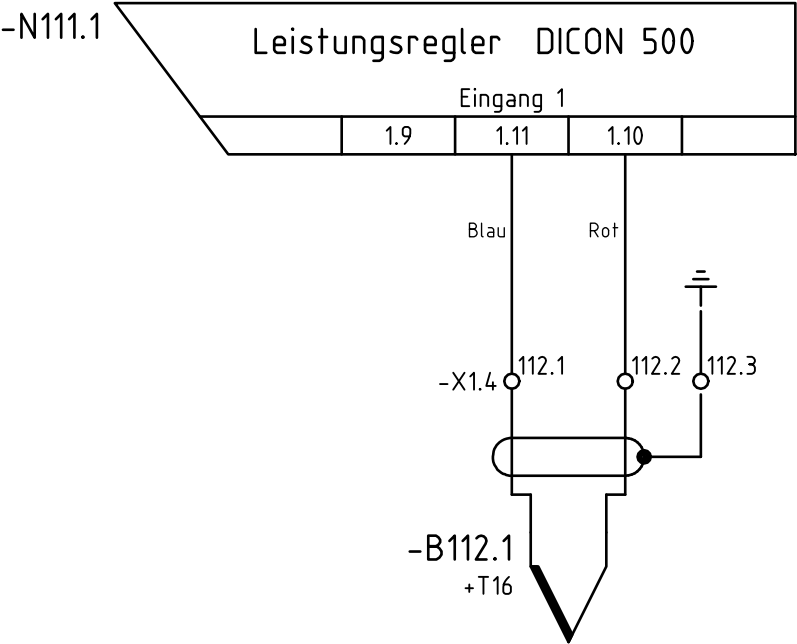


Poti Erdgas

Poti Luft

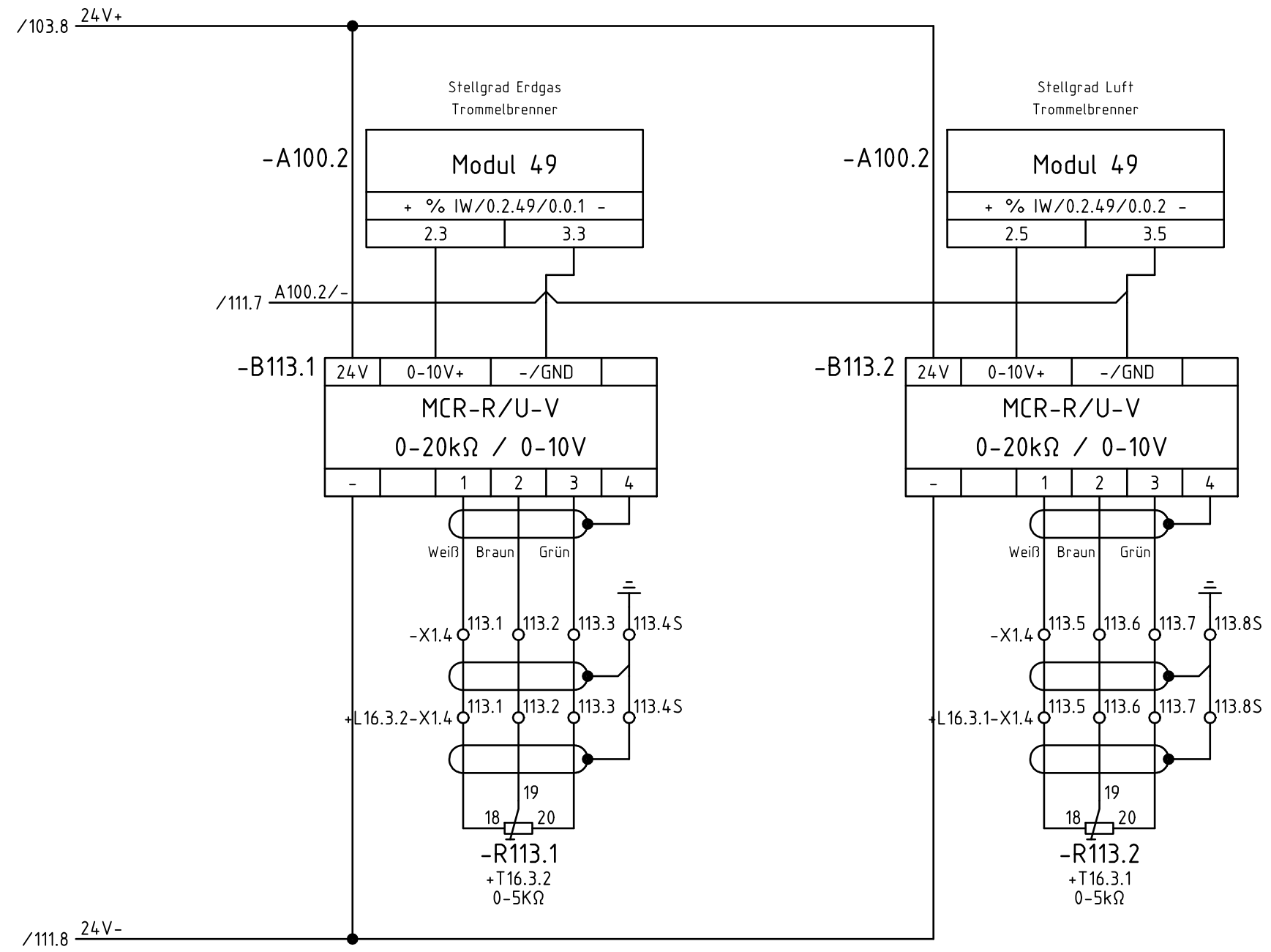


/111.8 L1.1 L1.1 /114.1

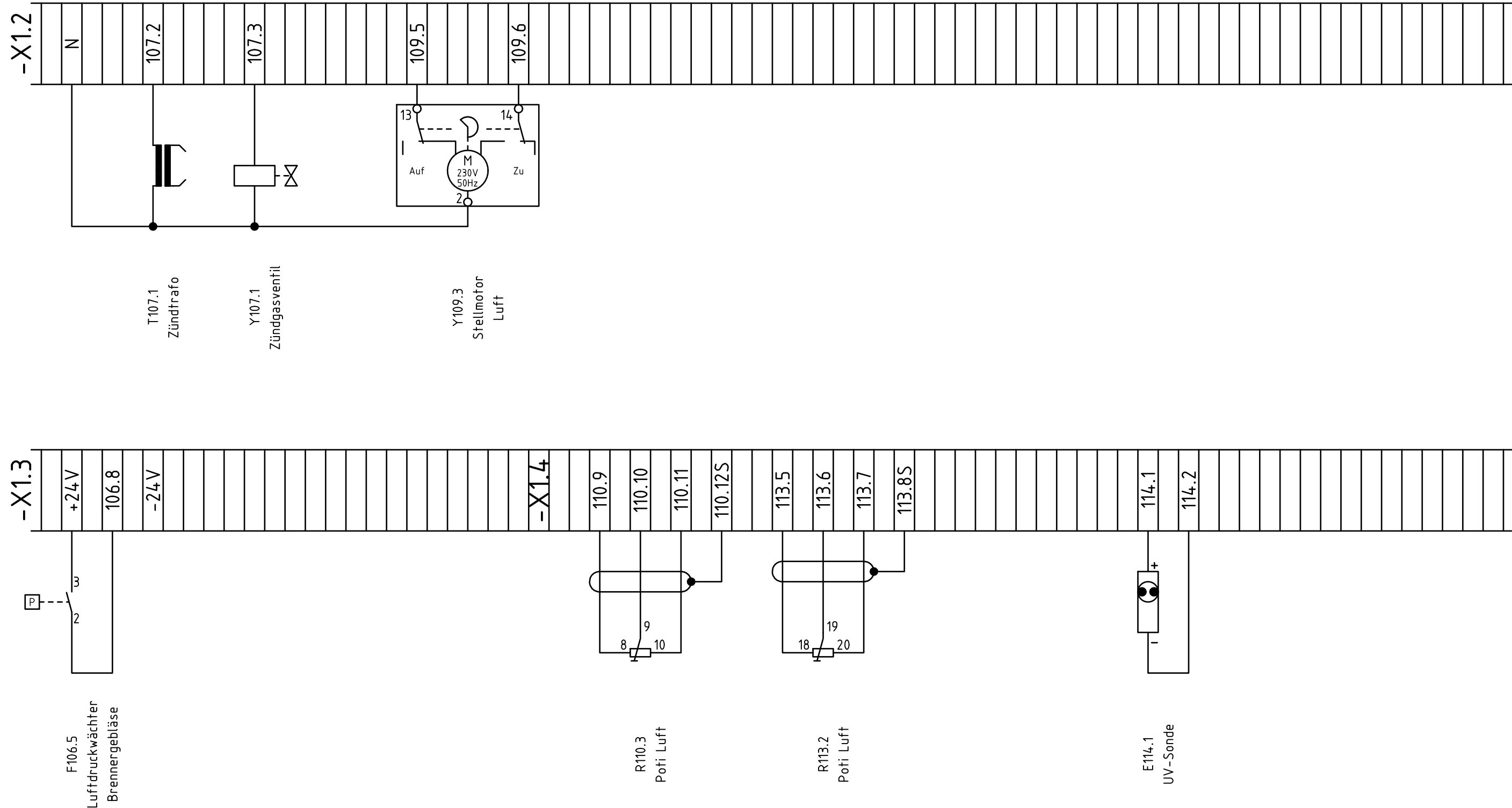


/108.8 X1/N X1/N /114.1

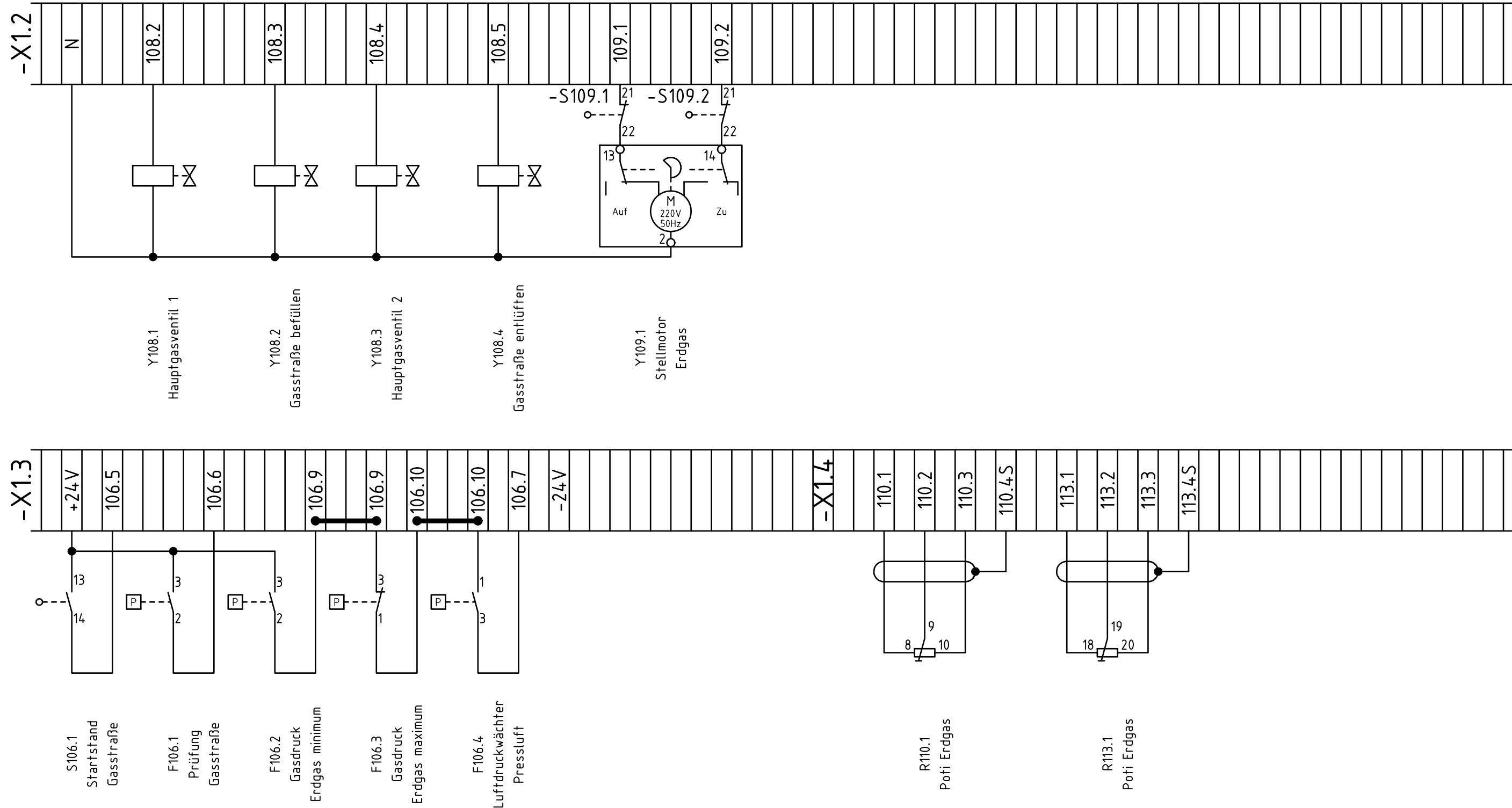
Thermofühler  
FE Kon


























































































| Gerätekomentar | Zielzeichen<br>Intern |                     | Anschlußleiste  |                 |               |                   |                  | Zielzeichen<br>extern |                   | Kabelbezeichnung |  |  |  |  |  |  |  |  |  | Gerätekomentar      |
|----------------|-----------------------|---------------------|-----------------|-----------------|---------------|-------------------|------------------|-----------------------|-------------------|------------------|--|--|--|--|--|--|--|--|--|---------------------|
|                | Gerätebezeichnung     | Anschlußbezeichnung | Darstellungsort | Drahtverbindung | Klemmennummer | Laschenverbindung | Klemmenkommentar | Anschlußbezeichnung   | Gerätebezeichnung |                  |  |  |  |  |  |  |  |  |  |                     |
|                |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                     |
|                | Leiste: -X1.1         |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                     |
|                | insgesamt 143 Klemmen |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                     |
|                | -F15.1                |                     | /15.2           |                 | 15.2          |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                     |
|                | -F15.1                |                     | /15.2           |                 | 15.3          |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                     |
|                | N                     |                     | /15.2           |                 | 15.4          |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                     |
|                | Erde                  |                     | /15.2           |                 | 15.5PE        |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                     |
|                | -F15.2                | 2                   | /15.3           |                 | 15.6          |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                     |
|                | N                     |                     | /15.3           |                 | 15.7          |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                     |
|                | Erde                  |                     | /15.3           |                 | 15.8PE        |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                     |
|                | -F15.4                | 2                   | /15.6           |                 | 15.9          |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                     |
|                | -F15.4                | 4                   | /15.6           |                 | 15.10         |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                     |
|                | -F15.4                | 6                   | /15.6           |                 | 15.11         |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                     |
|                | N                     |                     | /15.6           |                 | 15.12         |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                     |
|                | Erde                  |                     | /15.6           |                 | 15.13PE       |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                     |
|                | -F15.5                | 2                   | /15.7           |                 | 15.14         |                   |                  | 1                     | +T16-Q15.1        | ×                |  |  |  |  |  |  |  |  |  | Einspeisung Hebezug |
|                | -F15.5                | 4                   | /15.7           |                 | 15.15         |                   |                  | 3                     | +T16-Q15.1        | ×                |  |  |  |  |  |  |  |  |  | "                   |
|                | -F15.5                | 6                   | /15.7           |                 | 15.16         |                   |                  | 5                     | +T16-Q15.1        | ×                |  |  |  |  |  |  |  |  |  | "                   |
|                | N                     |                     | /15.7           |                 | 15.17         |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                     |
|                | Erde                  |                     | /15.7           |                 | 15.18PE       |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                     |
|                | -K75.1                | 2                   | /16.2           |                 | 16.1          |                   |                  | 16.1                  | +L16.31-X1.1      | ×                |  |  |  |  |  |  |  |  |  |                     |
|                | -K75.1                | 4                   | /16.2           |                 | 16.2          |                   |                  | 16.2                  | +L16.31-X1.1      | ×                |  |  |  |  |  |  |  |  |  |                     |
|                | -K75.1                | 6                   | /16.2           |                 | 16.3          |                   |                  | 16.3                  | +L16.31-X1.1      | ×                |  |  |  |  |  |  |  |  |  |                     |
