



Stromlaufplan  
Circuit diagram

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                                                     |  |                                                         |  |                                                    |  |                        |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------|--|---------------------------------------------------------|--|----------------------------------------------------|--|------------------------|--|
| Projekt Project                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  | 909100-00468                                        |  | Artikelnr. Article no.                                  |  | 6186220X                                           |  |                        |  |
| Modell Model                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  | cBoxX 100                                           |  | Revision Revision                                       |  | Kd                                                 |  |                        |  |
| Dok. Nr. Doc. no.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  | 81707601.Kd                                         |  |                                                         |  |                                                    |  |                        |  |
| <u>Technische Daten Technical data</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |                                                     |  | <u>Drahtfarben Colors of wiring</u>                     |  |                                                    |  |                        |  |
| Bemessungsspannung<br>Rated voltage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  | 460Y/265 V +10%, 3 phase                            |  | Hauptstromkreis<br>Main circuit                         |  | BK<br>schwarz<br>black                             |  |                        |  |
| Frequenz<br>Frequency                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | 60Hz                                                |  | Schutzleiter<br>Protective conductor                    |  | GNYE<br>grün-gelb<br>green-yellow                  |  |                        |  |
| Steuerspannung<br>Control voltage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  | 24V DC                                              |  | Steuerspannung 24V DC<br>Control voltage 24V DC         |  | DKBU<br>dunkelblau<br>dark blue                    |  |                        |  |
| Anschlussleistung<br>Connected load                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  | ca. 46kW                                            |  | Steuerspannung 0V DC<br>Control voltage 0V DC           |  | DKBUWH<br>dunkelblau-weiß<br>dark blue-white       |  |                        |  |
| Volllaststrom<br>Full-load current                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  | ca. 66A                                             |  | Steuerspannung 24/230V AC<br>Control voltage 24/230V AC |  | RD<br>rot<br>red                                   |  |                        |  |
| Max. Vorsicherung<br>Max. pre-fuse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  | Class J, 600V AC, 100A                              |  | Steuerspannung 0V AC<br>Control voltage 0V AC           |  | RDWH<br>rot-weiß<br>red-white                      |  |                        |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  | Max. Kurzschlussstrom<br>Max. short circuit current |  | SCCR= 10kA                                              |  | Fühlerleitung<br>Sensor conductor                  |  | WH<br>weiß<br>white    |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  | Schutzart<br>Enclosure Type rating                  |  | IP 54                                                   |  | Pot. freie Verdrahtung<br>Wiring without potential |  | OG<br>orange<br>orange |  |
| <u>Achtung!</u><br><u>Warning!</u><br><br>Vor Inbetriebnahme alle Klemmpunkte mit Schrauben nachziehen!<br>Tighten all clamping points with screws before commissioning!<br><br>Bei unbefugten Eingriffen in die Verdrahtung erlischt unsere Gewährleistung!<br>In the event of unauthorized interference with the wiring, our warranty expires!<br><br>Der Schaltplan ist Bestandteil des Schaltschranks gleicher Baunummer und sollte nicht daraus entfernt werden, damit er im Notfall sofort verfügbar ist!<br>The circuit diagram is a part of the switch cabinet with matching build number, so it should not be removed and should always be available on short notice in case of emergency! |  |                                                     |  |                                                         |  |                                                    |  |                        |  |



Strukturkennzeichenübersicht

Structure identifier overview

| Vollständige Bezeichnung<br>Full designation | Strukturbeschreibung<br>Structure description               |
|----------------------------------------------|-------------------------------------------------------------|
| &EAA                                         | Verwaltungstechnische Dokumente<br>Administrative documents |
| &EAB                                         | Inhaltsverzeichnis<br>Table of contents                     |
| &ETB                                         | Schaltschrankaufbau<br>Control cabinet layout               |
| &EPL                                         | Feldgeräteplatzierung<br>Field device placement             |
| &EFS                                         | Schaltplan<br>Circuit diagram                               |
| &EPC                                         | Artikelstückliste<br>Parts list                             |
| &EMA                                         | Klemmenplan<br>Terminal diagram                             |
| &EMB                                         | Kabelübersicht<br>Cable overview                            |
| &EMZ                                         | Kabelplan<br>Cable diagram                                  |
| &EPA                                         | Zuschnittsliste<br>Cutting list                             |
| =MA1                                         | Maschine 1<br>Machine 1                                     |
| =MA2                                         | Maschine 2<br>Machine 2                                     |
| +SS1                                         | Schaltschrank 1<br>Control cabinet 1                        |
| +KK1                                         | Klemmenkasten 1<br>Terminal box 1                           |
| +MR1                                         | Maschinenraum 1<br>Machine room 1                           |

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| Dok.-art<br>Doc. type | Anlage<br>Higher-level<br>function | Einbauort<br>Mounting<br>location | Blatt<br>Sheet | Seitenbeschreibung<br>Page description                        |
|-----------------------|------------------------------------|-----------------------------------|----------------|---------------------------------------------------------------|
| &EAA                  |                                    |                                   |                | Verwaltungstechnische Dokumente<br>Administrative documents   |
|                       |                                    |                                   |                |                                                               |
|                       |                                    |                                   | 1              | Titel- / Deckblatt<br>Title page / cover sheet                |
|                       |                                    |                                   | 2              | Revisionsbeschreibung<br>Revision description                 |
|                       |                                    |                                   | 3              | Strukturkennzeichenübersicht<br>Structure identifier overview |
| &EAB                  |                                    |                                   |                | Inhaltsverzeichnis<br>Table of contents                       |
|                       |                                    |                                   |                |                                                               |
|                       |                                    |                                   | 1              | Inhaltsverzeichnis<br>Table of contents                       |
|                       |                                    |                                   | 2              | Inhaltsverzeichnis<br>Table of contents                       |
|                       |                                    |                                   | 3              | Inhaltsverzeichnis<br>Table of contents                       |
| &ETB                  |                                    |                                   |                | Schaltschrankaufbau<br>Control cabinet layout                 |
|                       | =MA1                               |                                   |                | Maschine 1<br>Machine 1                                       |
|                       | +SS1                               |                                   | 1              | Montageplatte<br>Mounting panel                               |
|                       | +SS1                               |                                   | 2              | Tür außen<br>Door outside                                     |
|                       | +SS1                               |                                   | 3              | Tür innen<br>Door inside                                      |
|                       | +SS1                               |                                   | 4              | Boden außen<br>Bottom outside                                 |
|                       | +SS1                               |                                   | 5              | Seitenwand links außen<br>Side wall left outside              |
| &EPL                  |                                    |                                   |                | Feldgeräteplatzierung<br>Field device placement               |
|                       | =MA1                               |                                   |                | Maschine 1<br>Machine 1                                       |
|                       |                                    |                                   | 1              | Feldgeräteplatzierung<br>Field device placement               |
| &EFS                  |                                    |                                   |                | Schaltplan<br>Circuit diagram                                 |
|                       | =MA1                               |                                   |                | Maschine 1<br>Machine 1                                       |
|                       | +SS1                               |                                   | 1              | Einspeisung<br>Power supply                                   |
|                       | +SS1                               |                                   | 2              | Steuerspannung<br>Control voltage                             |
|                       | +SS1                               |                                   | 3              | Verteilung PE<br>Distribution PE                              |
|                       | +SS1                               |                                   | 4              | Phasenüberwachung (PÜ)<br>Phase monitoring (PÜ)               |
|                       | +SS1                               |                                   | 5              | Schaltschrankheizung (SH-S)<br>Control cabinet heating (SH-S) |

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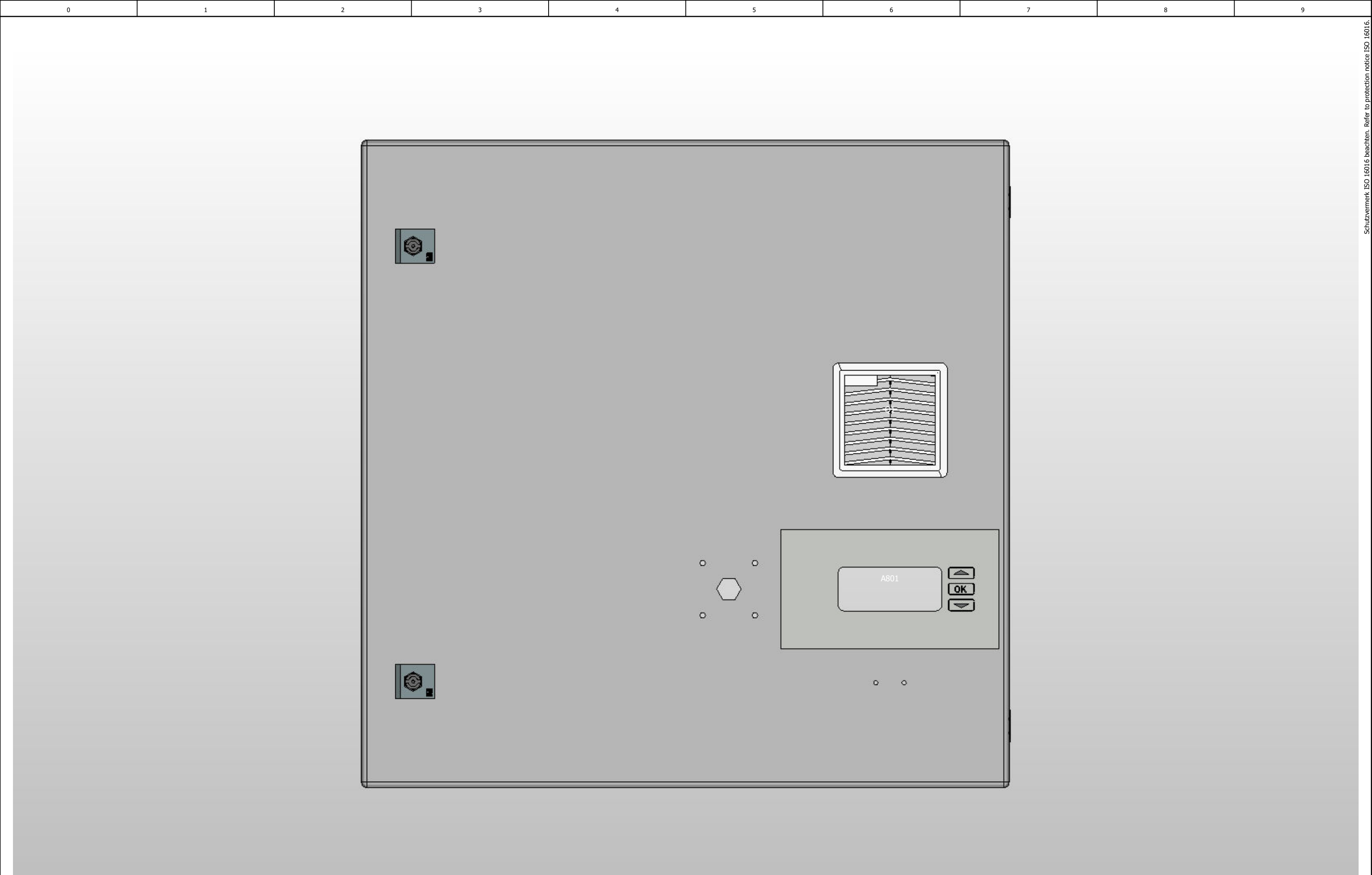
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|-----------------------|------------------------------------|-----------------------------------|----------------|----------------------------------------------------------|
| &EFS                  |                                    |                                   |                | Schaltplan<br>Circuit diagram                            |
|                       | =MA1                               |                                   |                | Maschine 1<br>Machine 1                                  |
|                       |                                    | +SS1                              | 6              | Tankheizung (TH)<br>Tank heater (TH)                     |
|                       |                                    | +SS1                              | 7              | Heißgas Bypass (HB)<br>Hot gas bypass (HB)               |
|                       |                                    | +SS1                              | 8              | Automatische Nachspeisung (AN)<br>Automatic feeding (AN) |
|                       |                                    | +SS1                              | 9              | Energiesparsystem (ESS)<br>Energy-saving system (ESS)    |
|                       |                                    | +SS1                              | 10             | Leitfähigkeit (LW)<br>Conductivity (LW)                  |
|                       |                                    | +SS1                              | 11             | Motorklappe (MK)<br>Motor flap (MK)                      |
|                       |                                    | +SS1                              | 12             | Pumpe 1 (P1-2)<br>Pump 1 (P1-2)                          |
|                       |                                    | +SS1                              | 13             | Pumpe 2 (P2-2)<br>Pump 2 (P2-2)                          |
|                       |                                    | +SS1                              | 14             | Verdichter (2xV-2)<br>Compressor (2xV-2)                 |
|                       |                                    | +SS1                              | 15             | Kondensatorlüfter<br>Condenser fan                       |
|                       |                                    | +SS1                              | 16             | Bedienpanel<br>Control panel                             |
|                       |                                    | +SS1                              | 17             | Steuerung Ub<br>Control Ub                               |
|                       |                                    | +SS1                              | 18             | Steuerung DO<br>Control DO                               |
|                       |                                    | +SS1                              | 19             | Steuerung AI<br>Control AI                               |
|                       |                                    | +SS1                              | 20             | Steuerung AO<br>Control AO                               |
|                       |                                    | +SS1                              | 21             | Interface<br>Interface                                   |
|                       |                                    | +SS1                              | 22             | Interface<br>Interface                                   |
|                       |                                    | +SS1                              | 23             | Steuerung Übersicht<br>Control overview                  |
|                       |                                    | +SS1                              | 24             | Steuerung Übersicht<br>Control overview                  |
| &EPC                  |                                    |                                   |                | Artikelstückliste<br>Parts list                          |
|                       | =MA1                               |                                   |                | Maschine 1<br>Machine 1                                  |
|                       |                                    |                                   | 1              | Artikelstückliste<br>Parts list                          |
|                       |                                    |                                   | 2              | Artikelstückliste<br>Parts list                          |
|                       |                                    |                                   | 3              | Artikelstückliste<br>Parts list                          |

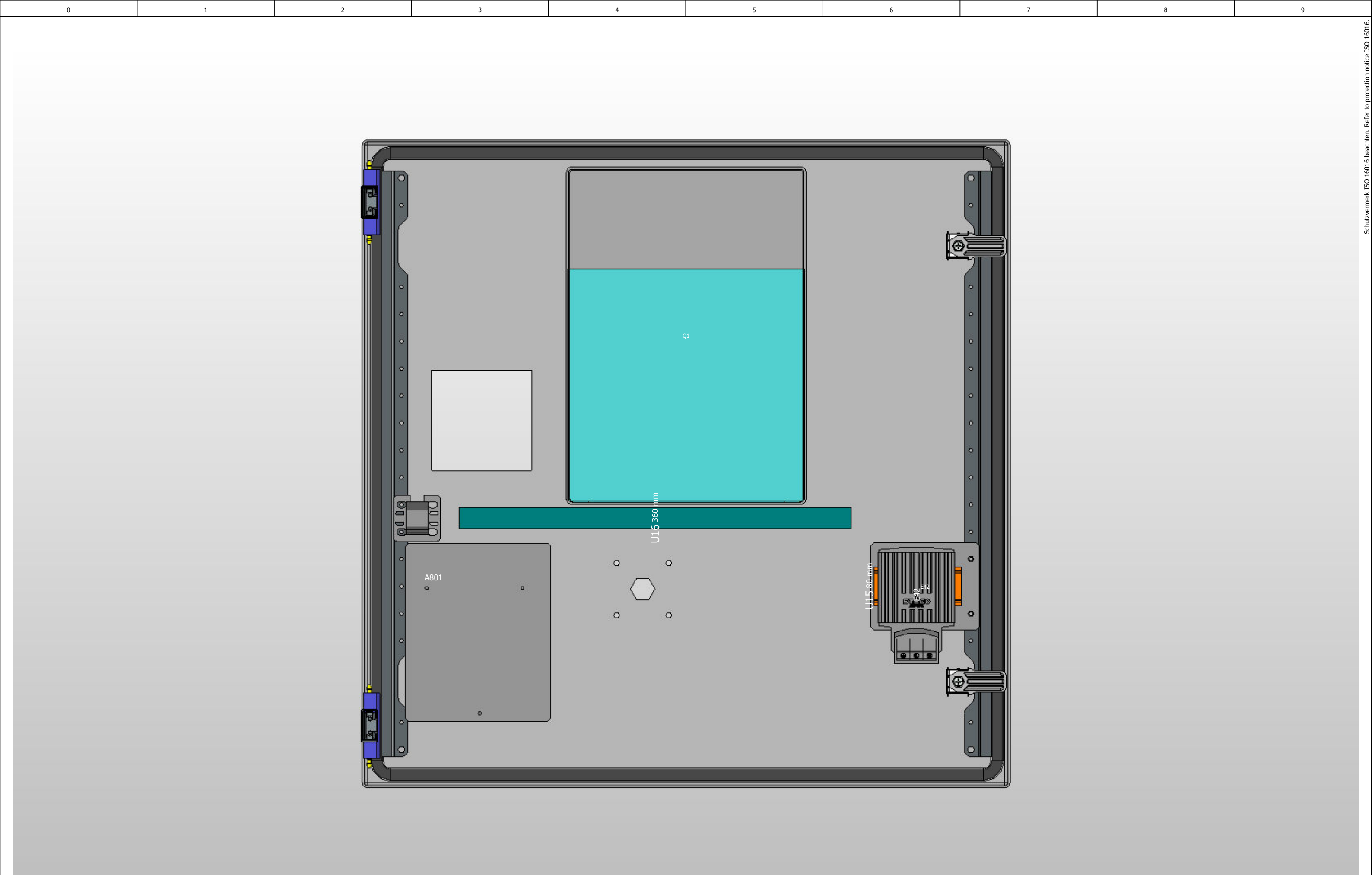
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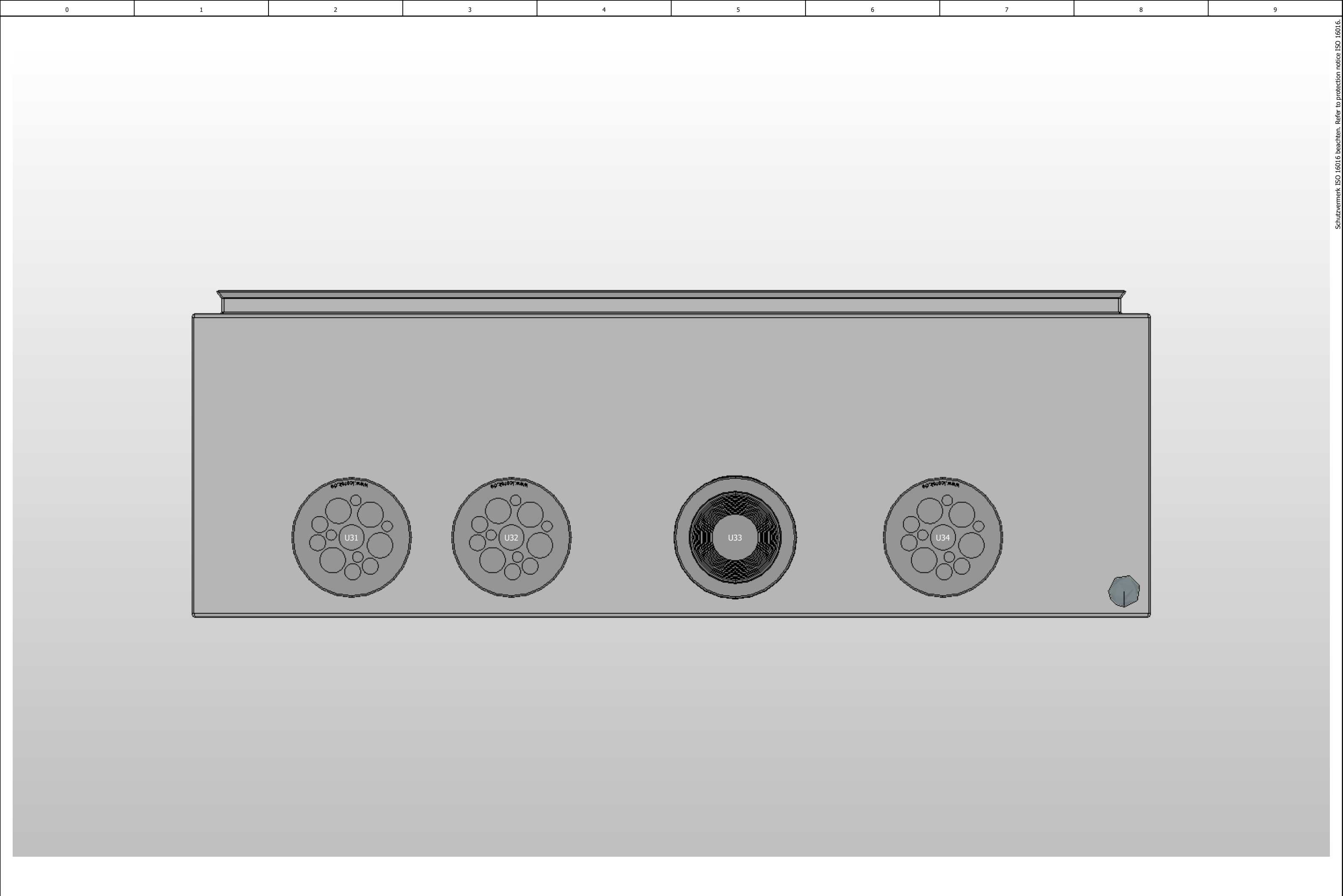
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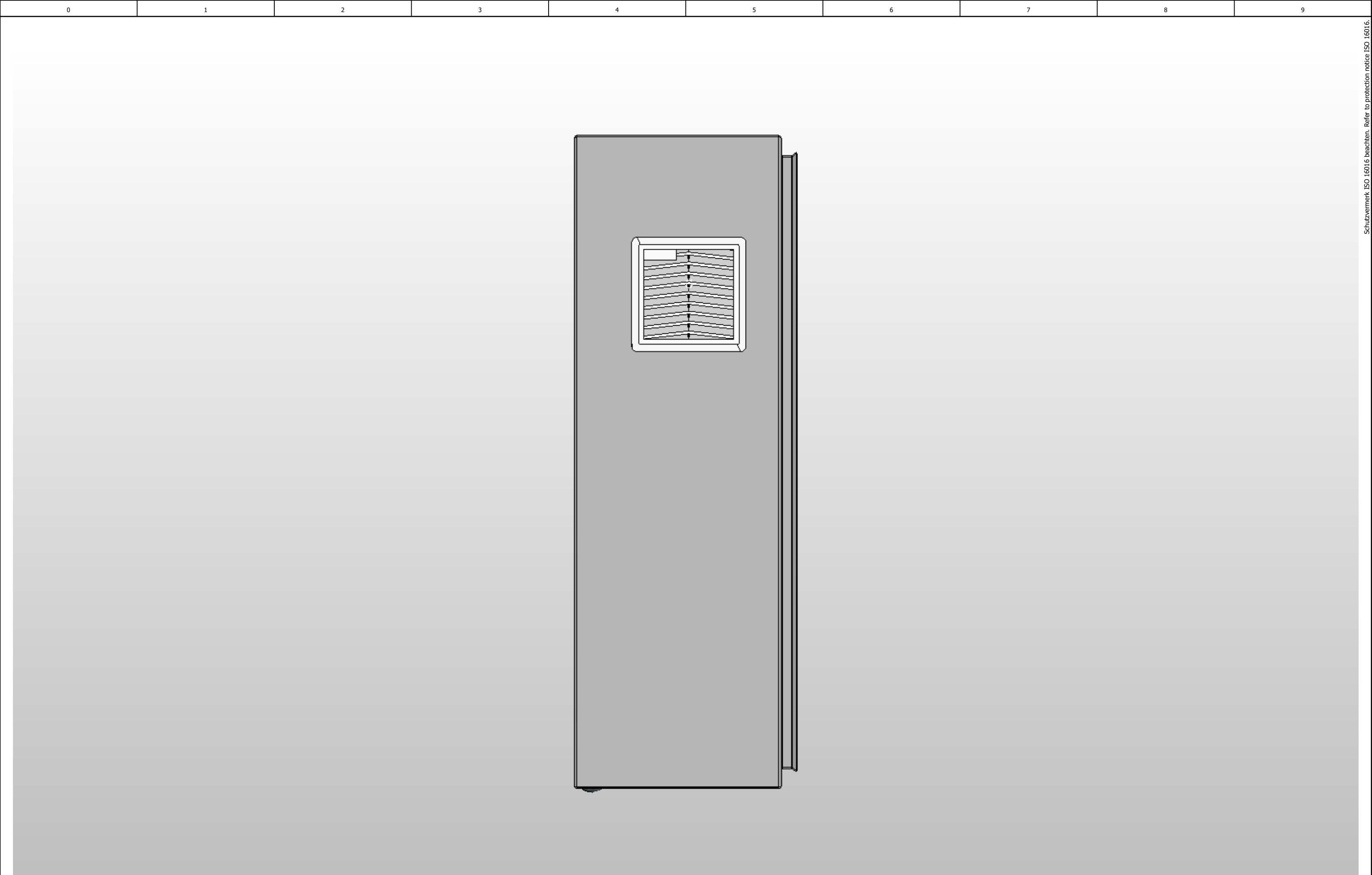
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|-----------------------|------------------------------------|-----------------------------------|----------------|----------------------------------------|
| &EMA                  |                                    |                                   |                | Klemmenplan<br>Terminal diagram        |
|                       | =MA1                               |                                   |                | Maschine 1<br>Machine 1                |
|                       |                                    |                                   | 1              | Klemmenplan<br>Terminal diagram        |
|                       |                                    |                                   | 2              | Klemmenplan<br>Terminal diagram        |
|                       |                                    |                                   | 3              | Klemmenplan<br>Terminal diagram        |
|                       |                                    |                                   | 4              | Klemmenplan<br>Terminal diagram        |
|                       |                                    |                                   | 5              | Klemmenplan<br>Terminal diagram        |
|                       |                                    |                                   | 6              | Klemmenplan<br>Terminal diagram        |
|                       |                                    |                                   | 7              | Klemmenplan<br>Terminal diagram        |
|                       |                                    |                                   | 8              | Klemmenplan<br>Terminal diagram        |
|                       |                                    |                                   | 9              | Klemmenplan<br>Terminal diagram        |
|                       |                                    |                                   | 10             | Klemmenplan<br>Terminal diagram        |
|                       |                                    |                                   | 11             | Klemmenplan<br>Terminal diagram        |
|                       |                                    |                                   | 12             | Klemmenplan<br>Terminal diagram        |
| &EMB                  |                                    |                                   |                | Kabelübersicht<br>Cable overview       |
|                       | =MA1                               |                                   |                | Maschine 1<br>Machine 1                |
|                       |                                    |                                   | 1              | Kabelübersicht<br>Cable overview       |
| &EMZ                  |                                    |                                   |                | Kabelplan<br>Cable diagram             |
|                       | =MA1                               |                                   |                | Maschine 1<br>Machine 1                |
|                       |                                    |                                   | 1              | Kabelplan<br>Cable diagram             |
|                       |                                    |                                   | 2              | Kabelplan<br>Cable diagram             |
| &EPA                  |                                    |                                   |                | Zuschnittsliste<br>Cutting list        |
|                       | =MA1                               |                                   |                | Maschine 1<br>Machine 1                |
|                       |                                    |                                   | 1              | Zuschnittsliste<br>Cutting list        |











