

## **Schaltplan**

Circuit diagram

Schéma électrique

Schema elettrico

Esquema eléctrico

Plano de conexões

Schakelschema

Koblingsskjema

Áramkörök

Schemat połączeń

Şalter planı

Электрическая схема

4005-23620-83620



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|               |            |         |                       |                          |                       |                     |  |  |  |                                |  |                       |  |
|---------------|------------|---------|-----------------------|--------------------------|-----------------------|---------------------|--|--|--|--------------------------------|--|-----------------------|--|
| 20153695      | 12.11.2015 | Seifert | GEZEICHNET<br>GEPRÜFT | 12.08.2015<br>22.02.2017 | Seifert<br>Seifert W. | ECN100915INDEX: 005 |  | LIEBHERR - COMPONENTS<br>BIBERACH GmbH | DECKBLATT<br>COVER SHEET<br>COUVERTURE | TYP<br>81K.1                   |  | ANLAGE<br>ORT         |  |
|               |            |         |                       |                          |                       |                     |  |  |  | ZEICHN.-NR<br>4005-23620-83620 |  | BLATT 1VON 76         |  |
| ÄNDERUNGS-NR. | DATUM      | NAME    |                       | DATUM                    | NAME                  |                     |  |  |  |                                |  | ARTIKEL-CODE 90213137 |  |

# PROJEKT: 81K.1



STROMLAUFPLAN  
WIRING DIAGRAM  
SCHEMA ELECTRIQUE

4005-23620-83620

GERÄTEANORDNUNG  
LAYOUT OF EQUIPMENT  
DISPOSITION DE L'EQUIPEMENT

4005-83620

SACHNUMMER  
NUMBER  
DE PRODUIT

90213137  
(90012833)

BETRIEBSSPANNUNG  
OPERATING VOLTAGE  
TENSION DE SERVICE

400V -10%  
– 440V +5%  
50/60Hz

STEUERSPANNUNG  
CONTROL VOLTAGE  
TENSION DE COMMANDE

24V DC



PRIMÄRSPANNUNG DER TRANSFORMATOREN UND NETZTEIL AN LÄNDERSPANNUNG ANPASSEN  
ADAPT THE PRIMARY VOLTAGE OF THE TRANSFORMERS AND THE POWER SUPPLY UNIT TO COUNTRIES VOLTAGE  
ADAPTER LA TENSION PRIMAIRE DES TRANSORMATEURS ET LE BLOC D'ALIMENTATION À LA TENSION DU PAYS

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81K.1

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|------------------------|--|----------------------------|---------------------|------------------------|---|----------------------------|---------------------|
| /1                     | DECKBLATT<br>COVER SHEET<br>COUVERTURE   | 12.08.2015                 | Seifert             | /15                    | =S1 STROMLAUFPLAN<br>WIRING DIAGRAM<br>SCHEMA ELECTRIQUE            | 12.08.2015                 | Seifert             |
| /2                     | INHALTSVERZEICHNIS<br>LIST OF CONTENTS<br>SOMMAIRE                               | 12.08.2015                 | Seifert             | /16                    | =S1 DISPLAY<br>DISPLAY<br>AFFICHAGE                                 | 12.08.2015                 | Seifert             |
| /3                     | INHALTSVERZEICHNIS<br>LIST OF CONTENTS<br>SOMMAIRE                               | 12.08.2015                 | Seifert             | /17                    | =S1 FUNKANSCHLUSS<br>RADIO CONNECTION<br>RACCORDEMENT RADIO         | 12.08.2015                 | Seifert             |
| /4                     | INHALTSVERZEICHNIS<br>LIST OF CONTENTS<br>SOMMAIRE                               | 12.08.2015                 | Seifert             | /18                    | =S1 EINSTELLUNG<br>SETTING<br>RÉGLAGE                               | 12.08.2015                 | Seifert             |
| /5                     | =S1 STROMLAUFPLAN<br>WIRING DIAGRAM<br>SCHEMA ELECTRIQUE                         | 12.08.2015                 | Seifert             | /19                    | =S1 SPS<br>PLC<br>CPM   | 12.08.2015                 | Seifert             |
| /6                     | =S1 HEIZUNG<br>HEATING<br>CHAUFFAGE  | 12.08.2015                 | Seifert             | /20                    | =S1 SPS<br>PLC<br>CPM   | 12.08.2015                 | Seifert             |
| /7                     | =S1 BELEUCHTUNG<br>LIGHTING<br>ÉCLAIRAGE   | 17.05.2016                 | Seifert             | /21                    | =S1 SENSOREN<br>SENSORS<br>CAPTEURS                                 | 12.08.2015                 | Seifert             |
| /8                     | =S1 STROMLAUFPLAN<br>WIRING DIAGRAM<br>SCHEMA ELECTRIQUE                         | 12.08.2015                 | Seifert             | /22                    | =S1 DREHWERK<br>SLEWING GEAR<br>MÉC.D´ORIENTATION                   | 12.08.2015                 | Seifert             |
| /9                     | =S1 STROMLAUFPLAN<br>WIRING DIAGRAM<br>SCHEMA ELECTRIQUE                         | 12.08.2015                 | Seifert             | /23                    | =S1 DREHWERK<br>SLEWING GEAR<br>MÉC.D´ORIENTATION                   | 12.08.2015                 | Seifert             |
| /10                    | =S1 NOT-HALT<br>EMERGENCY STOP<br>L'ARRÊT D'URGENCE                              | 12.08.2015                 | Seifert             | /24                    | =S1 DREHWERK<br>SLEWING GEAR<br>MÉC.D´ORIENTATION                   | 12.08.2015                 | Seifert             |
| /11                    | =S1 STROMLAUFPLAN<br>WIRING DIAGRAM<br>SCHEMA ELECTRIQUE                         | 12.08.2015                 | Seifert             | /25                    | =S1 MONTAGEWERK<br>ERECTION GEAR<br>MECANISME DE MONTAGE            | 12.08.2015                 | Seifert             |
| /12                    | =S1 BEDIENUNGSTABLEAU<br>CONTROL TABLE<br>TABLEAU DE COMMANDE                    | 12.08.2015                 | Seifert             | /26                    | =S1 ENDSCHALTER<br>LIMIT SWITCHES<br>INTERRUPTEURS DE FIN DE COURSE | 12.08.2015                 | Seifert             |
| /13                    | =S1 MOTORVOLLSCHUTZ<br>THERMISTOR MOTOR PROTECTION<br>PROTECTION TOTAL DU MOTEUR | 12.08.2015                 | Seifert             | /27                    | =S1 KATZFAHRWERK<br>TROLLEY TRAVEL GEAR<br>MÉC.DE DISTRIBUTION      | 12.08.2015                 | Seifert             |
| /14                    | =S1 SIGNALSÄULE<br>SIGNAL COLUMN<br>COLONNE DE SIGNAUX                           | 12.08.2015                 | Seifert             | /28                    | =S1 KATZFAHRWERK<br>TROLLEY TRAVEL GEAR<br>MÉC.DE DISTRIBUTION      | 12.08.2015                 | Seifert             |

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|               |       |      | GEZEICHNET | 05.08.2016 |            | LIEBHERR  |            | Components |               | INHALTSVERZEICHNIS<br>LIST OF CONTENTS<br>SOMMAIRE |  | TYP        | 81K.1            |                       | ANLAGE         |
|               |       |      | GEPRÜFT    | 22.02.2017 | Seifert W. |           |            |            |               |  |  |            |                  |                       | ORT            |
|               |       |      |            |            |            |           |            |            |               |  |  | ZEICHN.-NR | 4005-23620-83620 |                       | BLATT 2 VON 76 |
| ÄNDERUNGS-NR. | DATUM | NAME |            | DATUM      | NAME       | ECN100915 | INDEX: 005 |            | Copyright (c) |  |  |            |                  | ARTIKEL-CODE 90213137 |                |

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81K.1

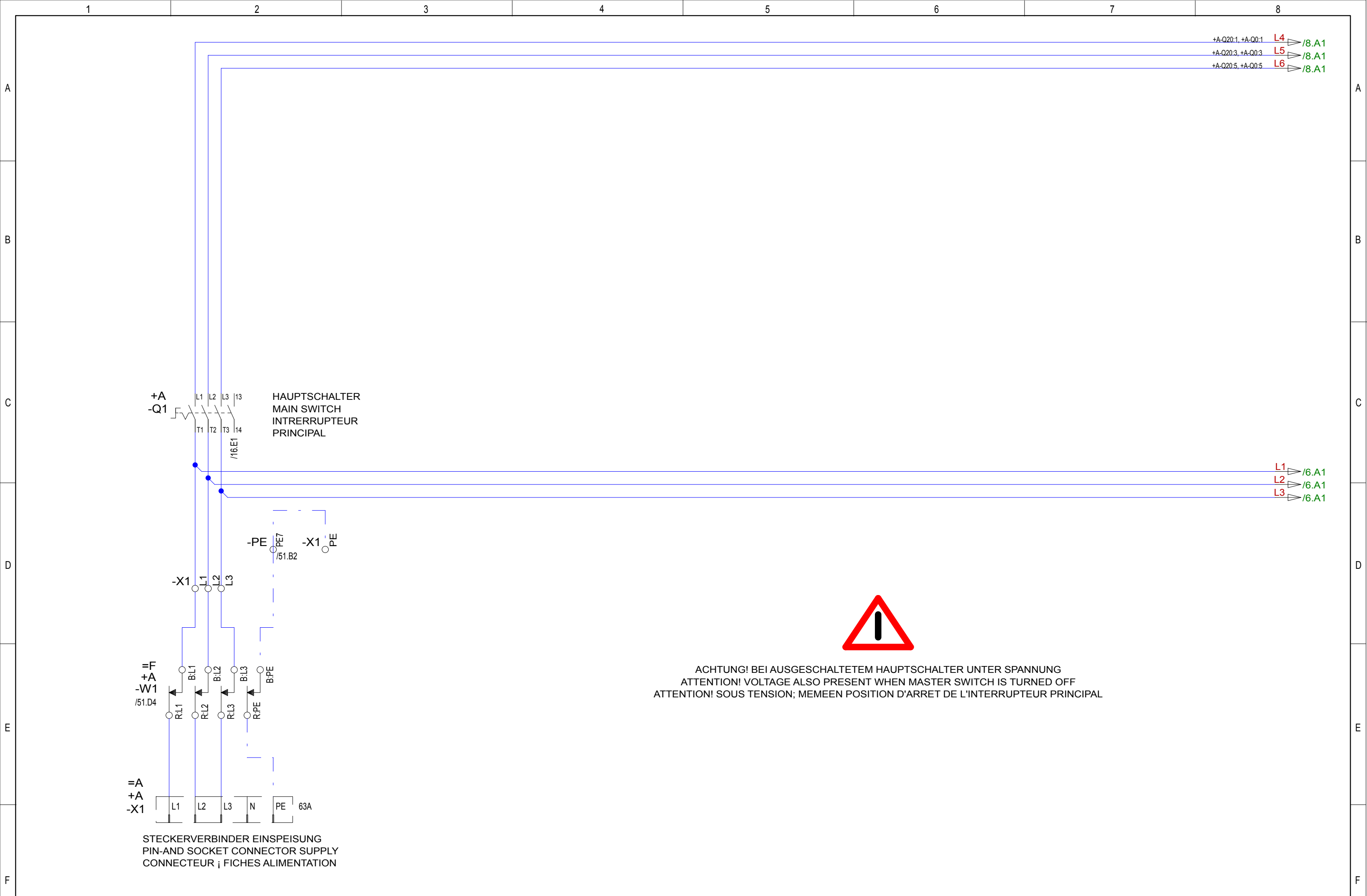
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| /29                    | =S1 KATZFAHRWERK<br>TROLLEY TRAVEL GEAR<br>MÉC.DE DISTRIBUTION               | 12.08.2015                 | Seifert             | /43                    | =S1 SENSOREN<br>SENSORS<br>CAPTEURS   | 12.08.2015                 | Seifert             |
| /30                    | =S1 KATZFAHRWERK<br>TROLLEY TRAVEL GEAR<br>MÉC.DE DISTRIBUTION               | 12.08.2015                 | Seifert             | /44                    | =S1 SPS<br>PLC<br>CPM   | 12.08.2015                 | Seifert             |
| /31                    | =S1 HILFSHUBWERK<br>AUXILIARY HOIST GEAR<br>MEC.DE LEVAGE AUXILIAIRE         | 12.08.2015                 | Seifert             | /45                    | =S1 SPS<br>PLC<br>CPM   | 12.08.2015                 | Seifert             |
| /32                    | =S1 ENDSCHALTER X2<br>LIMIT SWITCHES X2<br>INTERRUPTEURS DE FIN DE COURSE X2 | 12.08.2015                 | Seifert             | /46                    | =S1 SPS<br>PLC<br>CPM   | 12.08.2015                 | Seifert             |
| /33                    | =S1 ENDSCHALTER X2<br>LIMIT SWITCHES X2<br>INTERRUPTEURS DE FIN DE COURSE X2 | 12.08.2015                 | Seifert             | /47                    | =S1 SPS<br>PLC<br>CPM   | 12.08.2015                 | Seifert             |
| /34                    | =S1 ENDSCHALTER X3<br>LIMIT SWITCHES X3<br>INTERRUPTEURS DE FIN DE COURSE X3 | 12.08.2015                 | Seifert             | /48                    | =S1 ANTI KOLLISIONS SYSTEM "AKS"<br>ANTI COLLISION SYSTEM "AKS"<br>SYSTEME ANTI-COLLISION "AKS" | 12.08.2015                 | Seifert             |
| /35                    | =S1 ENDSCHALTER X3<br>LIMIT SWITCHES X3<br>INTERRUPTEURS DE FIN DE COURSE X3 | 12.08.2015                 | Seifert             | /49                    | =S1 DFÜ<br>RDT<br>EDI   | 12.08.2015                 | Seifert             |
| /36                    | =S1 HUBWERK<br>HOIST GEAR<br>MÉC.DE LEVAGE                                   | 12.08.2015                 | Seifert             | /50                    | =S1 ÜBERSICHT<br>GENERAL SURVEY<br>APERCU INDEX   | 12.08.2015                 | Seifert             |
| /37                    | =S1 HUBWERK<br>HOIST GEAR<br>MÉC.DE LEVAGE                                   | 12.08.2015                 | Seifert             | /51                    | =S1 ÜBERSICHT<br>GENERAL SURVEY<br>APERCU INDEX   | 12.08.2015                 | Seifert             |
| /38                    | =S1 HUBWERK<br>HOIST GEAR<br>MÉC.DE LEVAGE                                   | 12.08.2015                 | Seifert             | /52                    | =S1 ZENTRALSCHMIERUNG<br>CENTRALIZED LUBRICATION<br>GRAISSAGE CENTRALISE                        | 12.08.2015                 | Seifert             |
| /39                    | =S1 HUBWERK<br>HOIST GEAR<br>MÉC.DE LEVAGE                                   | 12.08.2015                 | Seifert             | /53                    | =P10 STEUERSTAND KST20<br>CONTROL STAND KST20<br>POSTE DE COMMANDE KST20                        | 05.07.2016                 | Kurray              |
| /40                    | =S1 FAHRWERK<br>TRAVELLING GEAR<br>L'ENSEMBLE DE TRANSLATION                 | 12.08.2015                 | Seifert             | /54                    | =P10 STEUERSTAND KST20<br>CONTROL STAND KST20<br>POSTE DE COMMANDE KST20                        | 05.07.2016                 | Kurray              |
| /41                    | =S1 FAHRWERK<br>TRAVELLING GEAR<br>L'ENSEMBLE DE TRANSLATION                 | 12.08.2015                 | Seifert             | /55                    | =P10 STEUERSTAND KST20<br>CONTROL STAND KST20<br>POSTE DE COMMANDE KST20                        | 06.07.2016                 | Kurray              |
| /42                    | =S1 BUS<br>BUS<br>BUS  | 12.08.2015                 | Seifert             | /56                    | =X BUS<br>BUS<br>BUS  | 12.08.2015                 | Seifert             |

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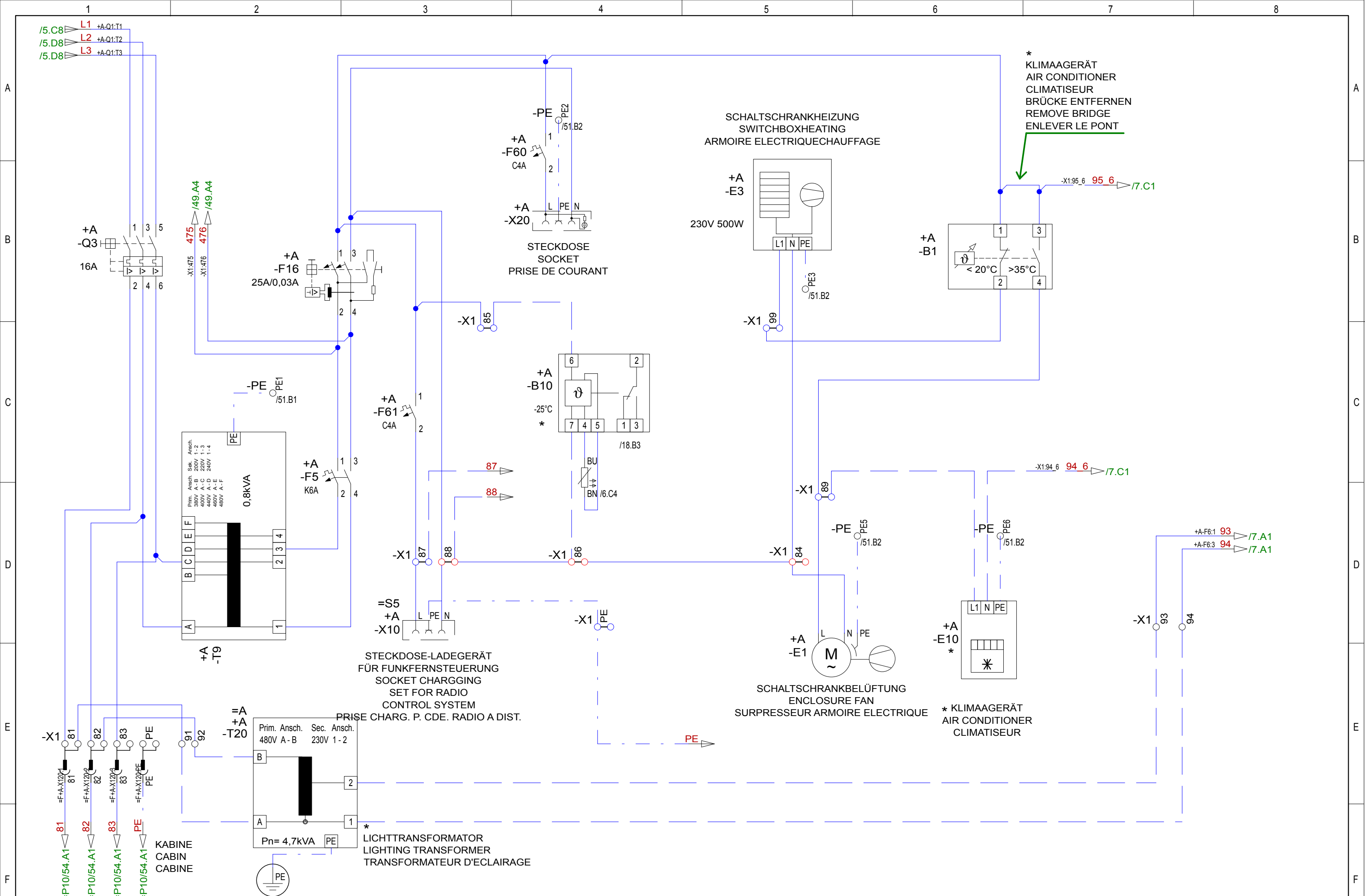
81K.1

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|------------------------|---|----------------------------|---------------------|------------------------|---|----------------------------|---------------------|
| /57                    | =S1 GERÄTEANORDNUNG<br>LAYOUT OF EQUIPMENT<br>DISPOSITION DE L'EQUIPEMENT | 12.08.2015                 | Seifert             | /71                    | PLATZIERUNG<br>PLACEMENT<br>PLACEMENT     | 12.08.2015                 | Seifert             |
| /58                    | =S1 GERÄTEANORDNUNG<br>LAYOUT OF EQUIPMENT<br>DISPOSITION DE L'EQUIPEMENT | 12.08.2015                 | Seifert             | /72                    | PLATZIERUNG<br>PLACEMENT<br>PLACEMENT     | 12.08.2015                 | Seifert             |
| /59                    | =S1 GERÄTEANORDNUNG<br>LAYOUT OF EQUIPMENT<br>DISPOSITION DE L'EQUIPEMENT | 12.08.2015                 | Seifert             | /73                    | PLATZIERUNG<br>PLACEMENT<br>PLACEMENT     | 12.08.2015                 | Seifert             |
| /60                    | =S1 TYPENSCHILD<br>TYPE PLATE<br>PLAQUE SIGNALÉTIQUE                      | 05.08.2016                 | Seifert             | /74                    | PLATZIERUNG<br>PLACEMENT<br>PLACEMENT     | 12.08.2015                 | Seifert             |
| /61                    | =S5 GERÄTEANORDNUNG<br>LAYOUT OF EQUIPMENT<br>DISPOSITION DE L'EQUIPEMENT | 12.08.2015                 | Seifert             | /75                    | BMK-CODE<br>BMK-CODE<br>BMK-CODE          | 12.08.2015                 | Seifert             |
| /62                    | =P10 STEUERSTAND KST20<br>CONTROL STAND KST20<br>POSTE DE COMMANDE KST20  | 05.07.2016                 | Kurray              | /76                    | BMK-CODE<br>BMK-CODE<br>BMK-CODE          | 12.08.2015                 | Seifert             |
| /63                    | =S1 KLEMMENPLAN<br>TERMINAL PLAN<br>SCHEMA DES BORNES                     | 12.08.2015                 |                     |                        |   |                            |                     |
| /64                    | =S1 KLEMMENPLAN<br>TERMINAL PLAN<br>SCHEMA DES BORNES                     | 12.08.2015                 |                     |                        |   |                            |                     |
| /65                    | =S1 KLEMMENPLAN<br>TERMINAL PLAN<br>SCHEMA DES BORNES                     | 12.08.2015                 |                     |                        |   |                            |                     |
| /66                    | =S1 KLEMMENPLAN<br>TERMINAL PLAN<br>SCHEMA DES BORNES                     | 12.08.2015                 |                     |                        |   |                            |                     |
| /67                    | =S1 KLEMMENPLAN<br>TERMINAL PLAN<br>SCHEMA DES BORNES                     | 12.08.2015                 |                     |                        |   |                            |                     |
| /68                    | =S1 KLEMMENPLAN<br>TERMINAL PLAN<br>SCHEMA DES BORNES                     | 12.08.2015                 |                     |                        |   |                            |                     |
| /69                    | =S1 KLEMMENPLAN<br>TERMINAL PLAN<br>SCHEMA DES BORNES                     | 12.08.2015                 |                     |                        |   |                            |                     |
| /70                    | PLATZIERUNG<br>PLACEMENT<br>PLACEMENT                                     | 12.08.2015                 | Seifert             |                        |   |                            |                     |