|                | Erde                  |                     | /16.2           |                 | 16.4          |                   |                  | 16.4PE                | +L16.31-X1.1      | ×                |  |  |  |  |  |  |  |  |  |                     |
|                | -Q17.2                | 2                   | /17.2           |                 | 17.1          |                   |                  | U                     | +T16-M17.1        | ×                |  |  |  |  |  |  |  |  |  | Trommelantrieb 1    |
|                | -Q17.2                | 4                   | /17.2           |                 | 17.2          |                   |                  | V                     | +T16-M17.1        | ×                |  |  |  |  |  |  |  |  |  | "                   |
|                | -Q17.2                | 6                   | /17.2           |                 | 17.3          |                   |                  | W                     | +T16-M17.1        | ×                |  |  |  |  |  |  |  |  |  | "                   |
|                | Erde                  |                     | /17.2           |                 | 17.4PE        |                   |                  | PE                    | +T16-M17.1        | ×                |  |  |  |  |  |  |  |  |  | "                   |
|                | -Q17.3                | 2                   | /17.3           |                 | 17.5          |                   |                  | U                     | +T16-M17.2        | ×                |  |  |  |  |  |  |  |  |  | Trommelantrieb 2    |
|                | -Q17.3                | 4                   | /17.3           |                 | 17.6          |                   |                  | V                     | +T16-M17.2        | ×                |  |  |  |  |  |  |  |  |  | "                   |
|                | -Q17.3                | 6                   | /17.4           |                 | 17.7          |                   |                  | W                     | +T16-M17.2        | ×                |  |  |  |  |  |  |  |  |  | "                   |
|                | Erde                  |                     | /17.4           |                 | 17.8PE        |                   |                  | PE                    | +T16-M17.2        | ×                |  |  |  |  |  |  |  |  |  | "                   |
|                | -Q17.4                | 2                   | /17.5           |                 | 17.9          |                   |                  | U                     | +T16-M17.3        | ×                |  |  |  |  |  |  |  |  |  | Trommelantrieb 3    |
|                | -Q17.4                | 4                   | /17.5           |                 | 17.10         |                   |                  | V                     | +T16-M17.3        | ×                |  |  |  |  |  |  |  |  |  | "                   |
|                | -Q17.4                | 6                   | /17.5           |                 | 17.11         |                   |                  | W                     | +T16-M17.3        | ×                |  |  |  |  |  |  |  |  |  | "                   |
|                | Erde                  |                     | /17.5           |                 | 17.12PE       |                   |                  | PE                    | +T16-M17.3        | ×                |  |  |  |  |  |  |  |  |  | "                   |
|                | -Q17.5                | 2                   | /17.7           |                 | 17.13         |                   |                  | U                     | +T16-M17.4        | ×                |  |  |  |  |  |  |  |  |  | Trommelantrieb 4    |
|                | -Q17.5                | 4                   | /17.7           |                 | 17.14         |                   |                  | V                     | +T16-M17.4        | ×                |  |  |  |  |  |  |  |  |  | "                   |
|                | -Q17.5                | 6                   | /17.7           |                 | 17.15         |                   |                  | W                     | +T16-M17.4        | ×                |  |  |  |  |  |  |  |  |  | "                   |
|                | Erde                  |                     | /17.7           |                 | 17.16PE       |                   |                  | PE                    | +T16-M17.4        | ×                |  |  |  |  |  |  |  |  |  | "                   |
|                | -QF18.1               | 2                   | /18.2           |                 | 18.1          |                   |                  | U                     | +T16-M18.1        | ×                |  |  |  |  |  |  |  |  |  | Einwurfband         |
|                | -QF18.1               | 4                   | /18.2           |                 | 18.2          |                   |                  | V                     | +T16-M18.1        | ×                |  |  |  |  |  |  |  |  |  | "                   |
|                | -QF18.1               | 6                   | /18.2           |                 | 18.3          |                   |                  | W                     | +T16-M18.1        | ×                |  |  |  |  |  |  |  |  |  | "                   |
|                | Erde                  |                     | /18.2           |                 | 18.4PE        |                   |                  | PE                    | +T16-M18.1        | ×                |  |  |  |  |  |  |  |  |  | "                   |