Feldgeräteplatzierung

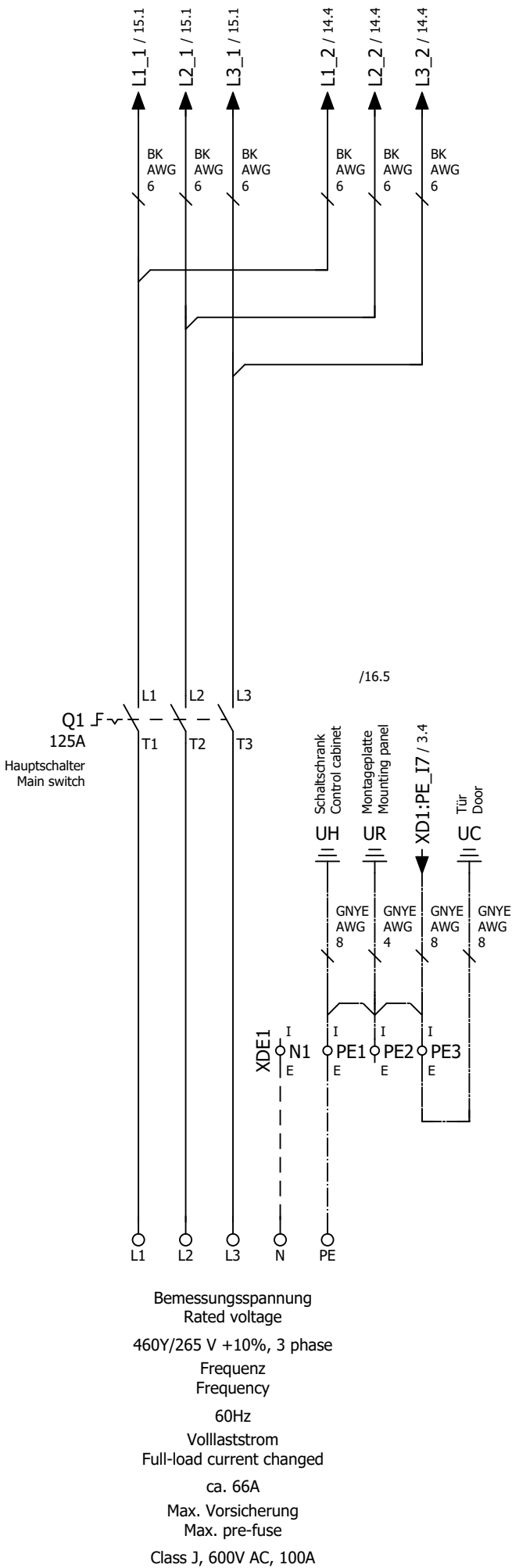
Field device placement

| Betriebsmittelkennzeichen<br>Device tag | Platzierung<br>Placement |
|-----------------------------------------|--------------------------|
| +MR1-B201                               | &EFS=MA1+SS1/12          |
| +MR1-B402                               | &EFS=MA1+SS1/19          |
| +MR1-B403                               | &EFS=MA1+SS1/19          |
| +MR1-B451                               | &EFS=MA1+SS1/18          |
| +MR1-B452                               | &EFS=MA1+SS1/19          |
| +MR1-B453                               | &EFS=MA1+SS1/19          |
| +MR1-B454                               | &EFS=MA1+SS1/19          |
| +MR1-E251                               | &EFS=MA1+SS1/2           |
| +MR1-E252                               | &EFS=MA1+SS1/2           |
| +MR1-M101                               | &EFS=MA1+SS1/15          |
| +MR1-M102                               | &EFS=MA1+SS1/15          |
| +MR1-M151                               | &EFS=MA1+SS1/14          |
| +MR1-M152                               | &EFS=MA1+SS1/14          |
| +MR1-M201                               | &EFS=MA1+SS1/12          |
| +MR1-M202                               | &EFS=MA1+SS1/13          |
| +MR1-M352                               | &EFS=MA1+SS1/7           |
| +MR1-M354                               | &EFS=MA1+SS1/20          |

| Betriebsmittelkennzeichen<br>Device tag | Platzierung<br>Placement |
|-----------------------------------------|--------------------------|
|-----------------------------------------|--------------------------|

| Betriebsmittelkennzeichen<br>Device tag | Platzierung<br>Placement |
|-----------------------------------------|--------------------------|
|-----------------------------------------|--------------------------|

| Betriebsmittelkennzeichen<br>Device tag | Platzierung<br>Placement |
|-----------------------------------------|--------------------------|
|-----------------------------------------|--------------------------|



Sammelschienensysteme  
Busbars

Klemmenleistendefinitionen  
Terminal strip definitions

Reserveklemmen  
Reserve terminals

XDE1 = Einspeisung  
Power supply

XDS1 = Steuerspannungsverteilung  
Control voltage distribution

XD1 = Verteilung PE  
Distribution PE

XD2 = Steuerkreis  
Control circuit

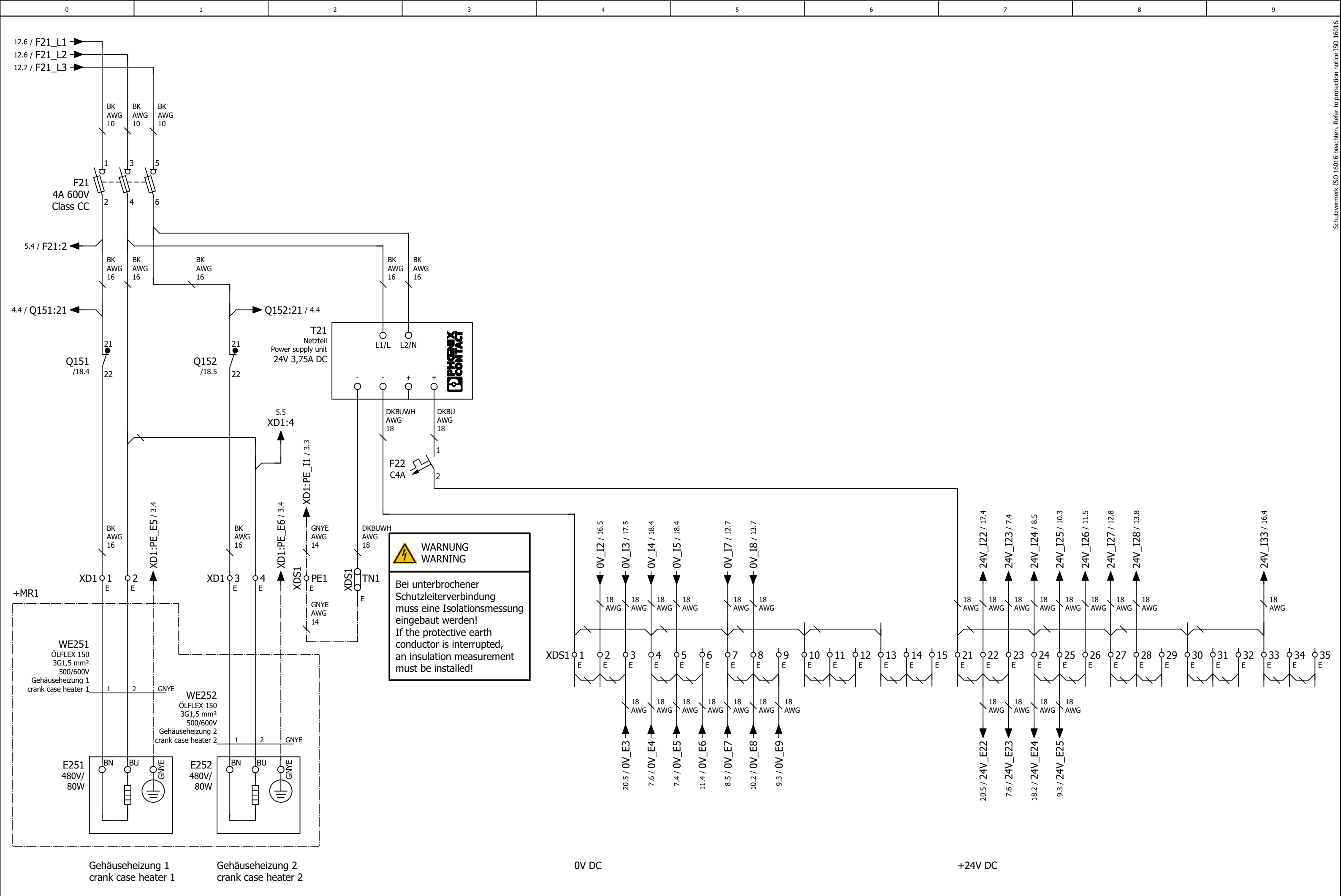
XD3 = Interface

XD4 = Fernbedienung  
Remote control

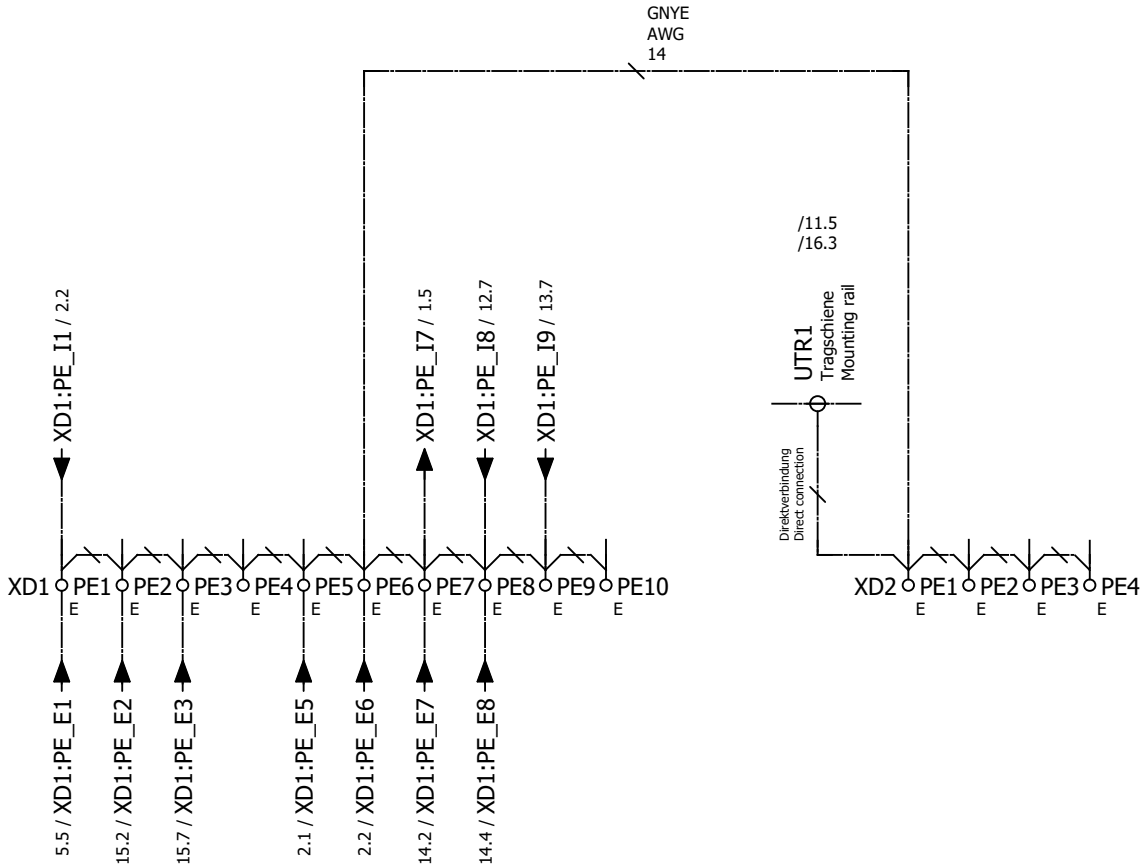
XD5 = Motorklappe  
Motor flap

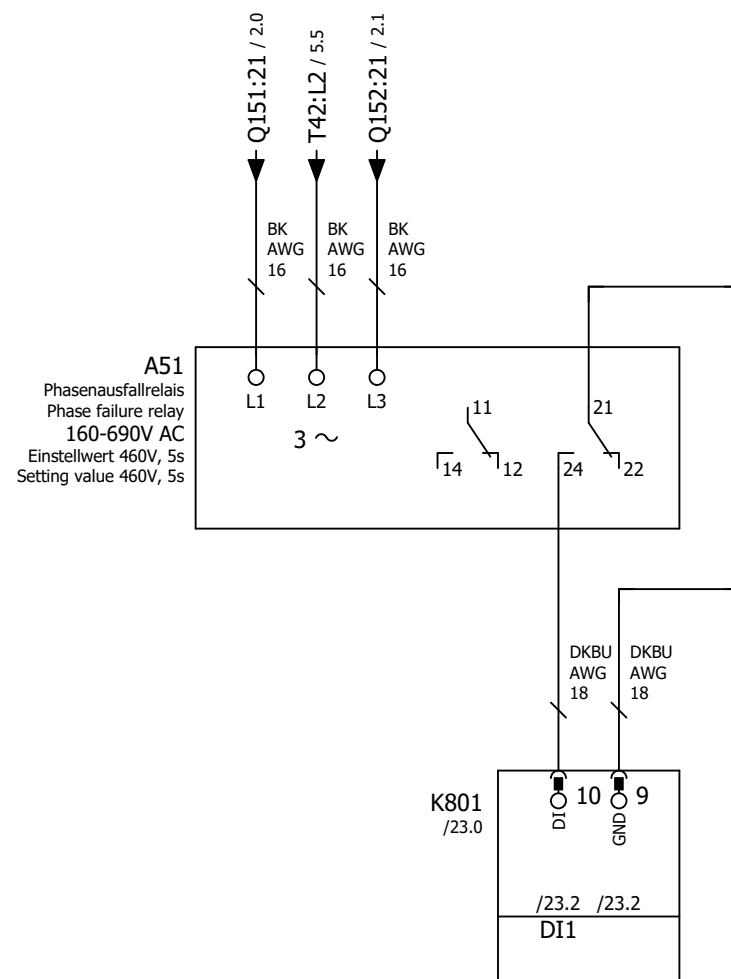
XD2 ♂ 39 ♂ 40  
E E

XD2 ♂ 77 ♂ 78 ♂ 79 ♂ 80  
E E E E



|                         |            |                        |     |                                                      |                                  |                        |                                        |             |         |
|-------------------------|------------|------------------------|-----|------------------------------------------------------|----------------------------------|------------------------|----------------------------------------|-------------|---------|
| Ersteller Creator       | MAP        | Geprüft von Checked by | MAP | KKT chillers<br>a brand of<br>ait - deutschland GmbH | Stromlaufplan<br>Circuit diagram | Artikelnr. Article no. | 6186220X                               | &EFS        |         |
| Erstellt am Created on  | 22.06.2020 |                        |     |                                                      |                                  | Revision Revision      | Kd                                     | =MA1        | +SS1    |
| Geändert von Changed by | MAP        |                        |     |                                                      |                                  | Dok. Nr. Doc. no.      | 81707601.Kd                            | Blatt Sheet | 2       |
| Geändert am Changed on  | 22.06.2020 |                        |     |                                                      |                                  | Code                   | GB-1.2S/P1-2/P2-2/2xV-2/SH-S/PÜ/HB/UL/ | Seite Page  | 14 / 55 |