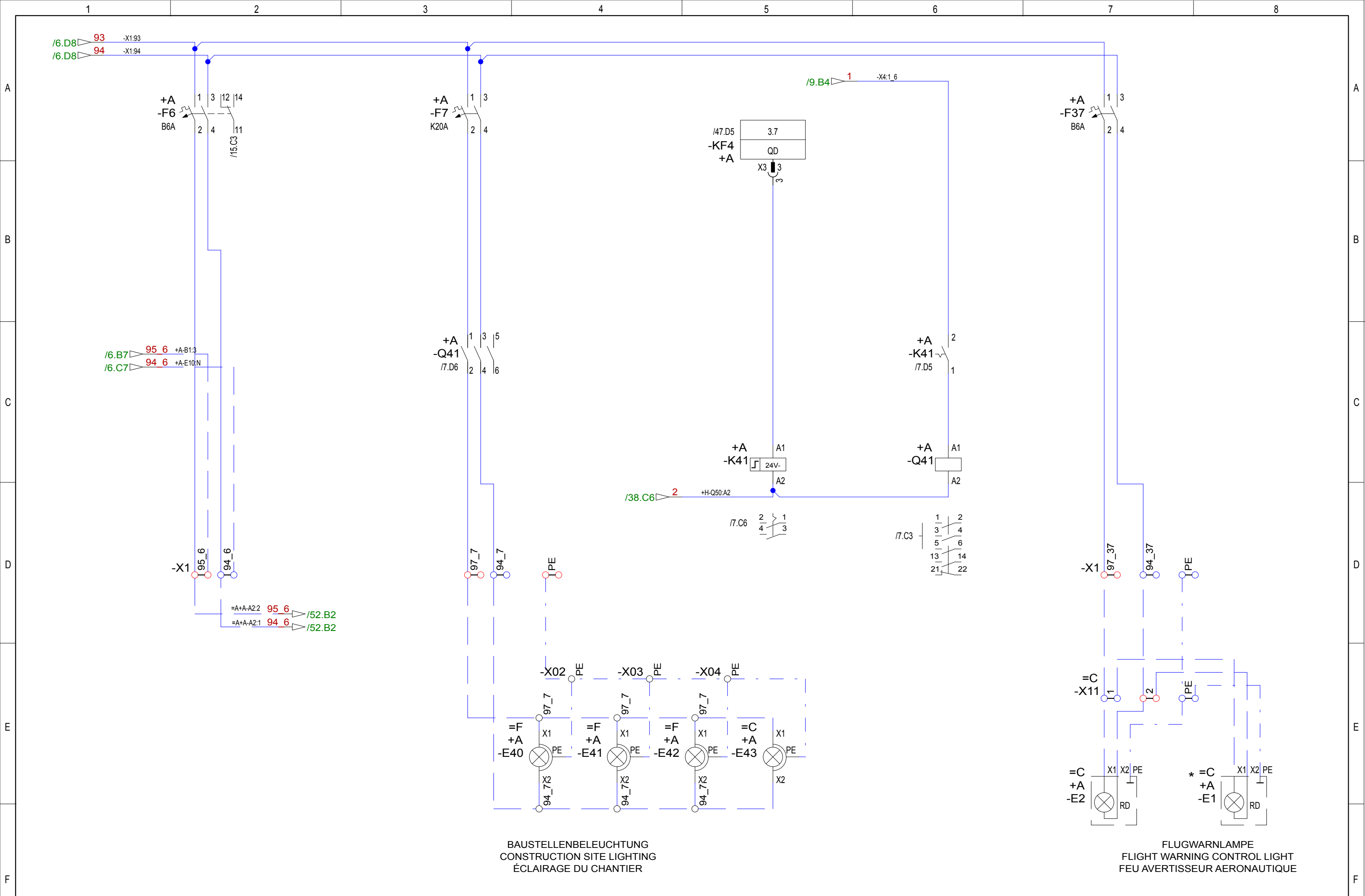
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|               |       |      | GEZEICHNET | 05.08.2016 |            | LIEBHERR  |            | Components |               | INHALTSVERZEICHNIS<br>LIST OF CONTENTS<br>SOMMAIRE |  | TYP              | 81K.1 |  | ANLAGE                |
|               |       |      | GEPRÜFT    | 22.02.2017 | Seifert W. |           |            |            |               |  |  |                  |       |  | ORT                   |
|               |       |      |            |            |            |           |            |            |               |  |  | ZEICHN.-NR       |       |  | BLATT 4 VON 76        |
| ÄNDERUNGS-NR. | DATUM | NAME |            | DATUM      | NAME       | ECN100915 | INDEX: 005 |            | Copyright (c) |  |  | 4005-23620-83620 |       |  | ARTIKEL-CODE 90213137 |



|               |       |      |            |            |            |           |            |            |               |  |  |            |                  |  |                       |          |
|---------------|-------|------|------------|------------|------------|-----------|------------|------------|---------------|--|--|------------|------------------|--|-----------------------|----------|
|               |       |      | GEZEICHNET | 12.08.2015 | Seifert    | LIEBHERR  |            | Components |               | STROMLAUFPLAN<br>WIRING DIAGRAM<br>SCHEMA ELECTRIQUE |  | TYP        | 81K.1            |  | ANLAGE                | =S1      |
|               |       |      | GEPRÜFT    | 22.02.2017 | Seifert W. |           |            |            |               |  |  |            |                  |  | ORT                   |          |
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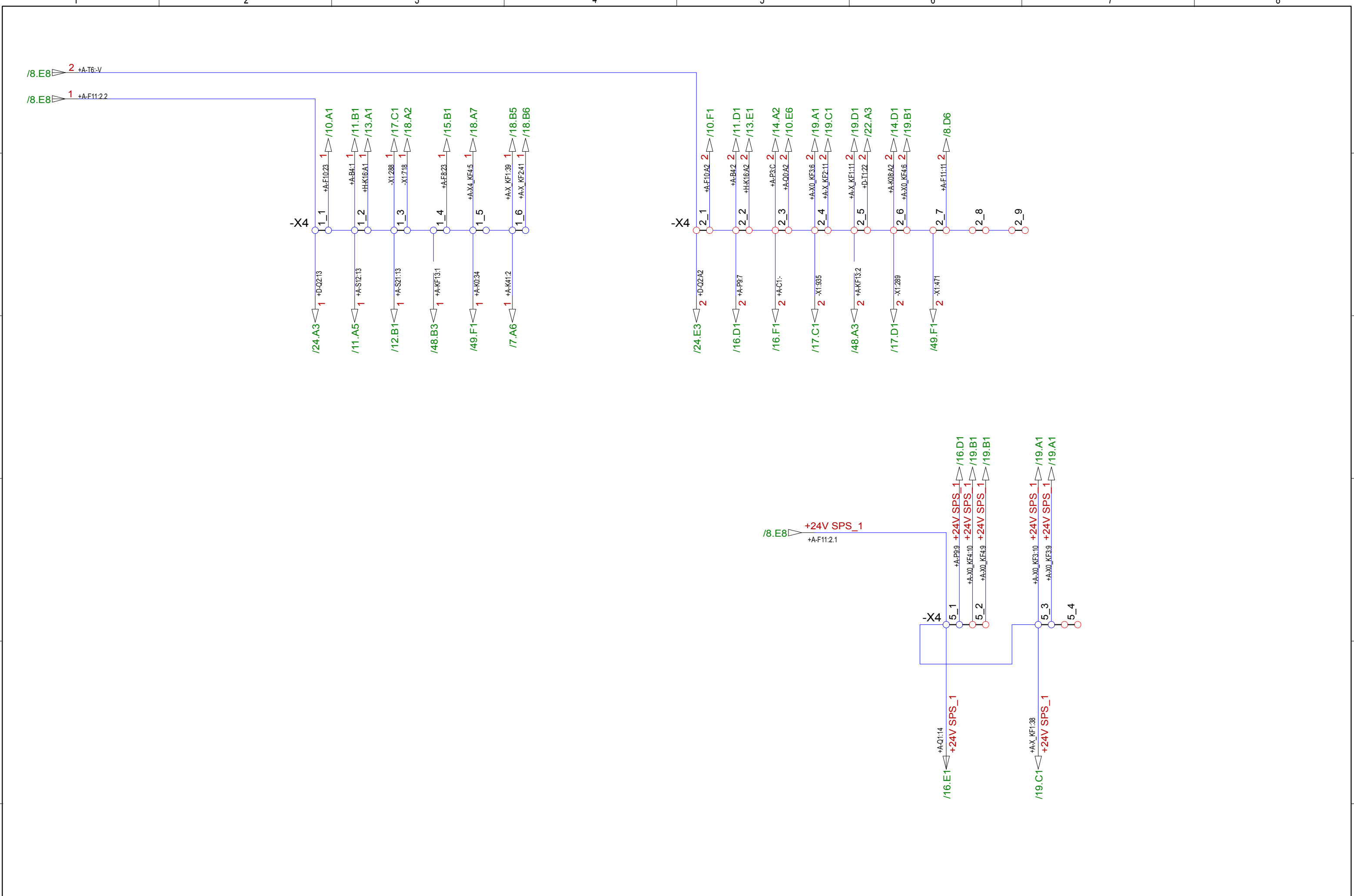


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| 20164550      | 08.07.2016 | Seifert Walt | GEZEICHNET | 12.08.2015 | Seifert    | LIEBHERR |  | Components | HEIZUNG<br>HEATING<br>CHAUFFAGE | TYP        | 81K.1      | ANLAGE        | =S1              |
| 20164762      | 02.08.2016 | Seifert Walt | GEPRÜFT    | 22.02.2017 | Seifert W. |          |  |            |                                 | ZEICHN.-NR |            | ORT           |                  |
| ÄNDERUNGS-NR. | DATUM      | NAME         |            | DATUM      | NAME       |          |  |            |                                 | ECN100915  | INDEX: 005 | Copyright (c) | 4005-23620-83620 |

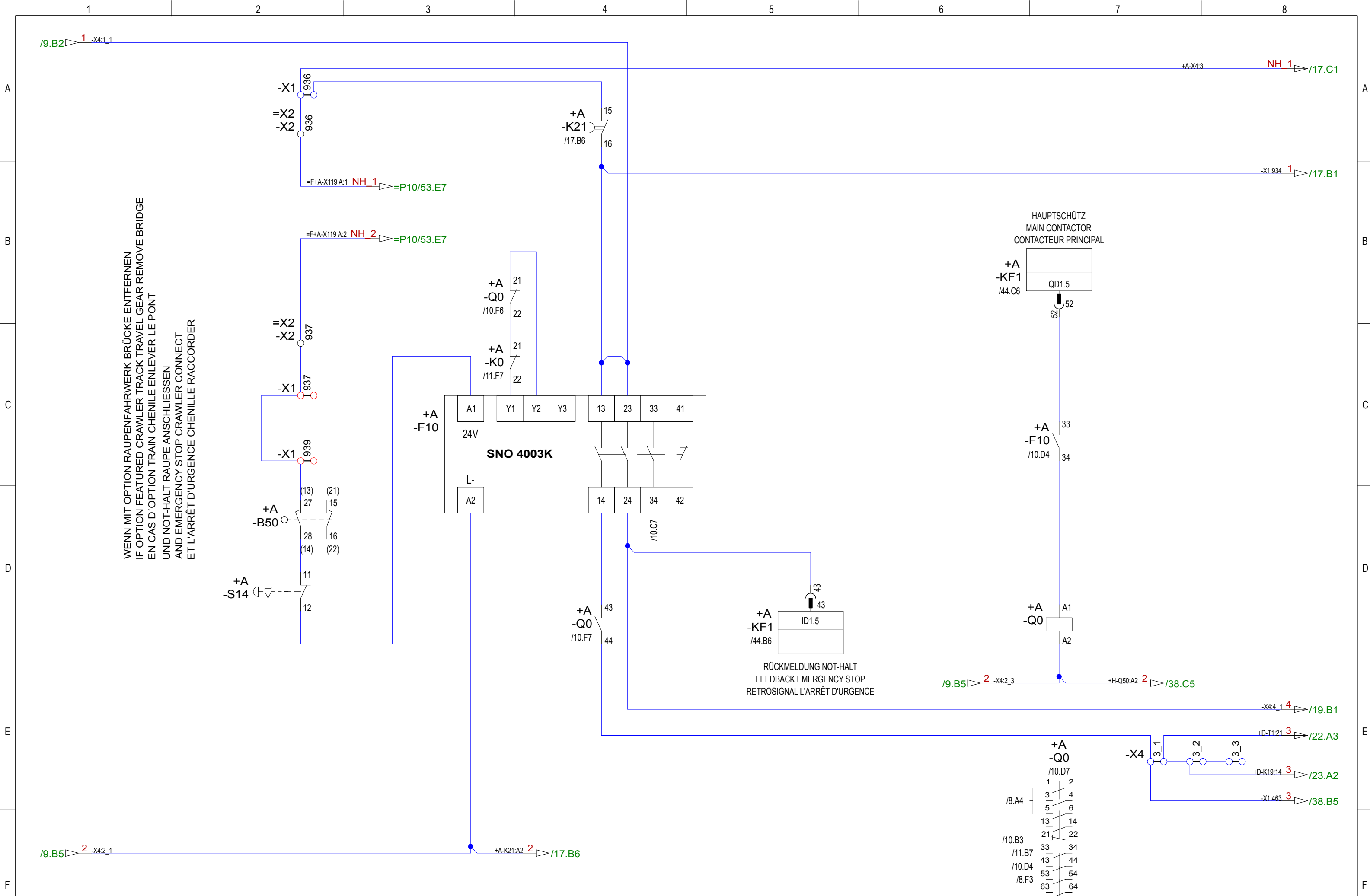


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| 20164550      | 08.07.2016 | Seifert Walt | GEZEICHNET | 17.05.2016 | Seifert    | LIEBHERR  |            | Copyright (c) | BELEUCHTUNG<br>LIGHTING<br>ÉCLAIRAGE | TYP<br><br>81K.1                       | ANLAGE =S1     |  |
|               |            |              | GEPRÜFT    | 22.02.2017 | Seifert W. |           |            |               |                                      |  | ORT            |  |
|               |            |              | FREIGABE   | 17.10.2016 | Stoehr_R   |           |            |               |                                      |  | BLATT 7 VON 76 |  |
| ÄNDERUNGS-NR. | DATUM      | NAME         |            | DATUM      | NAME       | ECN100915 | INDEX: 4.0 |               |                                      | ZEICHN.-NR<br>4005-23620-83620-005-ELI | ARTIKEL-CODE   |  |
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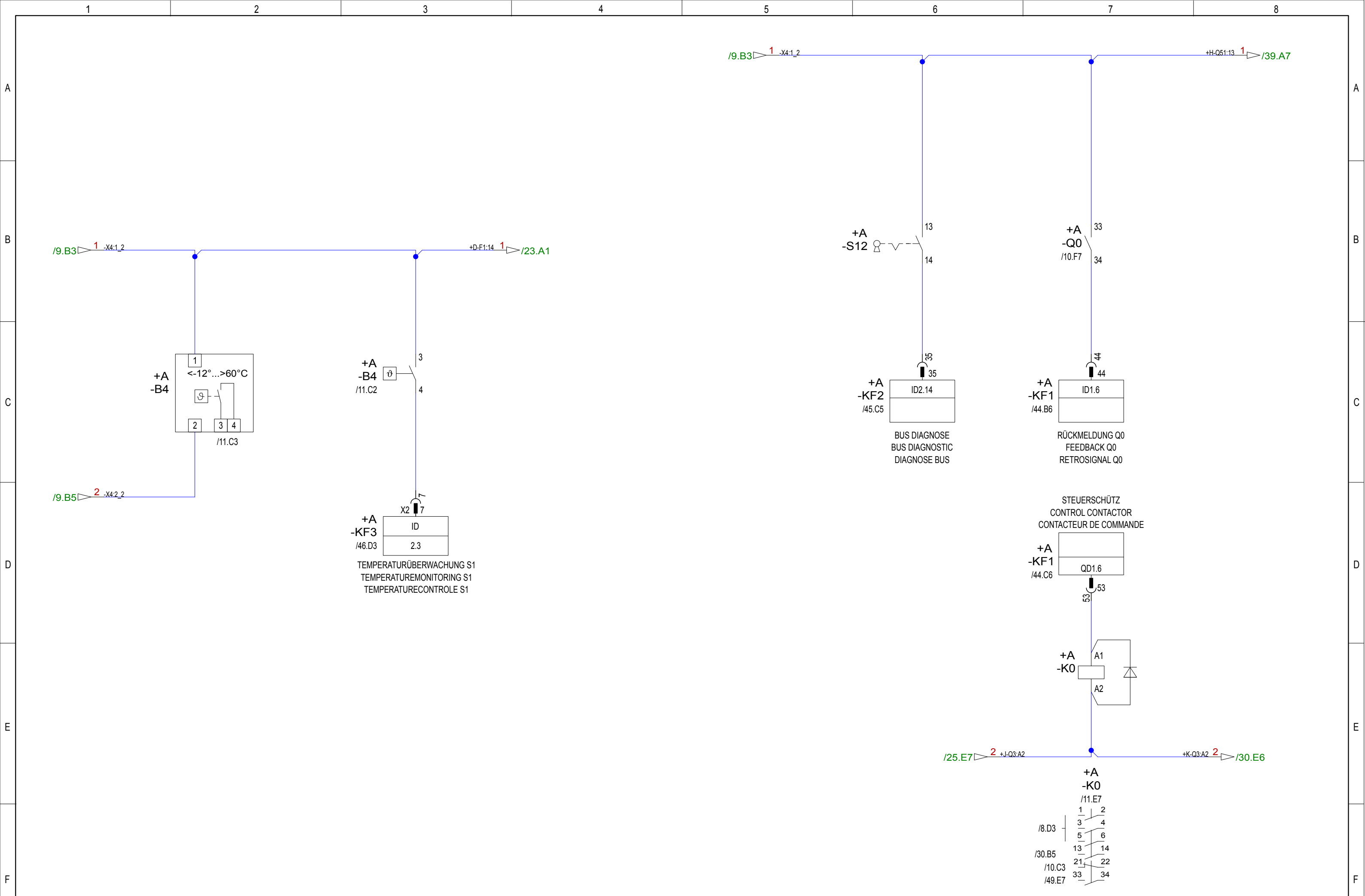