|                | -QF18.2               | 2                   | /18.4           |                 | 18.5          |                   |                  | U                     | +T16-M18.2        | ×                |  |  |  |  |  |  |  |  |  | Überkornsieb        |
|                | -QF18.2               | 4                   | /18.5           |                 | 18.6          |                   |                  | V                     | +T16-M18.2        | ×                |  |  |  |  |  |  |  |  |  | "                   |
|                | -QF18.2               | 6                   | /18.5           |                 | 18.7          |                   |                  | W                     | +T16-M18.2        | ×                |  |  |  |  |  |  |  |  |  | "                   |
|                | Erde                  |                     | /18.5           |                 | 18.8PE        |                   |                  | PE                    | +T16-M18.2        | ×                |  |  |  |  |  |  |  |  |  | "                   |
|                | -QF18.3               | 2                   | /18.7           |                 | 18.9          |                   |                  | U                     | +T16-M18.3        | ×                |  |  |  |  |  |  |  |  |  | Steigeband          |
|                | -QF18.3               | 4                   | /18.7           |                 | 18.10         |                   |                  | V                     | +T16-M18.3        | ×                |  |  |  |  |  |  |  |  |  | "                   |
|                | -QF18.3               | 6                   | /18.7           |                 | 18.11         |                   |                  | W                     | +T16-M18.3        | ×                |  |  |  |  |  |  |  |  |  | "                   |
|                | Erde                  |                     | /18.7           |                 | 18.12PE       |                   |                  | PE                    | +T16-M18.3        | ×                |  |  |  |  |  |  |  |  |  | "                   |
|                | -QF19.1               | 2                   | /19.2           |                 | 19.1          |                   |                  | U                     | +T16-M19.1        | ×                |  |  |  |  |  |  |  |  |  | Sammelband 1        |
|                | -QF19.1               | 4                   | /19.2           |                 | 19.2          |                   |                  | V                     | +T16-M19.1        | ×                |  |  |  |  |  |  |  |  |  | "                   |
|                | -QF19.1               | 6                   | /19.2           |                 | 19.3          |                   |                  | W                     | +T16-M19.1        | ×                |  |  |  |  |  |  |  |  |  | "                   |
|                | Erde                  |                     | /19.2           |                 | 19.4PE        |                   |                  | PE                    | +T16-M19.1        | ×                |  |  |  |  |  |  |  |  |  | "                   |
|                | -QF19.2               | 2                   | /19.4           |                 | 19.5          |                   |                  | U                     | +T16-M19.2        | ×                |  |  |  |  |  |  |  |  |  | Sammelband 2        |
|                | -QF19.2               | 4                   | /19.5           |                 | 19.6          |                   |                  | V                     | +T16-M19.2        | ×                |  |  |  |  |  |  |  |  |  | "                   |
|                | -QF19.2               | 6                   | /19.5           |                 | 19.7          |                   |                  | W                     | +T16-M19.2        | ×                |  |  |  |  |  |  |  |  |  | "                   |
|                | Erde                  |                     | /19.5           |                 | 19.8PE        |                   |                  | PE                    | +T16-M19.2        | ×                |  |  |  |  |  |  |  |  |  | "                   |
|                | -F20.1                |                     | /20.2           |                 | 20.1          |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                     |
|                | -F20.1                |                     | /20.2           |                 | 20.2          |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                     |
|                | -F20.1                |                     | /20.2           |                 | 20.3          |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                     |
|                | N                     |                     | /20.2           |                 | 20.4          |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                     |
|                | Erde                  |                     | /20.2           |                 | 20.5PE        |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                     |
|                | -F20.2                |                     | /20.3           |                 | 20.6          |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                     |
|                | -F20.2                |                     | /20.4           |                 | 20.7          |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                     |
|                | -F20.2                |                     | /20.4           |                 | 20.8          |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                     |