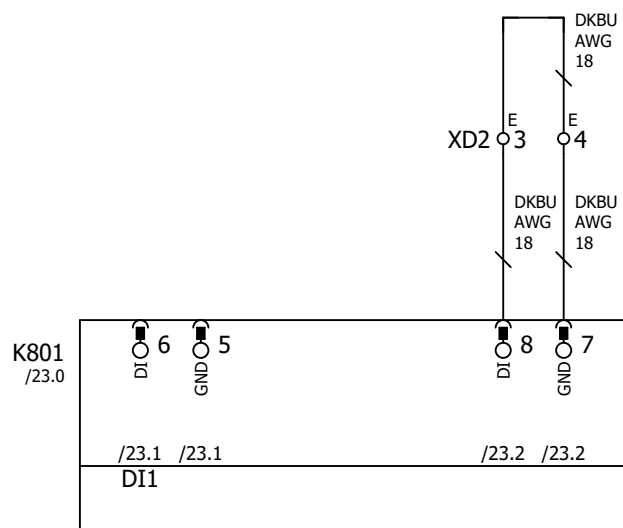


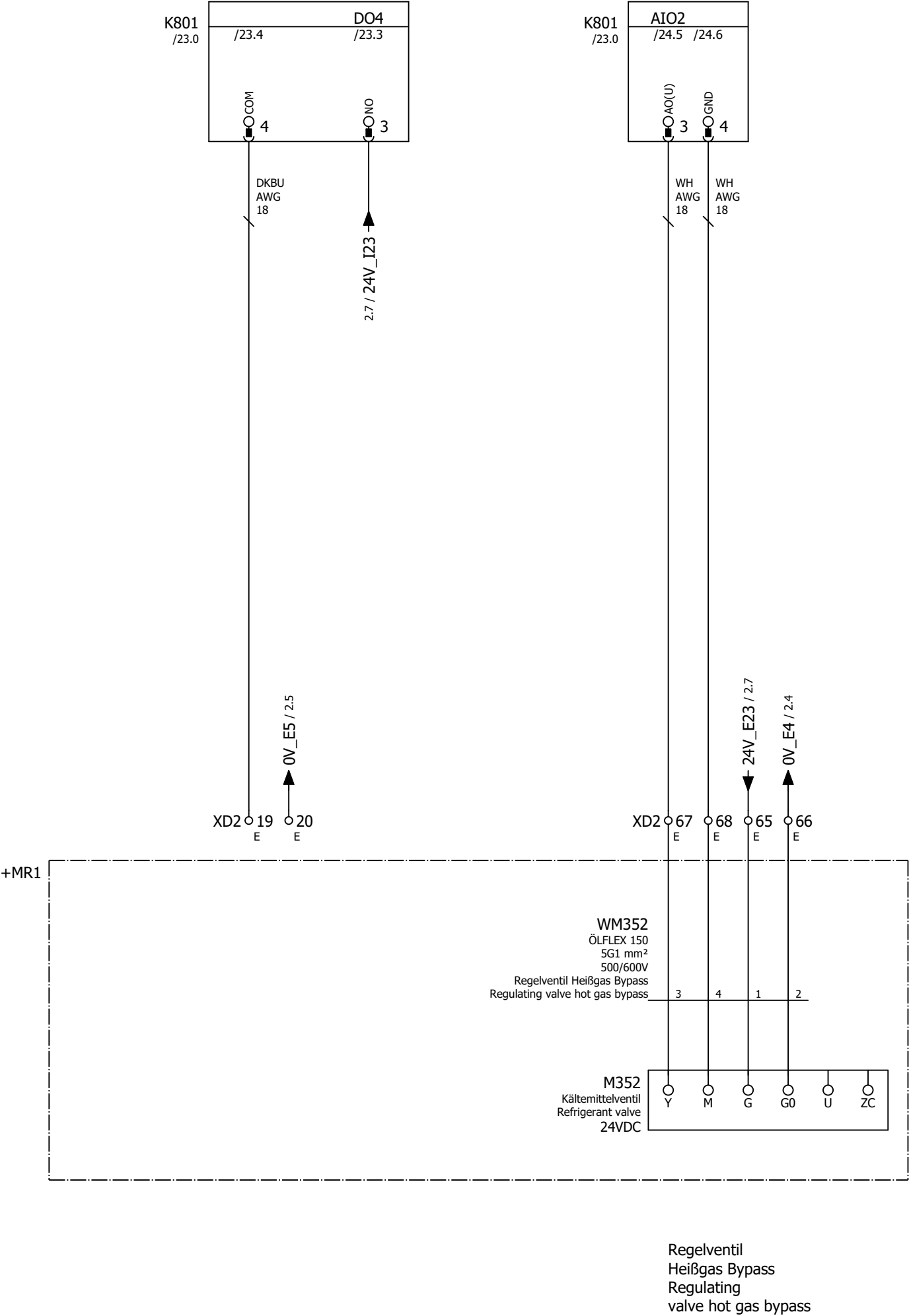


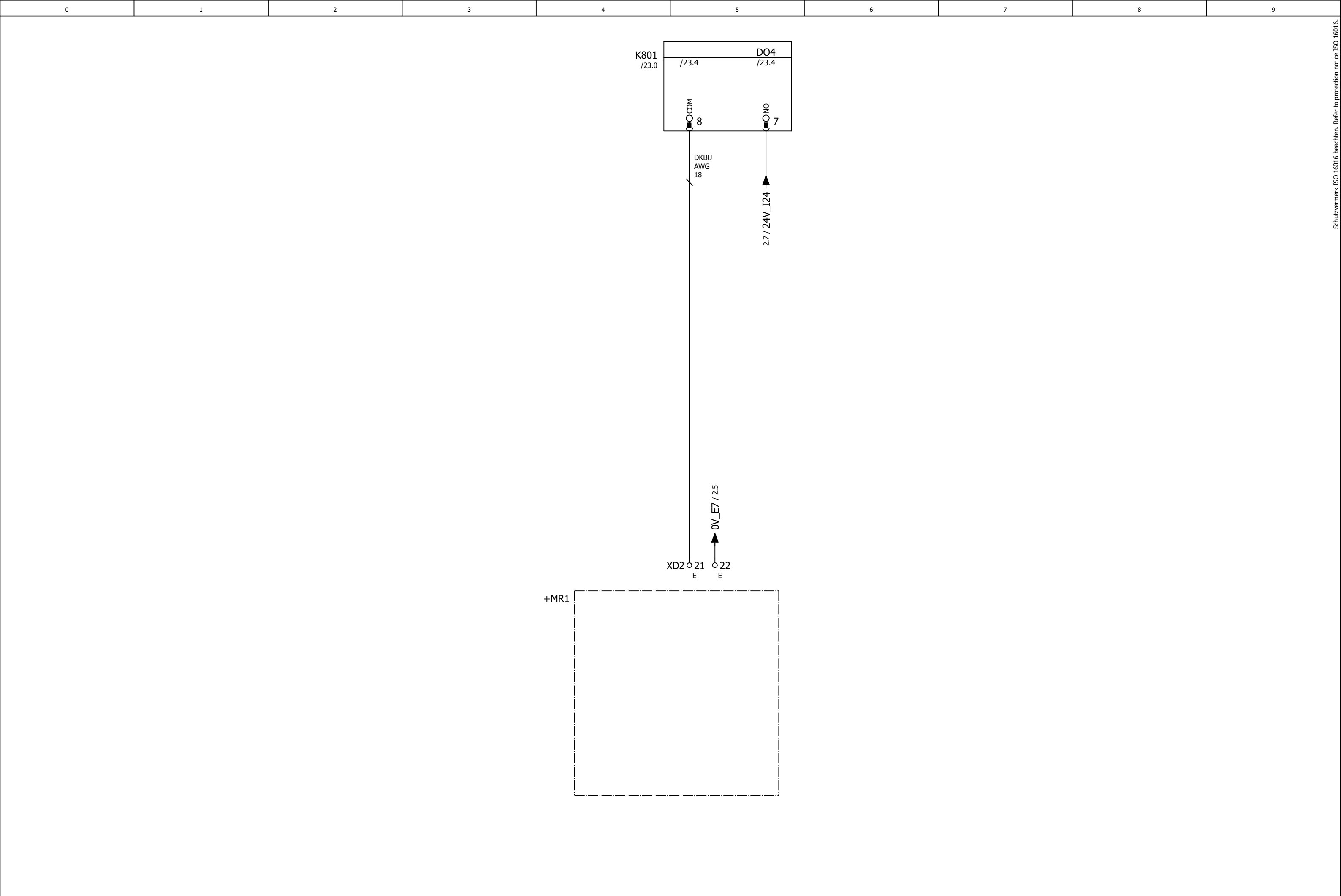
## Phasenüberwachung Phase monitoring

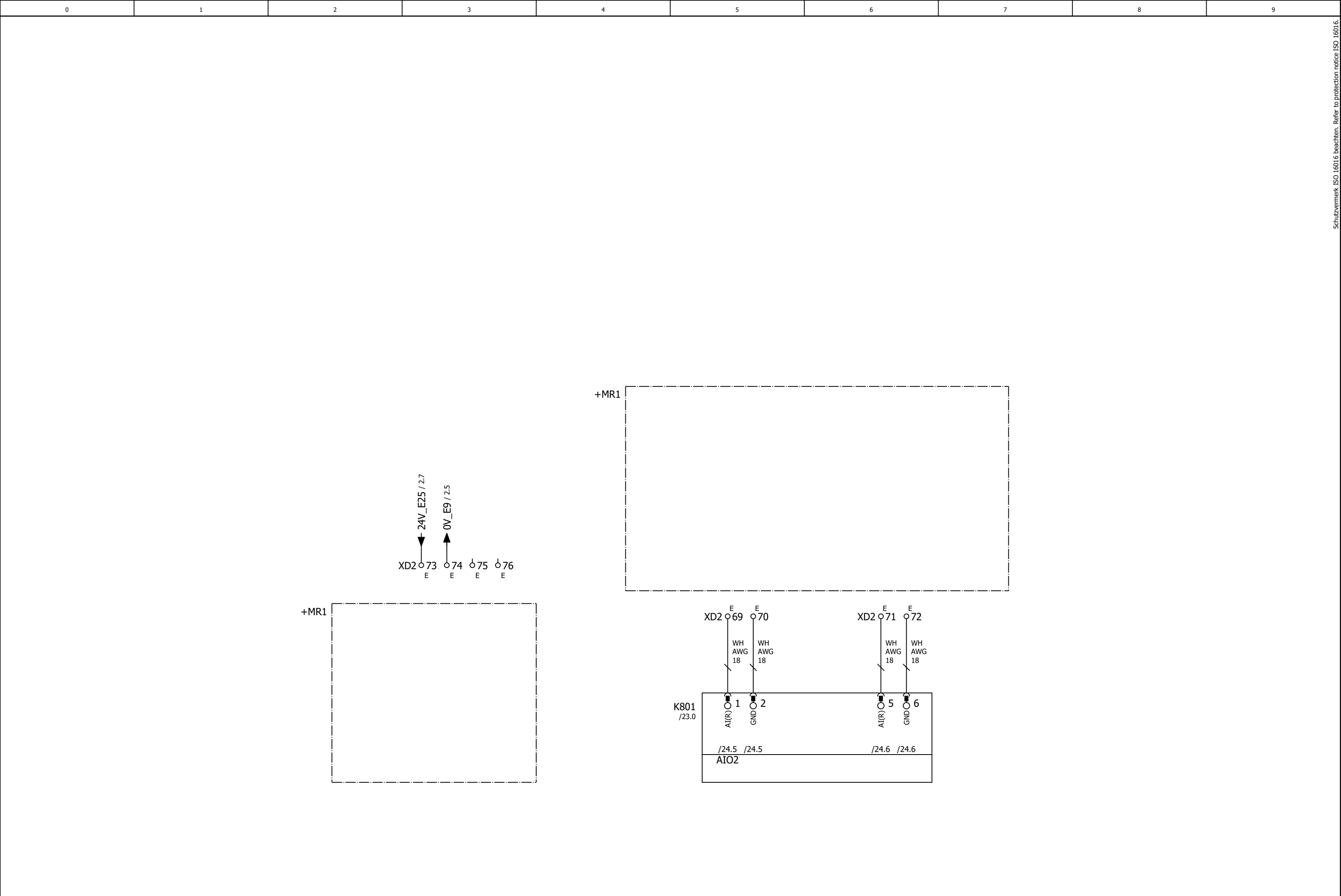
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|-------------------------|------------|------------------------|-----|---------------------------------------------------|---------------------------------------------------------------------------------------|-------------------------------------------------|------------------------|----------------------------------------|------|--------------------|--|
| Ersteller Creator       | MAP        | Geprüft von Checked by | MAP | KKT chillers a brand of<br>ait - deutschland GmbH |  | Stromlaufplan<br>Circuit diagram                | Artikelnr. Article no. | 6186220X                               |      | &EFS               |  |
| Erstellt am Created on  | 22.06.2020 |                        |     |                                                   |                                                                                       | Revision Revision                               | Kd                     | =MA1                                   | +SS1 |                    |  |
| Geändert von Changed by | MAP        |                        |     |                                                   |                                                                                       | Phasenüberwachung (PÜ)<br>Phase monitoring (PÜ) | Dok. Nr. Doc. no.      | 81707601.Kd                            |      | Blatt Sheet 4      |  |
| Geändert am Changed on  | 22.06.2020 |                        |     |                                                   |                                                                                       |                                                 | Code                   | GB-1.2S/P1-2/P2-2/2xV-2/SH-S/PÜ/HB/UL/ |      | Seite Page 16 / 55 |  |

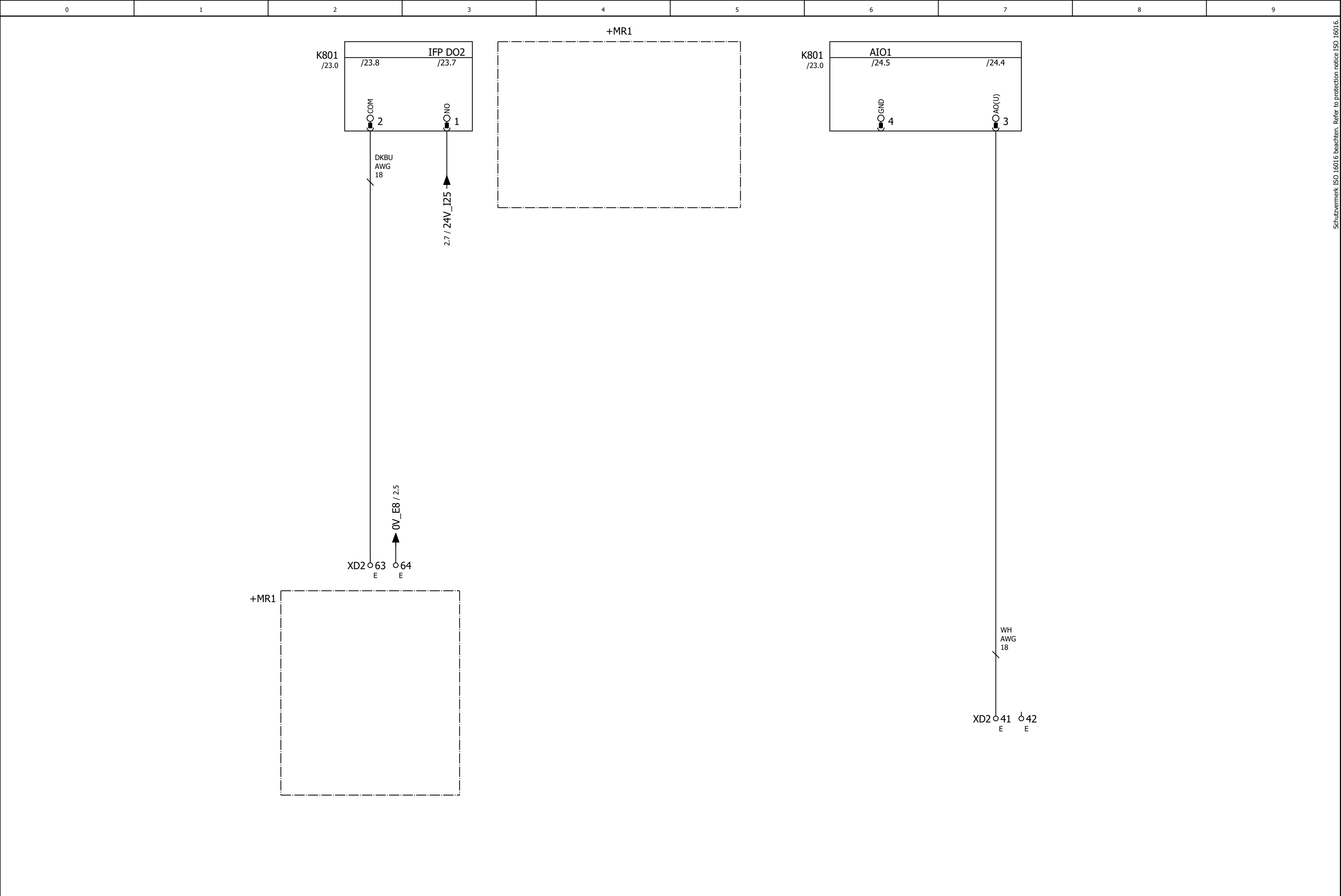


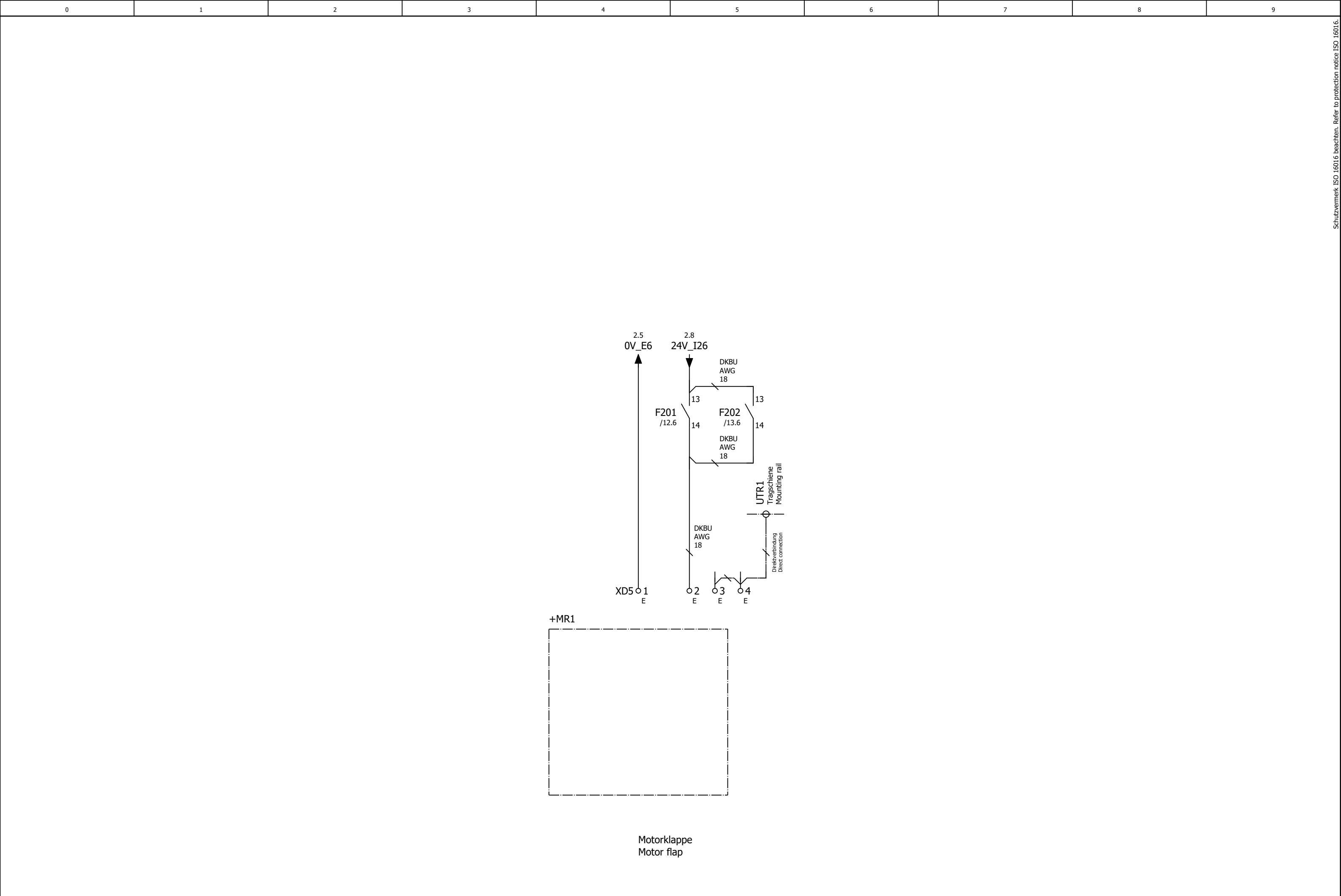


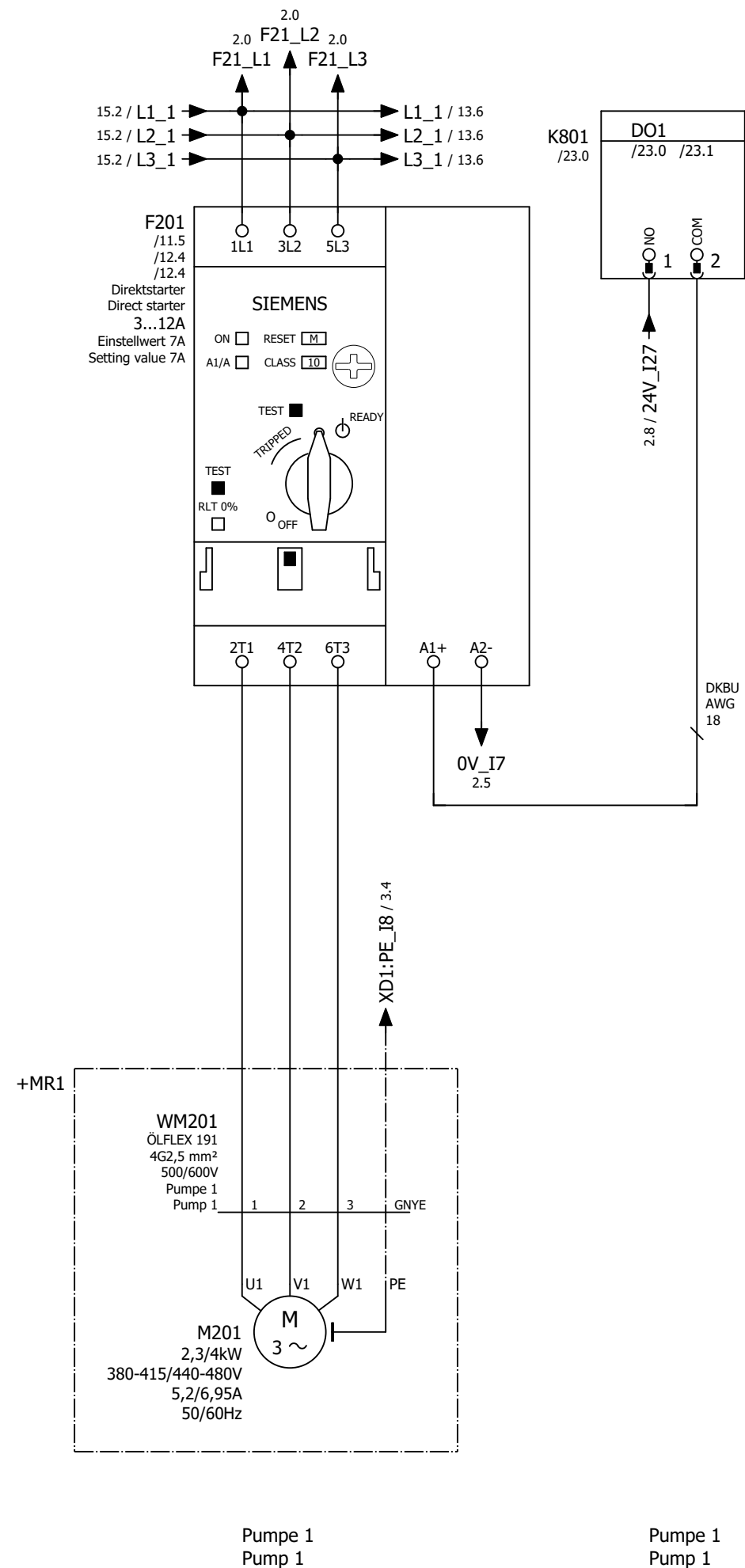
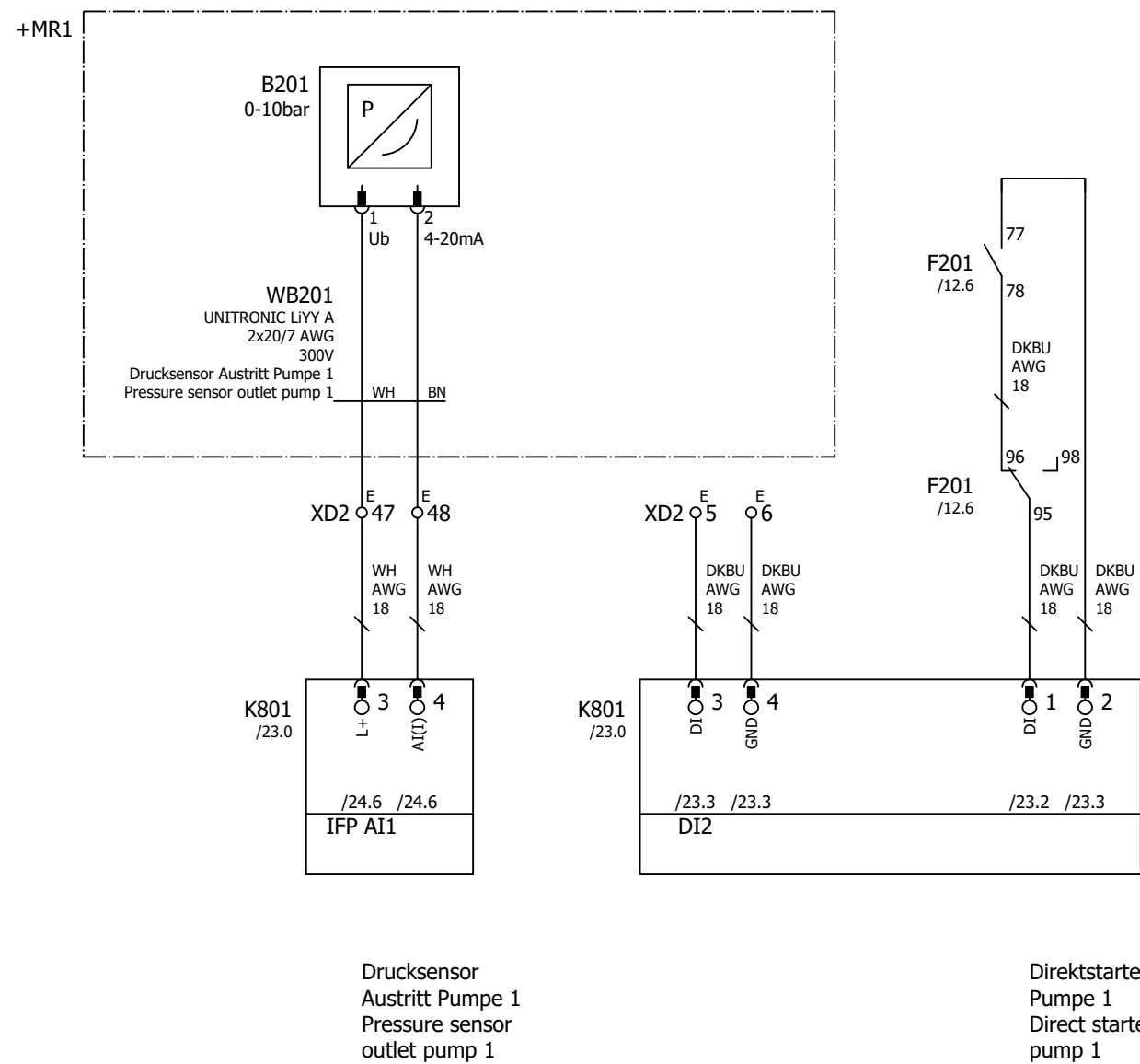