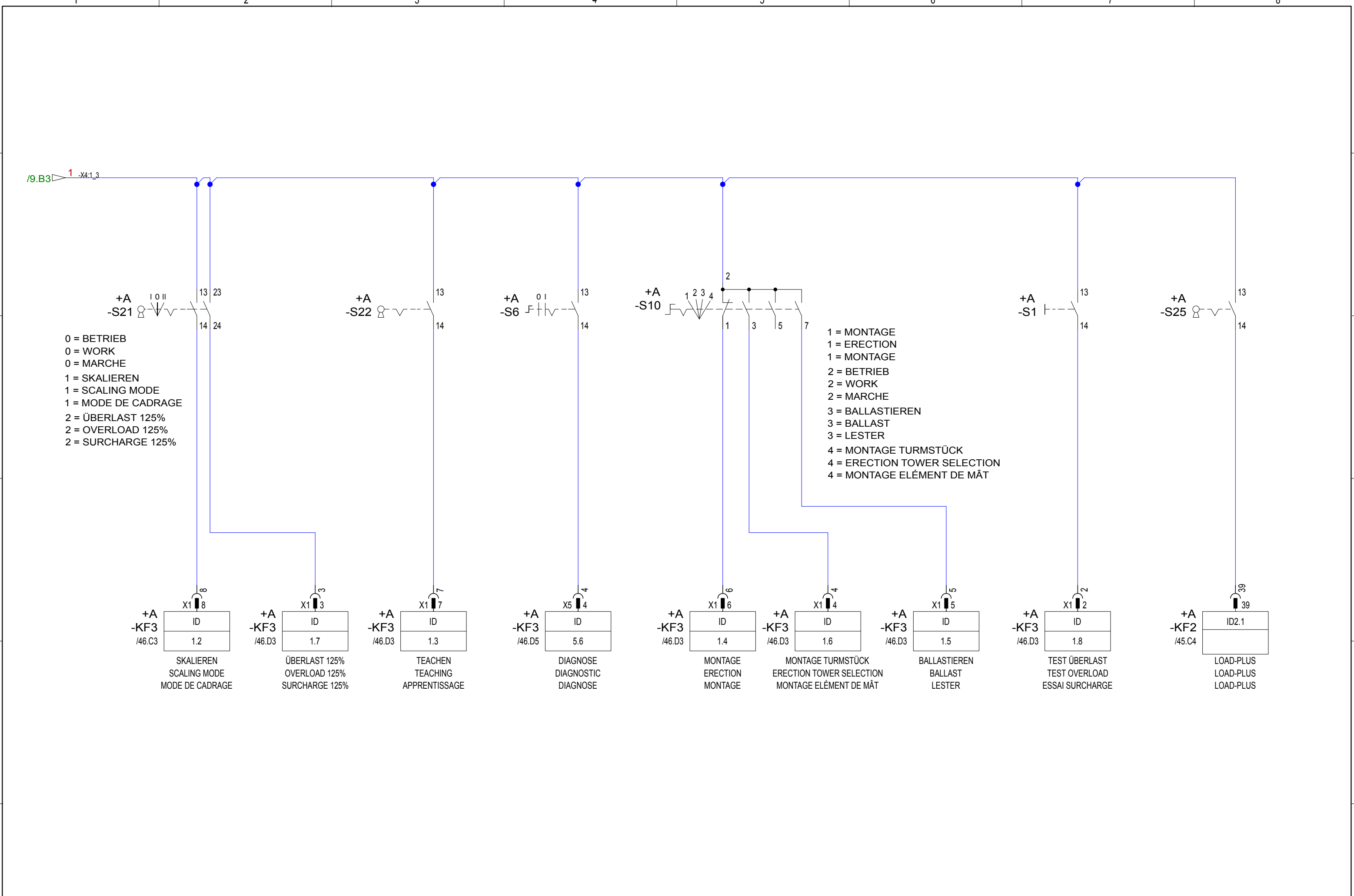
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|               |       |      | GEPRÜFT    | 22.02.2017 | Seifert W. |           |            |               |  |  |  |            |                  |  | ORT          |          |
| ÄNDERUNGS-NR. | DATUM | NAME |            | DATUM      | NAME       |           |            |               |  |  |  | ZEICHN.-NR | 4005-23620-83620 |  | BLATT        | 9 VON 76 |
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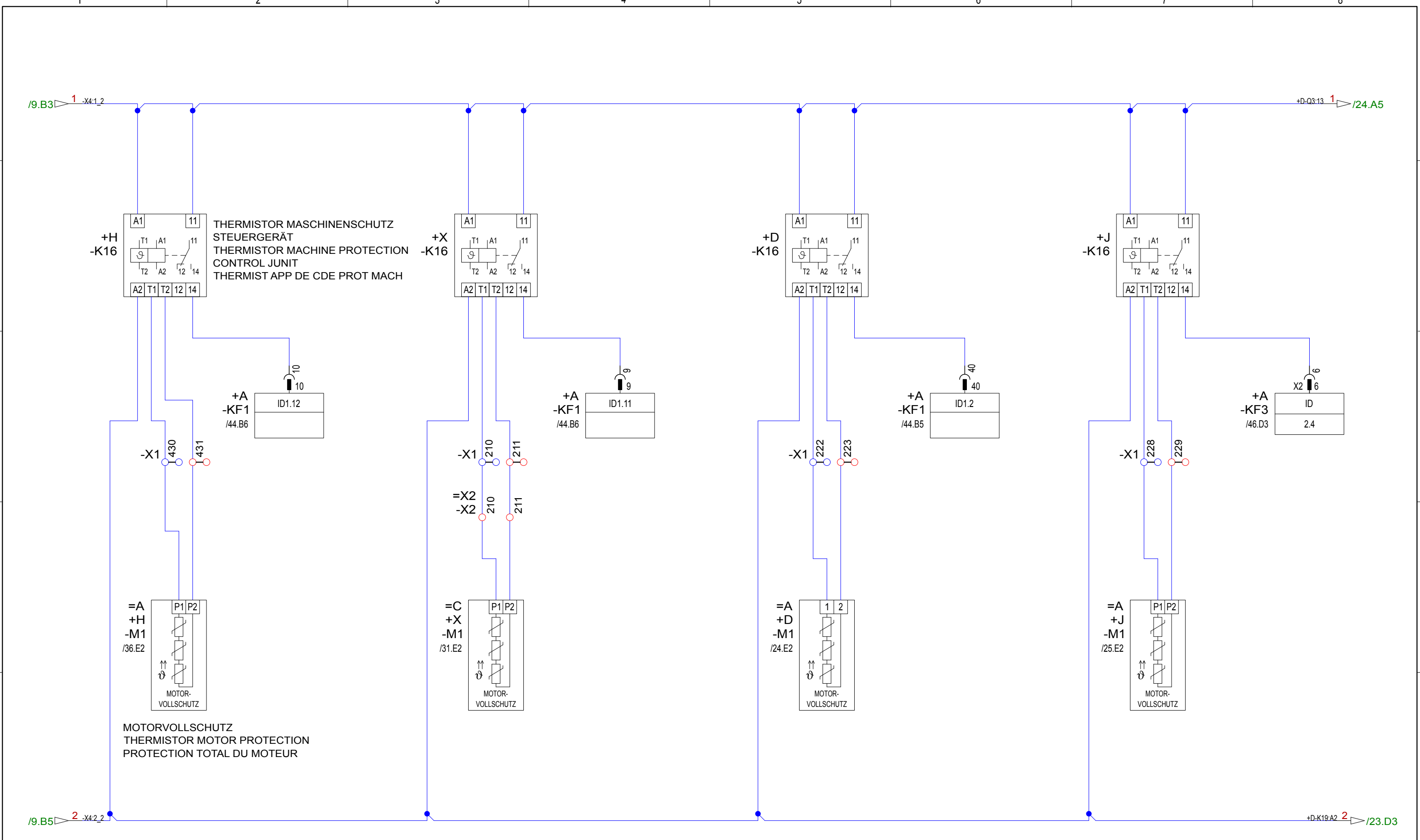
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| 20164550      | 08.07.2016 | Seifert Walt | GEZEICHNET | 12.08.2015 | Seifert    | LIEBHERR  |            | Components    | NOT-HALT<br>EMERGENCY STOP<br>L'ARRÊT D'URGENCE | TYP<br><br>81K.1               | ANLAGE       | =S1       |
|               |            |              | GEPRÜFT    | 22.02.2017 | Seifert W. |           |            |               |   |                                | ORT          |           |
|               |            |              |            |            |            |           |            |               |   |                                | BLATT        | 10 VON 76 |
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|               |       |      |            |            |            |           |            |               |  |  |  |            |                  |  |                       |           |
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|               |       |      | GEZEICHNET | 12.08.2015 | Seifert    | LIEBHERR  |            | Components    |  | STROMLAUFPLAN<br>WIRING DIAGRAM<br>SCHEMA ELECTRIQUE |  | TYP        | 81K.1            |  | ANLAGE                | =S1       |
|               |       |      | GEPRÜFT    | 22.02.2017 | Seifert W. |           |            |               |  |  |  |            |                  |  | ORT                   |           |
|               |       |      |            |            |            |           |            |               |  |  |  | ZEICHN.-NR | 4005-23620-83620 |  | BLATT                 | 11 VON 76 |
| ÄNDERUNGS-NR. | DATUM | NAME |            | DATUM      | NAME       | ECN100915 | INDEX: 005 | Copyright (c) |  |  |  |            |                  |  | ARTIKEL-CODE 90213137 |           |



|               |       |      |            |            |            |           |            |            |               |   |  |            |                  |  |                       |  |
|---------------|-------|------|------------|------------|------------|-----------|------------|------------|---------------|---|--|------------|------------------|--|-----------------------|--|
|               |       |      | GEZEICHNET | 12.08.2015 | Seifert    | LIEBHERR  |            | Components |               | BEDIENUNGSTABLEAU<br>CONTROL TABLE<br>TABLEAU DE COMMANDE |  | TYP        | 81K.1            |  | ANLAGE =S1            |  |
|               |       |      | GEPRÜFT    | 22.02.2017 | Seifert W. |           |            |            |               |   |  | ORT        |                  |  |                       |  |
|               |       |      |            |            |            |           |            |            |               |   |  | ZEICHN.-NR | 4005-23620-83620 |  | BLATT 12 VON 76       |  |
| ÄNDERUNGS-NR. | DATUM | NAME |            | DATUM      | NAME       | ECN100915 | INDEX: 005 |            | Copyright (c) |   |  |            |                  |  | ARTIKEL-CODE 90213137 |  |



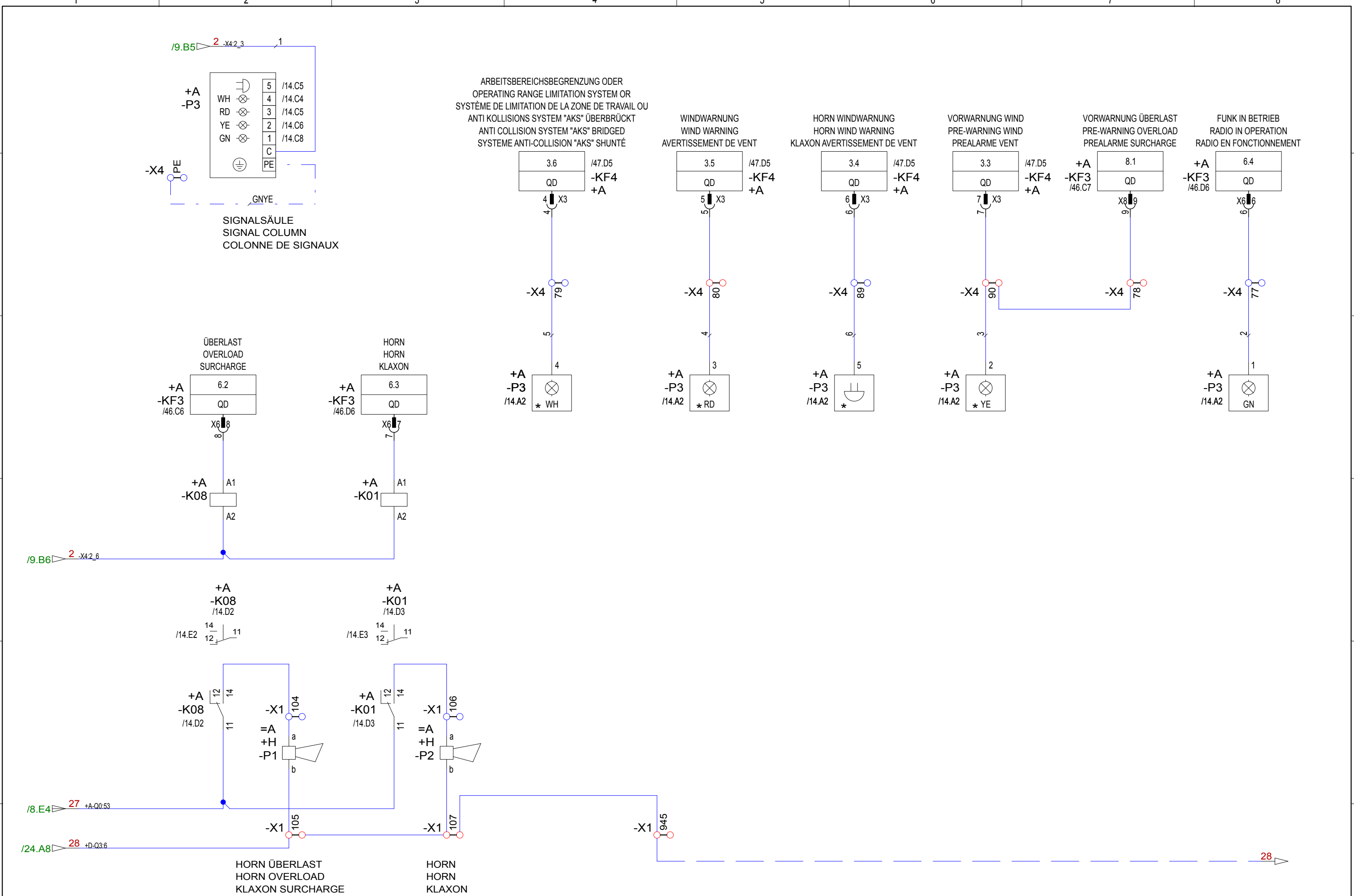
HUBWERK  
HOIST GEAR  
MÉC.DE LEVAGE

HILFSHUBWERK  
AUXILIARY HOIST GEAR  
MEC.DE LEVAGE AUXILIAIRE

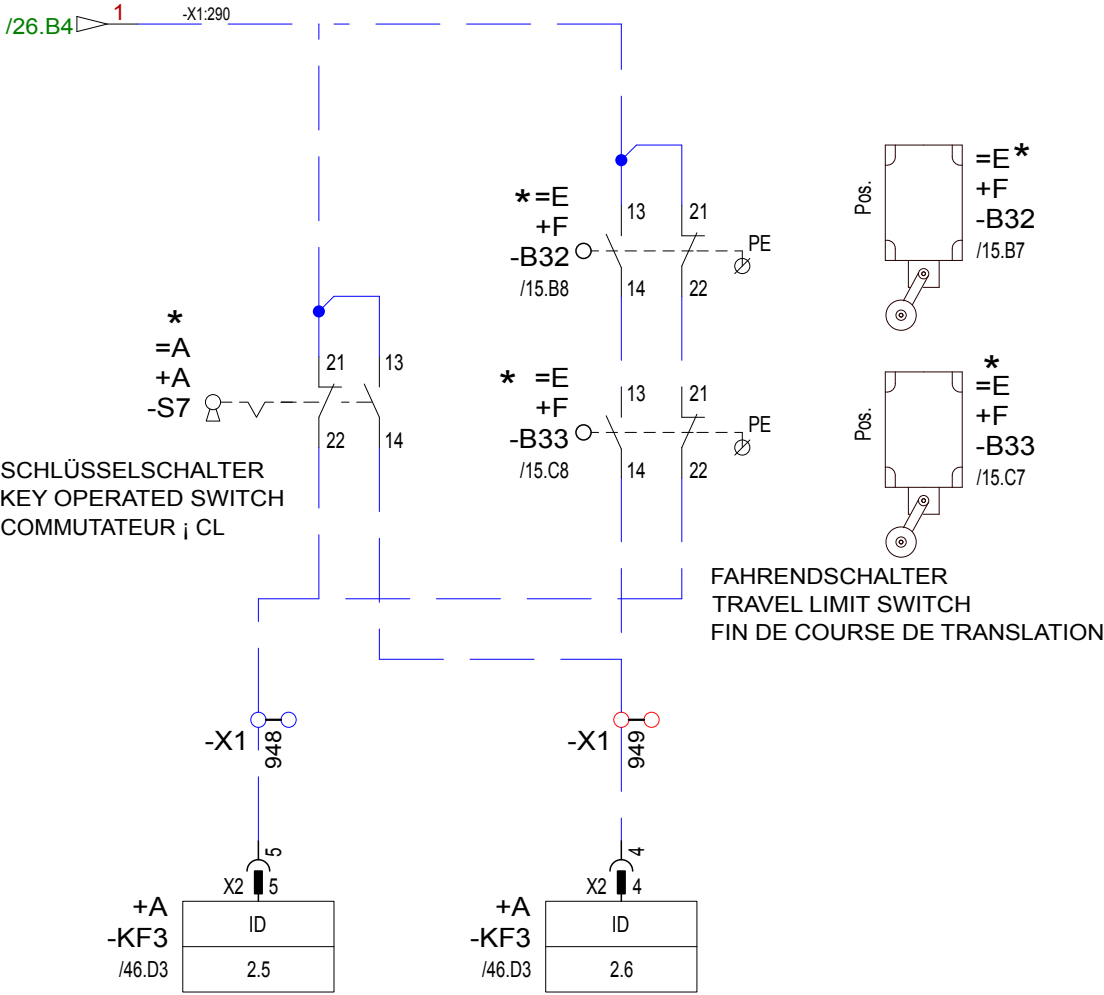
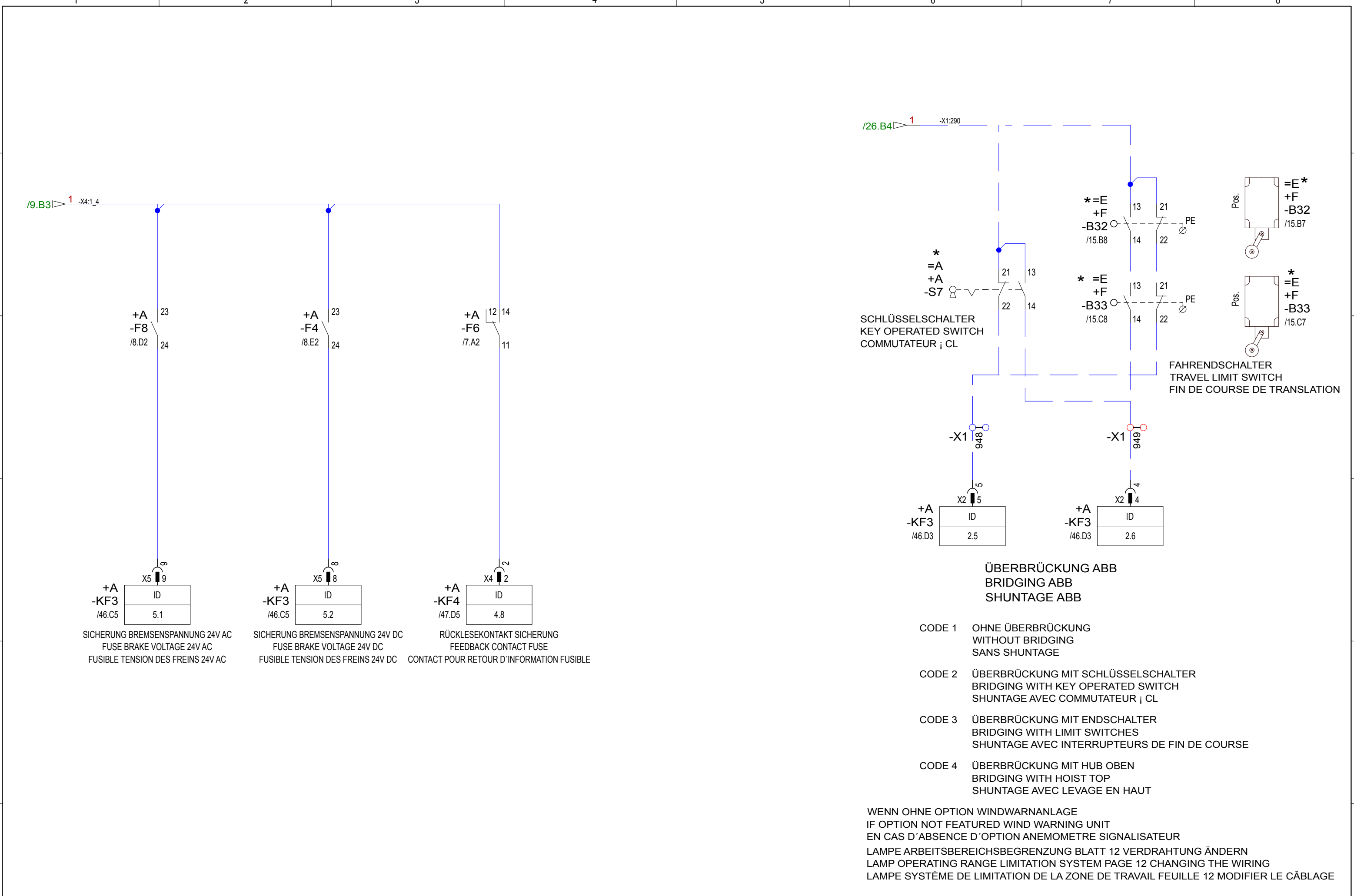
DREHWERK  
SLEWING GEAR  
MÉC.D'ORIENTATION

MONTAGEWERK  
ERECTION GEAR  
MECANISME DE MONTAGE

|               |       |      |            |            |            |           |            |               |  |  |  |            |                  |  |                       |           |
|---------------|-------|------|------------|------------|------------|-----------|------------|---------------|--|--|--|------------|------------------|--|-----------------------|-----------|
|               |       |      | GEZEICHNET | 12.08.2015 | Seifert    | LIEBHERR  |            | Components    |  | MOTORVOLLSCHUTZ<br>THERMISTOR MOTOR PROTECTION<br>PROTECTION TOTAL DU MOTEUR |  | TYP        | 81K.1            |  | ANLAGE                | =S1       |
|               |       |      | GEPRÜFT    | 22.02.2017 | Seifert W. |           |            |               |  |  |  |            |                  |  | ORT                   |           |
|               |       |      |            |            |            |           |            |               |  |  |  | ZEICHN.-NR | 4005-23620-83620 |  | BLATT                 | 13 VON 76 |
| ÄNDERUNGS-NR. | DATUM | NAME |            | DATUM      | NAME       | ECN100915 | INDEX: 005 | Copyright (c) |  |  |  |            |                  |  | ARTIKEL-CODE 90213137 |           |



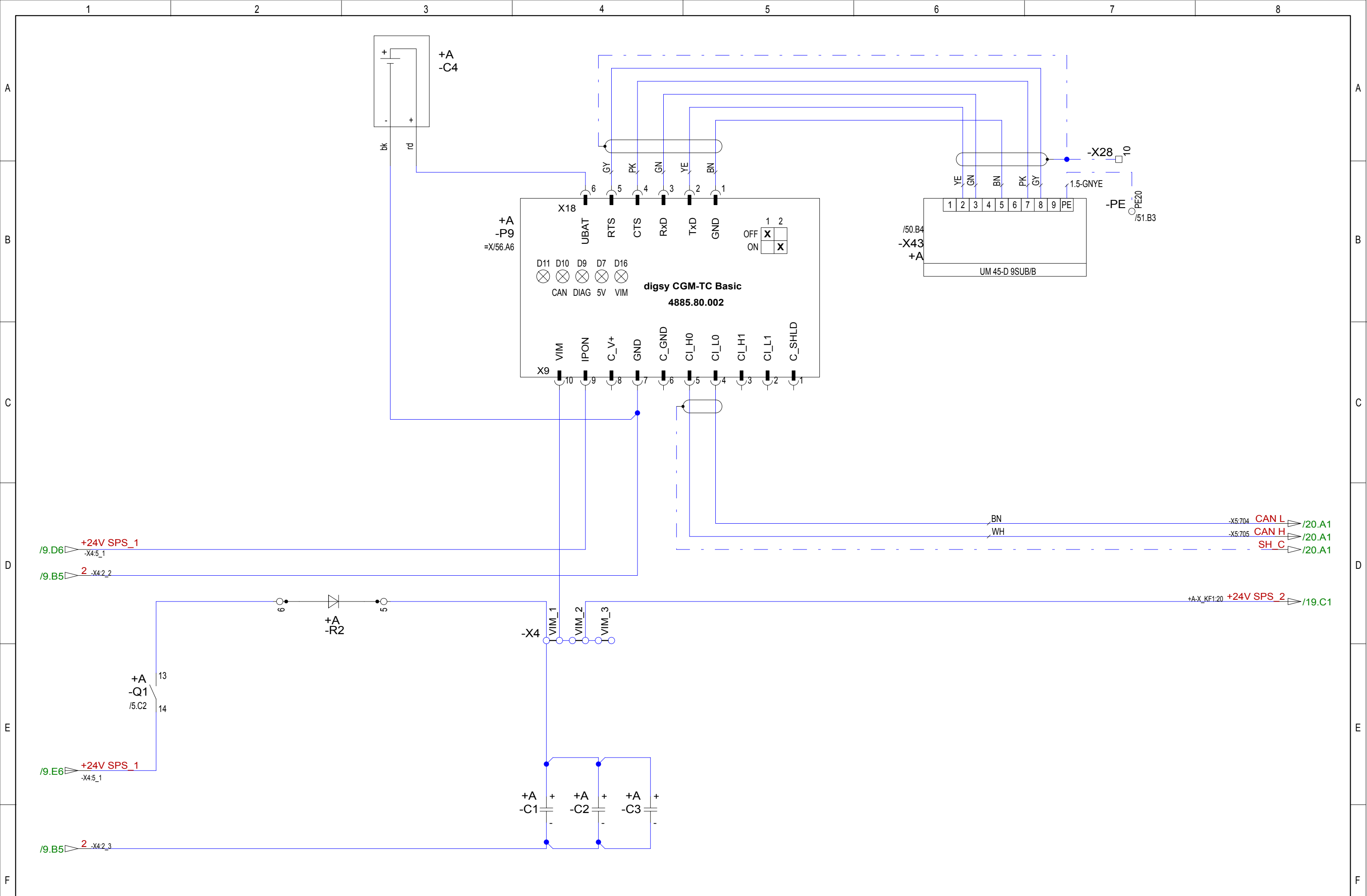
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|---------------|-------|------|------------|------------|------------|-----------|------------|------------|---------------|--|--|-----|-------|------------|-----------------------|------------------|
|               |       |      | GEZEICHNET | 12.08.2015 | Seifert    | LIEBHERR  |            | Components |               | SIGNALSÄULE<br>SIGNAL COLUMN<br>COLONNE DE SIGNAUX |  | TYP | 81K.1 |            | ANLAGE =S1            |                  |
|               |       |      | GEPRÜFT    | 22.02.2017 | Seifert W. |           |            |            |               |  |  |     |       | ORT        |                       |                  |
|               |       |      |            |            |            |           |            |            |               |  |  |     |       | ZEICHN.-NR |                       | 4005-23620-83620 |
| ÄNDERUNGS-NR. | DATUM | NAME |            | DATUM      | NAME       | ECN100915 | INDEX: 005 |            | Copyright (c) |  |  |     |       |            | ARTIKEL-CODE 90213137 |                  |