| Gerätekomentar | Zielzeichen       |                     | Anschlußleiste  |                 |               |                   |                  | Zielzeichen         |                   | Kabelbezeichnung |  |  |  |  |  |  |  | Gerätekomentar |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|                | Gerätebezeichnung | Anschlußbezeichnung | Darstellungsort | Drahtverbindung | Klemmennummer | Laschenverbindung | Klemmenkommentar | Anschlußbezeichnung | Gerätebezeichnung |                  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|                | Leiste: -X1.1     |                     |                 |                 |               |                   |                  |                     |                   |                  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

|   |          |       |        |            |                 |                               |   |  |                |        |         |
|---|----------|-------|--------|------------|-----------------|-------------------------------|---|--|----------------|--------|---------|
| c |          |       | Datum  | 22.12.2004 | Skanska DS a.s. | BENNINGHOVEN<br>GmbH & Co. KG |  | Klemmenplan<br>Mischanlage<br>=16+E16-X1.3 | E96-0305       | =16    | Blatt 4 |
| b |          |       | Bearb. |            |                 |                               |   |  |                | +E16   |         |
| a |          |       | Gepr.  |            |                 |                               |   |  |                |        |         |
|   | Änderung | Datum | Name   | Norm       | Ersatz durch:   | Ersatz für:                   | Ursprung:   |  | Schalttschrank | 20 Bl. |         |





| Gerätekomentar | Zielzeichen          |  | Anschlußleiste    |                     |                 |                 |               | Zielzeichen       | Kabelbezeichnung |                     |                   |  |  |  |  |  | Gerätekomentar |  |  |
|----------------|----------------------|--|-------------------|---------------------|-----------------|-----------------|---------------|-------------------|------------------|---------------------|-------------------|--|--|--|--|--|----------------|--|--|
|                | Intern               |  | Gerätebezeichnung | Anschlußbezeichnung | Darstellungsort | Drahtverbindung | Klemmennummer | Laschenverbindung | Klemmenkommentar | Anschlußbezeichnung | Gerätebezeichnung |  |  |  |  |  |                |  |  |
|                | Leiste: -X1.4        |  |                   |                     |                 |                 |               |                   |                  |                     |                   |  |  |  |  |  |                |  |  |
|                | insgesamt 67 Klemmen |  |                   |                     |                 |                 |               |                   |                  |                     |                   |  |  |  |  |  |                |  |  |
|                |                      |  |                   |                     |                 |                 |               |                   |                  |                     |                   |  |  |  |  |  |                |  |  |
|                |                      |  |                   |                     |                 |                 |               |                   |                  |                     |                   |  |  |  |  |  |                |  |  |
|                |                      |  |                   |                     |                 |                 |               |                   |                  |                     |                   |  |  |  |  |  |                |  |  |
|                |                      |  |                   |                     |                 |                 |               |                   |                  |                     |                   |  |  |  |  |  |                |  |  |
|                |                      |  |                   |                     |                 |                 |               |                   |                  |                     |                   |  |  |  |  |  |                |  |  |
|                |                      |  |                   |                     |                 |                 |               |                   |                  |                     |                   |  |  |  |  |  |                |  |  |
|                |                      |  |                   |                     |                 |                 |               |                   |                  |                     |                   |  |  |  |  |  |                |  |  |
|                |                      |  |                   |                     |                 |                 |               |                   |                  |                     |                   |  |  |  |  |  |                |  |  |
|                |                      |  |                   |                     |                 |                 |               |                   |                  |                     |                   |  |  |  |  |  |                |  |  |
|                |                      |  |                   |                     |                 |                 |               |                   |                  |                     |                   |  |  |  |  |  |                |  |  |
|                |                      |  |                   |                     |                 |                 |               |                   |                  |                     |                   |  |  |  |  |  |                |  |  |
|                |                      |  |                   |                     |                 |                 |               |                   |                  |                     |                   |  |  |  |  |  |                |  |  |
|                |                      |  |                   |                     |                 |                 |               |                   |                  |                     |                   |  |  |  |  |  |                |  |  |
|                |                      |  |                   |                     |                 |                 |               |                   |                  |                     |                   |  |  |  |  |  |                |  |  |
|                |                      |  |                   |                     |                 |                 |               |                   |                  |                     |                   |  |  |  |  |  |                |  |  |
|                |                      |  |                   |                     |                 |                 |               |                   |                  |                     |                   |  |  |  |  |  |                |  |  |
|                |                      |  |                   |                     |                 |                 |               |                   |                  |                     |                   |  |  |  |  |  |                |  |  |
|                |                      |  |                   |                     |                 |                 |               |                   |                  |                     |                   |  |  |  |  |  |                |  |  |
|                |                      |  |                   |                     |                 |                 |               |                   |                  |                     |                   |  |  |  |  |  |                |  |  |
|                |                      |  |                   |                     |                 |                 |               |                   |                  |                     |                   |  |  |  |  |  |                |  |  |
|                |                      |  |                   |                     |                 |                 |               |                   |                  |                     |                   |  |  |  |  |  |                |  |  |
|                |                      |  |                   |                     |                 |                 |               |                   |                  |                     |                   |  |  |  |  |  |                |  |  |
|                |                      |  |                   |                     |                 |                 |               |                   |                  |                     |                   |  |  |  |  |  |                |  |  |
|                |                      |  |                   |                     |                 |                 |               |                   |                  |                     |                   |  |  |  |  |  |                |  |  |
|                |                      |  |                   |                     |                 |                 |               |                   |                  |                     |                   |  |  |  |  |  |                |  |  |
|                |                      |  |                   |                     |                 |                 |               |                   |                  |                     |                   |  |  |  |  |  |                |  |  |
|                |                      |  |                   |                     |                 |                 |               |                   |                  |                     |                   |  |  |  |  |  |                |  |  |
|                |                      |  |                   |                     |                 |                 |               |                   |                  |                     |                   |  |  |  |  |  |                |  |  |
|                |                      |  |                   |                     |                 |                 |               |                   |                  |                     |                   |  |  |  |  |  |                |  |  |
|                |                      |  |                   |                     |                 |                 |               |                   |                  |                     |                   |  |  |  |  |  |                |  |  |
|                |                      |  |                   |                     |                 |                 |               |                   |                  |                     |                   |  |  |  |  |  |                |  |  |
|                |                      |  |                   |                     |                 |                 |               |                   |                  |                     |                   |  |  |  |  |  |                |  |  |
|                |                      |  |                   |                     |                 |                 |               |                   |                  |                     |                   |  |  |  |  |  |                |  |  |
|                |                      |  |                   |                     |                 |                 |               |                   |                  |                     |                   |  |  |  |  |  |                |  |  |
|                |                      |  |                   |                     |                 |                 |               |                   |                  |                     |                   |  |  |  |  |  |                |  |  |
|                |                      |  |                   |                     |                 |                 |               |                   |                  |                     |                   |  |  |  |  |  |                |  |  |
|                |                      |  |                   |                     |                 |                 |               |                   |                  |                     |                   |  |  |  |  |  |                |  |  |
|                |                      |  |                   |                     |                 |                 |               |                   |                  |                     |                   |  |  |  |  |  |                |  |  |
|                |                      |  |                   |                     |                 |                 |               |                   |                  |                     |                   |  |  |  |  |  |                |  |  |
|                |                      |  |                   |                     |                 |                 |               |                   |                  |                     |                   |  |  |  |  |  |                |  |  |
|                |                      |  |                   |                     |                 |                 |               |                   |                  |                     |                   |  |  |  |  |  |                |  |  |
|                |                      |  |                   |                     |                 |                 |               |                   |                  |                     |                   |  |  |  |  |  |                |  |  |
|                |                      |  |                   |                     |                 |                 |               |                   |                  |                     |                   |  |  |  |  |  |                |  |  |
|                |                      |  |                   |                     |                 |                 |               |                   |                  |                     |                   |  |  |  |  |  |                |  |  |
|                |                      |  |                   |                     |                 |                 |               |                   |                  |                     |                   |  |  |  |  |  |                |  |  |
|                |                      |  |                   |                     |                 |                 |               |                   |                  |                     |                   |  |  |  |  |  |                |  |  |
|                |                      |  |                   |                     |                 |                 |               |                   |                  |                     |                   |  |  |  |  |  |                |  |  |
|                |                      |  |                   |                     |                 |                 |               |                   |                  |                     |                   |  |  |  |  |  |                |  |  |
|                |                      |  |                   |                     |                 |                 |               |                   |                  |                     |                   |  |  |  |  |  |                |  |  |
|                |                      |  |                   |                     |                 |                 |               |                   |                  |                     |                   |  |  |  |  |  |                |  |  |
|                |                      |  |                   |                     |                 |                 |               |                   |                  |                     |                   |  |  |  |  |  |                |  |  |
|                |                      |  |                   |                     |                 |                 |               |                   |                  |                     |                   |  |  |  |  |  |                |  |  |
|                |                      |  |                   |                     |                 |                 |               |                   |                  |                     |                   |  |  |  |  |  |                |  |  |
|                |                      |  |                   |                     |                 |                 |               |                   |                  |                     |                   |  |  |  |  |  |                |  |  |
|                |                      |  |                   |                     |                 |                 |               |                   |                  |                     |                   |  |  |  |  |  |                |  |  |
|                |                      |  |                   |                     |                 |                 |               |                   |                  |                     |                   |  |  |  |  |  |                |  |  |
|                |                      |  |                   |                     |                 |                 |               |                   |                  |                     |                   |  |  |  |  |  |                |  |  |
|                |                      |  |                   |                     |                 |                 |               |                   |                  |                     |                   |  |  |  |  |  |                |  |  |
|                |                      |  |                   |                     |                 |                 |               |                   |                  |                     |                   |  |  |  |  |  |                |  |  |
|                |                      |  |                   |                     |                 |                 |               |                   |                  |                     |                   |  |  |  |  |  |                |  |  |
|                |                      |  |                   |                     |                 |                 |               |                   |                  |                     |                   |  |  |  |  |  |                |  |  |
|                |                      |  |                   |                     |                 |                 |               |                   |                  |                     |                   |  |  |  |  |  |                |  |  |
|                |                      |  |                   |                     |                 |                 |               |                   |                  |                     |                   |  |  |  |  |  |                |  |  |
|                |                      |  |                   |                     |                 |                 |               |                   |                  |                     |                   |  |  |  |  |  |                |  |  |
|                |                      |  |                   |                     |                 |                 |               |                   |                  |                     |                   |  |  |  |  |  |                |  |  |
|                |                      |  |                   |                     |                 |                 |               |                   |                  |                     |                   |  |  |  |  |  |                |  |  |
|                |                      |  |                   |                     |                 |                 |               |                   |                  |                     |                   |  |  |  |  |  |                |  |  |
|                |                      |  |                   |                     |                 |                 |               |                   |                  |                     |                   |  |  |  |  |  |                |  |  |
|                |                      |  |                   |                     |                 |                 |               |                   |                  |                     |                   |  |  |  |  |  |                |  |  |
|                |                      |  |                   |                     |                 |                 |               |                   |                  |                     |                   |  |  |  |  |  |                |  |  |
|                |                      |  |                   |                     |                 |                 |               |                   |                  |                     |                   |  |  |  |  |  |                |  |  |
|                |                      |  |                   |                     |                 |                 |               |                   |                  |                     |                   |  |  |  |  |  |                |  |  |
|                |                      |  |                   |                     |                 |                 |               |                   |                  |                     |                   |  |  |  |  |  |                |  |  |
|                |                      |  |                   |                     |                 |                 |               |                   |                  |                     |                   |  |  |  |  |  |                |  |  |