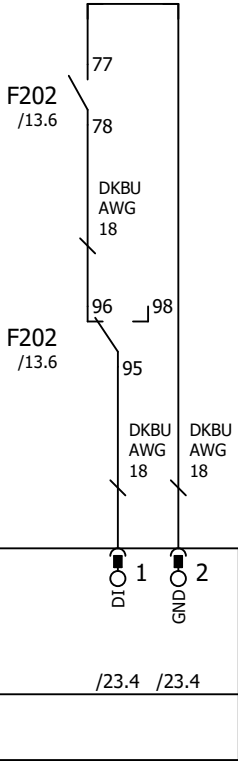
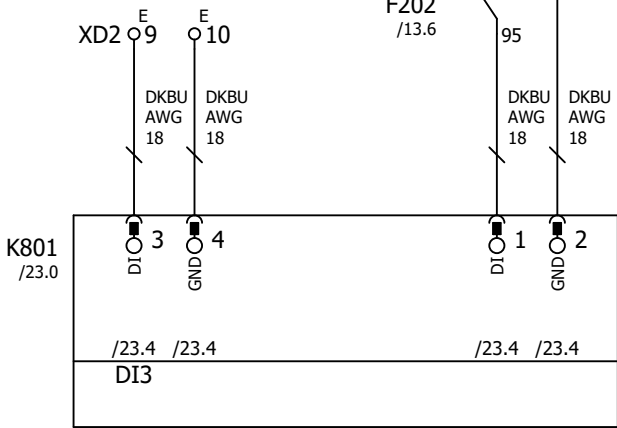
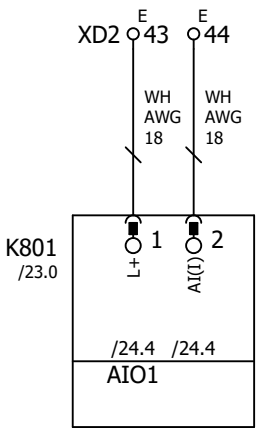




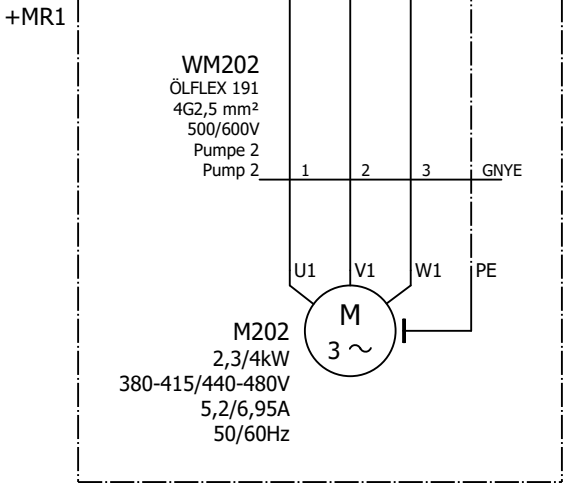
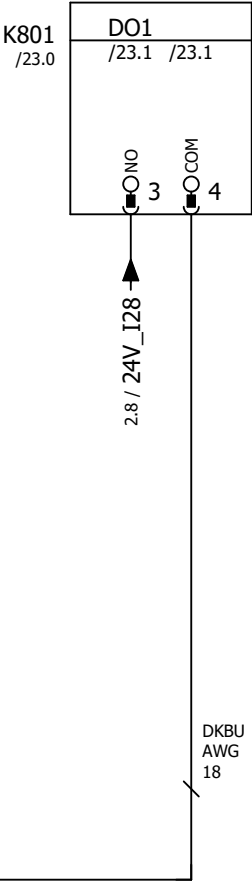
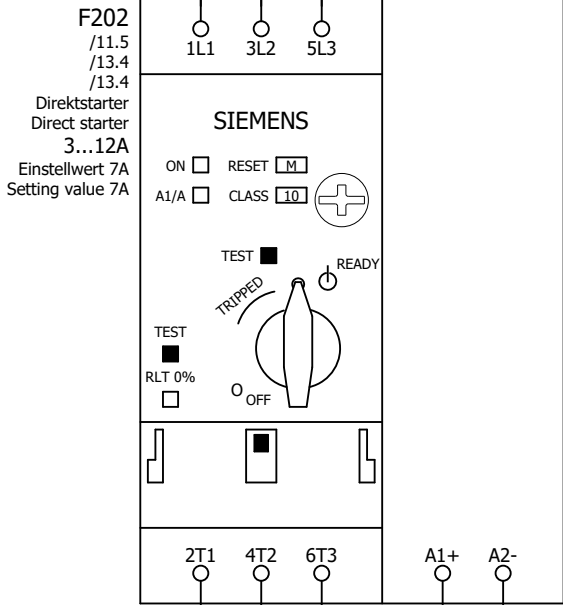
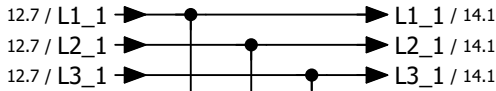




+MR1

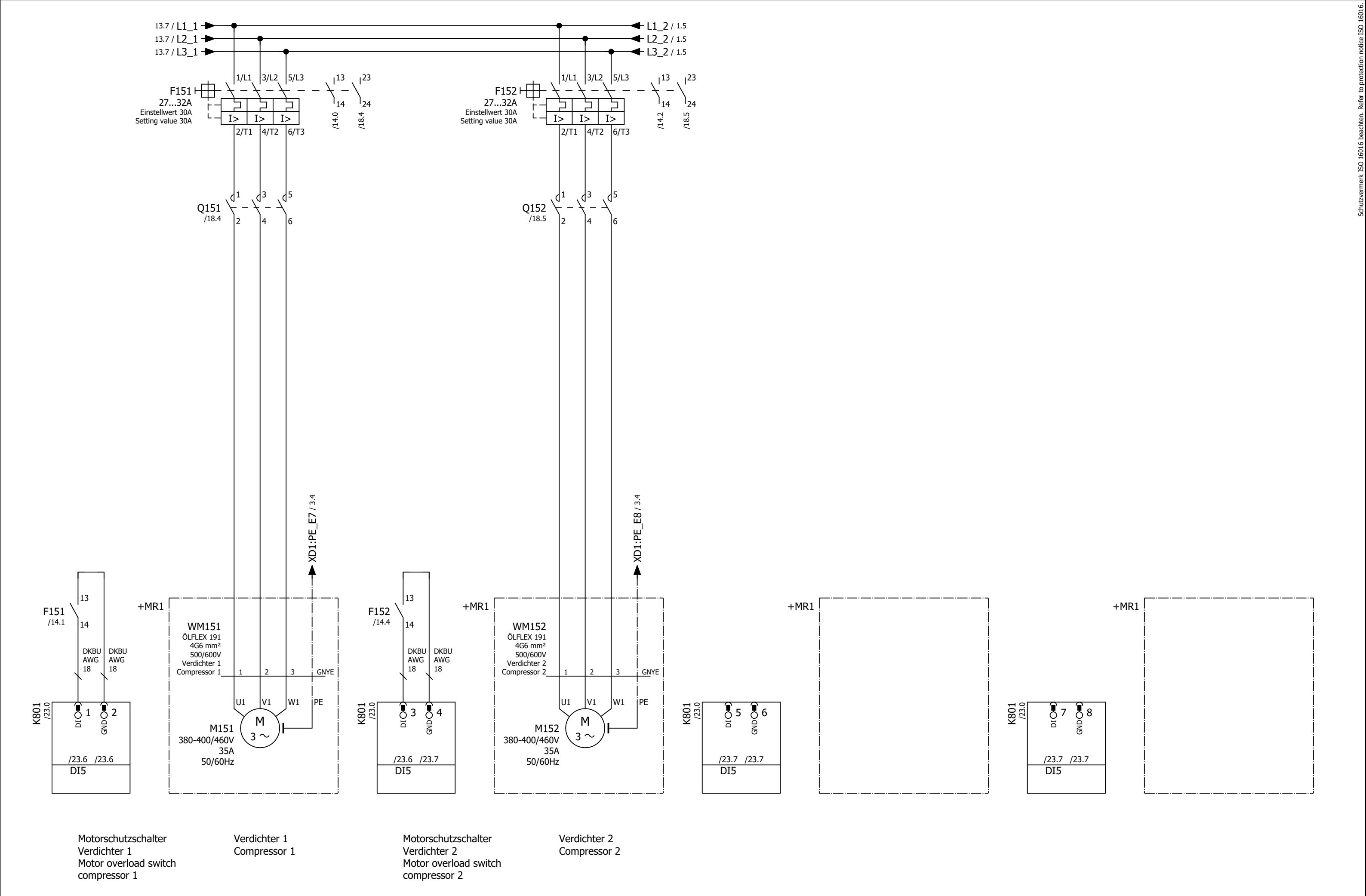


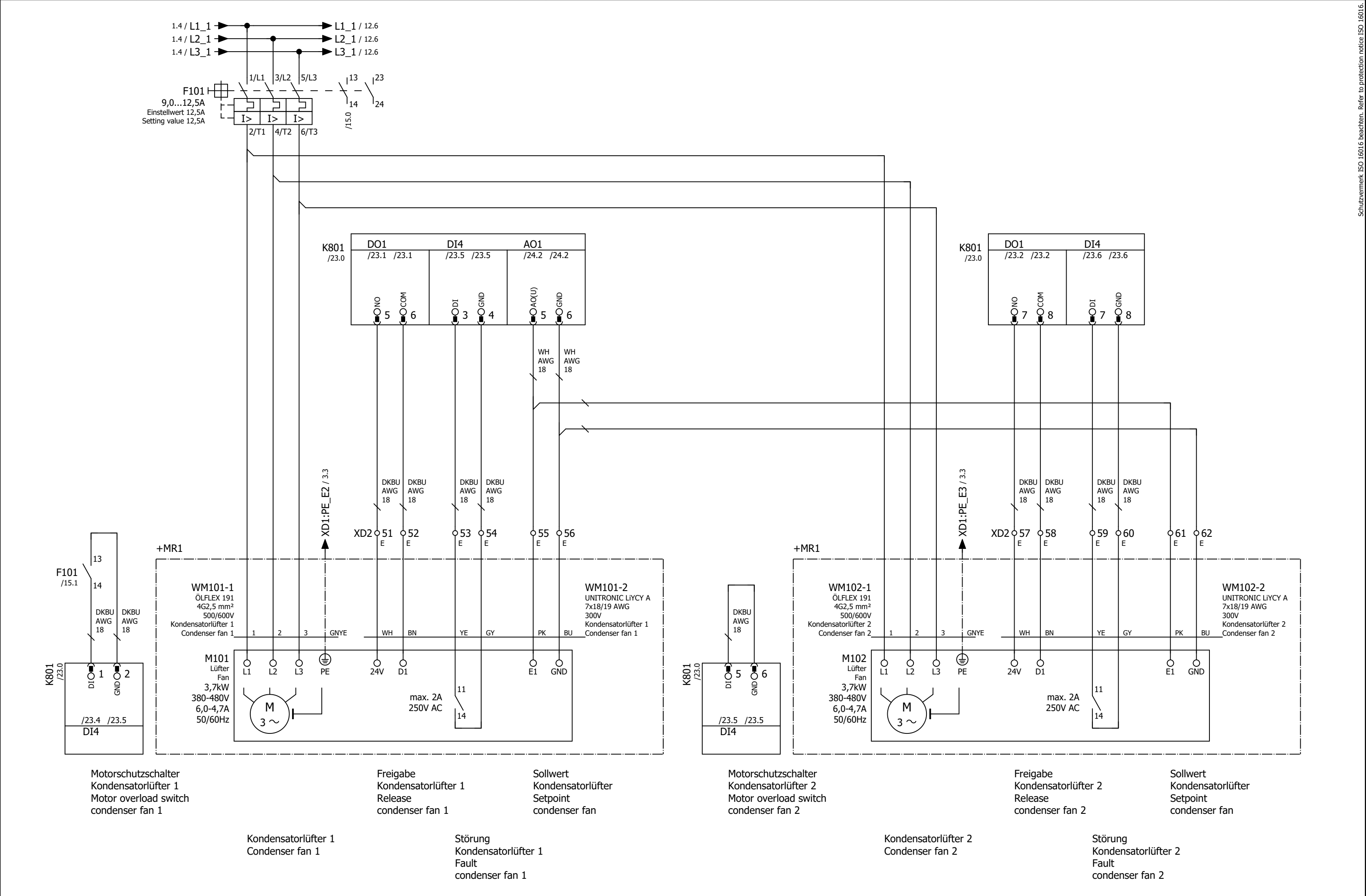
Direktstarter  
Pumpe 2  
Direct starter  
pump 2