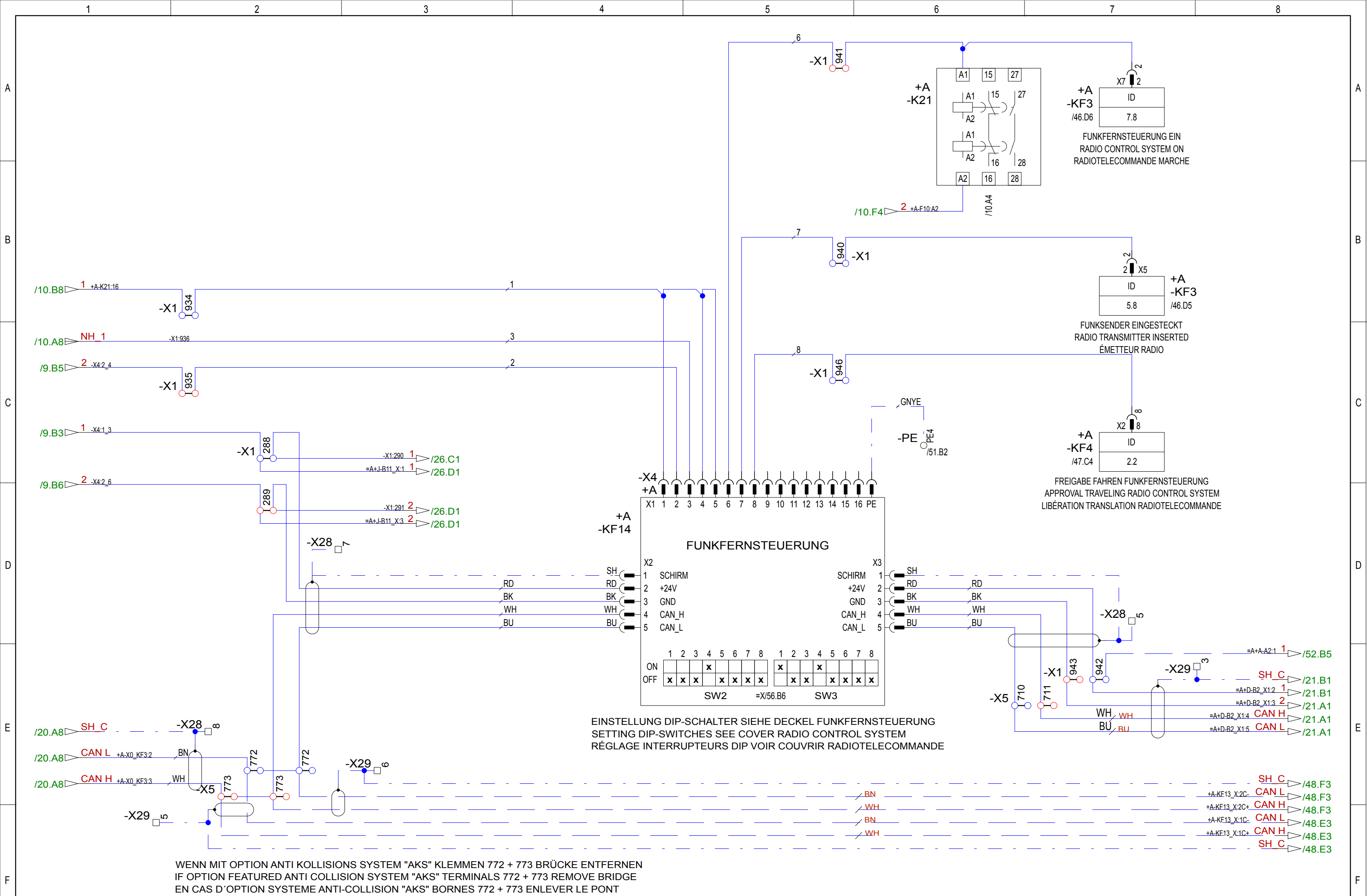
- CODE 1 OHNE ÜBERBRÜCKUNG  
WITHOUT BRIDGING  
SANS SHUNTAGE
- CODE 2 ÜBERBRÜCKUNG MIT SCHLÜSSELSCHALTER  
BRIDGING WITH KEY OPERATED SWITCH  
SHUNTAGE AVEC COMMUTATEUR i CL
- CODE 3 ÜBERBRÜCKUNG MIT ENDSCHALTER  
BRIDGING WITH LIMIT SWITCHES  
SHUNTAGE AVEC INTERRUPTEURS DE FIN DE COURSE
- CODE 4 ÜBERBRÜCKUNG MIT HUB OBEN  
BRIDGING WITH HOIST TOP  
SHUNTAGE AVEC LEVAGE EN HAUT

WENN OHNE OPTION WINDWARNANLAGE  
IF OPTION NOT FEATURED WIND WARNING UNIT  
EN CAS D'ABSENCE D'OPTION ANEMOMETRE SIGNALISATEUR  
LAMPE ARBEITSBEREICHSBEGRENZUNG BLATT 12 VERDRAHTUNG ÄNDERN  
LAMP OPERATING RANGE LIMITATION SYSTEM PAGE 12 CHANGING THE WIRING  
LAMPE SYSTÈME DE LIMITATION DE LA ZONE DE TRAVAIL FEUILLE 12 MODIFIER LE CÂBLAGE

|               |       |      |            |            |            |           |            |               |  |  |  |     |       |            |                  |              |           |
|---------------|-------|------|------------|------------|------------|-----------|------------|---------------|--|--|--|-----|-------|------------|------------------|--------------|-----------|
|               |       |      | GEZEICHNET | 12.08.2015 | Seifert    | LIEBHERR  |            | Components    |  | STROMLAUFPLAN<br>WIRING DIAGRAM<br>SCHEMA ELECTRIQUE |  | TYP | 81K.1 | ANLAGE     | =S1              |              |           |
|               |       |      | GEPRÜFT    | 22.02.2017 | Seifert W. |           |            |               |  |  |  |     |       | ORT        |                  |              |           |
|               |       |      |            |            |            |           |            |               |  |  |  |     |       | ZEICHN.-NR | 4005-23620-83620 | BLATT        | 15 VON 76 |
| ÄNDERUNGS-NR. | DATUM | NAME |            | DATUM      | NAME       | ECN100915 | INDEX: 005 | Copyright (c) |  |  |  |     |       |            |                  | ARTIKEL-CODE | 90213137  |

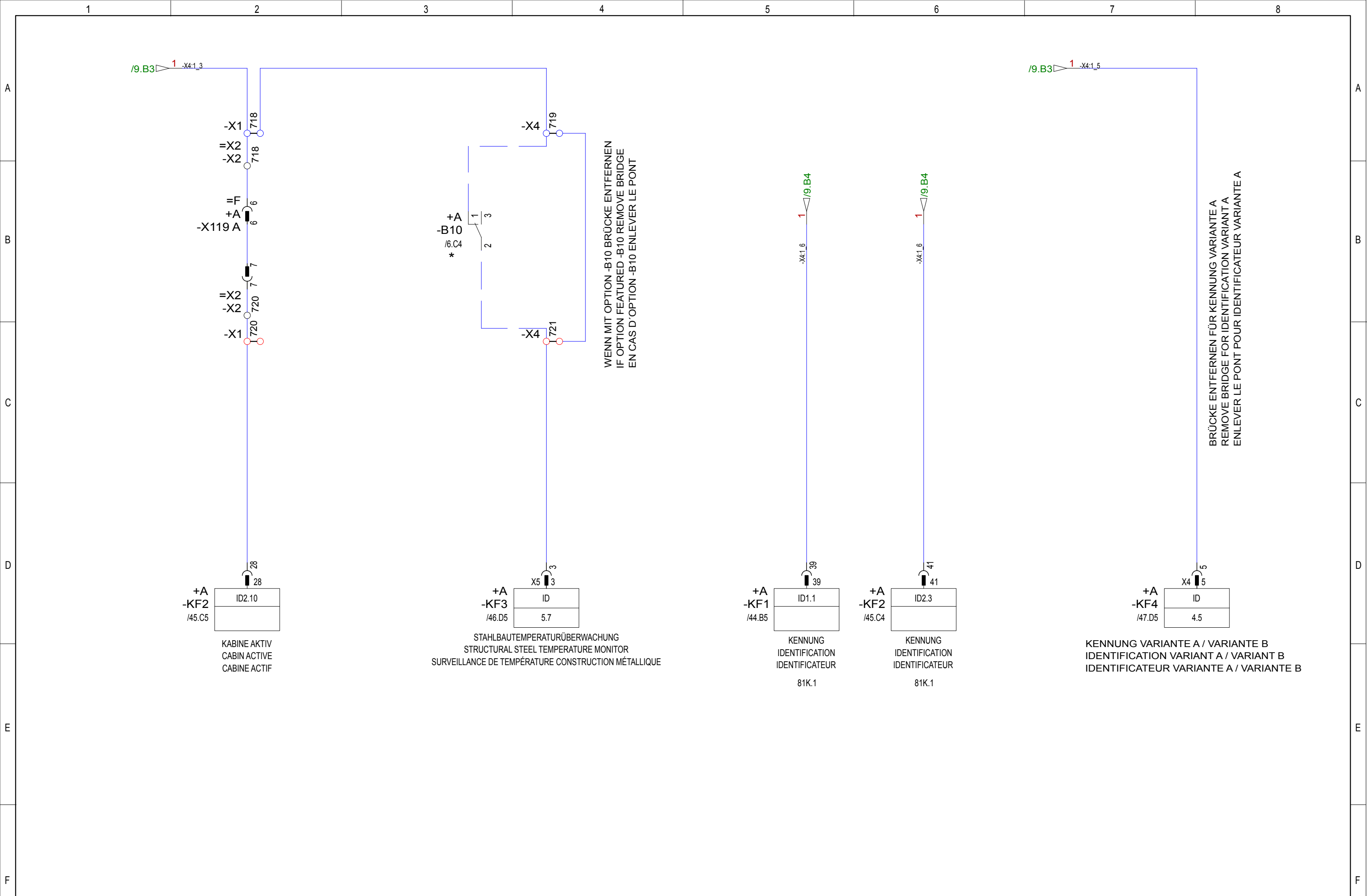


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|---------------|-------|------|------------|------------|------------|-----------|------------|------------|---------------|---------------------------------|--|------------|------------------|-----------------------|-----------|
|               |       |      | GEZEICHNET | 12.08.2015 | Seifert    | LIEBHERR  |            | Components |               | DISPLAY<br>DISPLAY<br>AFFICHAGE |  | TYP        | 81K.1            | ANLAGE                | =S1       |
|               |       |      | GEPRÜFT    | 22.02.2017 | Seifert W. |           |            |            |               |                                 |  | ORT        |                  |                       |           |
|               |       |      |            |            |            |           |            |            |               |                                 |  | ZEICHN.-NR | 4005-23620-83620 | BLATT                 | 16 VON 76 |
| ÄNDERUNGS-NR. | DATUM | NAME |            | DATUM      | NAME       | ECN100915 | INDEX: 005 |            | Copyright (c) |                                 |  |            |                  | ARTIKEL-CODE 90213137 |           |

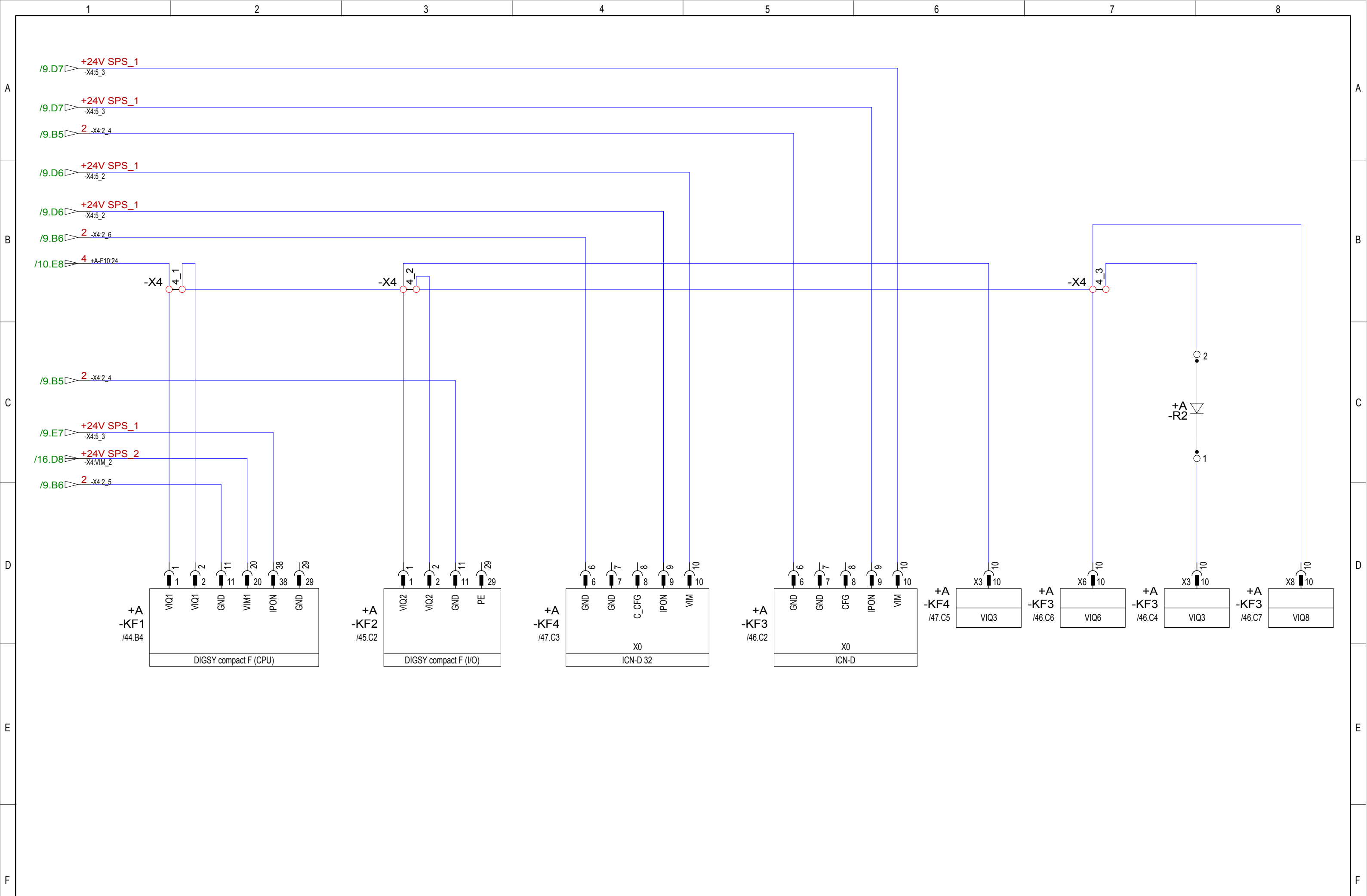


WENN MIT OPTION ANTI KOLLISIONS SYSTEM "AKS" KLEMMEN 772 + 773 BRÜCKE ENTFERNEN  
IF OPTION FEATURED ANTI COLLISION SYSTEM "AKS" TERMINALS 772 + 773 REMOVE BRIDGE  
EN CAS D'OPTION SYSTEME ANTI-COLLISION "AKS" BORNES 772 + 773 ENLEVER LE PONT

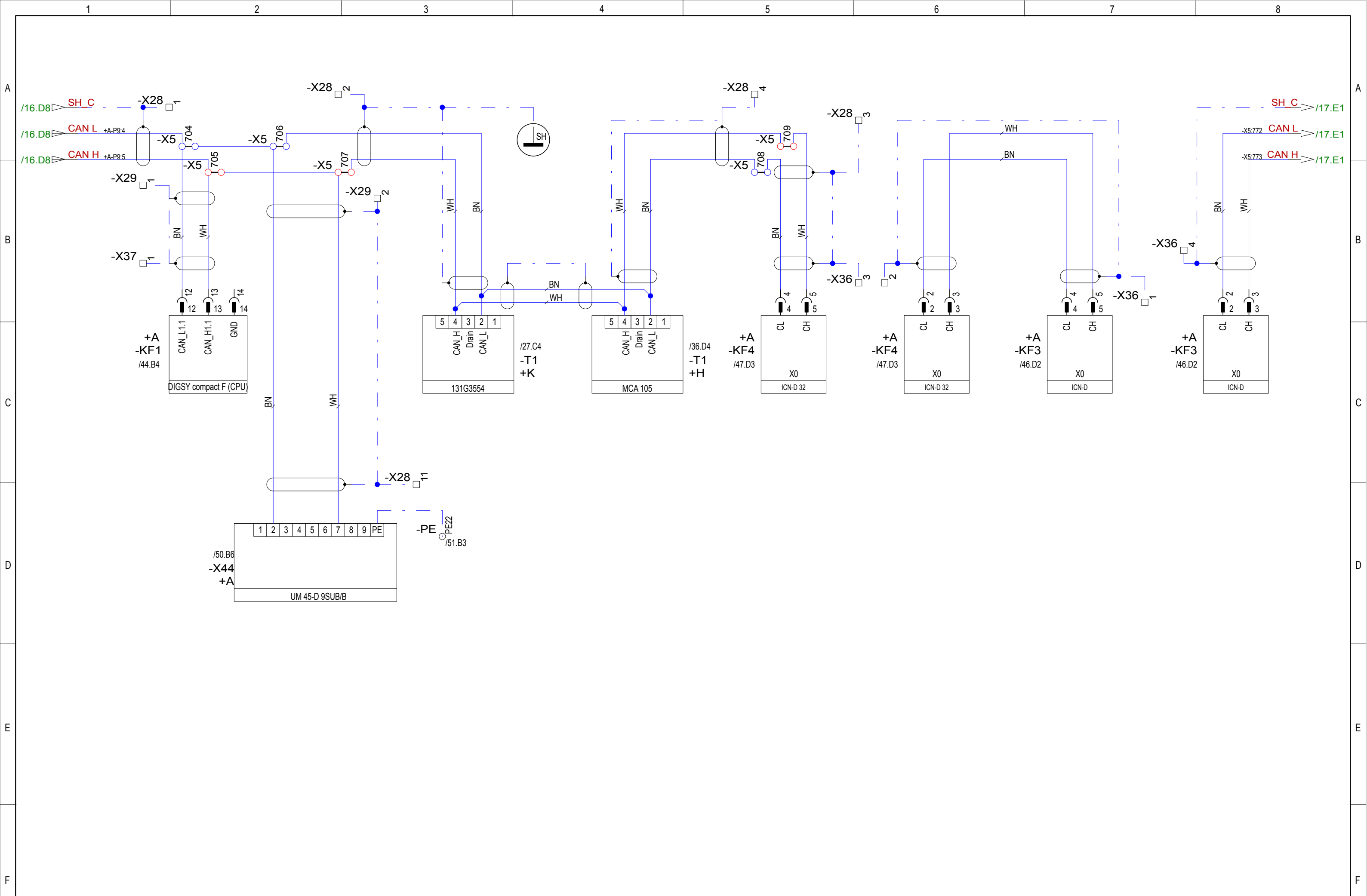
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|---------------|-------|------|------------|------------|------------|-----------------|------------|-------------------|---------------|---|--|------------|------------------|--|--------------|-----------|
|               |       |      | GEZEICHNET | 12.08.2015 | Seifert    | <b>LIEBHERR</b> |            | <b>Components</b> |               | FUNKANSCHLUSS<br>RADIO CONNECTION<br>RACCORDEMENT RADIO |  | TYP        | 81K.1            |  | ANLAGE       | =S1       |
|               |       |      | GEPRÜFT    | 22.02.2017 | Seifert W. |                 |            |                   |               |   |  | ZEICHN.-NR | 4005-23620-83620 |  | ORT          |           |
| ÄNDERUNGS-NR. | DATUM | NAME |            | DATUM      | NAME       | ECN100915       | INDEX: 005 |                   | Copyright (c) |   |  |            |                  |  | BLATT        | 17 VON 76 |
| 1             |       |      |            | 2          |            | 3               |            |                   |               |   |  |            |                  |  | ARTIKEL-CODE | 90213137  |