| Gerätekomentar | Zielzeichen<br>Intern |                     | Anschlußleiste  |                 |               |   |                  | Zielzeichen<br>extern |                   | Kabelbezeichnung |  |  |  |  |  |  |  |  |  | Gerätekomentar |  |
|----------------|-----------------------|---------------------|-----------------|-----------------|---------------|---|------------------|-----------------------|-------------------|------------------|--|--|--|--|--|--|--|--|--|----------------|--|
|                | Gerätebezeichnung     | Anschlußbezeichnung | Darstellungsort | Drahtverbindung | Klemmennummer | Laschenverbindung   | Klemmenkommentar | Anschlußbezeichnung   | Gerätebezeichnung |                  |  |  |  |  |  |  |  |  |  |                |  |
|                | Leiste: -X10.2        |                     |                 |                 |               |   |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                |  |
|                | insgesamt 15 Klemmen  |                     |                 |                 |               |   |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                |  |
|                | -F30.1                | 2                   | /30.7           |                 | 30.1          |    |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                |  |
|                |                       |                     | /30.7           |                 | 30.1          |    |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                |  |
|                |                       |                     | /30.7           |                 | 30.1          |    |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                |  |
|                |                       |                     | /30.7           |                 | 30.2          |    |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                |  |
|                |                       |                     | /30.7           |                 | 30.2          |    |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                |  |
|                |                       |                     | /30.7           |                 | 30.2          |    |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                |  |
|                | -F31.1                | 1                   | /30.8           |                 | 30.3          |    |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                |  |
|                |                       |                     | /30.8           |                 | 30.3          |    |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                |  |
|                |                       |                     | /30.8           |                 | 30.3          |    |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                |  |
|                |                       |                     | /30.8           |                 | 30.3          |    |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                |  |
|                | -K37.3                | 11                  | /31.8           |                 | L1.1          |    |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                |  |
|                |                       |                     | /31.8           |                 | L1.1          |   |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                |  |
|                |                       |                     | /31.8           |                 | L1.1          |  |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                |  |
|                |                       |                     | /31.8           |                 | L1.1          |  |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                |  |
|                | Hupe Sammelstörung    | -H37.1              | /31.8           |                 | N             |  |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                |  |
|                |                       |                     | /31.8           |                 | N             |  |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                |  |
|                |                       |                     | /31.8           |                 | N             |  |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                |  |
|                |                       |                     | /31.8           |                 | N             |  |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                |  |
|                |                       |                     | /31.8           |                 | N             |  |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                |  |
|                |                       |                     | /31.8           |                 | N             |  |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                |  |
|                |                       |                     | /31.8           |                 | N             |  |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                |  |
|                |                       |                     | /31.8           |                 | N             |  |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                |  |
|                |                       |                     | /31.8           |                 | N             |  |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                |  |
|                |                       |                     | /31.8           |                 | N             |  |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                |  |
|                |                       |                     | /31.8           |                 | N             |  |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                |  |
|                |                       |                     | /31.8           |                 | N             |  |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                |  |
|                |                       |                     | /31.8           |                 | N             |  |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                |  |
|                |                       |                     | /31.8           |                 | N             |  |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                |  |
|                |                       |                     | /31.8           |                 | N             |  |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                |  |
|                |                       |                     | /31.8           |                 | N             |  |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                |  |
|                |                       |                     | /31.8           |                 | N             |  |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                |  |
|                |                       |                     | /31.8           |                 | N             |  |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                |  |
|                |                       |                     | /31.8           |                 | N             |  |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                |  |
|                |                       |                     | /31.8           |                 | N             |  |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                |  |
|                |                       |                     | /31.8           |                 | N             |  |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                |  |
|                |                       |                     | /31.8           |                 | N             |  |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                |  |
|                |                       |                     | /31.8           |                 | N             |  |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                |  |
|                |                       |                     | /31.8           |                 | N             |  |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                |  |
|                |                       |                     | /31.8           |                 | N             |  |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                |  |
|                |                       |                     | /31.8           |                 | N             |  |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                |  |
|                |                       |                     | /31.8           |                 | N             |  |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                |  |
|                |                       |                     | /31.8           |                 | N             |  |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                |  |
|                |                       |                     | /31.8           |                 | N             |  |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                |  |
|                |                       |                     | /31.8           |                 | N             |  |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                |  |
|                |                       |                     | /31.8           |                 | N             |  |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                |  |
|                |                       |                     | /31.8           |                 | N             |  |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                |  |
|                |                       |                     | /31.8           |                 | N             |  |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                |  |
|                |                       |                     | /31.8           |                 | N             |  |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                |  |
|                |                       |                     | /31.8           |                 | N             |  |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                |  |
|                |                       |                     | /31.8           |                 | N             |  |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                |  |
|                |                       |                     | /31.8           |                 | N             |  |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                |  |
|                |                       |                     | /31.8           |                 | N             |  |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                |  |
|                |                       |                     | /31.8           |                 | N             |  |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                |  |
|                |                       |                     | /31.8           |                 | N             |  |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                |  |
|                |                       |                     | /31.8           |                 | N             |  |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                |  |
|                |                       |                     | /31.8           |                 | N             |  |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                |  |
|                |                       |                     | /31.8           |                 | N             |  |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                |  |
|                |                       |                     | /31.8           |                 | N             |  |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                |  |
|                |                       |                     | /31.8           |                 | N             |  |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                |  |
|                |                       |                     | /31.8           |                 | N             |  |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                |  |
|                |                       |                     | /31.8           |                 | N             |  |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                |  |
|                |                       |                     | /31.8           |                 | N             |  |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                |  |
|                |                       |                     | /31.8           |                 | N             |  |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                |  |
|                |                       |                     | /31.8           |                 | N             |  |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                |  |
|                |                       |                     | /31.8           |                 | N             |  |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                |  |
|                |                       |                     | /31.8           |                 | N             |  |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                |  |
|                |                       |                     | /31.8           |                 | N             |  |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                |  |
|                |                       |                     | /31.8           |                 | N             |  |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                |  |
|                |                       |                     | /31.8           |                 | N             |  |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                |  |
|                |                       |                     | /31.8           |                 | N             |  |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                |  |
|                |                       |                     | /31.8           |                 | N             |  |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                |  |
|                |                       |                     | /31.8           |                 | N             |  |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                |  |
|                |                       |                     | /31.8           |                 | N             |  |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                |  |
|                |                       |                     | /31.8           |                 | N             |  |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                |  |
|                |                       |                     | /31.8           |                 | N             |  |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                |  |
|                |                       |                     | /31.8           |                 | N             |  |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                |  |