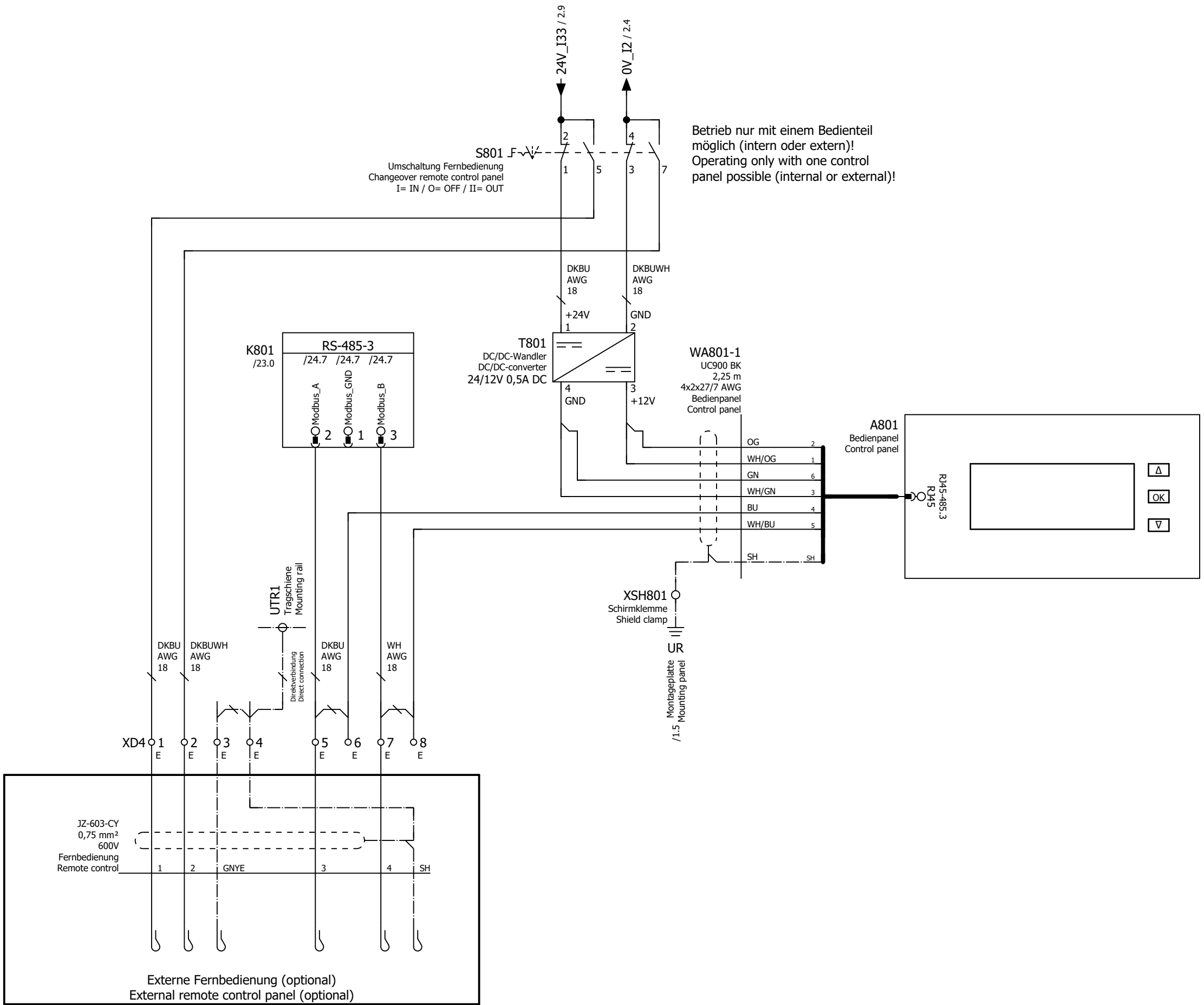


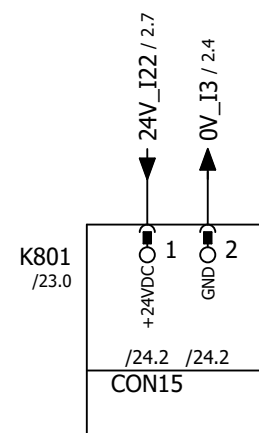
Pumpe 2  
Pump 2

Pumpe 2  
Pump 2





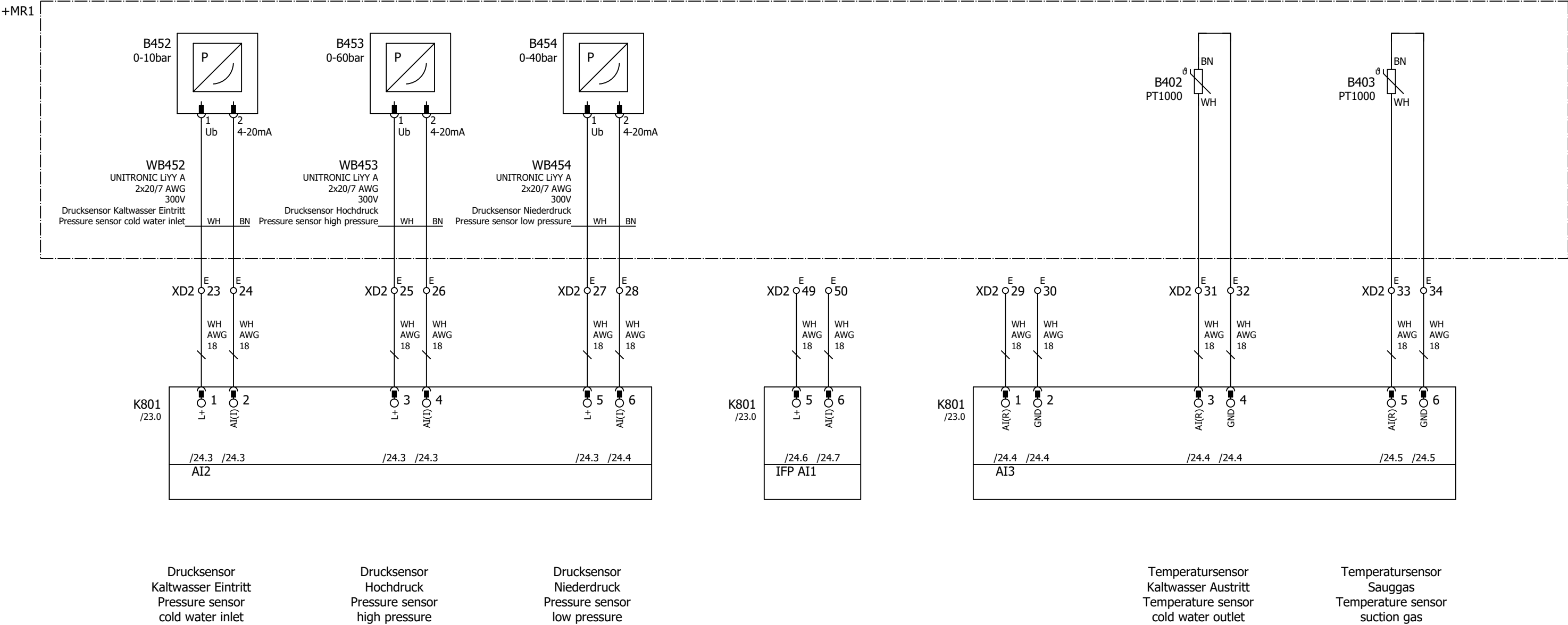


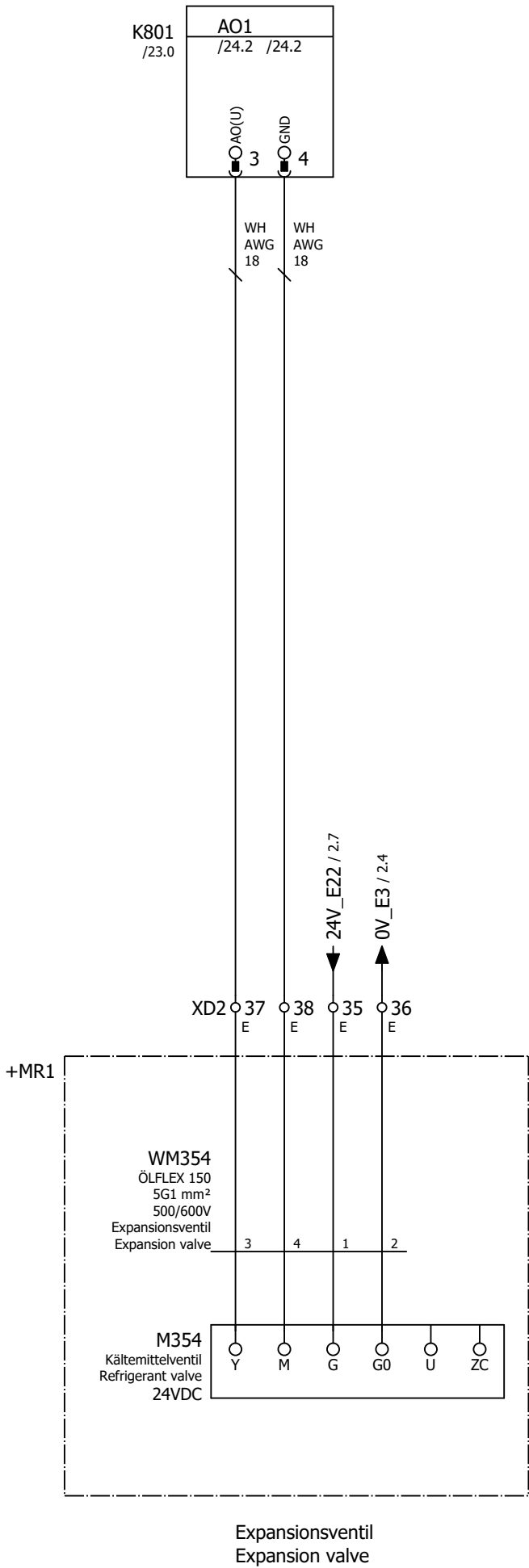


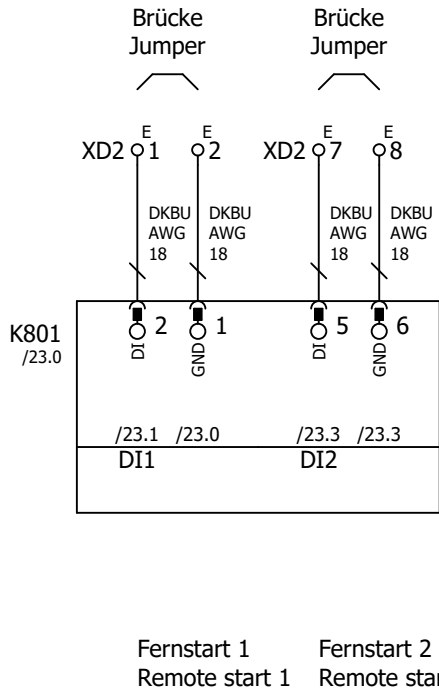
Spannungsversorgung  
Power supply

|                         |            |                        |     |                                                   |                                                                                       |                                  |                        |                                        |      |                    |  |
|-------------------------|------------|------------------------|-----|---------------------------------------------------|---------------------------------------------------------------------------------------|----------------------------------|------------------------|----------------------------------------|------|--------------------|--|
| Ersteller Creator       | MAP        | Geprüft von Checked by | MAP | KKT chillers a brand of<br>ait - deutschland GmbH |  | Stromlaufplan<br>Circuit diagram | Artikelnr. Article no. | 6186220X                               |      | &EFS               |  |
| Erstellt am Created on  | 22.06.2020 |                        |     |                                                   |                                                                                       | Revision Revision                | Kd                     | =MA1                                   | +SS1 |                    |  |
| Geändert von Changed by | MAP        |                        |     |                                                   |                                                                                       | Steuerung Ub<br>Control Ub       | Dok. Nr. Doc. no.      | 81707601.Kd                            |      | Blatt Sheet 17     |  |
| Geändert am Changed on  | 22.06.2020 |                        |     |                                                   |                                                                                       |                                  | Code                   | GB-1.2S/P1-2/P2-2/2xV-2/SH-S/PÜ/HB/UL/ |      | Seite Page 29 / 55 |  |







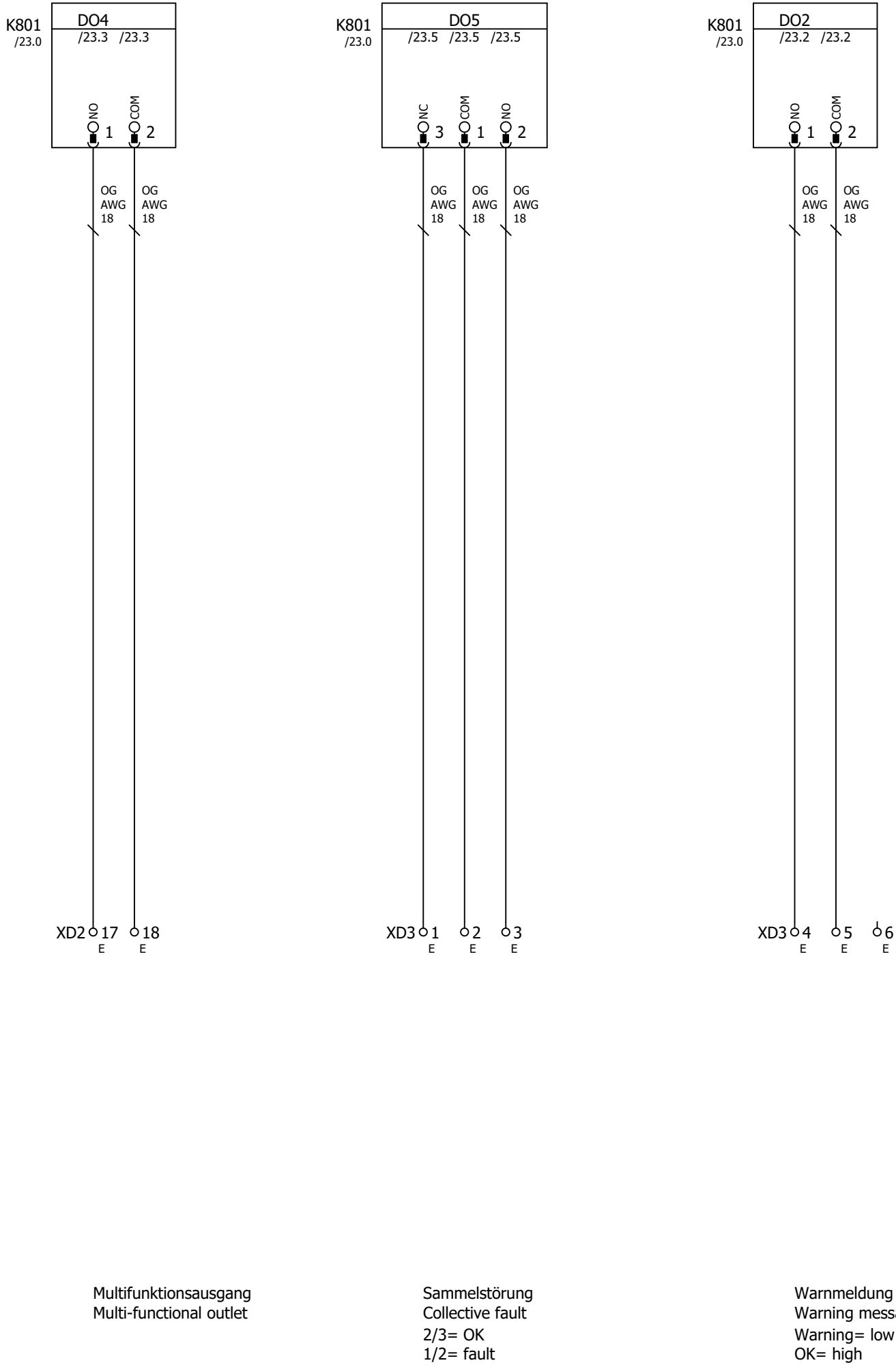


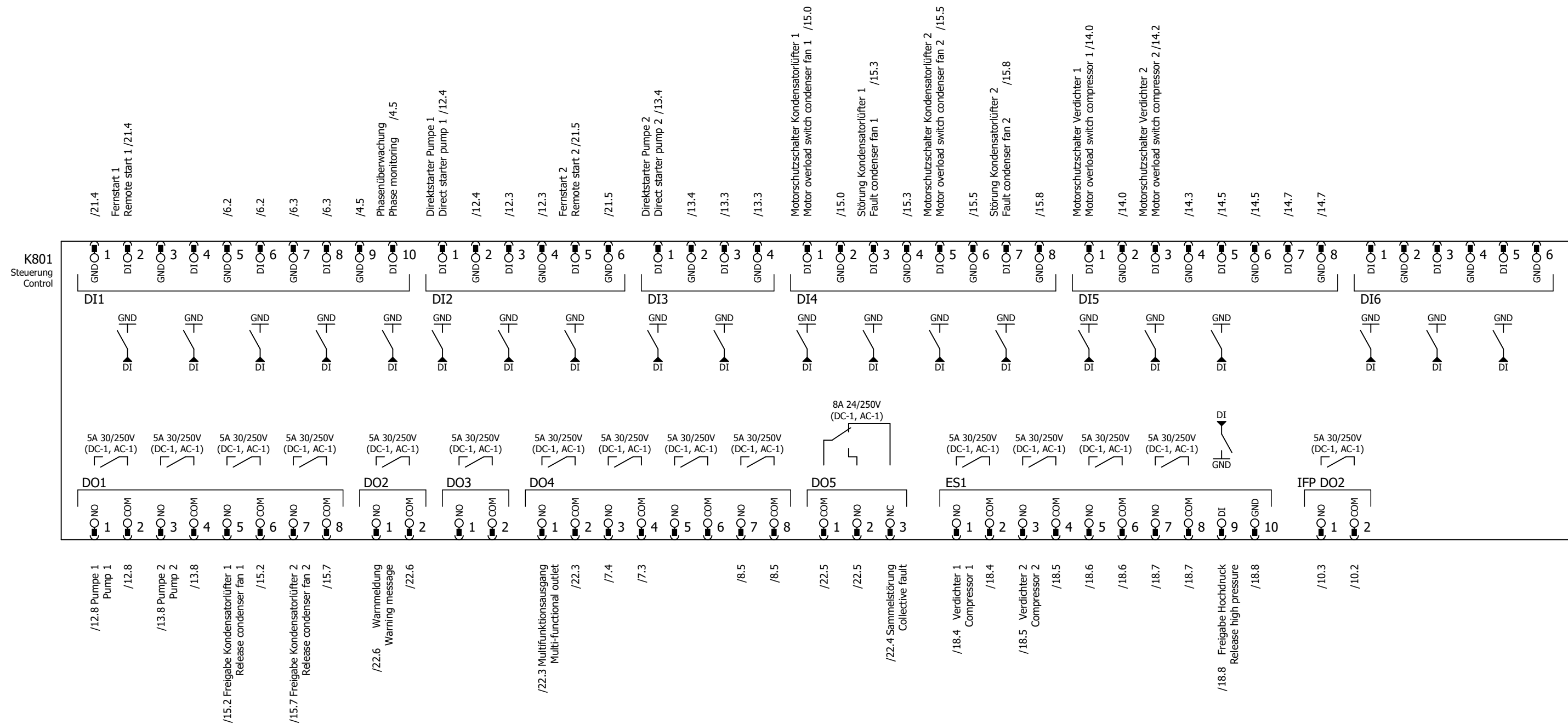
Fernstart 1

Remote start 1

Fernstart 2

Remote start 2







0123456789

Artikelstückliste

Parts list

| Betriebsmittelkennzeichen<br>Device tag<br><br>Platzierung<br>Placement | SAP Nummer<br>SAP number | Menge<br>Quantity<br>ME | Bezeichnung<br>Designation                          | Technische Kenngröße<br>Technical characteristic<br>Bestellnummer<br>Order number | Hersteller<br>Manufacturer     | UL- / CSA-File  |
|-------------------------------------------------------------------------|--------------------------|-------------------------|-----------------------------------------------------|-----------------------------------------------------------------------------------|--------------------------------|-----------------|
| +SS1                                                                    | 61761801                 | 1                       | Schaltschrank<br>Control cabinet                    | 600x600x210 mm RAL7035<br>AE Y092990                                              | Rittal                         | E76083          |
| +SS1-A51<br>&EFS=MA1+SS1/4                                              | 61057801                 | 1                       | Phasenausfallrelais<br>Phase failure relay          | 160-690V AC<br>3UG4513-1BR20                                                      | Siemens                        |                 |
| +SS1-A801<br>&EFS=MA1+SS1/16                                            | 60711701                 | 1                       | Bedienpanel<br>Control panel                        | LUX 2.0<br>60711701                                                               | ait-deutschland GmbH           |                 |
| +SS1-A801<br>&EFS=MA1+SS1/16                                            | 60992001                 | 1                       | Folientastatur<br>Membrane keyboard                 | 60992001                                                                          | ait-deutschland GmbH           |                 |
| +SS1-A801<br>&EFS=MA1+SS1/16                                            | 61136501                 | 1                       | Abdeckung<br>Cover                                  | cBoxX<br>61136501                                                                 | ait-deutschland GmbH           |                 |
| +SS1-A801<br>&EFS=MA1+SS1/16                                            | 66632001                 | 1                       | Schlauchhalter<br>Hose clamp                        | Ø16mm<br>SZ 2593.000                                                              | Rittal                         |                 |
| +SS1-A801<br>&EFS=MA1+SS1/16                                            | 65777501                 | 1                       | Schutzschlauch<br>Protective hose                   | Ø16mm<br>83101610                                                                 | Murrplastik Systemtechnik GmbH |                 |
| +SS1-A801<br>&EFS=MA1+SS1/16                                            | 61136401                 | 3                       | Abstandshalter<br>Distance piece                    | 6,4mm<br>06.03.416                                                                | Ettinger GmbH                  |                 |
| +SS1-B42<br>&EFS=MA1+SS1/5                                              | 66589501                 | 1                       | Thermostat<br>Thermostat                            | NC, 0-60°C<br>01146.9-00                                                          | STEGO Elektrotechnik GmbH      | E164102         |
| +SS1-E42<br>&EFS=MA1+SS1/5                                              | 60987501                 | 1                       | Heizkörper<br>Heating element                       | 12-30V 45W<br>14012.0-00                                                          | STEGO Elektrotechnik GmbH      |                 |
| +SS1-E42<br>&EFS=MA1+SS1/5                                              | 66825901                 | 1                       | Isolierschlauch<br>Insulating hose                  | Ø10mm<br>08010014010                                                              | SES-Sterling GmbH              |                 |
| +SS1-E42<br>&EFS=MA1+SS1/5                                              | 61771401                 | 1                       | Halteblech<br>Holding plate                         | 100x80mm<br>353498                                                                | hbk metallbearbeitung gmbh     |                 |
| +SS1-F21<br>&EFS=MA1+SS1/2                                              | 61123301                 | 1                       | Sicherungshalter<br>Fuse holder                     | 3p 30A 600V Class CC<br>3NW7533-0HG                                               | Siemens                        | E171267         |
| +SS1-F21<br>&EFS=MA1+SS1/2                                              | 61577601                 | 3                       | Sicherung<br>Fuse                                   | 4A 600V Class CC<br>3NW1040-0HG                                                   | Siemens                        | E258218         |
| +SS1-F22<br>&EFS=MA1+SS1/2                                              | 61058401                 | 1                       | Leitungsschutzschalter<br>Miniature circuit-breaker | C4A<br>5SL6104-7                                                                  | Siemens                        |                 |
| +SS1-F101<br>&EFS=MA1+SS1/15                                            | 60912801                 | 1                       | Motorschutzschalter<br>Motor overload switch        | 9,0...12,5 A<br>3RV2011-1KA10                                                     | Siemens                        | E47705, E156943 |
| +SS1-F101<br>&EFS=MA1+SS1/15                                            | 61019701                 | 1                       | Hilfsschalter<br>Auxiliary switch                   | 2NO<br>3RV2901-2F                                                                 | Siemens                        |                 |
| +SS1-F101<br>&EFS=MA1+SS1/15                                            | 61293901                 | 3                       | Einspeiseklemme<br>Feed in terminal                 | S00/0<br>3RV2925-5EB                                                              | Siemens                        |                 |
| +SS1-F101<br>&EFS=MA1+SS1/15                                            | 65683501                 | 1                       | Sammelschiene<br>Busbar                             | 15p S0/S00<br>3RV1915-1DB                                                         | Siemens                        |                 |

Schutzvermerk ISO 16016 beachten. Refer to protection notice ISO 16016.

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Parts list

| Betriebsmittelkennzeichen<br>Device tag<br><br>Platzierung<br>Placement | SAP Nummer<br>SAP number | Menge<br>Quantity<br>ME | Bezeichnung<br>Designation                   | Technische Kenngröße<br>Technical characteristic<br>Bestellnummer<br>Order number | Hersteller<br>Manufacturer | UL- / CSA-File    |
|-------------------------------------------------------------------------|--------------------------|-------------------------|----------------------------------------------|-----------------------------------------------------------------------------------|----------------------------|-------------------|
| +SS1-F151<br>&EFS=MA1+SS1/14                                            | 67115701                 | 1                       | Motorschutzscharter<br>Motor overload switch | 27...32A<br>3RV2021-4EA10                                                         | Siemens                    | E47705, E156943   |
| +SS1-F151<br>&EFS=MA1+SS1/14                                            | 61019701                 | 1                       | Hilfsscharter<br>Auxiliary switch            | 2NO<br>3RV2901-2F                                                                 | Siemens                    |                   |
| +SS1-F151<br>&EFS=MA1+SS1/14                                            | 60937701                 | 1                       | Verbindungsmodul<br>Connecting modul         | 3RV - 3RT<br>3RA2921-1BA00                                                        | Siemens                    |                   |
| +SS1-F152<br>&EFS=MA1+SS1/14                                            | 67115701                 | 1                       | Motorschutzscharter<br>Motor overload switch | 27...32A<br>3RV2021-4EA10                                                         | Siemens                    | E47705, E156943   |
| +SS1-F152<br>&EFS=MA1+SS1/14                                            | 61019701                 | 1                       | Hilfsscharter<br>Auxiliary switch            | 2NO<br>3RV2901-2F                                                                 | Siemens                    |                   |
| +SS1-F152<br>&EFS=MA1+SS1/14                                            | 60937701                 | 1                       | Verbindungsmodul<br>Connecting modul         | 3RV - 3RT<br>3RA2921-1BA00                                                        | Siemens                    |                   |
| +SS1-F201<br>&EFS=MA1+SS1/12                                            | 61499101                 | 1                       | Direktstarter<br>Direct starter              | 3...12A<br>3RA6120-1DB32                                                          | Siemens                    | E156943           |
| +SS1-F202<br>&EFS=MA1+SS1/13                                            | 61499101                 | 1                       | Direktstarter<br>Direct starter              | 3...12A<br>3RA6120-1DB32                                                          | Siemens                    | E156943           |
| +SS1-K451<br>&EFS=MA1+SS1/18                                            | 65583801                 | 1                       | Relais<br>Relay                              | 1CO 6A DC-1<br>38.61.0.024.0062                                                   | Finder                     |                   |
| +SS1-K801<br>&EFS=MA1+SS1/23                                            | 60986901                 | 1                       | Steuerung<br>Control                         | PCB3 HIGH<br>60986901                                                             | ait-deutschland GmbH       |                   |
| +SS1-K801<br>&EFS=MA1+SS1/23                                            | 66783901                 | 6                       | Stehbolzen<br>Stay bolt                      | M3x20mm<br>0968000320                                                             | Adolf Würth GmbH & Co. KG  |                   |
| +SS1-K801<br>&EFS=MA1+SS1/23                                            | 61283401                 | 1                       | Steckverbinder<br>Connector                  | 2p 0,25-2,5mm²<br>1754449                                                         | Phoenix Contact            | E60425            |
| +SS1-K801<br>&EFS=MA1+SS1/23                                            | 61282801                 | 3                       | Steckverbinder<br>Connector                  | 2p 0,2-1,5mm²<br>1952267                                                          | Phoenix Contact            | E60425            |
| +SS1-K801<br>&EFS=MA1+SS1/23                                            | 61282901                 | 3                       | Steckverbinder<br>Connector                  | 3p 0,2-1,5mm²<br>1952270                                                          | Phoenix Contact            | E60425            |
| +SS1-K801<br>&EFS=MA1+SS1/23                                            | 61283001                 | 3                       | Steckverbinder<br>Connector                  | 4p 0,2-1,5mm²<br>1952283                                                          | Phoenix Contact            | E60425            |
| +SS1-K801<br>&EFS=MA1+SS1/23                                            | 61283101                 | 5                       | Steckverbinder<br>Connector                  | 6p 0,2-1,5mm²<br>1952306                                                          | Phoenix Contact            | E60425            |
| +SS1-K801<br>&EFS=MA1+SS1/23                                            | 61283201                 | 5                       | Steckverbinder<br>Connector                  | 8p 0,2-1,5mm²<br>1952322                                                          | Phoenix Contact            | E60425            |
| +SS1-K801<br>&EFS=MA1+SS1/23                                            | 61283301                 | 3                       | Steckverbinder<br>Connector                  | 10p 0,2-1,5mm²<br>1952348                                                         | Phoenix Contact            | E60425            |
| +SS1-Q1<br>&EFS=MA1+SS1/1                                               | 61057701                 | 1                       | Lasttrennscharter<br>Switch-disconnector     | 125A<br>HLT125/3V/Z44/Z33/X72/F803/X83                                            | Sontheimer                 | E171806 / 1303370 |