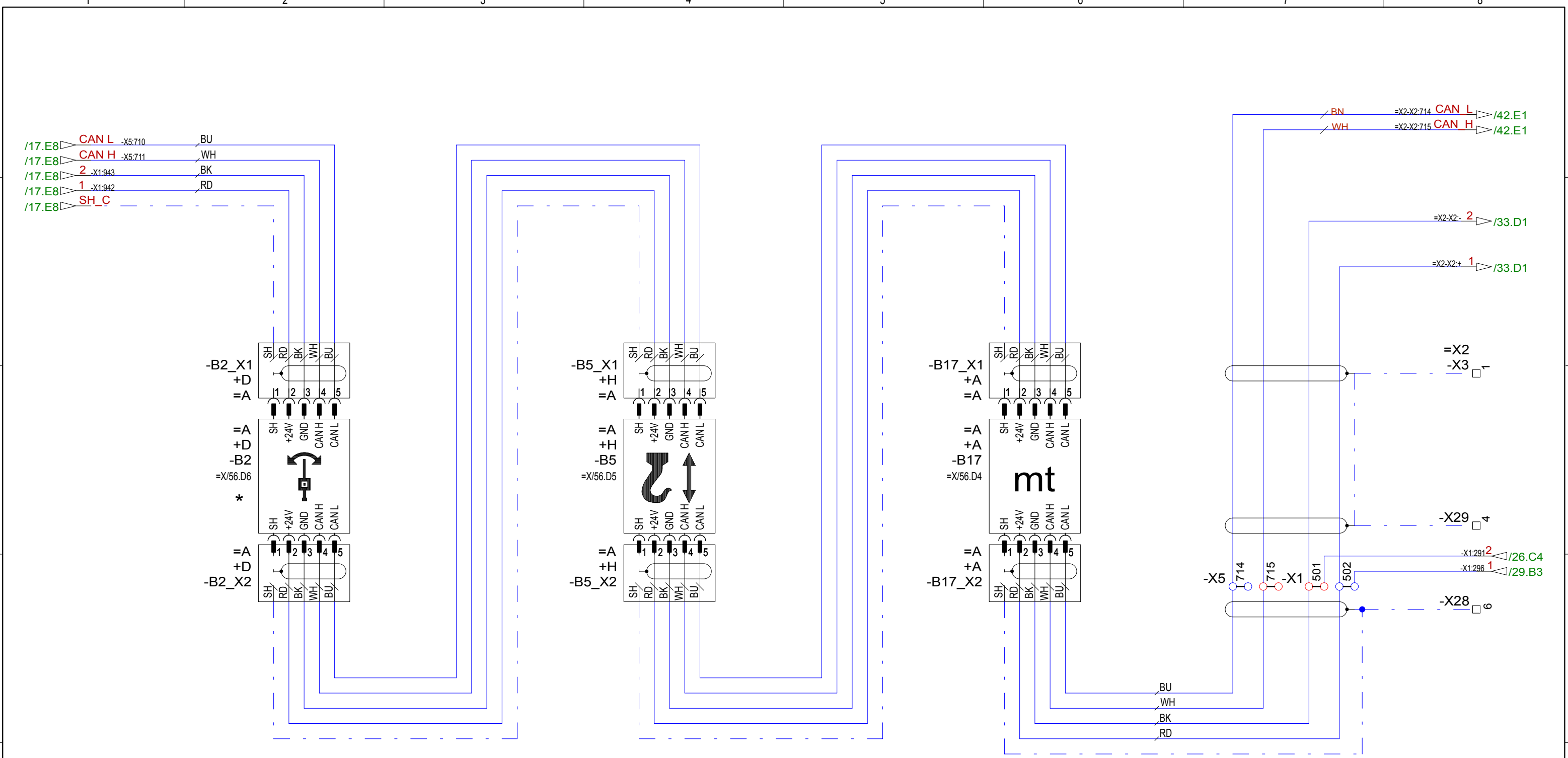
|               |            |              |            |            |            |           |            |               |  |                                   |  |            |                  |  |                       |           |
|---------------|------------|--------------|------------|------------|------------|-----------|------------|---------------|--|-----------------------------------|--|------------|------------------|--|-----------------------|-----------|
| 20164550      | 08.07.2016 | Seifert Walt | GEZEICHNET | 12.08.2015 | Seifert    | LIEBHERR  |            | Components    |  | EINSTELLUNG<br>SETTING<br>RÉGLAGE |  | TYP        | 81K.1            |  | ANLAGE                | =S1       |
|               |            |              | GEPRÜFT    | 22.02.2017 | Seifert W. |           |            |               |  |                                   |  |            |                  |  | ORT                   |           |
|               |            |              |            |            |            |           |            |               |  |                                   |  | ZEICHN.-NR | 4005-23620-83620 |  | BLATT                 | 18 VON 76 |
| ÄNDERUNGS-NR. | DATUM      | NAME         |            | DATUM      | NAME       | ECN100915 | INDEX: 005 | Copyright (c) |  |                                   |  |            |                  |  | ARTIKEL-CODE 90213137 |           |



|               |       |      |            |            |            |           |            |               |  |                   |  |            |                  |  |              |           |
|---------------|-------|------|------------|------------|------------|-----------|------------|---------------|--|-------------------|--|------------|------------------|--|--------------|-----------|
|               |       |      | GEZEICHNET | 12.08.2015 | Seifert    | LIEBHERR  |            | Components    |  | SPS<br>PLC<br>CPM |  | TYP        | 81K.1            |  | ANLAGE       | =S1       |
|               |       |      | GEPRÜFT    | 22.02.2017 | Seifert W. |           |            |               |  |                   |  |            |                  |  | ORT          |           |
| ÄNDERUNGS-NR. | DATUM | NAME |            | DATUM      | NAME       |           |            |               |  |                   |  | ZEICHN.-NR | 4005-23620-83620 |  | BLATT        | 19 VON 76 |
|               |       |      |            |            |            | ECN100915 | INDEX: 005 | Copyright (c) |  |                   |  |            |                  |  | ARTIKEL-CODE | 90213137  |



|               |       |      |            |            |            |           |            |               |  |                   |  |            |                  |  |              |           |
|---------------|-------|------|------------|------------|------------|-----------|------------|---------------|--|-------------------|--|------------|------------------|--|--------------|-----------|
|               |       |      | GEZEICHNET | 12.08.2015 | Seifert    | LIEBHERR  |            | Components    |  | SPS<br>PLC<br>CPM |  | TYP        | 81K.1            |  | ANLAGE       | =S1       |
|               |       |      | GEPRÜFT    | 22.02.2017 | Seifert W. |           |            |               |  |                   |  |            |                  |  | ORT          |           |
| ÄNDERUNGS-NR. | DATUM | NAME |            | DATUM      | NAME       |           |            |               |  |                   |  | ZEICHN.-NR | 4005-23620-83620 |  | BLATT        | 20 VON 76 |
|               |       |      |            |            |            | ECN100915 | INDEX: 005 | Copyright (c) |  |                   |  |            |                  |  | ARTIKEL-CODE | 90213137  |

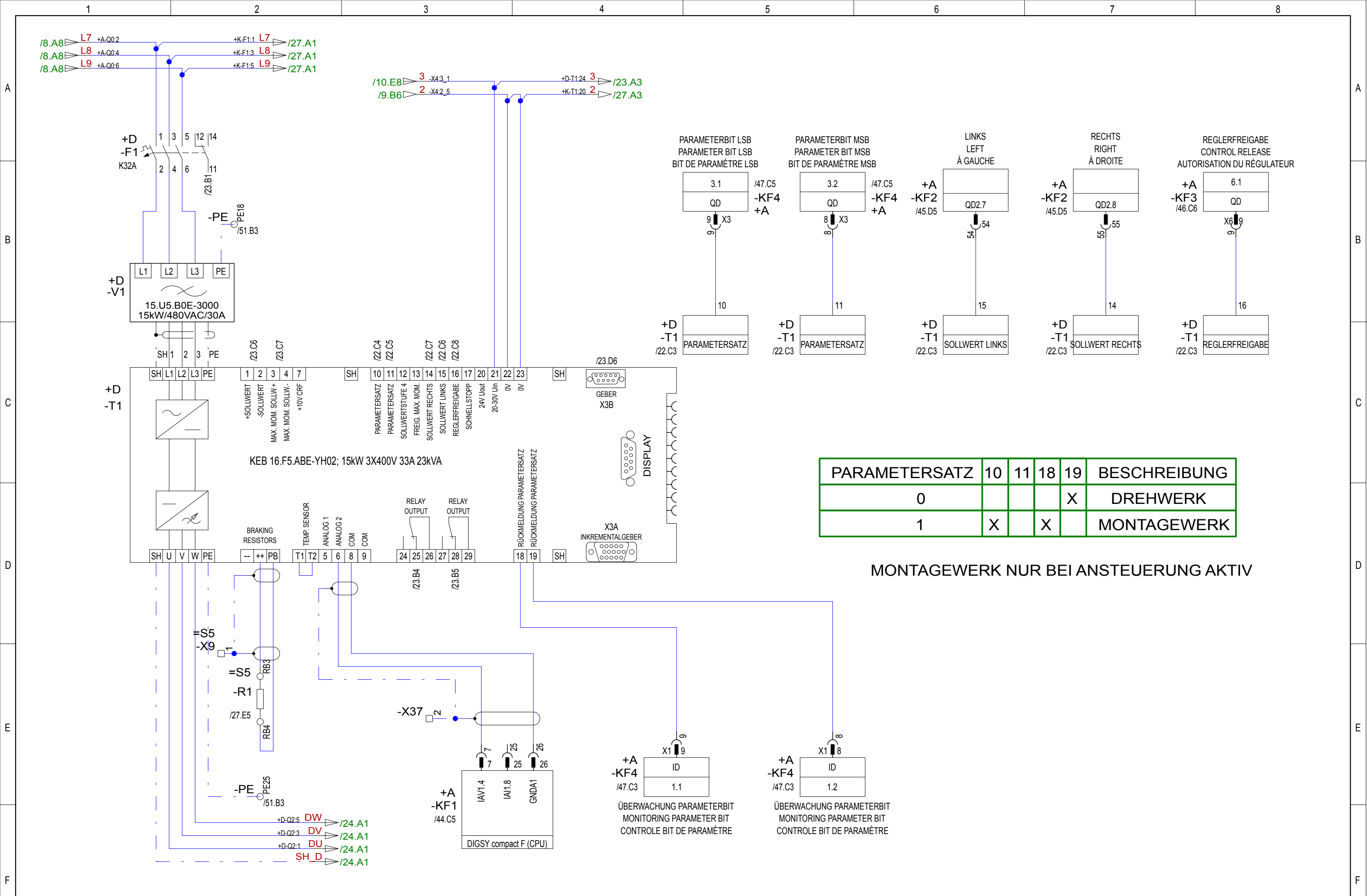


\*  
DREHWERK  
SLEWING GEAR  
MÉC.D'ORIENTATION

SENKTIEFE  
HOOK LEVEL  
HAUTEUR SOUS  
CROCHET

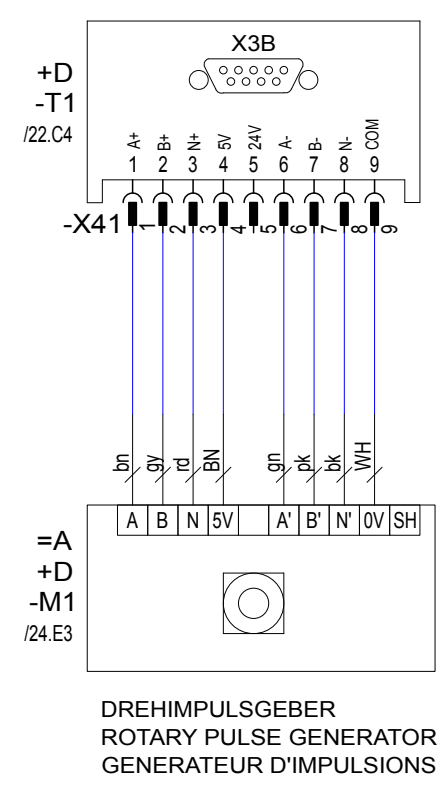
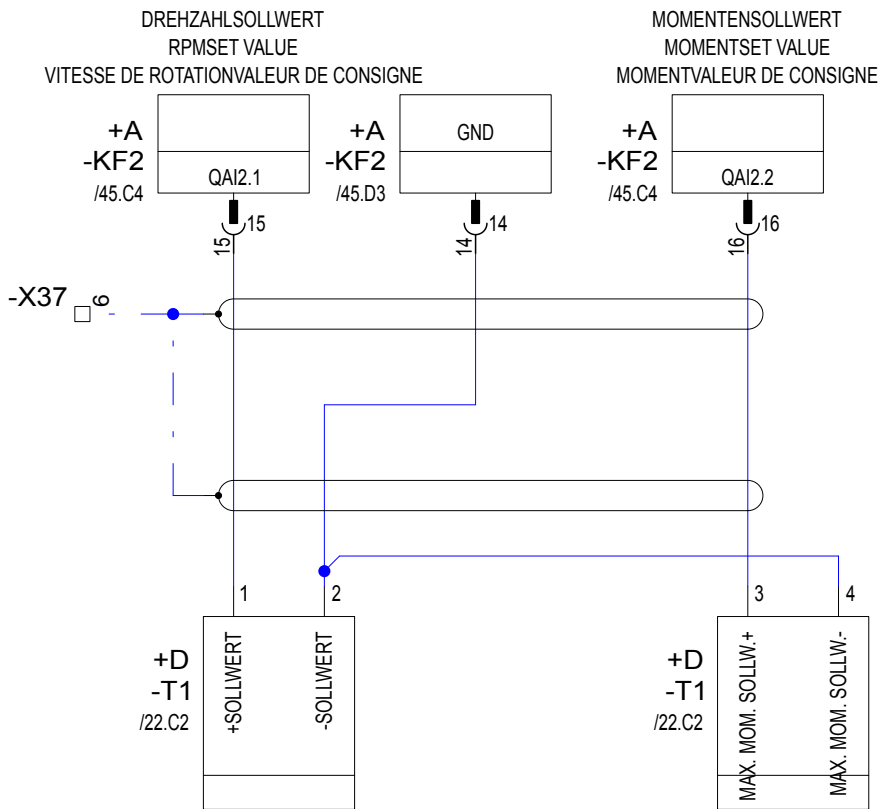
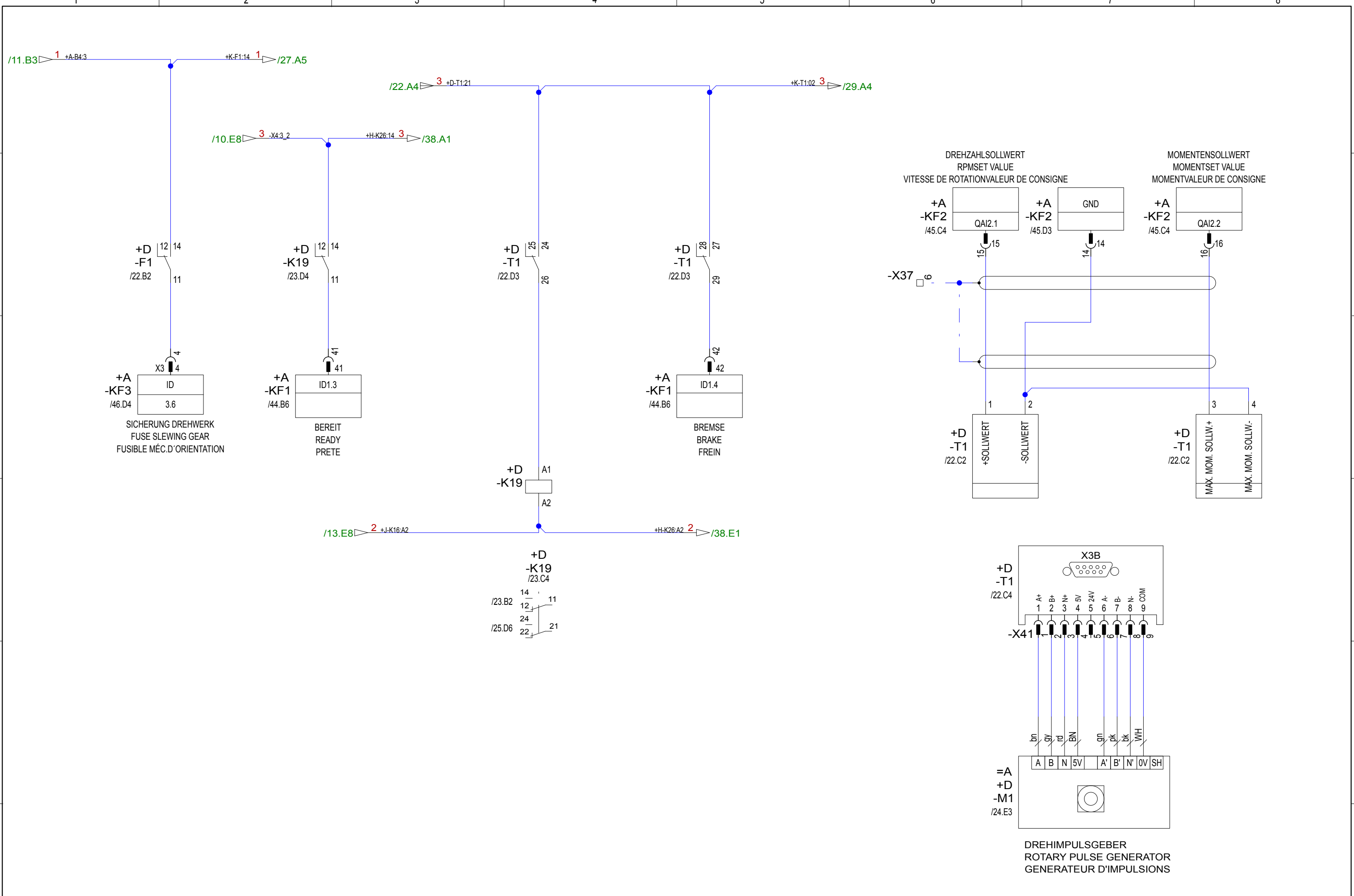
LASTMOMENT  
LOAD MOMENT  
MOMENT DE CHARGE

|               |       |      |            |            |            |           |            |            |               |                                 |  |            |                  |  |              |           |
|---------------|-------|------|------------|------------|------------|-----------|------------|------------|---------------|---------------------------------|--|------------|------------------|--|--------------|-----------|
|               |       |      | GEZEICHNET | 12.08.2015 | Seifert    | LIEBHERR  |            | Components |               | SENSOREN<br>SENSORS<br>CAPTEURS |  | TYP        | 81K.1            |  | ANLAGE       | =S1       |
|               |       |      | GEPRÜFT    | 22.02.2017 | Seifert W. |           |            |            |               |                                 |  |            |                  |  | ORT          |           |
|               |       |      |            |            |            |           |            |            |               |                                 |  | ZEICHN.-NR | 4005-23620-83620 |  | BLATT        | 21 VON 76 |
| ÄNDERUNGS-NR. | DATUM | NAME |            | DATUM      | NAME       | ECN100915 | INDEX: 005 |            | Copyright (c) |                                 |  |            |                  |  | ARTIKEL-CODE | 90213137  |

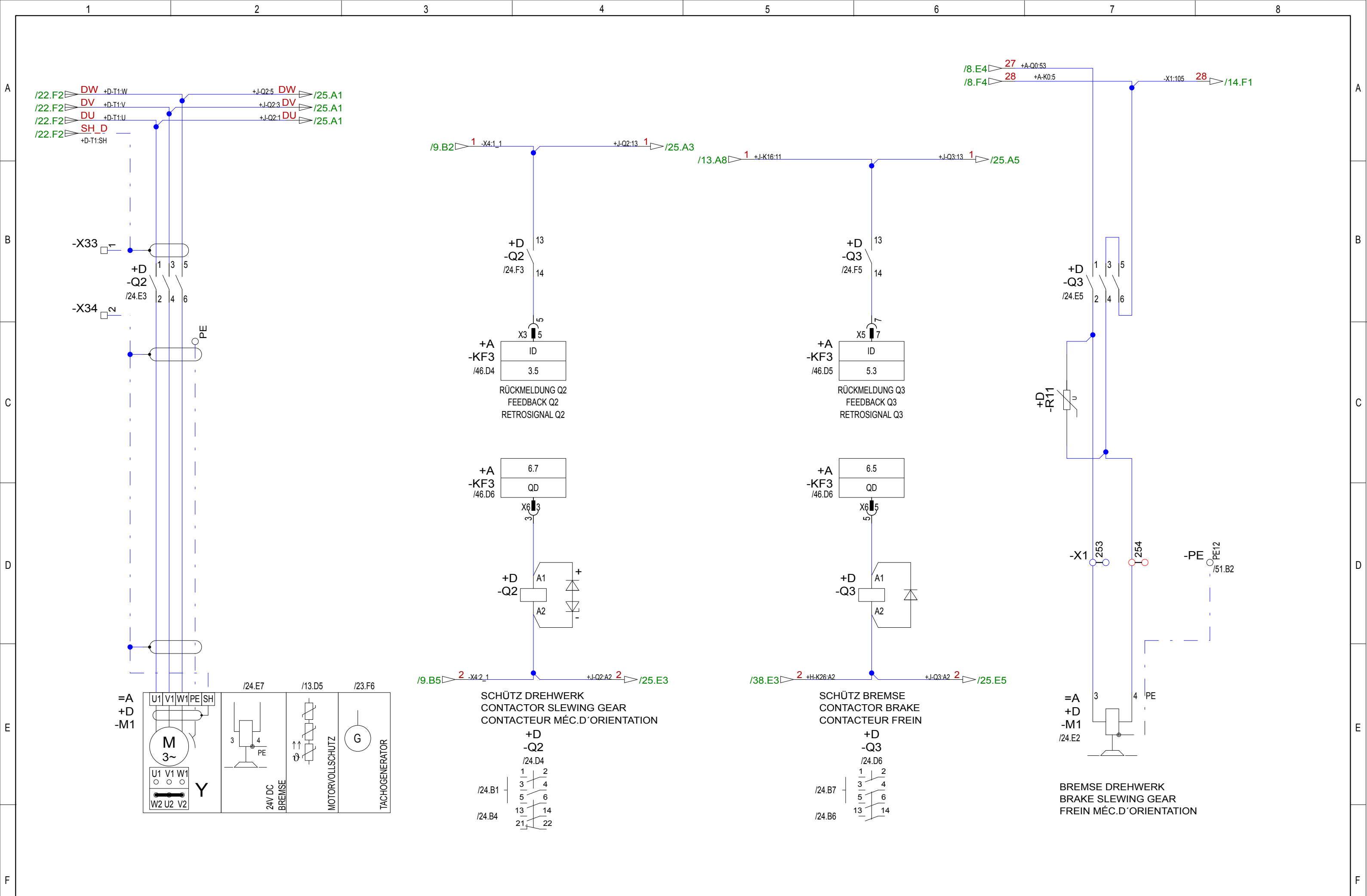


| PARAMETERSATZ | 10 | 11 | 18 | 19 | BESCHREIBUNG |
|---------------|----|----|----|----|--------------|
| 0             |    |    |    | X  | DREHWERK     |
| 1             | X  |    | X  |    | MONTAGEWERK  |