[illegible]


|   |          |       |        |            |                 |               |             |                                      |   |  |                           |  |        |         |
|---|----------|-------|--------|------------|-----------------|---------------|-------------|--------------------------------------|---|--|---------------------------|--|--------|---------|
| c |          |       | Datum  | 22.12.2004 | Skanska DS a.s. |               |             | <b>BENNINGHOVEN</b><br>GmbH & Co. KG |  | Klemmenplan<br>Mischanlage<br>=16+L16.0-X8.4 | E96-0305                  |  | =16    | Blatt 9 |
| b |          |       | Bearb. |            |                 |               |             |                                      |   |  |                           |  | +L16.0 |         |
| a |          |       | Gepr.  |            |                 |               |             |                                      |   |  |                           |  |        |         |
|   | Änderung | Datum | Name   | Norm       |                 | Ersatz durch: | Ersatz für: | Ursprung:                            |   |  | Klemmk. Füllstand Mineral |  | 20 Bl. |         |

|   |          |       |        |            |                 |                                      |   |   |                     |  |        |          |
|---|----------|-------|--------|------------|-----------------|--------------------------------------|---|---|---------------------|--|--------|----------|
| c |          |       | Datum  | 22.12.2004 | Skanska DS a.s. | <b>BENNINGHOVEN</b><br>GmbH & Co. KG |  | Klemmenplan<br>Mischanlage<br>=16+L16.1-X1.4, -X8.3 | E96-0305            |  | =16    | Blatt 10 |
| b |          |       | Bearb. |            |                 |                                      |   |   | +L16.1              |  |        |          |
| a |          |       | Gepr.  |            |                 |                                      |   |   |                     |  |        |          |
|   | Änderung | Datum | Name   | Norm       | Ersatz durch:   | Ersatz für:                          | Ursprung:   |   | Klemmk. Sieb/Bypass |  | 20 Bl. |          |

|   |          |       |        |            |                 |               |             |                                      |   |  |          |  |          |          |
|---|----------|-------|--------|------------|-----------------|---------------|-------------|--------------------------------------|---|--|----------|--|----------|----------|
| c |          |       | Datum  | 22.12.2004 | Skanska DS a.s. |               |             | <b>BENNINGHOVEN</b><br>GmbH & Co. KG |  | Klemmenplan<br>Mischanlage<br>=16+L16.3.1-X1.2, -X1.3, -X1.4 | E96-0305 |  | =16      | Blatt 11 |
| b |          |       | Bearb. |            |                 |               |             |                                      |   |  |          |  | +L16.3.1 |          |
| a |          |       | Gepr.  |            |                 |               |             |                                      |   |  |          |  |          |          |
|   | Änderung | Datum | Name   | Norm       |                 | Ersatz durch: | Ersatz für: | Ursprung:                            |   |  |          |  |          |          |