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| Betriebsmittelkennzeichen<br>Device tag<br><br>Platzierung<br>Placement | SAP Nummer<br>SAP number | Menge<br>Quantity<br>ME | Bezeichnung<br>Designation                            | Technische Kenngröße<br>Technical characteristic<br>Bestellnummer<br>Order number | Hersteller<br>Manufacturer | UL- / CSA-File   |
|-------------------------------------------------------------------------|--------------------------|-------------------------|-------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------|------------------|
| +SS1-Q1<br>&EFS=MA1+SS1/1                                               | 61758801                 | 1                       | Schaltplantasche<br>Circuit diagram bag               | DIN A4<br>SZ 2510.000                                                             | Rittal                     |                  |
| +SS1-Q1<br>&EFS=MA1+SS1/1                                               | 67169701                 | 2                       | Austrittsfilter<br>Outlet filter                      | 92x92mm<br>FPF08KUG-101                                                           | Fandis S.p.A.              |                  |
| +SS1-Q1<br>&EFS=MA1+SS1/1                                               | 80000601.K               | 1                       | Aufkleber<br>Sticker                                  | 60x34mm<br>80000601.K                                                             | ait-deutschland GmbH       |                  |
| +SS1-Q1<br>&EFS=MA1+SS1/1                                               | 65847101                 | 1                       | Halter<br>Holder                                      | 9mm<br>0502811                                                                    | Adolf Würth GmbH & Co. KG  |                  |
| +SS1-Q1<br>&EFS=MA1+SS1/1                                               | 66789001                 | 4                       | Abdeckkappe<br>Cover cap                              | <br>059008                                                                        | Adolf Würth GmbH & Co. KG  |                  |
| +SS1-Q151<br>&EFS=MA1+SS1/18                                            | 60936601                 | 1                       | Leistungsschütz<br>Power contactor                    | 3p 50A AC-1/38A AC-3<br>3RT2028-1BB40                                             | Siemens                    | E31519           |
| +SS1-Q151<br>&EFS=MA1+SS1/18                                            | 67170401                 | 1                       | Varistor<br>Varistor                                  | S0<br>3RT2926-1BB00                                                               | Siemens                    |                  |
| +SS1-Q152<br>&EFS=MA1+SS1/18                                            | 60936601                 | 1                       | Leistungsschütz<br>Power contactor                    | 3p 50A AC-1/38A AC-3<br>3RT2028-1BB40                                             | Siemens                    | E31519           |
| +SS1-Q152<br>&EFS=MA1+SS1/18                                            | 67170401                 | 1                       | Varistor<br>Varistor                                  | S0<br>3RT2926-1BB00                                                               | Siemens                    |                  |
| +SS1-S801<br>&EFS=MA1+SS1/16                                            | 61539201                 | 1                       | Schalter<br>Switch                                    | 230V 16A<br>248346                                                                | Eaton Electric GmbH        |                  |
| +SS1-T21<br>&EFS=MA1+SS1/2                                              | 61360001                 | 1                       | Netzteil<br>Power supply unit                         | 24V 3,75A DC<br>2904371                                                           | Phoenix Contact            | E123528, E214596 |
| +SS1-T42<br>&EFS=MA1+SS1/5                                              | 61360001                 | 1                       | Netzteil<br>Power supply unit                         | 24V 3,75A DC<br>2904371                                                           | Phoenix Contact            | E123528, E214596 |
| +SS1-T801<br>&EFS=MA1+SS1/16                                            | 60949401                 | 1                       | DC/DC-Wandler<br>DC/DC-converter                      | 24/12V 0,5A DC<br>859-805                                                         | WAGO                       |                  |
| +SS1-U31                                                                | 65792601                 | 1                       | Kabeldurchführungsplatte<br>Cable feedthrough plate   | M63<br>43761                                                                      | icotek                     |                  |
| +SS1-U32                                                                | 65792601                 | 1                       | Kabeldurchführungsplatte<br>Cable feedthrough plate   | M63<br>43761                                                                      | icotek                     |                  |
| +SS1-U33                                                                | 61141801                 | 1                       | Kabeldurchführungsstülle<br>Cable feedthrough grommet | M63<br>42656                                                                      | icotek                     |                  |
| +SS1-U34                                                                | 65792601                 | 1                       | Kabeldurchführungsplatte<br>Cable feedthrough plate   | M63<br>43761                                                                      | icotek                     |                  |
| +SS1-XSH801<br>&EFS=MA1+SS1/16                                          | 60740301                 | 1                       | Schirmklemme<br>Shield clamp                          | Ø3-6mm<br>36915                                                                   | icotek                     |                  |

# Klemmenplan

## Terminal diagram

| =MA1+SS1-XD1                          |                          |                  |                             |          |                                       |                          |                                                                  |  |                            | Interne Ziele<br>Internal targets |
|---------------------------------------|--------------------------|------------------|-----------------------------|----------|---------------------------------------|--------------------------|------------------------------------------------------------------|--|----------------------------|-----------------------------------|
| Zielbezeichnung<br>Target designation | Platzierung<br>Placement | Brücke<br>Jumper | Stegbrücke<br>Saddle jumper |          | Zielbezeichnung<br>Target designation | Platzierung<br>Placement | Klemmenbezeichnung Terminal designation<br>SAP Nummer SAP number |  | Hersteller<br>Manufacturer |                                   |
|                                       |                          |                  |                             | Ⓔ Ⓘ      |                                       |                          | CLIPFIX 35-5 (3022276)<br>65579901                               |  | Phoenix Contact            |                                   |
| -E42:PE                               | &EFS=MA1+SS1/5           | •                | •                           | Ⓔ PE1 Ⓘ  | -XDS1:PE1:I                           | &EFS=MA1+SS1/2           | PTTB 2,5-PE GNYE (3210596)<br>61775201                           |  | Phoenix Contact            |                                   |
| +MR1-M101:PE                          | &EFS=MA1+SS1/15          | •                | •                           | Ⓔ PE2 Ⓘ  |                                       |                          |                                                                  |  |                            |                                   |
| +MR1-M102:PE                          | &EFS=MA1+SS1/15          | •                | •                           | Ⓔ PE3 Ⓘ  |                                       |                          | PTTB 2,5-PE GNYE (3210596)<br>61775201                           |  | Phoenix Contact            |                                   |
|                                       |                          | •                | •                           | Ⓔ PE4 Ⓘ  |                                       |                          |                                                                  |  |                            |                                   |
| +MR1-E251:GNYE                        | &EFS=MA1+SS1/2           | •                | •                           | Ⓔ PE5 Ⓘ  |                                       |                          | PTTB 2,5-PE GNYE (3210596)<br>61775201                           |  | Phoenix Contact            |                                   |
| +MR1-E252:GNYE                        | &EFS=MA1+SS1/2           | •                | •                           | Ⓔ PE6 Ⓘ  | -XD2:PE1:I                            | &EFS=MA1+SS1/3           |                                                                  |  |                            |                                   |
|                                       |                          |                  |                             | Ⓔ Ⓘ      |                                       |                          | D-PTTB 2,5 (3211634)<br>61761701                                 |  | Phoenix Contact            |                                   |
| +MR1-M151:PE                          | &EFS=MA1+SS1/14          | •                | •                           | Ⓔ PE7 Ⓘ  | -XDE1:PE3:I                           | &EFS=MA1+SS1/1           | PT 6-PE GNYE (3211822)<br>61759901                               |  | Phoenix Contact            |                                   |
| +MR1-M152:PE                          | &EFS=MA1+SS1/14          | •                | •                           | Ⓔ PE8 Ⓘ  | +MR1-M201:PE                          | &EFS=MA1+SS1/12          | PT 6-PE GNYE (3211822)<br>61759901                               |  | Phoenix Contact            |                                   |
|                                       |                          | •                | •                           | Ⓔ PE9 Ⓘ  | +MR1-M202:PE                          | &EFS=MA1+SS1/13          | PT 6-PE GNYE (3211822)<br>61759901                               |  | Phoenix Contact            |                                   |
|                                       |                          | •                | •                           | Ⓔ PE10 Ⓘ |                                       |                          | PT 6-PE GNYE (3211822)<br>61759901                               |  | Phoenix Contact            |                                   |
|                                       |                          |                  |                             | Ⓔ Ⓘ      |                                       |                          | D-PT 6 (3212044)<br>61760001                                     |  | Phoenix Contact            |                                   |
| +MR1-E251:BN                          | &EFS=MA1+SS1/2           |                  | •                           | Ⓔ 1 Ⓘ    | -Q151:22                              | &EFS=MA1+SS1/2           | PTTB 2,5 GY (3210567)<br>61761601                                |  | Phoenix Contact            |                                   |
| +MR1-E251:BU                          | &EFS=MA1+SS1/2           |                  | •                           | Ⓔ 2 Ⓘ    | -F21:4                                | &EFS=MA1+SS1/2           |                                                                  |  |                            |                                   |
| +MR1-E252:BN                          | &EFS=MA1+SS1/2           |                  | •                           | Ⓔ 3 Ⓘ    | -Q152:22                              | &EFS=MA1+SS1/2           | PTTB 2,5 GY (3210567)<br>61761601                                |  | Phoenix Contact            |                                   |
| +MR1-E252:BU                          | &EFS=MA1+SS1/2           |                  | •                           | Ⓔ 4 Ⓘ    | -T42:L2/N                             | &EFS=MA1+SS1/5           |                                                                  |  |                            |                                   |
|                                       |                          |                  |                             | Ⓔ Ⓘ      |                                       |                          | D-PTTB 2,5 (3211634)<br>61761701                                 |  | Phoenix Contact            |                                   |
|                                       |                          |                  |                             | Ⓔ Ⓘ      |                                       |                          | CLIPFIX 35-5 (3022276)<br>65579901                               |  | Phoenix Contact            |                                   |

Klemmenplan

Terminal diagram

Externe Ziele  
External targets

=MA1+SS1-XD2

Interne Ziele  
Internal targets

| Zielbezeichnung<br>Target designation | Platzierung<br>Placement | Brücke<br>Jumper | Stegbrücke<br>Saddle jumper |         | Zielbezeichnung<br>Target designation | Platzierung<br>Placement         | Klemmenbezeichnung Terminal designation<br>SAP Nummer SAP number | Hersteller<br>Manufacturer |
|---------------------------------------|--------------------------|------------------|-----------------------------|---------|---------------------------------------|----------------------------------|------------------------------------------------------------------|----------------------------|
|                                       |                          |                  |                             | Ⓔ Ⓘ     |                                       |                                  | CLIPFIX 35-5 (3022276)<br>65579901                               | Phoenix Contact            |
|                                       |                          | •                | •                           | Ⓔ PE1 Ⓘ | -XD1:PE6:I<br>-UTR1                   | &EFS=MA1+SS1/3<br>&EFS=MA1+SS1/3 | PTTB 1,5/S-PE GNYE (3208537)<br>61254201                         | Phoenix Contact            |
|                                       |                          | •                | •                           | Ⓔ PE2 Ⓘ |                                       |                                  |                                                                  |                            |
|                                       |                          | •                | •                           | Ⓔ PE3 Ⓘ |                                       |                                  | PTTB 1,5/S-PE GNYE (3208537)<br>61254201                         | Phoenix Contact            |
|                                       |                          | •                | •                           | Ⓔ PE4 Ⓘ |                                       |                                  |                                                                  |                            |
|                                       |                          |                  | •                           | Ⓔ 1 Ⓘ   | -K801:DI1:2                           | &EFS=MA1+SS1/21                  | PTTB 1,5/S GY (3208511)<br>61254101                              | Phoenix Contact            |
|                                       |                          |                  | •                           | Ⓔ 2 Ⓘ   | -K801:DI1:1                           | &EFS=MA1+SS1/21                  |                                                                  |                            |
| -XD2:4:E                              | &EFS=MA1+SS1/6           |                  | •                           | Ⓔ 3 Ⓘ   | -K801:DI1:8                           | &EFS=MA1+SS1/6                   | PTTB 1,5/S GY (3208511)<br>61254101                              | Phoenix Contact            |
| -XD2:3:E                              | &EFS=MA1+SS1/6           |                  | •                           | Ⓔ 4 Ⓘ   | -K801:DI1:7                           | &EFS=MA1+SS1/6                   |                                                                  |                            |
|                                       |                          |                  | •                           | Ⓔ 5 Ⓘ   | -K801:DI2:3                           | &EFS=MA1+SS1/12                  | PTTB 1,5/S GY (3208511)<br>61254101                              | Phoenix Contact            |
|                                       |                          |                  | •                           | Ⓔ 6 Ⓘ   | -K801:DI2:4                           | &EFS=MA1+SS1/12                  |                                                                  |                            |
|                                       |                          |                  | •                           | Ⓔ 7 Ⓘ   | -K801:DI2:5                           | &EFS=MA1+SS1/21                  | PTTB 1,5/S GY (3208511)<br>61254101                              | Phoenix Contact            |
|                                       |                          |                  | •                           | Ⓔ 8 Ⓘ   | -K801:DI2:6                           | &EFS=MA1+SS1/21                  |                                                                  |                            |
|                                       |                          |                  | •                           | Ⓔ 9 Ⓘ   | -K801:DI3:3                           | &EFS=MA1+SS1/13                  | PTTB 1,5/S GY (3208511)<br>61254101                              | Phoenix Contact            |
|                                       |                          |                  | •                           | Ⓔ 10 Ⓘ  | -K801:DI3:4                           | &EFS=MA1+SS1/13                  |                                                                  |                            |
| +MR1-B451:1                           | &EFS=MA1+SS1/18          |                  | •                           | Ⓔ 11 Ⓘ  | -XDS1:24:E                            | &EFS=MA1+SS1/2                   | PTTB 1,5/S GY (3208511)<br>61254101                              | Phoenix Contact            |
| +MR1-B451:2                           | &EFS=MA1+SS1/18          |                  | •                           | Ⓔ 12 Ⓘ  | -K801:ES1:1                           | &EFS=MA1+SS1/18                  |                                                                  |                            |
|                                       |                          |                  | •                           | Ⓔ 13 Ⓘ  | -K801:ES1:3                           | &EFS=MA1+SS1/18                  | PTTB 1,5/S GY (3208511)<br>61254101                              | Phoenix Contact            |
|                                       |                          |                  | •                           | Ⓔ 14 Ⓘ  |                                       |                                  |                                                                  |                            |

Klemmenplan

Terminal diagram

Externe Ziele  
External targets

=MA1+SS1-XD2

Interne Ziele  
Internal targets

| Zielbezeichnung<br>Target designation | Platzierung<br>Placement | Brücke<br>Jumper | Stegbrücke<br>Saddle jumper                                                         |        | Zielbezeichnung<br>Target designation | Platzierung<br>Placement | Klemmenbezeichnung Terminal designation<br>SAP Nummer SAP number | Hersteller<br>Manufacturer |
|---------------------------------------|--------------------------|------------------|-------------------------------------------------------------------------------------|--------|---------------------------------------|--------------------------|------------------------------------------------------------------|----------------------------|
| -XD2:16:E                             | &EFS=MA1+SS1/18          |                  |    | Ⓔ 15 Ⓢ |                                       |                          | PTTB 1,5/S GY (3208511)<br>61254101                              | Phoenix Contact            |
| -XD2:15:E                             | &EFS=MA1+SS1/18          |                  |    | Ⓔ 16 Ⓢ | -K451:A1                              | &EFS=MA1+SS1/18          |                                                                  |                            |
|                                       |                          |                  |    | Ⓔ 17 Ⓢ | -K801:DO4:1                           | &EFS=MA1+SS1/22          | PTTB 1,5/S GY (3208511)<br>61254101                              | Phoenix Contact            |
|                                       |                          |                  |    | Ⓔ 18 Ⓢ | -K801:DO4:2                           | &EFS=MA1+SS1/22          |                                                                  |                            |
|                                       |                          |                  |    | Ⓔ 19 Ⓢ | -K801:DO4:4                           | &EFS=MA1+SS1/7           | PTTB 1,5/S GY (3208511)<br>61254101                              | Phoenix Contact            |
|                                       |                          |                  |    | Ⓔ 20 Ⓢ | -XDS1:5:E                             | &EFS=MA1+SS1/2           |                                                                  |                            |
|                                       |                          |                  |    | Ⓔ 21 Ⓢ | -K801:DO4:8                           | &EFS=MA1+SS1/8           | PTTB 1,5/S GY (3208511)<br>61254101                              | Phoenix Contact            |
|                                       |                          |                  |   | Ⓔ 22 Ⓢ | -XDS1:7:E                             | &EFS=MA1+SS1/2           |                                                                  |                            |
| +MR1-B452:1                           | &EFS=MA1+SS1/19          |                  |  | Ⓔ 23 Ⓢ | -K801:AI2:1                           | &EFS=MA1+SS1/19          | PTTB 1,5/S GY (3208511)<br>61254101                              | Phoenix Contact            |
| +MR1-B452:2                           | &EFS=MA1+SS1/19          |                  |  | Ⓔ 24 Ⓢ | -K801:AI2:2                           | &EFS=MA1+SS1/19          |                                                                  |                            |
| +MR1-B453:1                           | &EFS=MA1+SS1/19          |                  |  | Ⓔ 25 Ⓢ | -K801:AI2:3                           | &EFS=MA1+SS1/19          | PTTB 1,5/S GY (3208511)<br>61254101                              | Phoenix Contact            |
| +MR1-B453:2                           | &EFS=MA1+SS1/19          |                  |  | Ⓔ 26 Ⓢ | -K801:AI2:4                           | &EFS=MA1+SS1/19          |                                                                  |                            |
| +MR1-B454:1                           | &EFS=MA1+SS1/19          |                  |  | Ⓔ 27 Ⓢ | -K801:AI2:5                           | &EFS=MA1+SS1/19          | PTTB 1,5/S GY (3208511)<br>61254101                              | Phoenix Contact            |
| +MR1-B454:2                           | &EFS=MA1+SS1/19          |                  |  | Ⓔ 28 Ⓢ | -K801:AI2:6                           | &EFS=MA1+SS1/19          |                                                                  |                            |
|                                       |                          |                  |  | Ⓔ 29 Ⓢ | -K801:AI3:1                           | &EFS=MA1+SS1/19          | PTTB 1,5/S GY (3208511)<br>61254101                              | Phoenix Contact            |
|                                       |                          |                  |  | Ⓔ 30 Ⓢ | -K801:AI3:2                           | &EFS=MA1+SS1/19          |                                                                  |                            |
| +MR1-B402:WH                          | &EFS=MA1+SS1/19          |                  |  | Ⓔ 31 Ⓢ | -K801:AI3:3                           | &EFS=MA1+SS1/19          | PTTB 1,5/S GY (3208511)<br>61254101                              | Phoenix Contact            |
| +MR1-B402:BN                          | &EFS=MA1+SS1/19          |                  |  | Ⓔ 32 Ⓢ | -K801:AI3:4                           | &EFS=MA1+SS1/19          |                                                                  |                            |
| +MR1-B403:WH                          | &EFS=MA1+SS1/19          |                  |  | Ⓔ 33 Ⓢ | -K801:AI3:5                           | &EFS=MA1+SS1/19          | PTTB 1,5/S GY (3208511)<br>61254101                              | Phoenix Contact            |

0123456789

# Klemmenplan

## Terminal diagram

| Externe Ziele<br>External targets     |                          |                  |                             | =MA1+SS1-XD2                          |                          |                                                                  |  | Interne Ziele<br>Internal targets |  |
|---------------------------------------|--------------------------|------------------|-----------------------------|---------------------------------------|--------------------------|------------------------------------------------------------------|--|-----------------------------------|--|
| Zielbezeichnung<br>Target designation | Platzierung<br>Placement | Brücke<br>Jumper | Stegbrücke<br>Saddle jumper | Zielbezeichnung<br>Target designation | Platzierung<br>Placement | Klemmenbezeichnung Terminal designation<br>SAP Nummer SAP number |  | Hersteller<br>Manufacturer        |  |
| +MR1-B403:BN                          | &EFS=MA1+SS1/19          |                  | ·<br>ⓔ 34 ⓔ                 | -K801:AI3:6                           | &EFS=MA1+SS1/19          |                                                                  |  |                                   |  |
| +MR1-M354:G                           | &EFS=MA1+SS1/20          |                  | ·<br>ⓔ 35 ⓔ                 | -XDS1:22:E                            | &EFS=MA1+SS1/2           | PTTB 1,5/S GY (3208511)<br>61254101                              |  | Phoenix Contact                   |  |
| +MR1-M354:G0                          | &EFS=MA1+SS1/20          |                  | ·<br>ⓔ 36 ⓔ                 | -XDS1:3:E                             | &EFS=MA1+SS1/2           |                                                                  |  |                                   |  |
| +MR1-M354:Y                           | &EFS=MA1+SS1/20          |                  | ·<br>ⓔ 37 ⓔ                 | -K801:AO1:3                           | &EFS=MA1+SS1/20          | PTTB 1,5/S GY (3208511)<br>61254101                              |  | Phoenix Contact                   |  |
| +MR1-M354:M                           | &EFS=MA1+SS1/20          |                  | ·<br>ⓔ 38 ⓔ                 | -K801:AO1:4                           | &EFS=MA1+SS1/20          |                                                                  |  |                                   |  |
|                                       |                          |                  | ·<br>ⓔ 39 ⓔ                 |                                       |                          | PTTB 1,5/S GY (3208511)<br>61254101                              |  | Phoenix Contact                   |  |
|                                       |                          |                  | ·<br>ⓔ 40 ⓔ                 |                                       |                          |                                                                  |  |                                   |  |
|                                       |                          |                  | ·<br>ⓔ 41 ⓔ                 | -K801:AIO1:3                          | &EFS=MA1+SS1/10          | PTTB 1,5/S GY (3208511)<br>61254101                              |  | Phoenix Contact                   |  |
|                                       |                          |                  | ·<br>ⓔ 42 ⓔ                 |                                       |                          |                                                                  |  |                                   |  |
|                                       |                          |                  | ·<br>ⓔ 43 ⓔ                 | -K801:AIO1:1                          | &EFS=MA1+SS1/13          | PTTB 1,5/S GY (3208511)<br>61254101                              |  | Phoenix Contact                   |  |
|                                       |                          |                  | ·<br>ⓔ 44 ⓔ                 | -K801:AIO1:2                          | &EFS=MA1+SS1/13          |                                                                  |  |                                   |  |
| +MR1-B201:1                           | &EFS=MA1+SS1/12          |                  | ·<br>ⓔ 47 ⓔ                 | -K801:IFP AI1:3                       | &EFS=MA1+SS1/12          | PTTB 1,5/S GY (3208511)<br>61254101                              |  | Phoenix Contact                   |  |
| +MR1-B201:2                           | &EFS=MA1+SS1/12          |                  | ·<br>ⓔ 48 ⓔ                 | -K801:IFP AI1:4                       | &EFS=MA1+SS1/12          |                                                                  |  |                                   |  |
|                                       |                          |                  | ·<br>ⓔ 49 ⓔ                 | -K801:IFP AI1:5                       | &EFS=MA1+SS1/19          | PTTB 1,5/S GY (3208511)<br>61254101                              |  | Phoenix Contact                   |  |
|                                       |                          |                  | ·<br>ⓔ 50 ⓔ                 | -K801:IFP AI1:6                       | &EFS=MA1+SS1/19          |                                                                  |  |                                   |  |
| +MR1-M101:24V                         | &EFS=MA1+SS1/15          |                  | ·<br>ⓔ 51 ⓔ                 | -K801:DO1:5                           | &EFS=MA1+SS1/15          | PTTB 1,5/S GY (3208511)<br>61254101                              |  | Phoenix Contact                   |  |
| +MR1-M101:D1                          | &EFS=MA1+SS1/15          |                  | ·<br>ⓔ 52 ⓔ                 | -K801:DO1:6                           | &EFS=MA1+SS1/15          |                                                                  |  |                                   |  |
| +MR1-M101:11                          | &EFS=MA1+SS1/15          |                  | ·<br>ⓔ 53 ⓔ                 | -K801:DI4:3                           | &EFS=MA1+SS1/15          | PTTB 1,5/S GY (3208511)<br>61254101                              |  | Phoenix Contact                   |  |
| +MR1-M101:14                          | &EFS=MA1+SS1/15          |                  | ·<br>ⓔ 54 ⓔ                 | -K801:DI4:4                           | &EFS=MA1+SS1/15          |                                                                  |  |                                   |  |