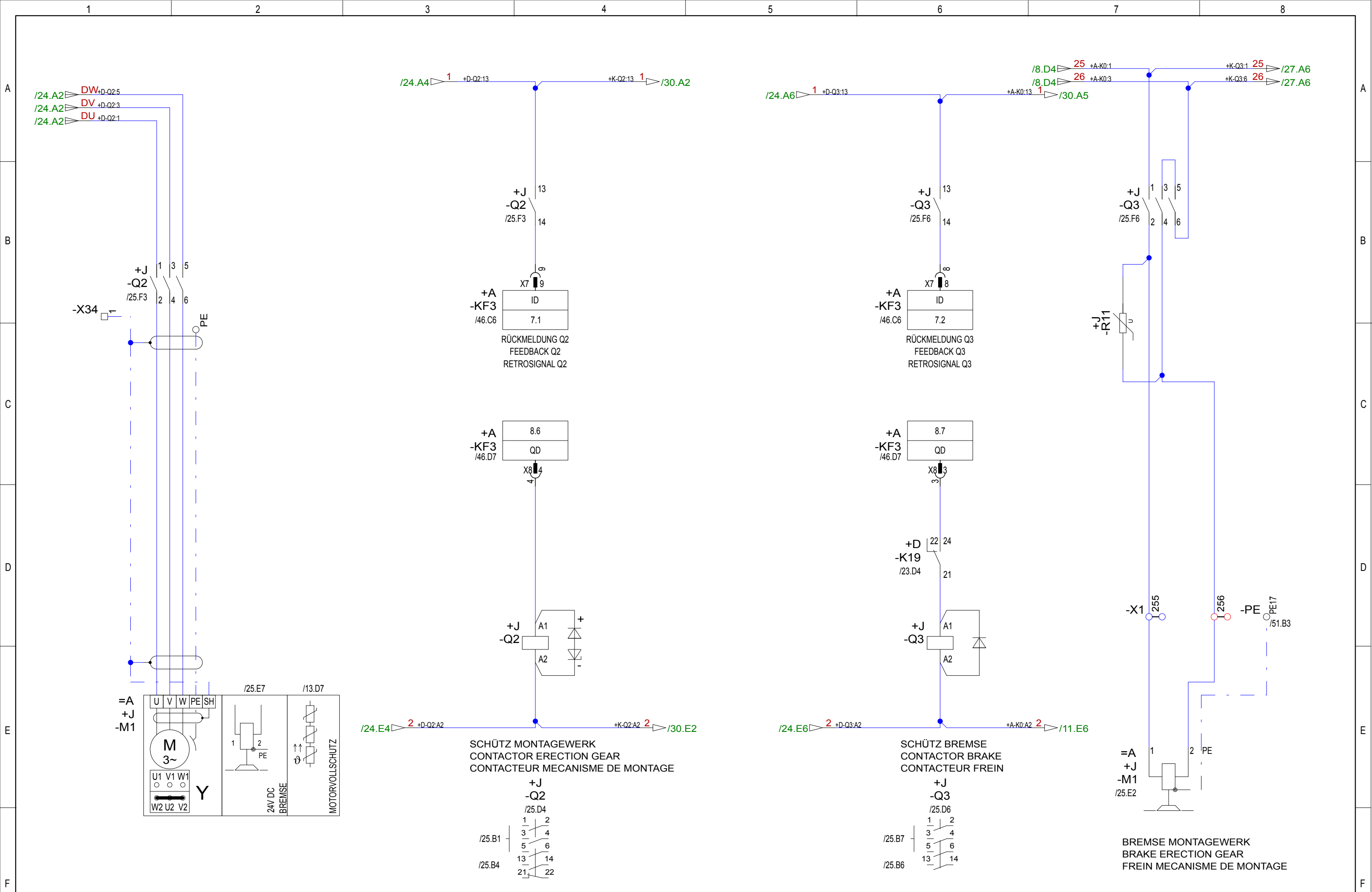
MONTAGEWERK NUR BEI ANSTEUERUNG AKTIV



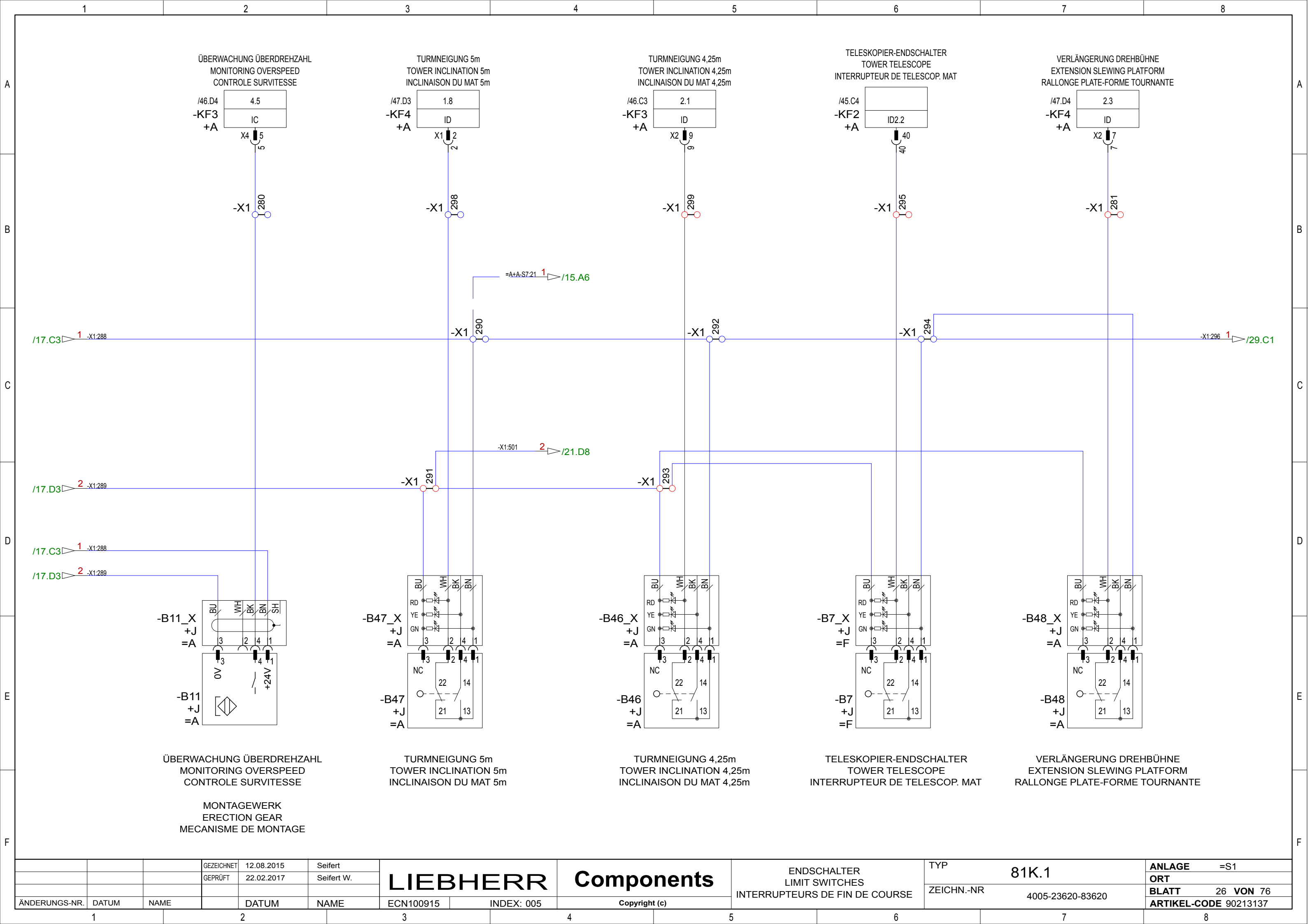
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|---------------|-------|------|------------|------------|------------|-----------|------------|---------------|--|---|--|------------|------------------|--|-----------------------|-----------|
|               |       |      | GEZEICHNET | 12.08.2015 | Seifert    | LIEBHERR  |            | Components    |  | DREHWERK<br>SLEWING GEAR<br>MÉC.D'ORIENTATION |  | TYP        | 81K.1            |  | ANLAGE                | =S1       |
|               |       |      | GEPRÜFT    | 22.02.2017 | Seifert W. |           |            |               |  |   |  | ZEICHN.-NR | 4005-23620-83620 |  | ORT                   |           |
|               |       |      |            |            |            |           |            |               |  |   |  |            |                  |  | BLATT                 | 23 VON 76 |
| ÄNDERUNGS-NR. | DATUM | NAME |            | DATUM      | NAME       | ECN100915 | INDEX: 005 | Copyright (c) |  |   |  |            |                  |  | ARTIKEL-CODE 90213137 |           |



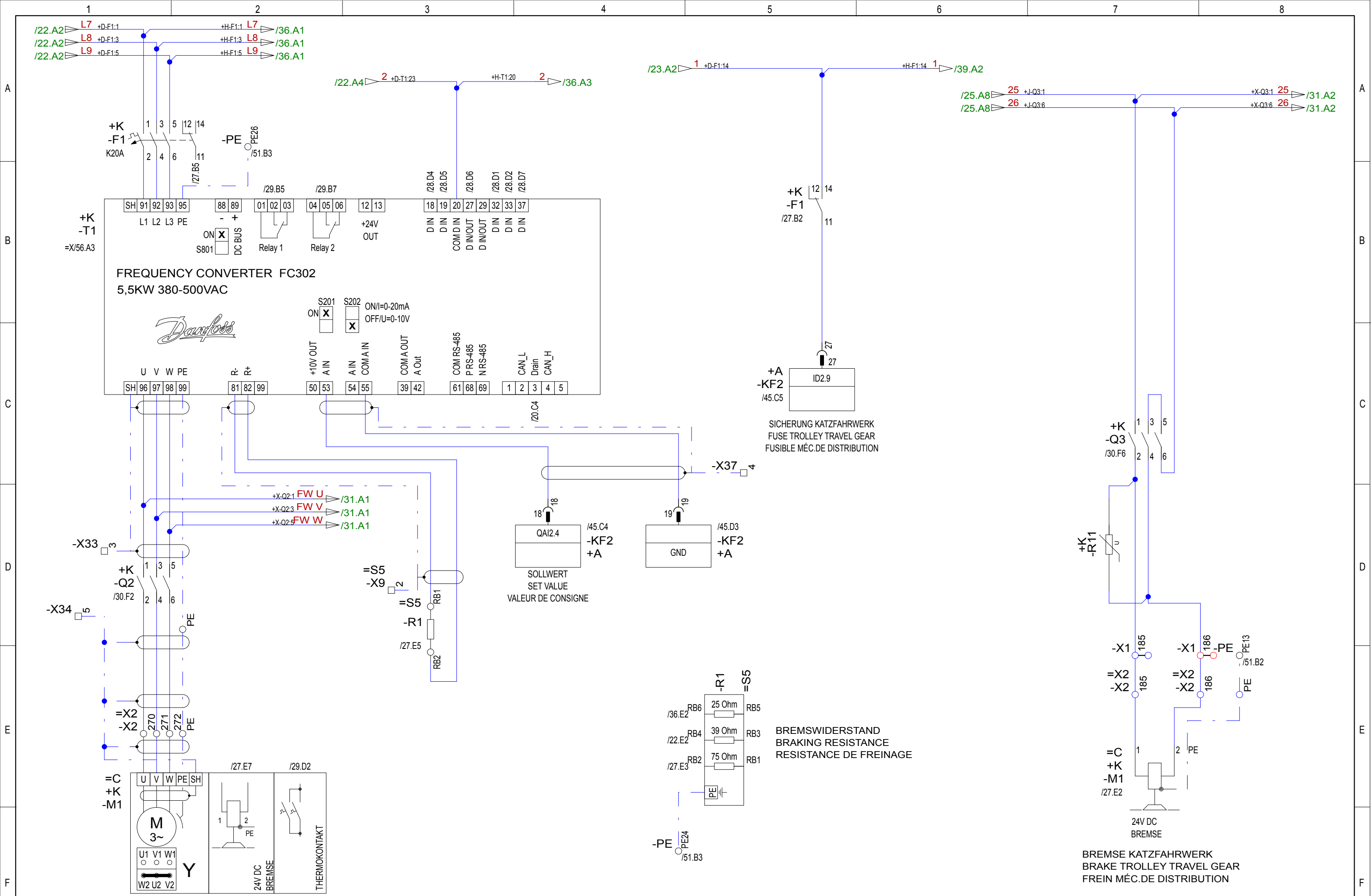
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|---------------|-------|------|------------|------------|------------|-----------------|------------|-------------------|--|---|--|-----------------------------|--|-----------------------|--|
|               |       |      | GEZEICHNET | 12.08.2015 | Seifert    | <b>LIEBHERR</b> |            | <b>Components</b> |  | DREHWERK<br>SLEWING GEAR<br>MÉC.D'ORIENTATION |  | TYP<br><b>81K.1</b>         |  | ANLAGE =S1            |  |
|               |       |      | GEPRÜFT    | 22.02.2017 | Seifert W. |                 |            |                   |  |   |  |                             |  | ORT                   |  |
|               |       |      |            |            |            |                 |            |                   |  |   |  |                             |  | BLATT 24 VON 76       |  |
| ÄNDERUNGS-NR. | DATUM | NAME |            | DATUM      | NAME       | ECN100915       | INDEX: 005 | Copyright (c)     |  |   |  | ZEICHN.-NR 4005-23620-83620 |  | ARTIKEL-CODE 90213137 |  |



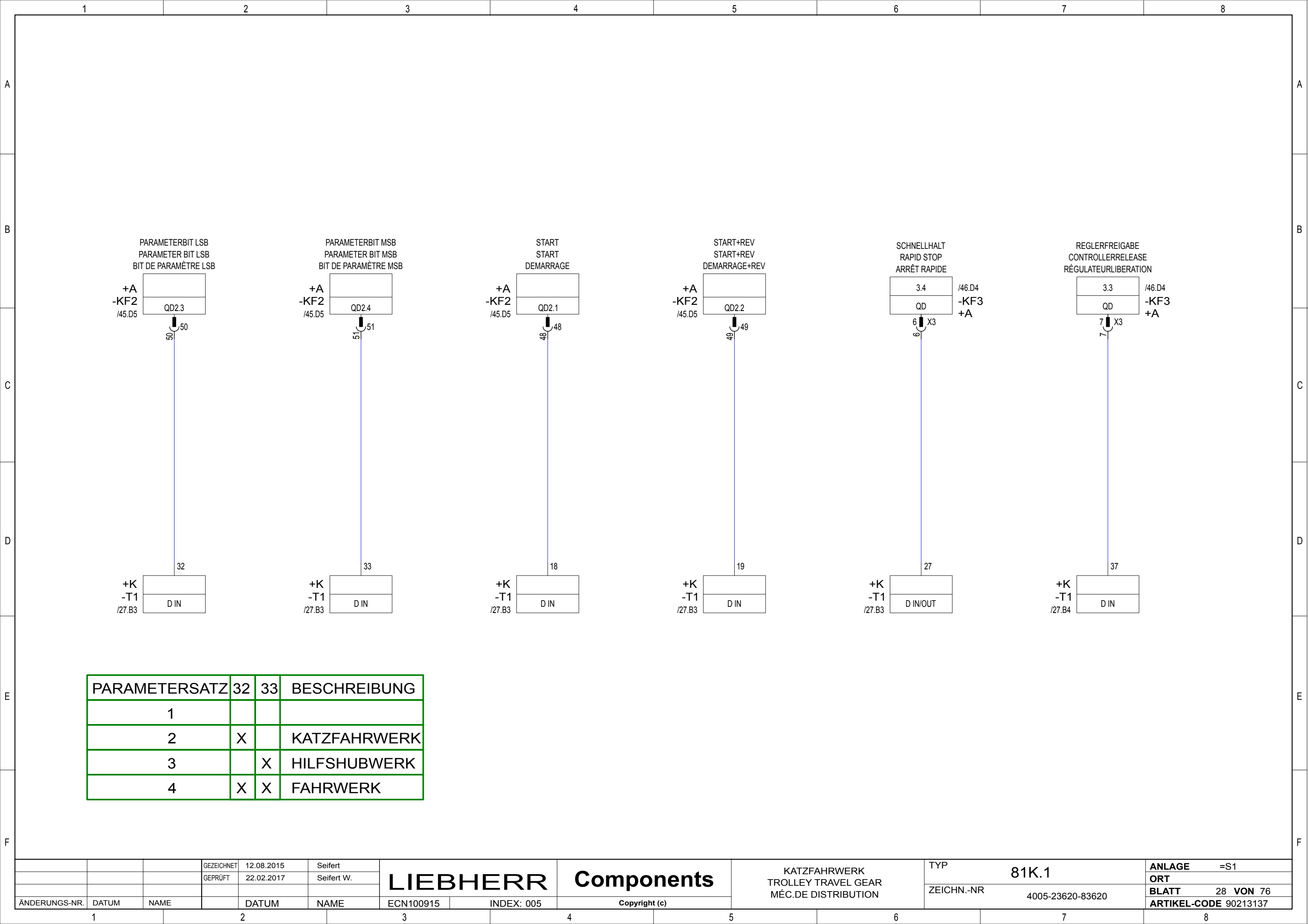
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|---------------|-------|------|------------|------------|------------|-----------|------------|---------------|--|--|--|------------|------------------|--|--------------|-----------|
|               |       |      | GEZEICHNET | 12.08.2015 | Seifert    | LIEBHERR  |            | Components    |  | MONTAGEWERK<br>ERECTION GEAR<br>MECANISME DE MONTAGE |  | TYP        | 81K.1            |  | ANLAGE       | =S1       |
|               |       |      | GEPRÜFT    | 22.02.2017 | Seifert W. |           |            |               |  |  |  |            |                  |  | ORT          |           |
| ÄNDERUNGS-NR. | DATUM | NAME |            | DATUM      | NAME       |           |            |               |  |  |  | ZEICHN.-NR |                  |  | BLATT        | 25 VON 76 |
|               |       |      |            |            |            | ECN100915 | INDEX: 005 | Copyright (c) |  |  |  |            | 4005-23620-83620 |  | ARTIKEL-CODE | 90213137  |

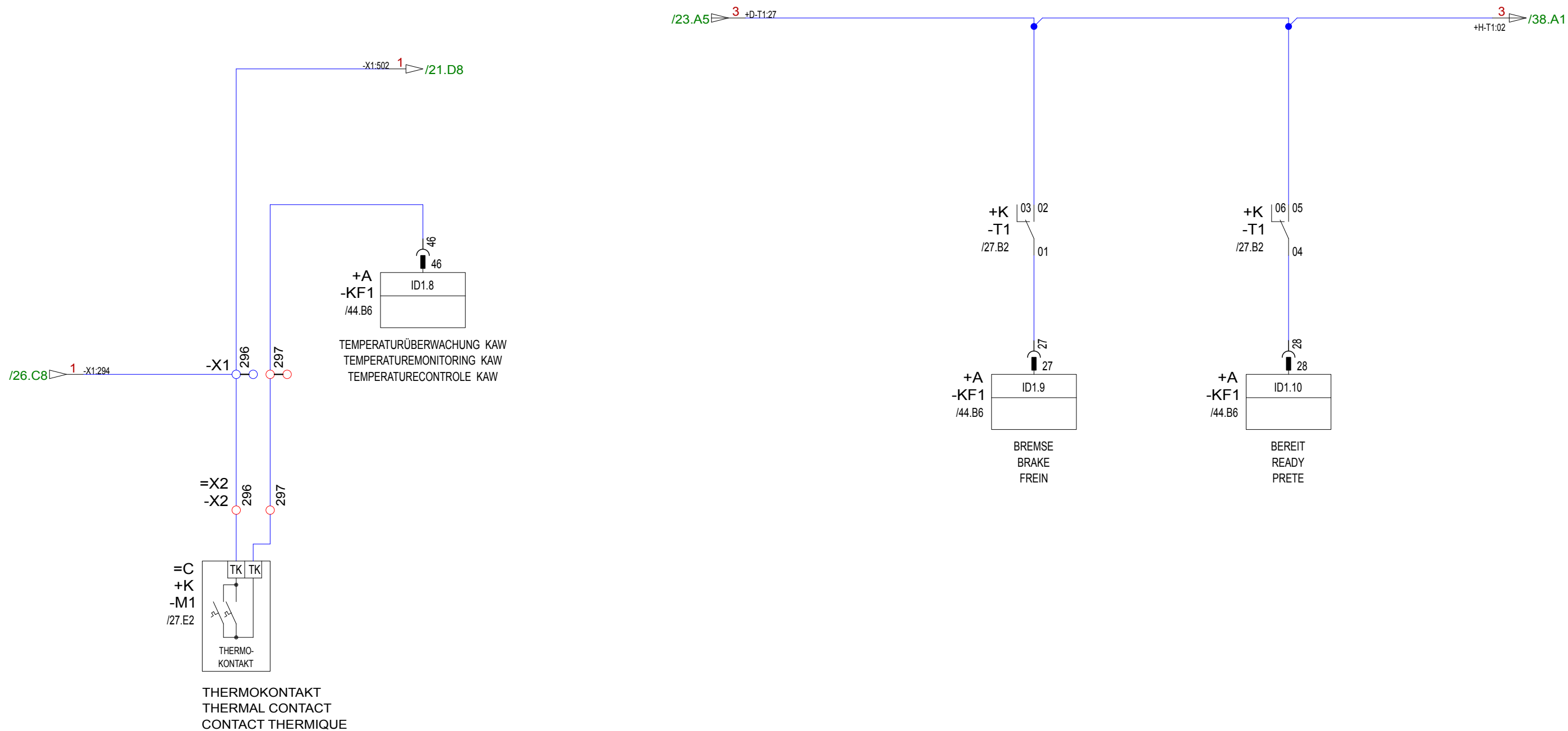


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|---------------|-------|------|------------|------------|------------|-----------|------------|---------------|--|---|--|------------|------------------|--|--------------|-----------|
|               |       |      | GEZEICHNET | 12.08.2015 | Seifert    | LIEBHERR  |            | Components    |  | ENDSCHALTER<br>LIMIT SWITCHES<br>INTERRUPTEURS DE FIN DE COURSE |  | TYP        | 81K.1            |  | ANLAGE       | =S1       |
|               |       |      | GEPRÜFT    | 22.02.2017 | Seifert W. |           |            |               |  |   |  |            |                  |  | ORT          |           |
|               |       |      |            |            |            |           |            |               |  |   |  | ZEICHN.-NR | 4005-23620-83620 |  | BLATT        | 26 VON 76 |
| ÄNDERUNGS-NR. | DATUM | NAME |            | DATUM      | NAME       | ECN100915 | INDEX: 005 | Copyright (c) |  |   |  |            |                  |  | ARTIKEL-CODE | 90213137  |