| Gerätekommentar | Zielzeichen<br>Intern |                     | Anschlußleiste  |                 |               |                   |                  | Zielzeichen<br>extern |                   | Kabelbezeichnung |  |  |  |  |  |  |  |  |  | Gerätekommentar       |
|-----------------|-----------------------|---------------------|-----------------|-----------------|---------------|-------------------|------------------|-----------------------|-------------------|------------------|--|--|--|--|--|--|--|--|--|-----------------------|
|                 | Gerätebezeichnung     | Anschlußbezeichnung | Darstellungsort | Drahtverbindung | Klemmennummer | Laschenverbindung | Klemmenkommentar | Anschlußbezeichnung   | Gerätebezeichnung |                  |  |  |  |  |  |  |  |  |  |                       |
|                 | Leiste: -X1.2         |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                       |
|                 | insgesamt 11 Klemmen  |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                       |
|                 | +E16-X1.2             | 108.2F              | /108.3          |                 | 108.2         |                   |                  | +T16.3.2-Y108.1       | ×                 |                  |  |  |  |  |  |  |  |  |  | Hauptgasventil 1      |
|                 | +E16-X1.2             | 108.3F              | /108.4          |                 | 108.3         |                   |                  | +T16.3.2-Y108.2       | ×                 |                  |  |  |  |  |  |  |  |  |  | Gasstraße befüllen    |
|                 | +E16-X1.2             | 108.4F              | /108.6          |                 | 108.4         |                   |                  | +T16.3.2-Y108.3       | ×                 |                  |  |  |  |  |  |  |  |  |  | Hauptgasventil 2      |
|                 | +E16-X1.2             | 108.5F              | /108.7          |                 | 108.5         |                   |                  | +T16.3.2-Y108.4       | ×                 |                  |  |  |  |  |  |  |  |  |  | Gasstraße entlüften   |
|                 | +E16-X1.2             | 109.1F              | /109.2          |                 | 109.1         |                   |                  | +T16.3.2-S109.1       | ×                 |                  |  |  |  |  |  |  |  |  |  | Stellmotor Erdgas auf |
|                 | +E16-X1.2             | 109.2F              | /109.3          |                 | 109.2         |                   |                  | +T16.3.2-S109.2       | ×                 |                  |  |  |  |  |  |  |  |  |  | Stellmotor Erdgas zu  |
|                 | +E16-X1.2             | 108.1N              | /108.3          |                 | N             |                   |                  | +T16.3.2-Y108.1       | ×                 |                  |  |  |  |  |  |  |  |  |  | Hauptgasventil 1      |
|                 |                       |                     | /108.4          |                 | N             |                   |                  | +T16.3.2-Y108.2       | ×                 |                  |  |  |  |  |  |  |  |  |  | Gasstraße befüllen    |
|                 |                       |                     | /108.6          |                 | N             |                   |                  | +T16.3.2-Y108.3       | ×                 |                  |  |  |  |  |  |  |  |  |  | Hauptgasventil 2      |
|                 |                       |                     | /108.7          |                 | N             |                   |                  | +T16.3.2-Y108.4       | ×                 |                  |  |  |  |  |  |  |  |  |  | Gasstraße entlüften   |
|                 |                       |                     | /109.2          |                 | N             |                   |                  | +T16.3.2-Y109.1       | ×                 |                  |  |  |  |  |  |  |  |  |  | Stellmotor Erdgas     |
|                 | Leiste: -X1.3         |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                       |
|                 | insgesamt 11 Klemmen  |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                       |
|                 | +E16-X1.3             | 106.5               | /106.2          |                 | 106.5         |                   |                  | +T16.3.2-S106.1       | ×                 |                  |  |  |  |  |  |  |  |  |  | Startstand Gasstraße  |
|                 | +E16-X1.3             | 106.6               | /106.3          |                 | 106.6         |                   |                  | +T16.3.2-F106.1       | ×                 |                  |  |  |  |  |  |  |  |  |  | Prüfung Gasstraße     |
|                 | +E16-X1.3             | 106.7               | /106.4          |                 | 106.7         |                   |                  | +T16.3.2-F106.4       | ×                 |                  |  |  |  |  |  |  |  |  |  | Pressluft Gasstraße   |
|                 |                       |                     | /106.4          |                 | 106.9         |                   |                  | +T16.3.2-F106.2       | ×                 |                  |  |  |  |  |  |  |  |  |  | Erdgas minimum        |
|                 |                       |                     | /106.4          |                 | 106.9         |                   |                  | +T16.3.2-F106.3       | ×                 |                  |  |  |  |  |  |  |  |  |  | Erdgas maximum        |
|                 |                       |                     | /106.4          |                 | 106.10        |                   |                  | +T16.3.2-F106.3       | ×                 |                  |  |  |  |  |  |  |  |  |  | "                     |
|                 |                       |                     | /106.4          |                 | 106.10        |                   |                  | +T16.3.2-F106.4       | ×                 |                  |  |  |  |  |  |  |  |  |  | Pressluft Gasstraße   |
|                 | +E16-X1.3             | 106.1               | /106.2          |                 | +24V          |                   |                  | +T16.3.2-S106.1       | ×                 |                  |  |  |  |  |  |  |  |  |  | Startstand Gasstraße  |
|                 |                       |                     | /106.3          |                 | +24V          |                   |                  | +T16.3.2-F106.1       | ×                 |                  |  |  |  |  |  |  |  |  |  | Prüfung Gasstraße     |
|                 |                       |                     | /106.4          |                 | +24V          |                   |                  | +T16.3.2-F106.2       | ×                 |                  |  |  |  |  |  |  |  |  |  | Erdgas minimum        |
|                 | +E16-X1.3             | 106.2               | /106.2          |                 | -24V          |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                       |
|                 | Leiste: -X1.4         |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                       |
|                 | insgesamt 8 Klemmen   |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                       |
|                 | +E16-X1.4             | 110.1               | /110.2          |                 | 110.1         |                   |                  | +T16.3.2-R110.1       | ×                 |                  |  |  |  |  |  |  |  |  |  | Poti Erdgas           |
|                 | +E16-X1.4             | 110.2               | /110.2          |                 | 110.2         |                   |                  | +T16.3.2-R110.1       | ×                 |                  |  |  |  |  |  |  |  |  |  | "                     |
|                 | +E16-X1.4             | 110.3               | /110.3          |                 | 110.3         |                   |                  | +T16.3.2-R110.1       | ×                 |                  |  |  |  |  |  |  |  |  |  | "                     |
|                 | +E16-X1.4             | 110.4S              | /110.3          |                 | 110.4S        |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                       |
|                 | +E16-X1.4             | 113.1               | /113.3          |                 | 113.1         |                   |                  | +T16.3.2-R113.1       | ×                 |                  |  |  |  |  |  |  |  |  |  | Poti Erdgas           |
|                 | +E16-X1.4             | 113.2               | /113.3          |                 | 113.2         |                   |                  | +T16.3.2-R113.1       | ×                 |                  |  |  |  |  |  |  |  |  |  | "                     |
|                 | +E16-X1.4             | 113.3               | /113.3          |                 | 113.3         |                   |                  | +T16.3.2-R113.1       | ×                 |                  |  |  |  |  |  |  |  |  |  | "                     |
|                 | +E16-X1.4             | 113.4S              | /113.3          |                 | 113.4S        |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                       |
|                 |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                       |
|                 |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                       |
|                 |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                       |
|                 |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                       |
|                 |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                       |
|                 |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                       |
|                 |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                       |
|                 |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                       |
|                 |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                       |
|                 |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                       |
|                 |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                       |
|                 |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                       |
|                 |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                       |
|                 |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                       |
|                 |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                       |
|                 |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                       |
|                 |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                       |
|                 |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                       |
|                 |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                       |
|                 |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                       |
|                 |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                       |
|                 |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                       |
|                 |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                       |
|                 |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                       |
|                 |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                       |
|                 |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                       |
|                 |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                       |
|                 |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                       |
|                 |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                       |
|                 |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                       |
|                 |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                       |
|                 |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                       |
|                 |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                       |
|                 |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                       |
|                 |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                       |
|                 |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |  |  |                       |


[illegible]


|   |          |       |        |            |                 |               |             |                                      |   |  |          |        |          |          |
|---|----------|-------|--------|------------|-----------------|---------------|-------------|--------------------------------------|---|--|----------|--------|----------|----------|
| c |          |       | Datum  | 22.12.2004 | Skanska DS a.s. |               |             | <b>BENNINGHOVEN</b><br>GmbH & Co. KG |  | Klemmenplan<br>Mischanlage<br>=16+L16.4.1-X8.3 | E96-0305 |        | =16      | Blatt 14 |
| b |          |       | Bearb. |            |                 |               |             |                                      |   |  |          |        | +L16.4.1 |          |
| a |          |       | Gepr.  |            |                 |               |             |                                      |   |  |          |        |          |          |
|   | Änderung | Datum | Name   | Norm       |                 | Ersatz durch: | Ersatz für: | Ursprung:                            |   | KK Umstellklappe Überlauf                      |          | 20 Bl. |          |          |