Klemmenplan

Terminal diagram

Externe Ziele  
External targets

=MA1+SS1-XD2

Interne Ziele  
Internal targets

| Zielbezeichnung<br>Target designation | Platzierung<br>Placement | Brücke<br>Jumper | Stegbrücke<br>Saddle jumper |        | Zielbezeichnung<br>Target designation | Platzierung<br>Placement | Klemmenbezeichnung Terminal designation<br>SAP Nummer SAP number | Hersteller<br>Manufacturer |
|---------------------------------------|--------------------------|------------------|-----------------------------|--------|---------------------------------------|--------------------------|------------------------------------------------------------------|----------------------------|
| +MR1-M101:E1                          | &EFS=MA1+SS1/15          |                  | <div><div></div></div>      | ⓔ 55 ⓔ | -K801:AO1:5                           | &EFS=MA1+SS1/15          | PTTB 1,5/S GY (3208511)<br>61254101                              | Phoenix Contact            |
| +MR1-M101:GND                         | &EFS=MA1+SS1/15          |                  | <div><div></div></div>      | ⓔ 56 ⓔ | -K801:AO1:6                           | &EFS=MA1+SS1/15          |                                                                  |                            |
| +MR1-M102:24V                         | &EFS=MA1+SS1/15          |                  | <div><div></div></div>      | ⓔ 57 ⓔ | -K801:DO1:7                           | &EFS=MA1+SS1/15          | PTTB 1,5/S GY (3208511)<br>61254101                              | Phoenix Contact            |
| +MR1-M102:D1                          | &EFS=MA1+SS1/15          |                  | <div><div></div></div>      | ⓔ 58 ⓔ | -K801:DO1:8                           | &EFS=MA1+SS1/15          |                                                                  |                            |
| +MR1-M102:11                          | &EFS=MA1+SS1/15          |                  | <div><div></div></div>      | ⓔ 59 ⓔ | -K801:DI4:7                           | &EFS=MA1+SS1/15          | PTTB 1,5/S GY (3208511)<br>61254101                              | Phoenix Contact            |
| +MR1-M102:14                          | &EFS=MA1+SS1/15          |                  | <div><div></div></div>      | ⓔ 60 ⓔ | -K801:DI4:8                           | &EFS=MA1+SS1/15          |                                                                  |                            |
| +MR1-M102:E1                          | &EFS=MA1+SS1/15          |                  | <div><div></div></div>      | ⓔ 61 ⓔ |                                       |                          | PTTB 1,5/S GY (3208511)<br>61254101                              | Phoenix Contact            |
| +MR1-M102:GND                         | &EFS=MA1+SS1/15          |                  | <div><div></div></div>      | ⓔ 62 ⓔ |                                       |                          |                                                                  |                            |
|                                       |                          |                  | <div><div></div></div>      | ⓔ 63 ⓔ | -K801:IFP DO2:2                       | &EFS=MA1+SS1/10          | PTTB 1,5/S GY (3208511)<br>61254101                              | Phoenix Contact            |
|                                       |                          |                  | <div><div></div></div>      | ⓔ 64 ⓔ | -XDS1:8:E                             | &EFS=MA1+SS1/2           |                                                                  |                            |
| +MR1-M352:G                           | &EFS=MA1+SS1/7           |                  | <div><div></div></div>      | ⓔ 65 ⓔ | -XDS1:23:E                            | &EFS=MA1+SS1/2           | PTTB 1,5/S GY (3208511)<br>61254101                              | Phoenix Contact            |
| +MR1-M352:G0                          | &EFS=MA1+SS1/7           |                  | <div><div></div></div>      | ⓔ 66 ⓔ | -XDS1:4:E                             | &EFS=MA1+SS1/2           |                                                                  |                            |
| +MR1-M352:Y                           | &EFS=MA1+SS1/7           |                  | <div><div></div></div>      | ⓔ 67 ⓔ | -K801:AIO2:3                          | &EFS=MA1+SS1/7           | PTTB 1,5/S GY (3208511)<br>61254101                              | Phoenix Contact            |
| +MR1-M352:M                           | &EFS=MA1+SS1/7           |                  | <div><div></div></div>      | ⓔ 68 ⓔ | -K801:AIO2:4                          | &EFS=MA1+SS1/7           |                                                                  |                            |
|                                       |                          |                  | <div><div></div></div>      | ⓔ 69 ⓔ | -K801:AIO2:1                          | &EFS=MA1+SS1/9           | PTTB 1,5/S GY (3208511)<br>61254101                              | Phoenix Contact            |
|                                       |                          |                  | <div><div></div></div>      | ⓔ 70 ⓔ | -K801:AIO2:2                          | &EFS=MA1+SS1/9           |                                                                  |                            |
|                                       |                          |                  | <div><div></div></div>      | ⓔ 71 ⓔ | -K801:AIO2:5                          | &EFS=MA1+SS1/9           | PTTB 1,5/S GY (3208511)<br>61254101                              | Phoenix Contact            |
|                                       |                          |                  | <div><div></div></div>      | ⓔ 72 ⓔ | -K801:AIO2:6                          | &EFS=MA1+SS1/9           |                                                                  |                            |
|                                       |                          |                  | <div><div></div></div>      | ⓔ 73 ⓔ | -XDS1:25:E                            | &EFS=MA1+SS1/2           | PTTB 1,5/S GY (3208511)<br>61254101                              | Phoenix Contact            |

Klemmenplan

Terminal diagram

Externe Ziele  
External targets

=MA1+SS1-XD2

Interne Ziele  
Internal targets

| Zielbezeichnung<br>Target designation | Platzierung<br>Placement | Brücke<br>Jumper | Stegbrücke<br>Saddle jumper |        | Zielbezeichnung<br>Target designation | Platzierung<br>Placement | Klemmenbezeichnung Terminal designation<br>SAP Nummer SAP number | Hersteller<br>Manufacturer |
|---------------------------------------|--------------------------|------------------|-----------------------------|--------|---------------------------------------|--------------------------|------------------------------------------------------------------|----------------------------|
|                                       |                          |                  | '                           | Ⓔ 74 Ⓢ | -XDS1:9:E                             | &EFS=MA1+SS1/2           |                                                                  |                            |
|                                       |                          |                  | '                           | Ⓔ 75 Ⓢ |                                       |                          | PTTB 1,5/S GY (3208511)<br>61254101                              | Phoenix Contact            |
|                                       |                          |                  | '                           | Ⓔ 76 Ⓢ |                                       |                          |                                                                  |                            |
|                                       |                          |                  | '                           | Ⓔ 77 Ⓢ |                                       |                          | PTTB 1,5/S GY (3208511)<br>61254101                              | Phoenix Contact            |
|                                       |                          |                  | '                           | Ⓔ 78 Ⓢ |                                       |                          |                                                                  |                            |
|                                       |                          |                  | '                           | Ⓔ 79 Ⓢ |                                       |                          | PTTB 1,5/S GY (3208511)<br>61254101                              | Phoenix Contact            |
|                                       |                          |                  | '                           | Ⓔ 80 Ⓢ |                                       |                          |                                                                  |                            |
|                                       |                          |                  |                             | Ⓔ Ⓢ    |                                       |                          | D-PTTB 1,5/S (3208579)<br>61254701                               | Phoenix Contact            |

Klemmenplan

Terminal diagram

Externe Ziele  
External targets

=MA1+SS1-XD3

Interne Ziele  
Internal targets

| Zielbezeichnung<br>Target designation | Platzierung<br>Placement | Brücke<br>Jumper | Stegbrücke<br>Saddle jumper |     | Zielbezeichnung<br>Target designation | Platzierung<br>Placement | Klemmenbezeichnung Terminal designation<br>SAP Nummer SAP number | Hersteller<br>Manufacturer |
|---------------------------------------|--------------------------|------------------|-----------------------------|-----|---------------------------------------|--------------------------|------------------------------------------------------------------|----------------------------|
|                                       |                          |                  |                             | ⓔⓔ  |                                       |                          | CLIPFIX 35-5 (3022276)<br>65579901                               | Phoenix Contact            |
|                                       |                          |                  | ,                           | ⓔ1ⓔ | -K801:DO5:3                           | &EFS=MA1+SS1/22          | PTTB 1,5/S GY (3208511)<br>61254101                              | Phoenix Contact            |
|                                       |                          |                  | ,                           | ⓔ2ⓔ | -K801:DO5:1                           | &EFS=MA1+SS1/22          |                                                                  |                            |
|                                       |                          |                  | ,                           | ⓔ3ⓔ | -K801:DO5:2                           | &EFS=MA1+SS1/22          | PTTB 1,5/S GY (3208511)<br>61254101                              | Phoenix Contact            |
|                                       |                          |                  | ,                           | ⓔ4ⓔ | -K801:DO2:1                           | &EFS=MA1+SS1/22          |                                                                  |                            |
|                                       |                          |                  | ,                           | ⓔ5ⓔ | -K801:DO2:2                           | &EFS=MA1+SS1/22          | PTTB 1,5/S GY (3208511)<br>61254101                              | Phoenix Contact            |
|                                       |                          |                  | ,                           | ⓔ6ⓔ |                                       |                          |                                                                  |                            |
|                                       |                          |                  |                             | ⓔⓔ  |                                       |                          | D-PTTB 1,5/S (3208579)<br>61254701                               | Phoenix Contact            |

Klemmenplan

Terminal diagram

Externe Ziele  
External targets

=MA1+SS1-XD4

Interne Ziele  
Internal targets

| Zielbezeichnung<br>Target designation | Platzierung<br>Placement | Brücke<br>Jumper | Stegbrücke<br>Saddle jumper |       | Zielbezeichnung<br>Target designation | Platzierung<br>Placement | Klemmenbezeichnung Terminal designation<br>SAP Nummer SAP number | Hersteller<br>Manufacturer |
|---------------------------------------|--------------------------|------------------|-----------------------------|-------|---------------------------------------|--------------------------|------------------------------------------------------------------|----------------------------|
|                                       |                          |                  |                             | Ⓔ Ⓘ   |                                       |                          | CLIPFIX 35-5 (3022276)<br>65579901                               | Phoenix Contact            |
|                                       |                          |                  | ,                           | Ⓔ 1 Ⓘ | -S801:5                               | &EFS=MA1+SS1/16          | PTTB 1,5/S GY (3208511)<br>61254101                              | Phoenix Contact            |
|                                       |                          |                  | ,                           | Ⓔ 2 Ⓘ | -S801:7                               | &EFS=MA1+SS1/16          |                                                                  |                            |
|                                       |                          | •                | ,                           | Ⓔ 3 Ⓘ |                                       |                          | PTTB 1,5/S-PE GNYE (3208537)<br>61254201                         | Phoenix Contact            |
|                                       |                          | •                | ,                           | Ⓔ 4 Ⓘ | -UTR1                                 | &EFS=MA1+SS1/16          |                                                                  |                            |
|                                       |                          | •                | ,                           | Ⓔ 5 Ⓘ | -K801:RS-485-3:2                      | &EFS=MA1+SS1/16          | PTTB 1,5/S-PV GY (3208540)<br>61759301                           | Phoenix Contact            |
|                                       |                          | •                | ,                           | Ⓔ 6 Ⓘ | -A801:RJ45-485.3:RJ45                 | &EFS=MA1+SS1/16          |                                                                  |                            |
|                                       |                          | •                | ,                           | Ⓔ 7 Ⓘ | -K801:RS-485-3:3                      | &EFS=MA1+SS1/16          | PTTB 1,5/S-PV GY (3208540)<br>61759301                           | Phoenix Contact            |
|                                       |                          | •                | ,                           | Ⓔ 8 Ⓘ | -A801:RJ45-485.3:RJ45                 | &EFS=MA1+SS1/16          |                                                                  |                            |
|                                       |                          |                  |                             | Ⓔ Ⓘ   |                                       |                          | D-PTTB 1,5/S (3208579)<br>61254701                               | Phoenix Contact            |

Klemmenplan

Terminal diagram

Externe Ziele  
External targets

=MA1+SS1-XD5

Interne Ziele  
Internal targets

| Zielbezeichnung<br>Target designation | Platzierung<br>Placement | Brücke<br>Jumper | Stegbrücke<br>Saddle jumper |      | Zielbezeichnung<br>Target designation | Platzierung<br>Placement | Klemmenbezeichnung Terminal designation<br>SAP Nummer SAP number | Hersteller<br>Manufacturer |
|---------------------------------------|--------------------------|------------------|-----------------------------|------|---------------------------------------|--------------------------|------------------------------------------------------------------|----------------------------|
|                                       |                          |                  |                             | ⓔⓐ   |                                       |                          | CLIPFIX 35-5 (3022276)<br>65579901                               | Phoenix Contact            |
|                                       |                          |                  | ,                           | ⓔⓐ1ⓐ | -XDS1:6:E                             | &EFS=MA1+SS1/2           | PTTB 1,5/S GY (3208511)<br>61254101                              | Phoenix Contact            |
|                                       |                          |                  | ,                           | ⓔⓐ2ⓐ | -F201:14                              | &EFS=MA1+SS1/11          |                                                                  |                            |
|                                       |                          | •                | ,                           | ⓔⓐ3ⓐ |                                       |                          | PTTB 1,5/S-PE GNYE (3208537)<br>61254201                         | Phoenix Contact            |
|                                       |                          | •                | ,                           | ⓔⓐ4ⓐ | -UTR1                                 | &EFS=MA1+SS1/11          |                                                                  |                            |
|                                       |                          |                  |                             | ⓔⓐⓐ  |                                       |                          | D-PTTB 1,5/S (3208579)<br>61254701                               | Phoenix Contact            |
|                                       |                          |                  |                             | ⓔⓐⓐ  |                                       |                          | CLIPFIX 35-5 (3022276)<br>65579901                               | Phoenix Contact            |

# Klemmenplan

## Terminal diagram

Externe Ziele  
External targets

=MA1+SS1-XDE1

Interne Ziele  
Internal targets

| Zielbezeichnung<br>Target designation | Platzierung<br>Placement | Brücke<br>Jumper | Stegbrücke<br>Saddle jumper |         | Zielbezeichnung<br>Target designation | Platzierung<br>Placement | Klemmenbezeichnung Terminal designation<br>SAP Nummer SAP number | Hersteller<br>Manufacturer |
|---------------------------------------|--------------------------|------------------|-----------------------------|---------|---------------------------------------|--------------------------|------------------------------------------------------------------|----------------------------|
| N                                     | &EFS=MA1+SS1/1           |                  | .                           | ⓔ N1 ⓘ  |                                       |                          | UT 35 BU (3044238)<br>61777601                                   | Phoenix Contact            |
| PE                                    | &EFS=MA1+SS1/1           |                  | .                           | ⓔ PE1 ⓘ | -UH                                   | &EFS=MA1+SS1/1           | UT 35-PE (3044241)<br>61777501                                   | Phoenix Contact            |
|                                       |                          |                  | .                           | ⓔ PE2 ⓘ | -UR                                   | &EFS=MA1+SS1/1           | UT 35-PE (3044241)<br>61777501                                   | Phoenix Contact            |
| -UC                                   | &EFS=MA1+SS1/1           |                  | .                           | ⓔ PE3 ⓘ | -XD1:PE7:I                            | &EFS=MA1+SS1/3           | PT 6-PE GNYE (3211822)<br>61759901                               | Phoenix Contact            |
|                                       |                          |                  |                             | ⓔ ⓘ     |                                       |                          | D-PT 6 (3212044)<br>61760001                                     | Phoenix Contact            |
|                                       |                          |                  |                             | ⓔ ⓘ     |                                       |                          | CLIPFIX 35-5 (3022276)<br>65579901                               | Phoenix Contact            |

Klemmenplan

Terminal diagram

Externe Ziele  
External targets

=MA1+SS1-XDS1

Interne Ziele  
Internal targets

| Zielbezeichnung<br>Target designation | Platzierung<br>Placement | Brücke<br>Jumper | Stegbrücke<br>Saddle jumper |        | Zielbezeichnung<br>Target designation | Platzierung<br>Placement | Klemmenbezeichnung Terminal designation<br>SAP Nummer SAP number | Hersteller<br>Manufacturer |
|---------------------------------------|--------------------------|------------------|-----------------------------|--------|---------------------------------------|--------------------------|------------------------------------------------------------------|----------------------------|
|                                       |                          |                  |                             | ⓔ ⓐ    |                                       |                          | CLIPFIX 35-5 (3022276)<br>65579901                               | Phoenix Contact            |
|                                       |                          | •                | •                           | ⓔ 1 ⓐ  | -T21:-.                               | &EFS=MA1+SS1/2           | PT 1,5/S-3PV GY (3213742)<br>61759401                            | Phoenix Contact            |
|                                       |                          | •                | •                           | ⓔ 2 ⓐ  | -S801:4                               | &EFS=MA1+SS1/16          |                                                                  |                            |
| -XD2:36:I                             | &EFS=MA1+SS1/20          | •                | •                           | ⓔ 3 ⓐ  | -K801:CON15:2                         | &EFS=MA1+SS1/17          |                                                                  |                            |
| -XD2:66:I                             | &EFS=MA1+SS1/7           | •                | •                           | ⓔ 4 ⓐ  | -Q151:A2                              | &EFS=MA1+SS1/18          | PT 1,5/S-3PV GY (3213742)<br>61759401                            | Phoenix Contact            |
| -XD2:20:I                             | &EFS=MA1+SS1/7           | •                | •                           | ⓔ 5 ⓐ  | -K451:A2                              | &EFS=MA1+SS1/18          |                                                                  |                            |
| -XD5:1:I                              | &EFS=MA1+SS1/11          | •                | •                           | ⓔ 6 ⓐ  |                                       |                          |                                                                  |                            |
| -XD2:22:I                             | &EFS=MA1+SS1/8           | •                | •                           | ⓔ 7 ⓐ  | -F201:A2-                             | &EFS=MA1+SS1/12          | PT 1,5/S-3PV GY (3213742)<br>61759401                            | Phoenix Contact            |
| -XD2:64:I                             | &EFS=MA1+SS1/10          | •                | •                           | ⓔ 8 ⓐ  | -F202:A2-                             | &EFS=MA1+SS1/13          |                                                                  |                            |
| -XD2:74:I                             | &EFS=MA1+SS1/9           | •                | •                           | ⓔ 9 ⓐ  |                                       |                          |                                                                  |                            |
|                                       |                          | •                | •                           | ⓔ 10 ⓐ |                                       |                          | PT 1,5/S-3PV GY (3213742)<br>61759401                            | Phoenix Contact            |
|                                       |                          | •                | •                           | ⓔ 11 ⓐ |                                       |                          |                                                                  |                            |
|                                       |                          | •                | •                           | ⓔ 12 ⓐ |                                       |                          |                                                                  |                            |
|                                       |                          | •                | •                           | ⓔ 13 ⓐ |                                       |                          | PT 1,5/S-3PV GY (3213742)<br>61759401                            | Phoenix Contact            |
|                                       |                          | •                | •                           | ⓔ 14 ⓐ |                                       |                          |                                                                  |                            |
|                                       |                          | •                | •                           | ⓔ 15 ⓐ |                                       |                          |                                                                  |                            |
|                                       |                          |                  |                             | ⓔ ⓐ    |                                       |                          | D-PT 1,5/S-3L (3113771)<br>61759501                              | Phoenix Contact            |
|                                       |                          | •                | •                           | ⓔ 21 ⓐ | -F22:2                                | &EFS=MA1+SS1/2           | PT 1,5/S-3PV GY (3213742)<br>61759401                            | Phoenix Contact            |
| -XD2:35:I                             | &EFS=MA1+SS1/20          | •                | •                           | ⓔ 22 ⓐ | -K801:CON15:1                         | &EFS=MA1+SS1/17          |                                                                  |                            |