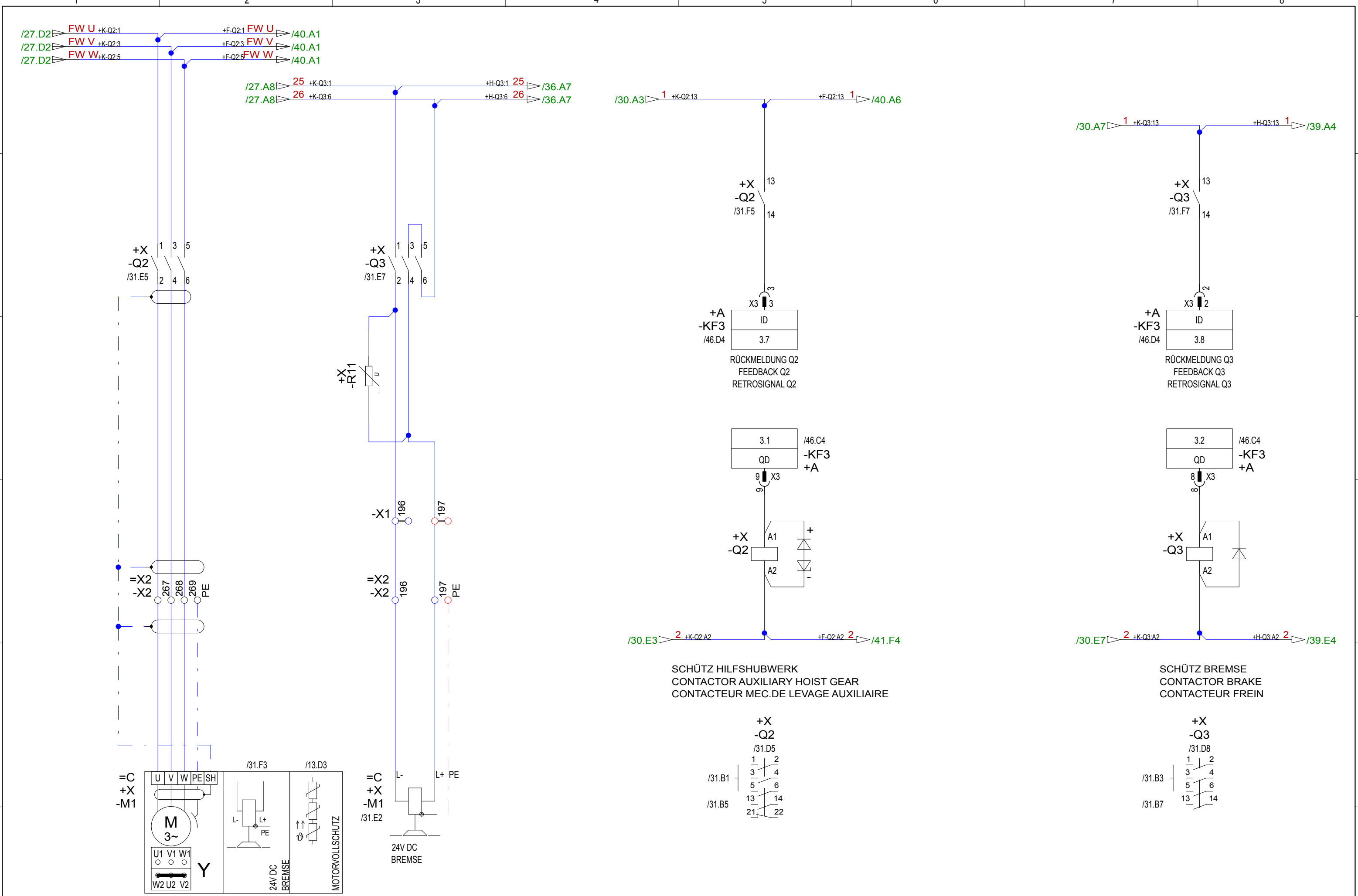
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|---------------|-------|------|------------|------------|------------|----------|--|------------|--|--|--|-----------|------------|---------------|------------|------------------|-----------------|
|               |       |      | GEZEICHNET | 12.08.2015 | Seifert    | LIEBHERR |  | Components |  | KATZFABRWERK<br>TROLLEY TRAVEL GEAR<br>MÉC.DE DISTRIBUTION |  | TYP       | 81K.1      |               | ANLAGE =S1 |                  |                 |
|               |       |      | GEPRÜFT    | 22.02.2017 | Seifert W. |          |  |            |  |  |  | ORT       |            |               |            |                  |                 |
| ÄNDERUNGS-NR. | DATUM | NAME |            | DATUM      | NAME       |          |  |            |  |  |  | ECN100915 | INDEX: 005 | Copyright (c) | ZEICHN.-NR | 4005-23620-83620 | BLATT 27 VON 76 |
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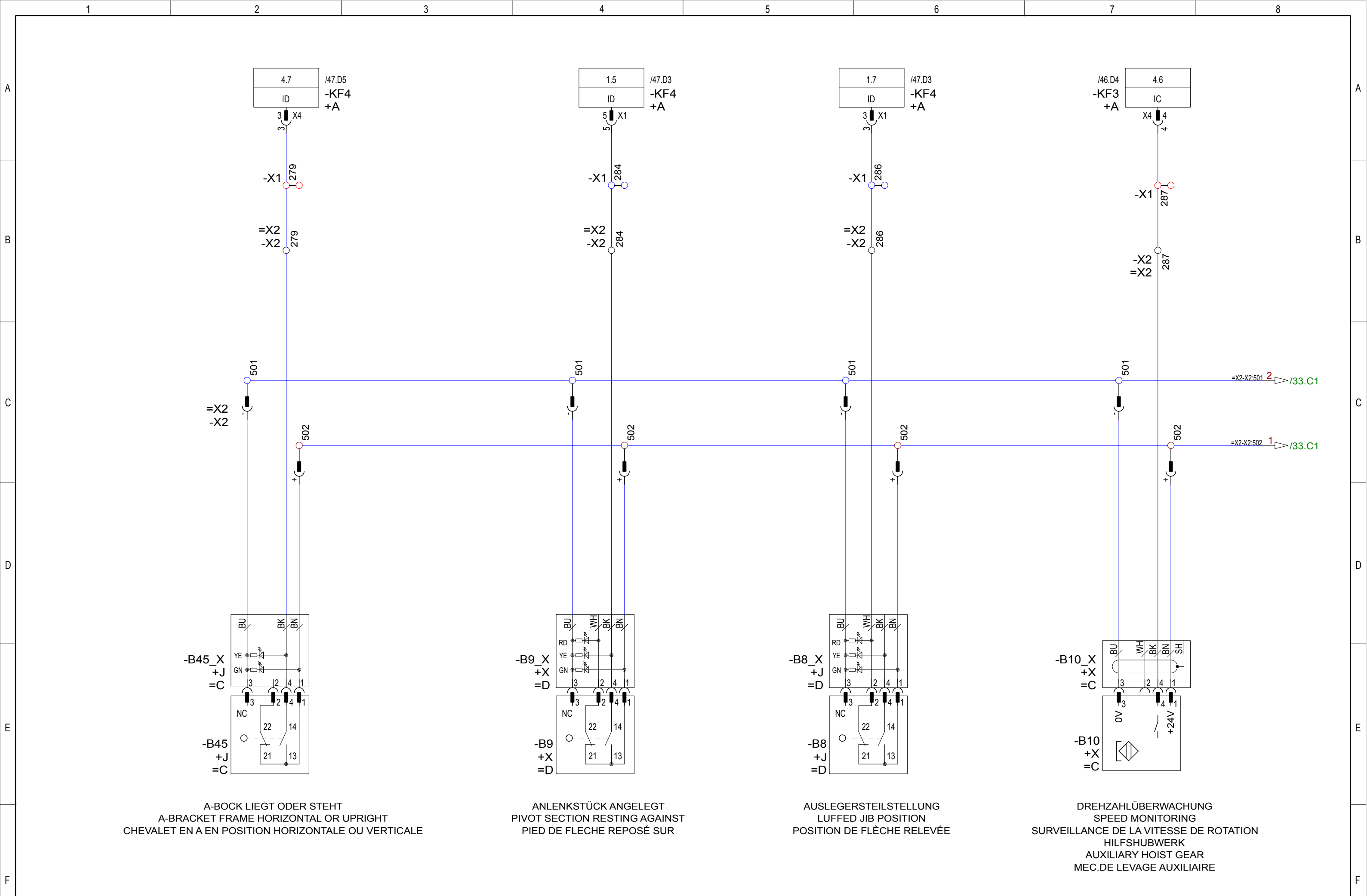


|               |       |      |            |            |            |           |            |               |  |            |                  |              |          |
|---------------|-------|------|------------|------------|------------|-----------|------------|---------------|--|------------|------------------|--------------|----------|
|               |       |      | GEZEICHNET | 12.08.2015 | Seifert    | LIEBHERR  |            | Components    | KATZFAHRWERK<br>TROLLEY TRAVEL GEAR<br>MÉC.DE DISTRIBUTION | TYP        | 81K.1            | ANLAGE       | =S1      |
|               |       |      | GEPRÜFT    | 22.02.2017 | Seifert W. |           |            |               |  | ORT        |                  |              |          |
|               |       |      |            |            |            |           |            |               |  | ZEICHN.-NR | 4005-23620-83620 | BLATT        | 29       |
| ÄNDERUNGS-NR. | DATUM | NAME |            | DATUM      | NAME       | ECN100915 | INDEX: 005 | Copyright (c) |  |            |                  | ARTIKEL-CODE | 90213137 |

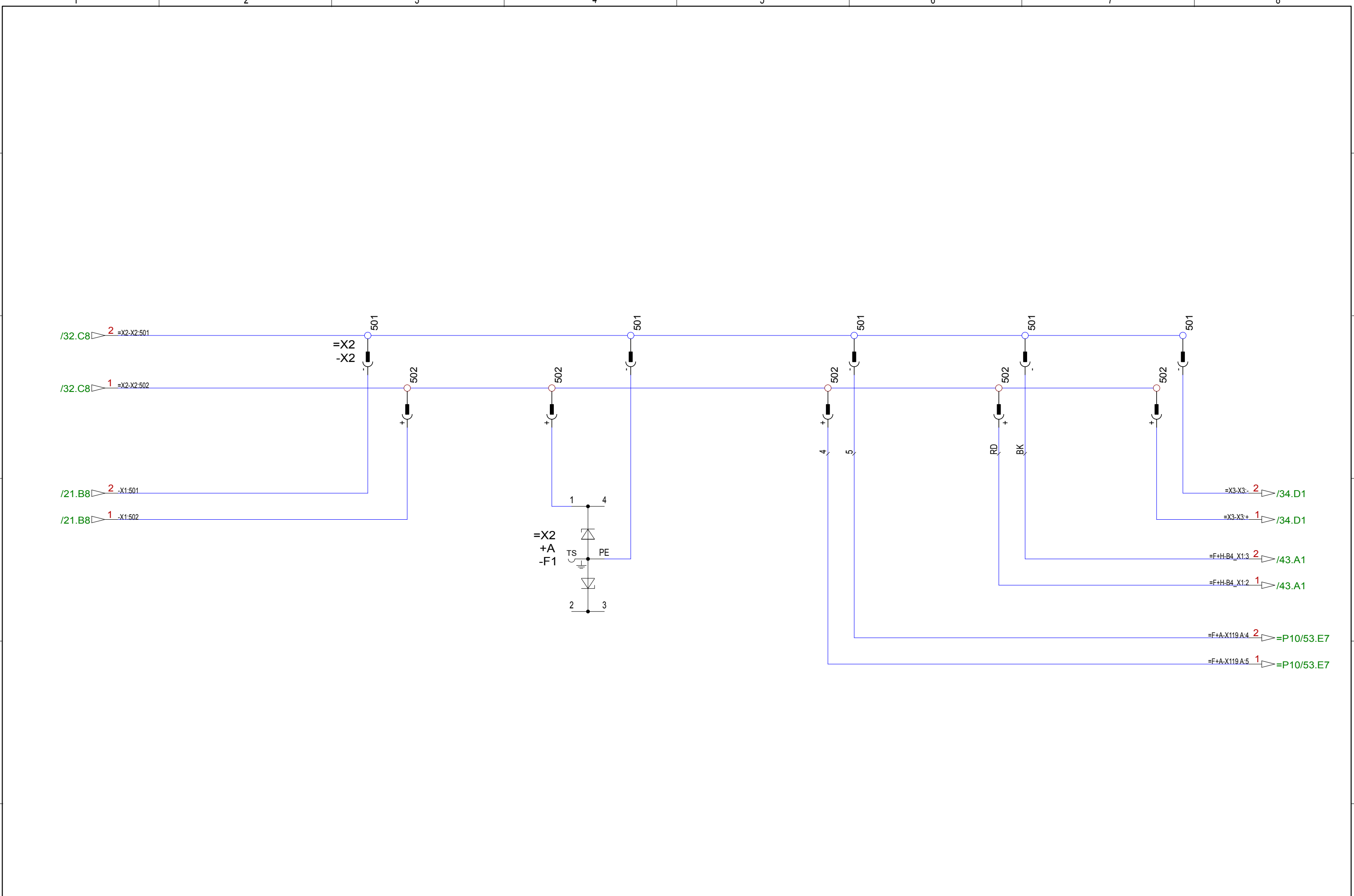




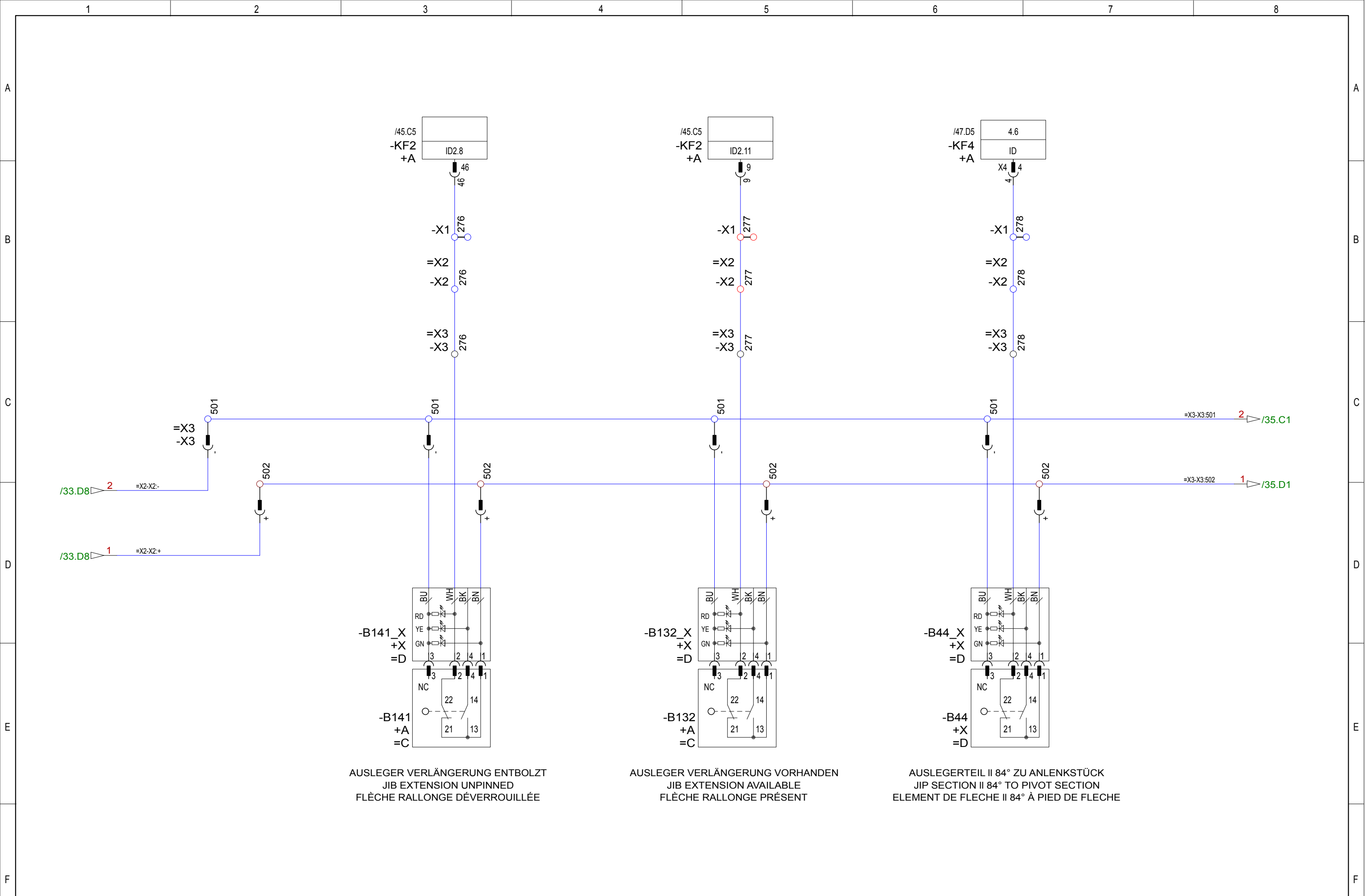
|               |       |      |            |            |            |                 |            |                   |  |  |  |            |       |                  |              |           |
|---------------|-------|------|------------|------------|------------|-----------------|------------|-------------------|--|--|--|------------|-------|------------------|--------------|-----------|
|               |       |      | GEZEICHNET | 12.08.2015 | Seifert    | <b>LIEBHERR</b> |            | <b>Components</b> |  | HILFSHUBWERK<br>AUXILIARY HOIST GEAR<br>MEC.DE LEVAGE AUXILIAIRE |  | TYP        | 81K.1 |                  | ANLAGE       | =S1       |
|               |       |      | GEPRÜFT    | 22.02.2017 | Seifert W. |                 |            |                   |  |  |  | ZEICHN.-NR |       | 4005-23620-83620 | ORT          |           |
| ÄNDERUNGS-NR. | DATUM | NAME |            | DATUM      | NAME       |                 |            |                   |  |  |  |            |       |                  | BLATT        | 31 VON 76 |
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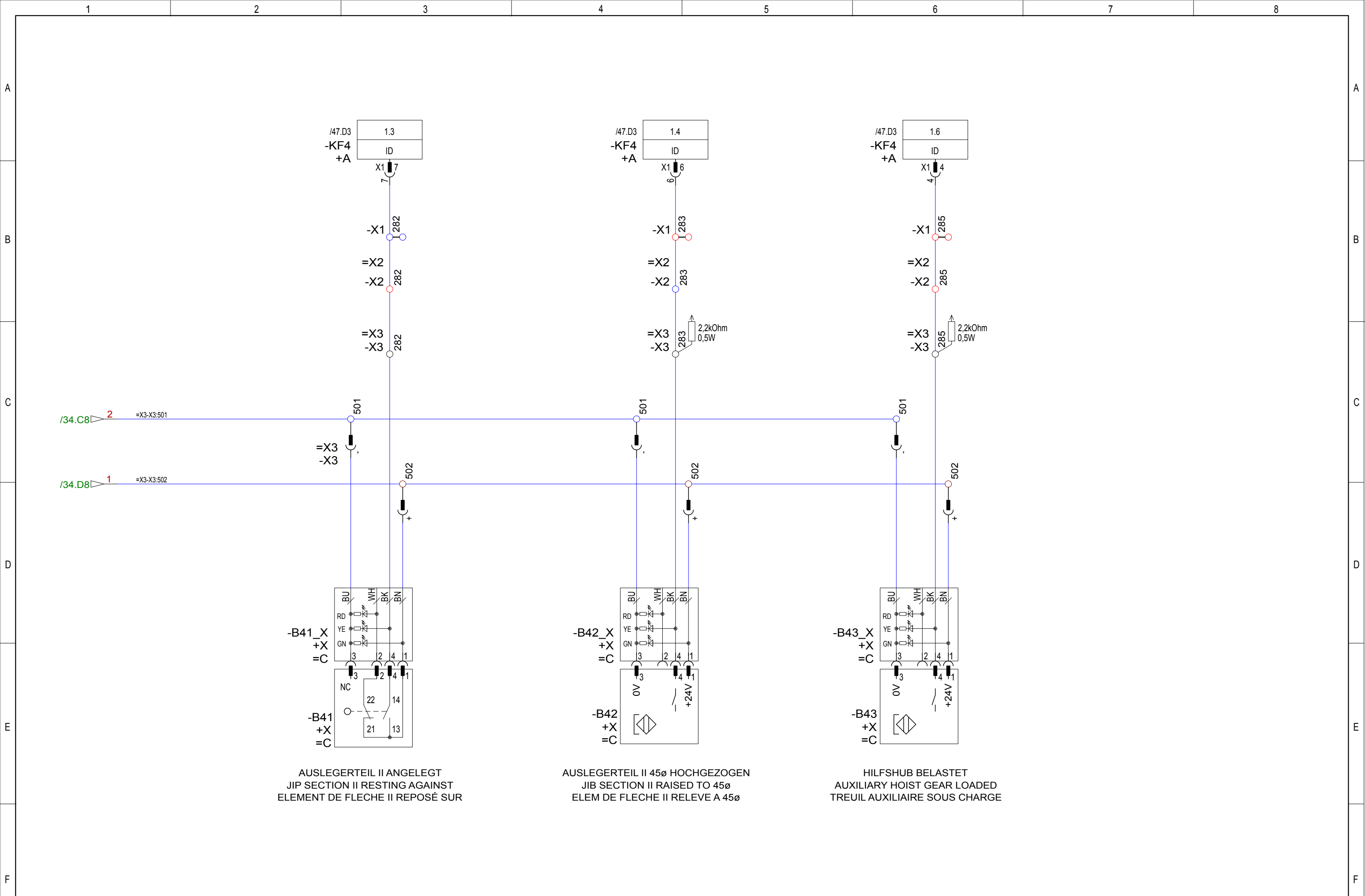
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|               |       |      | GEZEICHNET | 12.08.2015 | Seifert    | LIEBHERR  |            | Components    |  | ENDSCHALTER X2<br>LIMIT SWITCHES X2<br>INTERRUPTEURS DE FIN DE COURSE X2 |  | TYP        | 81K.1            |  | ANLAGE       | =S1       |
|               |       |      | GEPRÜFT    | 22.02.2017 | Seifert W. |           |            |               |  |  |  | ZEICHN.-NR |                  |  | ORT          |           |
| ÄNDERUNGS-NR. | DATUM | NAME |            | DATUM      | NAME       |           |            |               |  |  |  |            | 4005-23620-83620 |  | BLATT        | 32 VON 76 |
|               |       |      |            |            |            | ECN100915 | INDEX: 005 | Copyright (c) |  |  |  |            |                  |  | ARTIKEL-CODE | 90213137  |



|               |       |      |            |            |            |           |            |            |               |  |            |                  |              |           |
|---------------|-------|------|------------|------------|------------|-----------|------------|------------|---------------|--|------------|------------------|--------------|-----------|
|               |       |      | GEZEICHNET | 12.08.2015 | Seifert    | LIEBHERR  |            | Components |               | ENDSCHALTER X2<br>LIMIT SWITCHES X2<br>INTERRUPTEURS DE FIN DE COURSE X2 | TYP        | 81K.1            | ANLAGE       | =S1       |
|               |       |      | GEPRÜFT    | 22.02.2017 | Seifert W. |           |            |            |               |  | ORT        |                  |              |           |
|               |       |      |            |            |            |           |            |            |               |  | ZEICHN.-NR | 4005-23620-83620 | BLATT        | 33 VON 76 |
| ÄNDERUNGS-NR. | DATUM | NAME |            | DATUM      | NAME       | ECN100915 | INDEX: 005 |            | Copyright (c) |  |            |                  | ARTIKEL-CODE | 90213137  |