| Gerätekomentar | Zielzeichen<br>Intern |                     | Anschlußleiste  |                 |               |                   |                  | Zielzeichen<br>extern |                   | Kabelbezeichnung |  |  |  |  |  |  |  | Gerätekomentar |                          |  |
|----------------|-----------------------|---------------------|-----------------|-----------------|---------------|-------------------|------------------|-----------------------|-------------------|------------------|--|--|--|--|--|--|--|----------------|--------------------------|--|
|                | Gerätebezeichnung     | Anschlußbezeichnung | Darstellungsort | Drahtverbindung | Klemmennummer | Laschenverbindung | Klemmenkommentar | Anschlußbezeichnung   | Gerätebezeichnung |                  |  |  |  |  |  |  |  |                |                          |  |
|                | Leiste: -X8.3         |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |                          |  |
|                | insgesamt 4 Klemmen   |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |                          |  |
|                | +E16-X8.3             | 60.1                | /60.7           |                 | 60.1          |                   |                  | 22                    | + T16.12-S60.1    | X                |  |  |  |  |  |  |  |                | Reißleine RC-Einwurfband |  |
|                | +E16-X8.3             | 61.1                | /61.7           |                 | 61.1          |                   |                  | 22                    | + T16.12-S61.1    | X                |  |  |  |  |  |  |  |                | Reißleine RC-Steigeband  |  |
|                | +E16-X1.3             | 59.1                | /60.7           |                 | +24V          |                   |                  | 21                    | + T16.12-S60.1    | X                |  |  |  |  |  |  |  |                | Reißleine RC-Einwurfband |  |
|                |                       | /61.7               |                 |                 | +24V          |                   |                  | 21                    | + T16.12-S61.1    | X                |  |  |  |  |  |  |  |                | Reißleine RC-Steigeband  |  |
|                |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |                          |  |
|                |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |                          |  |
|                |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |                          |  |
|                |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |                          |  |
|                |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |                          |  |
|                |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |                          |  |
|                |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |                          |  |
|                |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |                          |  |
|                |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |                          |  |
|                |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |                          |  |
|                |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |                          |  |
|                |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |                          |  |
|                |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |                          |  |
|                |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |                          |  |
|                |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |                          |  |
|                |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |                          |  |
|                |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |                          |  |
|                |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |                          |  |
|                |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |                          |  |
|                |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |                          |  |
|                |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |                          |  |
|                |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |                          |  |
|                |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |                          |  |
|                |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |                          |  |
|                |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |                          |  |
|                |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |                          |  |
|                |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |                          |  |
|                |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |                          |  |
|                |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |                          |  |
|                |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |                          |  |
|                |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |                          |  |
|                |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |                          |  |
|                |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |                          |  |
|                |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |                          |  |
|                |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |                          |  |
|                |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |                          |  |
|                |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |                          |  |
|                |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |                          |  |
|                |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |                          |  |
|                |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |                          |  |
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|                |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |                          |  |
|                |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |                          |  |
|                |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |                          |  |
|                |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |                          |  |
|                |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |                          |  |
|                |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |                          |  |
|                |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |                          |  |
|                |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |                          |  |
|                |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |                          |  |
|                |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |                          |  |
|                |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |                          |  |
|                |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |                          |  |
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|                |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |                          |  |
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|                |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |                          |  |
|                |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |                          |  |
|                |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |                          |  |
|                |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |                          |  |
|                |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |                          |  |
|                |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |                          |  |
|                |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |                          |  |
|                |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |                          |  |



[illegible]

|   |          |       |        |            |                 |             |           |                                      |   |   |          |        |         |          |
|---|----------|-------|--------|------------|-----------------|-------------|-----------|--------------------------------------|---|---|----------|--------|---------|----------|
| c |          |       | Datum  | 22.12.2004 | Skanska DS a.s. |             |           | <b>BENNINGHOVEN</b><br>GmbH & Co. KG |  | Klemmenplan<br>Misanlage<br>=16+L16.21-X1.3 | E96-0305 |        | =16     | Blatt 17 |
| b |          |       | Bearb. |            |                 |             |           |                                      |   |   |          |        | +L16.21 |          |
| a |          |       | Gepr.  |            |                 |             |           |                                      |   |   |          |        |         |          |
|   | Änderung | Datum | Name   | Norm       | Ersatz durch:   | Ersatz für: | Ursprung: |                                      |   | Klemmkasten Tür Mischer                     |          | 20 Bl. |         |          |

|   |          |       |        |            |                 |             |           |                                      |   |  |          |        |     |          |
|---|----------|-------|--------|------------|-----------------|-------------|-----------|--------------------------------------|---|--|----------|--------|-----|----------|
| c |          |       | Datum  | 22.12.2004 | Skanska DS a.s. |             |           | <b>BENNINGHOVEN</b><br>GmbH & Co. KG |  | Klemmenplan<br>Mischanlage<br>=16+L16.22-X1.3, -X8.3 | E96-0305 |        | =16 | Blatt 18 |
| b |          |       | Bearb. |            |                 |             |           |                                      |   |  | +L16.22  |        |     |          |
| a |          |       | Gepr.  |            |                 |             |           |                                      |   |  |          |        |     |          |
|   | Änderung | Datum | Name   | Norm       | Ersatz durch:   | Ersatz für: | Ursprung: |                                      |   | Klemmk. Tür Heißelevator                             |          | 20 Bl. |     |          |

[illegible]

| Gerätekomentar | Zielzeichen<br>Intern |                     | Anschlußleiste  |                 |               |                   |                  | Zielzeichen<br>extern |                   | Kabelbezeichnung |  |  |  |  |  |  |  | Gerätekomentar |  |                  |
|----------------|-----------------------|---------------------|-----------------|-----------------|---------------|-------------------|------------------|-----------------------|-------------------|------------------|--|--|--|--|--|--|--|----------------|--|------------------|
|                | Gerätebezeichnung     | Anschlußbezeichnung | Darstellungsort | Drahtverbindung | Klemmennummer | Laschenverbindung | Klemmenkommentar | Anschlußbezeichnung   | Gerätebezeichnung |                  |  |  |  |  |  |  |  |                |  |                  |
|                | Leiste: -X1.1         |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |  |                  |
|                | insgesamt 4 Klemmen   |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |  |                  |
|                | +E16-X1.1             | 16.1                | /16.2           |                 | 16.1          |                   |                  | U                     | + T16.31-M16.1    | X                |  |  |  |  |  |  |  |                |  | Heißelevator     |
|                | +E16-X1.1             | 16.2                | /16.2           |                 | 16.2          |                   |                  | V                     | + T16.31-M16.1    | X                |  |  |  |  |  |  |  |                |  | "                |
|                | +E16-X1.1             | 16.3                | /16.2           |                 | 16.3          |                   |                  | W                     | + T16.31-M16.1    | X                |  |  |  |  |  |  |  |                |  | "                |
|                | +E16-X1.1             | 16.4                | /16.2           |                 | 16.4PE        |                   |                  | PE                    | + T16.31-M16.1    | X                |  |  |  |  |  |  |  |                |  | "                |
|                | Leiste: -X1.4         |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |  |                  |
|                | insgesamt 2 Klemmen   |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |  |                  |
|                | +E16-X1.4             | 16.1                | /16.3           |                 | 16.1          |                   |                  | + T16.31-R16.1        | X                 |                  |  |  |  |  |  |  |  |                |  | PTC Heißelevator |
|                | +E16-X1.4             | 16.2                | /16.3           |                 | 16.2          |                   |                  | + T16.31-R16.1        | X                 |                  |  |  |  |  |  |  |  |                |  | "                |
|                |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |  |                  |
|                |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |  |                  |
|                |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |  |                  |
|                |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |  |                  |
|                |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |  |                  |
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|                |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |  |                  |
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|                |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |  |                  |
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|                |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |  |                  |
|                |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |  |                  |
|                |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |  |                  |
|                |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |  |                  |
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|                |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |  |                  |
|                |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |  |                  |
|                |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |  |                  |
|                |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |  |                  |
|                |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |  |                  |
|                |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |  |                  |
|                |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |  |                  |
|                |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |  |                  |
|                |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |  |                  |
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|                |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |  |                  |
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|                |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |  |                  |
|                |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |  |                  |
|                |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |  |                  |
|                |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |  |                  |
|                |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |  |                  |
|                |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |  |                  |
|                |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |  |                  |
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|                |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |  |                  |
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|                |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |  |                  |
|                |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |  |                  |
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|                |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |  |                  |
|                |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |  |                  |
|                |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |  |                  |
|                |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |  |                  |
|                |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |  |                  |
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|                |                       |                     |                 |                 |               |                   |                  |                       |                   |                  |  |  |  |  |  |  |  |                |  |                  |
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