Klemmenplan

Terminal diagram

| Externe Ziele<br>External targets     |                          |                  |                             | =MA1+SS1-XDS1                         |                          |                                                                  |                                       | Interne Ziele<br>Internal targets |  |
|---------------------------------------|--------------------------|------------------|-----------------------------|---------------------------------------|--------------------------|------------------------------------------------------------------|---------------------------------------|-----------------------------------|--|
| Zielbezeichnung<br>Target designation | Platzierung<br>Placement | Brücke<br>Jumper | Stegbrücke<br>Saddle jumper | Zielbezeichnung<br>Target designation | Platzierung<br>Placement | Klemmenbezeichnung Terminal designation<br>SAP Nummer SAP number |                                       | Hersteller<br>Manufacturer        |  |
| -XD2:65:I                             | &EFS=MA1+SS1/7           | <div></div>      | <div></div>                 | <div>ⓔ23ⓔ</div>                       | -K801:DO4:3              | &EFS=MA1+SS1/7                                                   |                                       |                                   |  |
| -XD2:11:I                             | &EFS=MA1+SS1/18          | <div></div>      | <div></div>                 | <div>ⓔ24ⓔ</div>                       | -K801:DO4:7              | &EFS=MA1+SS1/8                                                   | PT 1,5/S-3PV GY (3213742)<br>61759401 | Phoenix Contact                   |  |
| -XD2:73:I                             | &EFS=MA1+SS1/9           | <div></div>      | <div></div>                 | <div>ⓔ25ⓔ</div>                       | -K801:IFP DO2:1          | &EFS=MA1+SS1/10                                                  |                                       |                                   |  |
|                                       |                          | <div></div>      | <div></div>                 | <div>ⓔ26ⓔ</div>                       | -F201:13                 | &EFS=MA1+SS1/11                                                  |                                       |                                   |  |
|                                       |                          | <div></div>      | <div></div>                 | <div>ⓔ27ⓔ</div>                       | -K801:DO1:1              | &EFS=MA1+SS1/12                                                  | PT 1,5/S-3PV GY (3213742)<br>61759401 | Phoenix Contact                   |  |
|                                       |                          | <div></div>      | <div></div>                 | <div>ⓔ28ⓔ</div>                       | -K801:DO1:3              | &EFS=MA1+SS1/13                                                  |                                       |                                   |  |
|                                       |                          | <div></div>      | <div></div>                 | <div>ⓔ29ⓔ</div>                       |                          |                                                                  |                                       |                                   |  |
|                                       |                          | <div></div>      | <div></div>                 | <div>ⓔ30ⓔ</div>                       |                          |                                                                  | PT 1,5/S-3PV GY (3213742)<br>61759401 | Phoenix Contact                   |  |
|                                       |                          | <div></div>      | <div></div>                 | <div>ⓔ31ⓔ</div>                       |                          |                                                                  |                                       |                                   |  |
|                                       |                          | <div></div>      | <div></div>                 | <div>ⓔ32ⓔ</div>                       |                          |                                                                  |                                       |                                   |  |
|                                       |                          | <div></div>      | <div></div>                 | <div>ⓔ33ⓔ</div>                       | -S801:2                  | &EFS=MA1+SS1/16                                                  | PT 1,5/S-3PV GY (3213742)<br>61759401 | Phoenix Contact                   |  |
|                                       |                          | <div></div>      | <div></div>                 | <div>ⓔ34ⓔ</div>                       |                          |                                                                  |                                       |                                   |  |
|                                       |                          | <div></div>      | <div></div>                 | <div>ⓔ35ⓔ</div>                       |                          |                                                                  |                                       |                                   |  |
|                                       |                          |                  |                             | <div>ⓔⓔ</div>                         |                          |                                                                  | D-PT 1,5/S-3L (3113771)<br>61759501   | Phoenix Contact                   |  |
| -XDS1:PE1:E                           | &EFS=MA1+SS1/2           |                  | <div></div>                 | <div>ⓔTN1ⓔ</div>                      | -T21:-                   | &EFS=MA1+SS1/2                                                   | UK 5-MTK-P/P GY (3004032)<br>65559501 | Phoenix Contact                   |  |
| -XDS1:TN1:E                           | &EFS=MA1+SS1/2           |                  | <div></div>                 | <div>ⓔPE1ⓔ</div>                      | -XD1:PE1:I               | &EFS=MA1+SS1/3                                                   | PT 2,5-PE GNYE (3209536)<br>61759101  | Phoenix Contact                   |  |
|                                       |                          |                  |                             | <div>ⓔⓔ</div>                         |                          |                                                                  | D-ST 2,5 (3030417)<br>65573001        | Phoenix Contact                   |  |
|                                       |                          |                  |                             | <div>ⓔⓔ</div>                         |                          |                                                                  | CLIPFIX 35-5 (3022276)<br>65579901    | Phoenix Contact                   |  |

Kabelübersicht

Cable overview

| Kabelname<br>Cable name | Platzierung<br>Placement | SAP Nummer<br>SAP number | Funktion<br>Function            | Hersteller<br>Manufacturer<br>Leitungstyp<br>cable type | Bestellnummer<br>Order number | Länge<br>Length |
|-------------------------|--------------------------|--------------------------|---------------------------------|---------------------------------------------------------|-------------------------------|-----------------|
| +SS1-WA801-1            | &EFS+SS1/16.5            | 61416001                 | Bedienpanel                     | HELUKABEL GmbH<br>UC900 BK 4x2x27/7 AWG                 | 806142                        | 2,25 m          |
| +MR1-WB201              | &EFS+SS1/12.2            | 61841401                 | Drucksensor Austritt Pumpe 1    | U.I. Lapp GmbH<br>UNITRONIC LiYY A 2x20/7 AWG           | 0022632                       |                 |
| +MR1-WB452              | &EFS+SS1/19.1            | 61841401                 | Drucksensor Kaltwasser Eintritt | U.I. Lapp GmbH<br>UNITRONIC LiYY A 2x20/7 AWG           | 0022632                       |                 |
| +MR1-WB453              | &EFS+SS1/19.2            | 61841401                 | Drucksensor Hochdruck           | U.I. Lapp GmbH<br>UNITRONIC LiYY A 2x20/7 AWG           | 0022632                       |                 |
| +MR1-WB454              | &EFS+SS1/19.3            | 61841401                 | Drucksensor Niederdruck         | U.I. Lapp GmbH<br>UNITRONIC LiYY A 2x20/7 AWG           | 0022632                       |                 |
| +MR1-WE251              | &EFS+SS1/2.0             | 65723901                 | Gehäuseheizung 1                | U.I. Lapp GmbH<br>ÖLFLEX 150 3G1,5 mm²                  | 0015303                       |                 |
| +MR1-WE252              | &EFS+SS1/2.1             | 65723901                 | Gehäuseheizung 2                | U.I. Lapp GmbH<br>ÖLFLEX 150 3G1,5 mm²                  | 0015303                       |                 |
| +MR1-WM101-1            | &EFS+SS1/15.1            | 65725901                 | Kondensatorlüfter 1             | U.I. Lapp GmbH<br>ÖLFLEX 191 4G2,5 mm²                  | 0011151                       |                 |
| +MR1-WM101-2            | &EFS+SS1/15.2            | 61841501                 | =                               | U.I. Lapp GmbH<br>UNITRONIC LiYCY A 7x18/19 AWG         | 0044850                       |                 |
| +MR1-WM102-1            | &EFS+SS1/15.6            | 65725901                 | Kondensatorlüfter 2             | U.I. Lapp GmbH<br>ÖLFLEX 191 4G2,5 mm²                  | 0011151                       |                 |
| +MR1-WM102-2            | &EFS+SS1/15.7            | 61841501                 | =                               | U.I. Lapp GmbH<br>UNITRONIC LiYCY A 7x18/19 AWG         | 0044850                       |                 |
| +MR1-WM151              | &EFS+SS1/14.1            | 65726501                 | Verdichter 1                    | U.I. Lapp GmbH<br>ÖLFLEX 191 4G6 mm²                    | 0011165                       |                 |
| +MR1-WM152              | &EFS+SS1/14.4            | 65726501                 | Verdichter 2                    | U.I. Lapp GmbH<br>ÖLFLEX 191 4G6 mm²                    | 0011165                       |                 |
| +MR1-WM201              | &EFS+SS1/12.6            | 65725901                 | Pumpe 1                         | U.I. Lapp GmbH<br>ÖLFLEX 191 4G2,5 mm²                  | 0011151                       |                 |
| +MR1-WM202              | &EFS+SS1/13.6            | 65725901                 | Pumpe 2                         | U.I. Lapp GmbH<br>ÖLFLEX 191 4G2,5 mm²                  | 0011151                       |                 |
| +MR1-WM352              | &EFS+SS1/7.5             | 65724401                 | Regelventil Heißgas Bypass      | U.I. Lapp GmbH<br>ÖLFLEX 150 5G1 mm²                    | 0015205                       |                 |
| +MR1-WM354              | &EFS+SS1/20.4            | 65724401                 | Expansionsventil                | U.I. Lapp GmbH<br>ÖLFLEX 150 5G1 mm²                    | 0015205                       |                 |

Kabelplan

Cable diagram

| Kabelname<br>Cable name | Ader<br>Conductor |           | Ziel 1<br>Target 1        | Ziel 2<br>Target 2 | Funktion<br>Function                                                |
|-------------------------|-------------------|-----------|---------------------------|--------------------|---------------------------------------------------------------------|
| +SS1-WA801-1            | WH/OG             | 27/7 AWG  | +SS1-A801:RJ45-485.3:RJ45 | +SS1-T801:3        | Bedienpanel<br>Control panel                                        |
| +SS1-WA801-1            | OG                | 27/7 AWG  | +SS1-A801:RJ45-485.3:RJ45 | +SS1-T801:3        | =                                                                   |
| +SS1-WA801-1            | WH/GN             | 27/7 AWG  | +SS1-A801:RJ45-485.3:RJ45 | +SS1-T801:4        | =                                                                   |
| +SS1-WA801-1            | BU                | 27/7 AWG  | +SS1-A801:RJ45-485.3:RJ45 | +SS1-XD4:6:I       | =                                                                   |
| +SS1-WA801-1            | WH/BU             | 27/7 AWG  | +SS1-A801:RJ45-485.3:RJ45 | +SS1-XD4:8:I       | =                                                                   |
| +SS1-WA801-1            | GN                | 27/7 AWG  | +SS1-A801:RJ45-485.3:RJ45 | +SS1-T801:4        | =                                                                   |
| +SS1-WA801-1            | WH/BN             | 27/7 AWG  |                           |                    | =                                                                   |
| +SS1-WA801-1            | BN                | 27/7 AWG  |                           |                    | =                                                                   |
| +SS1-WA801-1            | SH                | AWG       | +SS1-A801:RJ45-485.3:RJ45 | +SS1-XSH801:1      | =                                                                   |
| +MR1-WB201              | WH                | 20/7 AWG  | +MR1-B201:1               | +SS1-XD2:47:E      | Drucksensor Austritt Pumpe 1<br>Pressure sensor outlet pump 1       |
| +MR1-WB201              | BN                | 20/7 AWG  | +MR1-B201:2               | +SS1-XD2:48:E      | =                                                                   |
| +MR1-WB452              | WH                | 20/7 AWG  | +MR1-B452:1               | +SS1-XD2:23:E      | Drucksensor Kaltwasser Eintritt<br>Pressure sensor cold water inlet |
| +MR1-WB452              | BN                | 20/7 AWG  | +MR1-B452:2               | +SS1-XD2:24:E      | =                                                                   |
| +MR1-WB453              | WH                | 20/7 AWG  | +MR1-B453:1               | +SS1-XD2:25:E      | Drucksensor Hochdruck<br>Pressure sensor high pressure              |
| +MR1-WB453              | BN                | 20/7 AWG  | +MR1-B453:2               | +SS1-XD2:26:E      | =                                                                   |
| +MR1-WB454              | WH                | 20/7 AWG  | +MR1-B454:1               | +SS1-XD2:27:E      | Drucksensor Niederdruck<br>Pressure sensor low pressure             |
| +MR1-WB454              | BN                | 20/7 AWG  | +MR1-B454:2               | +SS1-XD2:28:E      | =                                                                   |
| +MR1-WE251              | 1                 | 1,5 mm²   | +MR1-E251:BN              | +SS1-XD1:1:E       | Gehäuseheizung 1<br>crank case heater 1                             |
| +MR1-WE251              | 2                 | 1,5 mm²   | +MR1-E251:BU              | +SS1-XD1:2:E       | =                                                                   |
| +MR1-WE251              | GNYE              | 1,5 mm²   | +MR1-E251:GNYE            | +SS1-XD1:PE5:E     | =                                                                   |
| +MR1-WE252              | 1                 | 1,5 mm²   | +MR1-E252:BN              | +SS1-XD1:3:E       | Gehäuseheizung 2<br>crank case heater 2                             |
| +MR1-WE252              | 2                 | 1,5 mm²   | +MR1-E252:BU              | +SS1-XD1:4:E       | =                                                                   |
| +MR1-WE252              | GNYE              | 1,5 mm²   | +MR1-E252:GNYE            | +SS1-XD1:PE6:E     | =                                                                   |
| +MR1-WM101-1            | 1                 | 2,5 mm²   | +MR1-M101:L1              | +SS1-F101:2/T1     | Kondensatorlüfter 1<br>Condenser fan 1                              |
| +MR1-WM101-1            | 2                 | 2,5 mm²   | +MR1-M101:L2              | +SS1-F101:4/T2     | =                                                                   |
| +MR1-WM101-1            | 3                 | 2,5 mm²   | +MR1-M101:L3              | +SS1-F101:6/T3     | =                                                                   |
| +MR1-WM101-1            | GNYE              | 2,5 mm²   | +MR1-M101:PE              | +SS1-XD1:PE2:E     | =                                                                   |
| +MR1-WM101-2            | WH                | 18/19 AWG | +MR1-M101:24V             | +SS1-XD2:51:E      | Kondensatorlüfter 1<br>Condenser fan 1                              |
| +MR1-WM101-2            | BN                | 18/19 AWG | +MR1-M101:D1              | +SS1-XD2:52:E      | =                                                                   |
| +MR1-WM101-2            | GN                | 18/19 AWG |                           |                    | =                                                                   |
| +MR1-WM101-2            | YE                | 18/19 AWG | +MR1-M101:11              | +SS1-XD2:53:E      | =                                                                   |
| +MR1-WM101-2            | GY                | 18/19 AWG | +MR1-M101:14              | +SS1-XD2:54:E      | =                                                                   |
| +MR1-WM101-2            | PK                | 18/19 AWG | +MR1-M101:E1              | +SS1-XD2:55:E      | =                                                                   |
| +MR1-WM101-2            | BU                | 18/19 AWG | +MR1-M101:GND             | +SS1-XD2:56:E      | =                                                                   |
| +MR1-WM101-2            | SH                | AWG       |                           |                    | =                                                                   |
| +MR1-WM102-1            | 1                 | 2,5 mm²   | +MR1-M102:L1              | +SS1-F101:2/T1     | Kondensatorlüfter 2<br>Condenser fan 2                              |
| +MR1-WM102-1            | 2                 | 2,5 mm²   | +MR1-M102:L2              | +SS1-F101:4/T2     | =                                                                   |
| +MR1-WM102-1            | 3                 | 2,5 mm²   | +MR1-M102:L3              | +SS1-F101:6/T3     | =                                                                   |
| +MR1-WM102-1            | GNYE              | 2,5 mm²   | +MR1-M102:PE              | +SS1-XD1:PE3:E     | =                                                                   |
| +MR1-WM102-2            | WH                | 18/19 AWG | +MR1-M102:24V             | +SS1-XD2:57:E      | Kondensatorlüfter 2<br>Condenser fan 2                              |

Kabelplan

Cable diagram

| Kabelname<br>Cable name | Ader<br>Conductor | Ziel 1<br>Target 1 | Ziel 2<br>Target 2 | Funktion<br>Function                                          |
|-------------------------|-------------------|--------------------|--------------------|---------------------------------------------------------------|
| +MR1-WM102-2            | BN18/19 AWG       | +MR1-M102:D1       | +SS1-XD2:58:E      | Kondensatorlüfter 2<br>Condenser fan 2                        |
| +MR1-WM102-2            | GN18/19 AWG       |                    |                    | =                                                             |
| +MR1-WM102-2            | YE18/19 AWG       | +MR1-M102:11       | +SS1-XD2:59:E      | =                                                             |
| +MR1-WM102-2            | GY18/19 AWG       | +MR1-M102:14       | +SS1-XD2:60:E      | =                                                             |
| +MR1-WM102-2            | PK18/19 AWG       | +MR1-M102:E1       | +SS1-XD2:61:E      | =                                                             |
| +MR1-WM102-2            | BU18/19 AWG       | +MR1-M102:GND      | +SS1-XD2:62:E      | =                                                             |
| +MR1-WM102-2            | SHAWG             |                    |                    | =                                                             |
| +MR1-WM151              | 16 mm²            | +MR1-M151:U1       | +SS1-Q151:2        | Verdichter 1<br>Compressor 1                                  |
| +MR1-WM151              | 26 mm²            | +MR1-M151:V1       | +SS1-Q151:4        | =                                                             |
| +MR1-WM151              | 36 mm²            | +MR1-M151:W1       | +SS1-Q151:6        | =                                                             |
| +MR1-WM151              | GNYE6 mm²         | +MR1-M151:PE       | +SS1-XD1:PE7:E     | =                                                             |
| +MR1-WM152              | 16 mm²            | +MR1-M152:U1       | +SS1-Q152:2        | Verdichter 2<br>Compressor 2                                  |
| +MR1-WM152              | 26 mm²            | +MR1-M152:V1       | +SS1-Q152:4        | =                                                             |
| +MR1-WM152              | 36 mm²            | +MR1-M152:W1       | +SS1-Q152:6        | =                                                             |
| +MR1-WM152              | GNYE6 mm²         | +MR1-M152:PE       | +SS1-XD1:PE8:E     | =                                                             |
| +MR1-WM201              | 12,5 mm²          | +MR1-M201:U1       | +SS1-F201:2T1      | Pumpe 1<br>Pump 1                                             |
| +MR1-WM201              | 22,5 mm²          | +MR1-M201:V1       | +SS1-F201:4T2      | =                                                             |
| +MR1-WM201              | 32,5 mm²          | +MR1-M201:W1       | +SS1-F201:6T3      | =                                                             |
| +MR1-WM201              | GNYE2,5 mm²       | +MR1-M201:PE       | +SS1-XD1:PE8:I     | =                                                             |
| +MR1-WM202              | 12,5 mm²          | +MR1-M202:U1       | +SS1-F202:2T1      | Pumpe 2<br>Pump 2                                             |
| +MR1-WM202              | 22,5 mm²          | +MR1-M202:V1       | +SS1-F202:4T2      | =                                                             |
| +MR1-WM202              | 32,5 mm²          | +MR1-M202:W1       | +SS1-F202:6T3      | =                                                             |
| +MR1-WM202              | GNYE2,5 mm²       | +MR1-M202:PE       | +SS1-XD1:PE9:I     | =                                                             |
| +MR1-WM352              | 11 mm²            | +MR1-M352:G        | +SS1-XD2:65:E      | Regelventil Heißgas Bypass<br>Regulating valve hot gas bypass |
| +MR1-WM352              | 21 mm²            | +MR1-M352:G0       | +SS1-XD2:66:E      | =                                                             |
| +MR1-WM352              | 31 mm²            | +MR1-M352:Y        | +SS1-XD2:67:E      | =                                                             |
| +MR1-WM352              | 41 mm²            | +MR1-M352:M        | +SS1-XD2:68:E      | =                                                             |
| +MR1-WM352              | GNYE1 mm²         |                    |                    | =                                                             |
| +MR1-WM354              | 11 mm²            | +MR1-M354:G        | +SS1-XD2:35:E      | Expansionsventil<br>Expansion valve                           |
| +MR1-WM354              | 21 mm²            | +MR1-M354:G0       | +SS1-XD2:36:E      | =                                                             |
| +MR1-WM354              | 31 mm²            | +MR1-M354:Y        | +SS1-XD2:37:E      | =                                                             |
| +MR1-WM354              | 41 mm²            | +MR1-M354:M        | +SS1-XD2:38:E      | =                                                             |
| +MR1-WM354              | GNYE1 mm²         |                    |                    | =                                                             |

Schutzvermerk ISO 16016 beachten. Refer to protection notice ISO 16016.

Zuschnittsliste

Cutting list

| Betriebsmittelkennzeichen<br>Device tag<br>Platzierung<br>Placement | SAP Nummer<br>SAP number | Menge<br>Quantity<br>ME | Länge<br>Length | Bezeichnung<br>Designation     | Technische Kenngroße<br>Technical characteristic<br>Bestellnummer<br>Order number | Hersteller<br>Manufacturer |
|---------------------------------------------------------------------|--------------------------|-------------------------|-----------------|--------------------------------|-----------------------------------------------------------------------------------|----------------------------|
| +SS1-U1                                                             | 65765301                 | 1                       | 240 mm          | Kabelkanal<br>Cable duct       | 40x80x2000mm<br>7331-1                                                            | Licatec GmbH               |
| +SS1-U2                                                             | 65765301                 | 1                       | 130 mm          | Kabelkanal<br>Cable duct       | 40x80x2000mm<br>7331-1                                                            | Licatec GmbH               |
| +SS1-U3                                                             | 61760101                 | 1                       | 500 mm          | Kabelkanal<br>Cable duct       | 30x80x2000mm<br>7330-1                                                            | Licatec GmbH               |
| +SS1-U4                                                             | 65765301                 | 1                       | 240 mm          | Kabelkanal<br>Cable duct       | 40x80x2000mm<br>7331-1                                                            | Licatec GmbH               |
| +SS1-U5                                                             | 65765301                 | 1                       | 153 mm          | Kabelkanal<br>Cable duct       | 40x80x2000mm<br>7331-1                                                            | Licatec GmbH               |
| +SS1-U6                                                             | 61760101                 | 1                       | 373 mm          | Kabelkanal<br>Cable duct       | 30x80x2000mm<br>7330-1                                                            | Licatec GmbH               |
| +SS1-U7                                                             | 65765301                 | 1                       | 153 mm          | Kabelkanal<br>Cable duct       | 40x80x2000mm<br>7331-1                                                            | Licatec GmbH               |
| +SS1-U8                                                             | 61760101                 | 1                       | 250 mm          | Kabelkanal<br>Cable duct       | 30x80x2000mm<br>7330-1                                                            | Licatec GmbH               |
| +SS1-U9                                                             | 61760101                 | 1                       | 549 mm          | Kabelkanal<br>Cable duct       | 30x80x2000mm<br>7330-1                                                            | Licatec GmbH               |
| +SS1-U11                                                            | 60005301                 | 1                       | 269 mm          | Tragschiene<br>Mounting rail   | 35x7,5mm<br>2933/2 GL                                                             | Niedax GmbH & Co. KG       |
| +SS1-U12                                                            | 60005301                 | 1                       | 153 mm          | Tragschiene<br>Mounting rail   | 35x7,5mm<br>2933/2 GL                                                             | Niedax GmbH & Co. KG       |
| +SS1-U13                                                            | 60005301                 | 1                       | 153 mm          | Tragschiene<br>Mounting rail   | 35x7,5mm<br>2933/2 GL                                                             | Niedax GmbH & Co. KG       |
| +SS1-U14                                                            | 60005301                 | 1                       | 489 mm          | Tragschiene<br>Mounting rail   | 35x7,5mm<br>2933/2 GL                                                             | Niedax GmbH & Co. KG       |
| +SS1-U15                                                            | 66575101                 | 1                       | 80 mm           | Tragschiene<br>Mounting rail   | 35x15mm<br>0975490103                                                             | Adolf Würth GmbH & Co. KG  |
| +SS1-U16                                                            | 657679B01                | 1                       | 360 mm          | Verdrahtungskanal<br>Wire duct | Ø20mm 0,5m<br>7861-1                                                              | Licatec GmbH               |