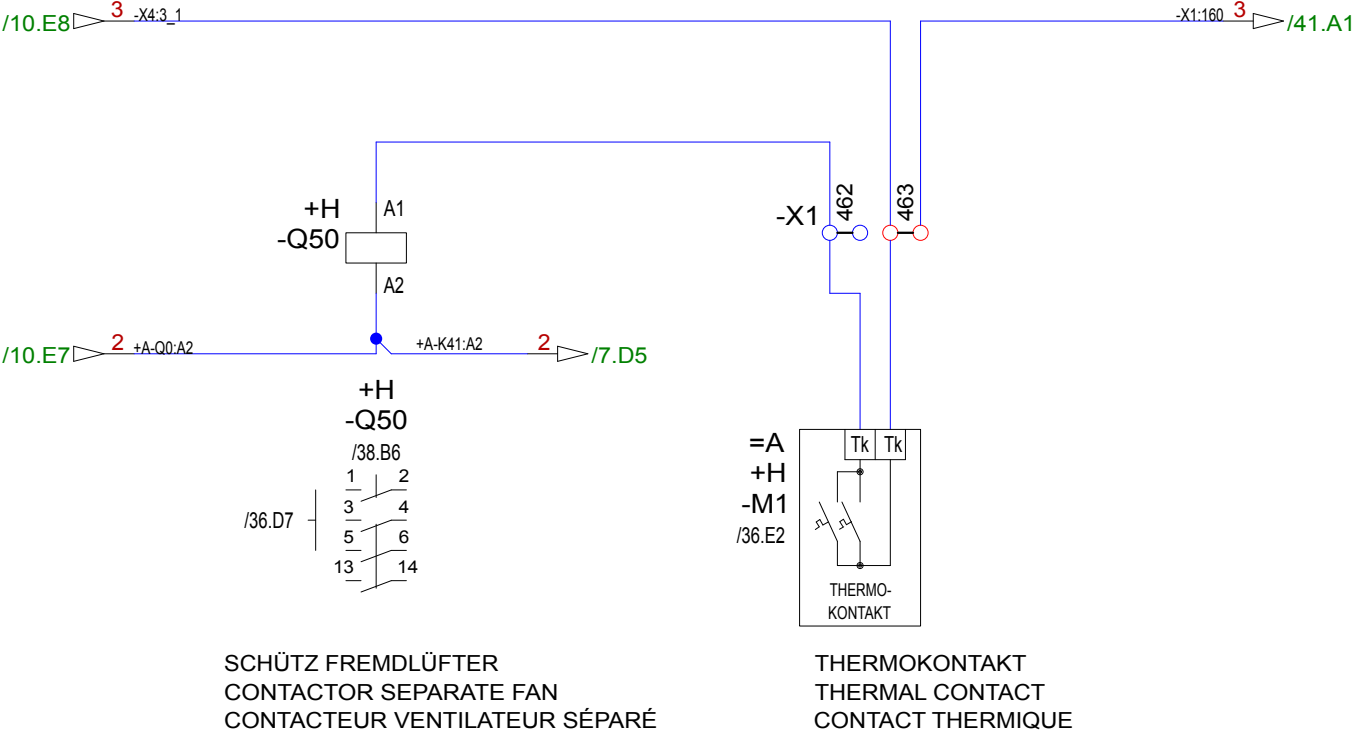
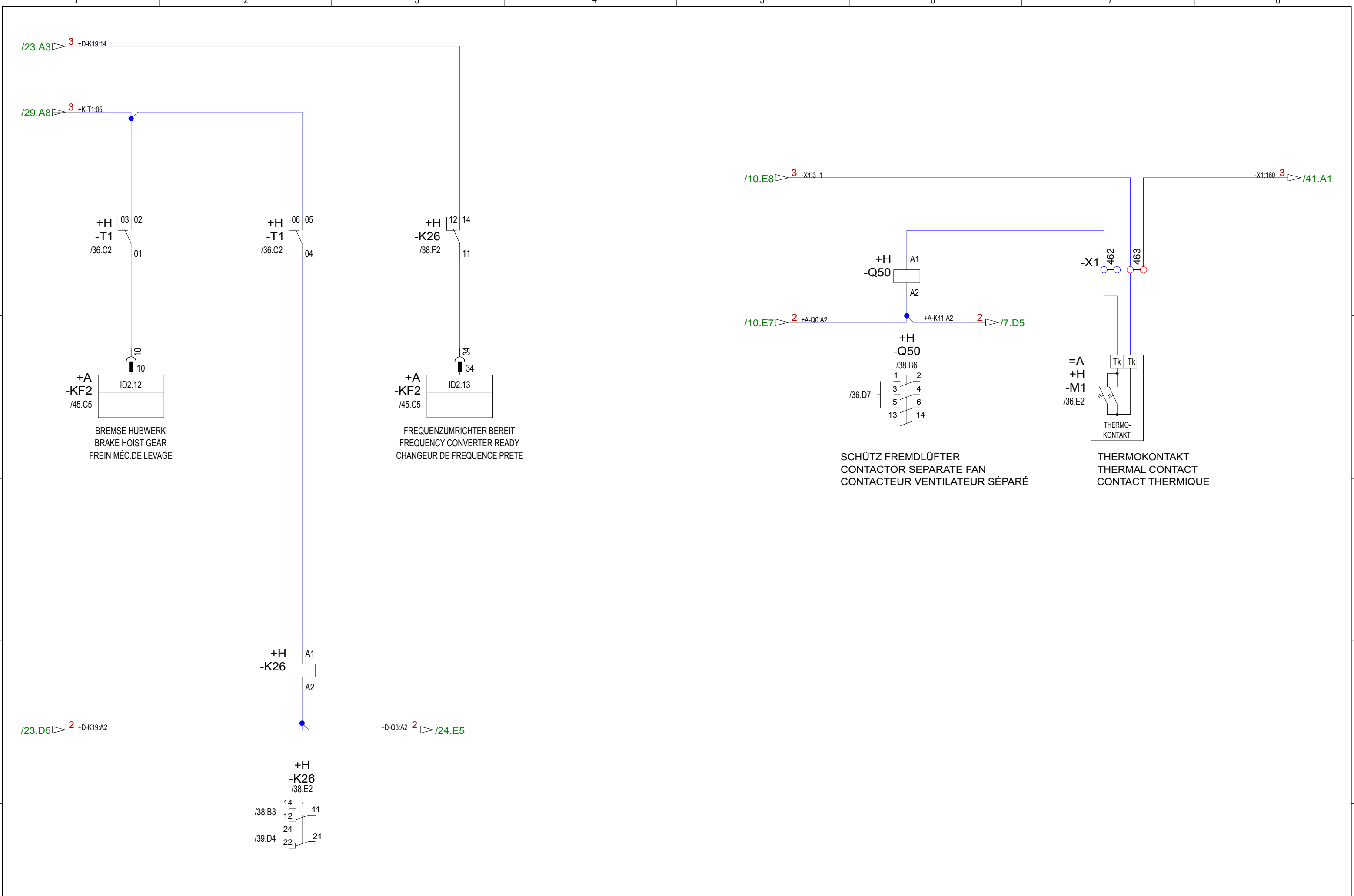
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|               |       |      | GEZEICHNET | 12.08.2015 | Seifert    | LIEBHERR  |            | Components    |  | ENDSCHALTER X3<br>LIMIT SWITCHES X3<br>INTERRUPTEURS DE FIN DE COURSE X3 |  | TYP        | 81K.1            |   | ANLAGE       | =S1       |
|               |       |      | GEPRÜFT    | 22.02.2017 | Seifert W. |           |            |               |  |  |  |            |                  |   | ORT          |           |
|               |       |      |            |            |            |           |            |               |  |  |  | ZEICHN.-NR | 4005-23620-83620 |   | BLATT        | 34 VON 76 |
| ÄNDERUNGS-NR. | DATUM | NAME |            | DATUM      | NAME       | ECN100915 | INDEX: 005 | Copyright (c) |  |  |  |            |                  |   | ARTIKEL-CODE | 90213137  |
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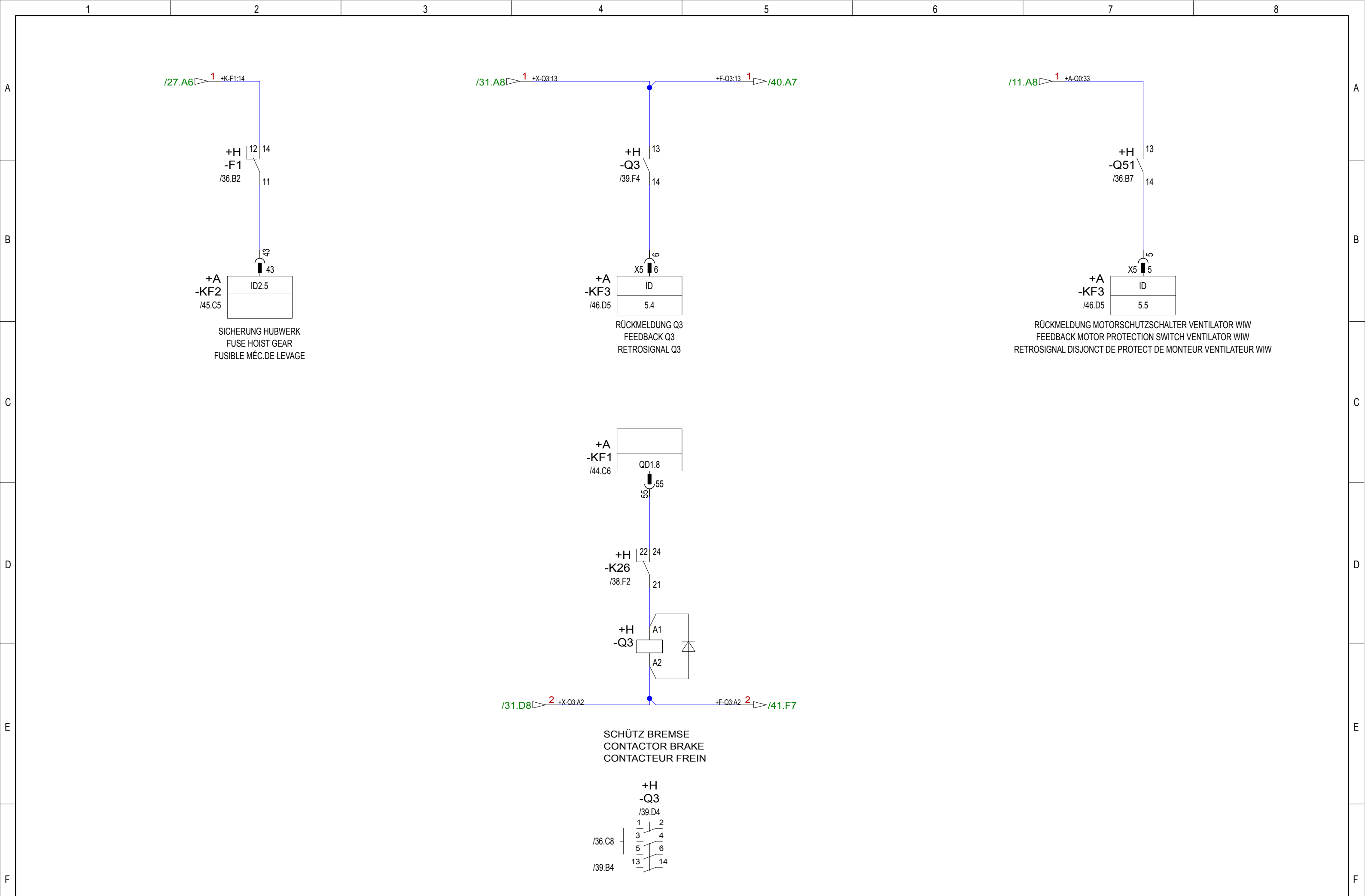
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|               |       |      | GEZEICHNET | 12.08.2015 | Seifert    | LIEBHERR  |            | Components    |  | ENDSCHALTER X3<br>LIMIT SWITCHES X3<br>INTERRUPTEURS DE FIN DE COURSE X3 |  | TYP        | 81K.1            | ANLAGE =S1      |                       |
|               |       |      | GEPRÜFT    | 22.02.2017 | Seifert W. |           |            |               |  |  |  |            |                  | ORT             |                       |
|               |       |      |            |            |            |           |            |               |  |  |  | ZEICHN.-NR | 4005-23620-83620 | BLATT 35 VON 76 | ARTIKEL-CODE 90213137 |
| ÄNDERUNGS-NR. | DATUM | NAME |            | DATUM      | NAME       | ECN100915 | INDEX: 005 | Copyright (c) |  |  |  |            |                  |                 |                       |



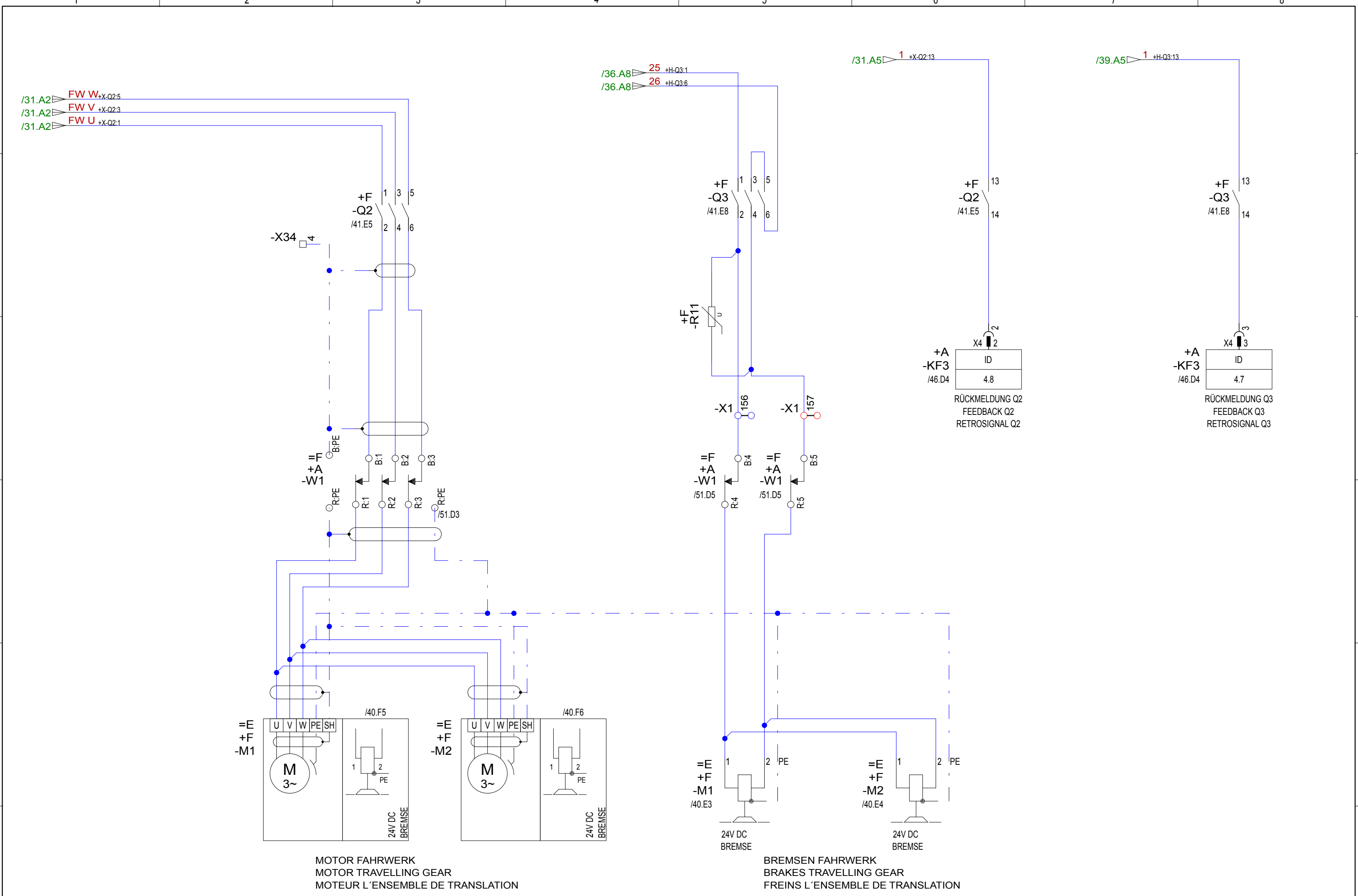




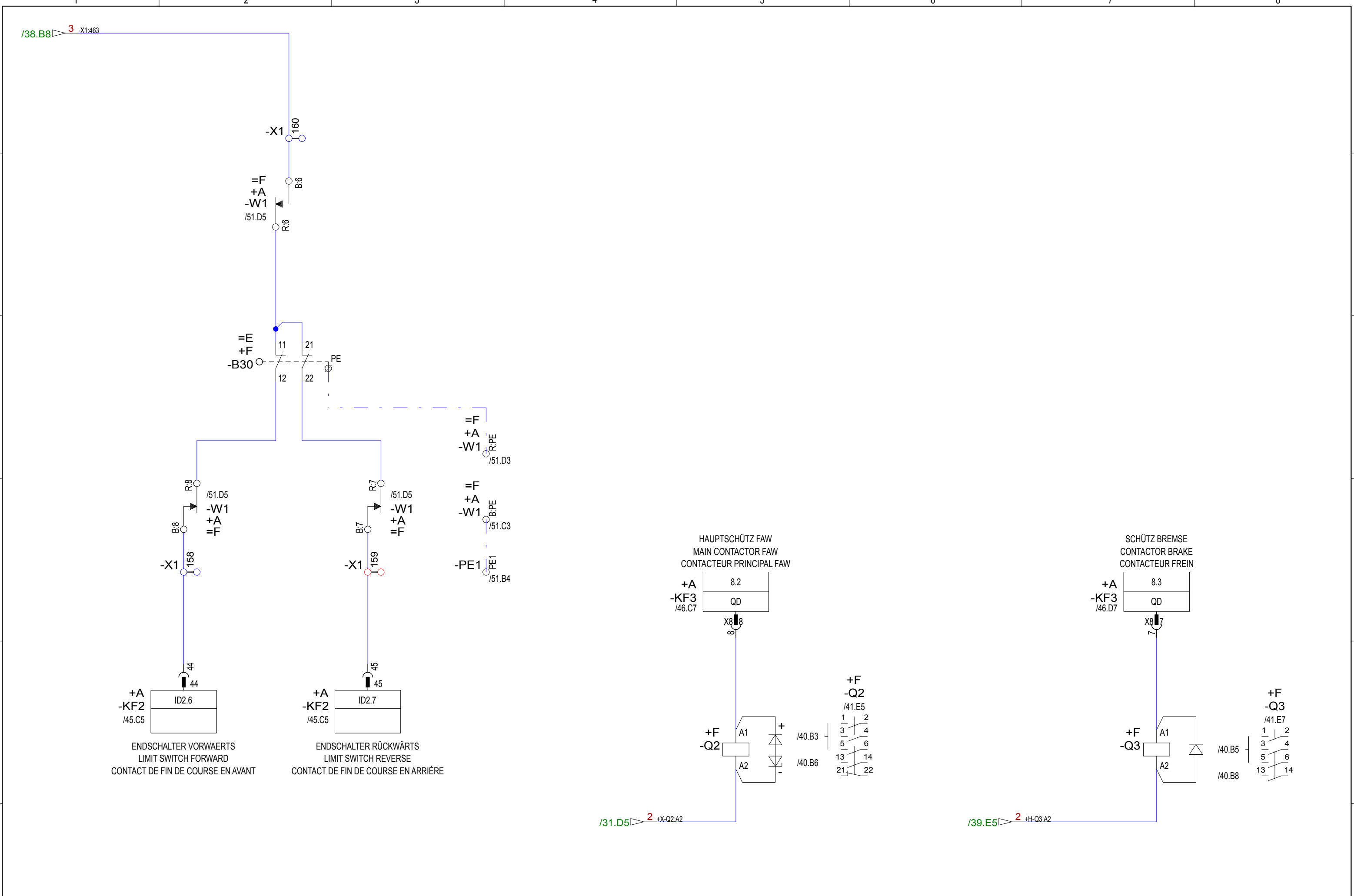
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|---------------|-------|------|------------|------------|------------|-----------|------------|---------------|--|--|--|------------|------------------|--|-----------------------|-----------|
|               |       |      | GEZEICHNET | 12.08.2015 | Seifert    | LIEBHERR  |            | Components    |  | HUBWERK<br>HOIST GEAR<br>MÉC.DE LEVAGE |  | TYP        | 81K.1            |  | ANLAGE                | =S1       |
|               |       |      | GEPRÜFT    | 22.02.2017 | Seifert W. |           |            |               |  |  |  |            |                  |  | ORT                   |           |
|               |       |      |            |            |            |           |            |               |  |  |  | ZEICHN.-NR | 4005-23620-83620 |  | BLATT                 | 38 VON 76 |
| ÄNDERUNGS-NR. | DATUM | NAME |            | DATUM      | NAME       | ECN100915 | INDEX: 005 | Copyright (c) |  |  |  |            |                  |  | ARTIKEL-CODE 90213137 |           |



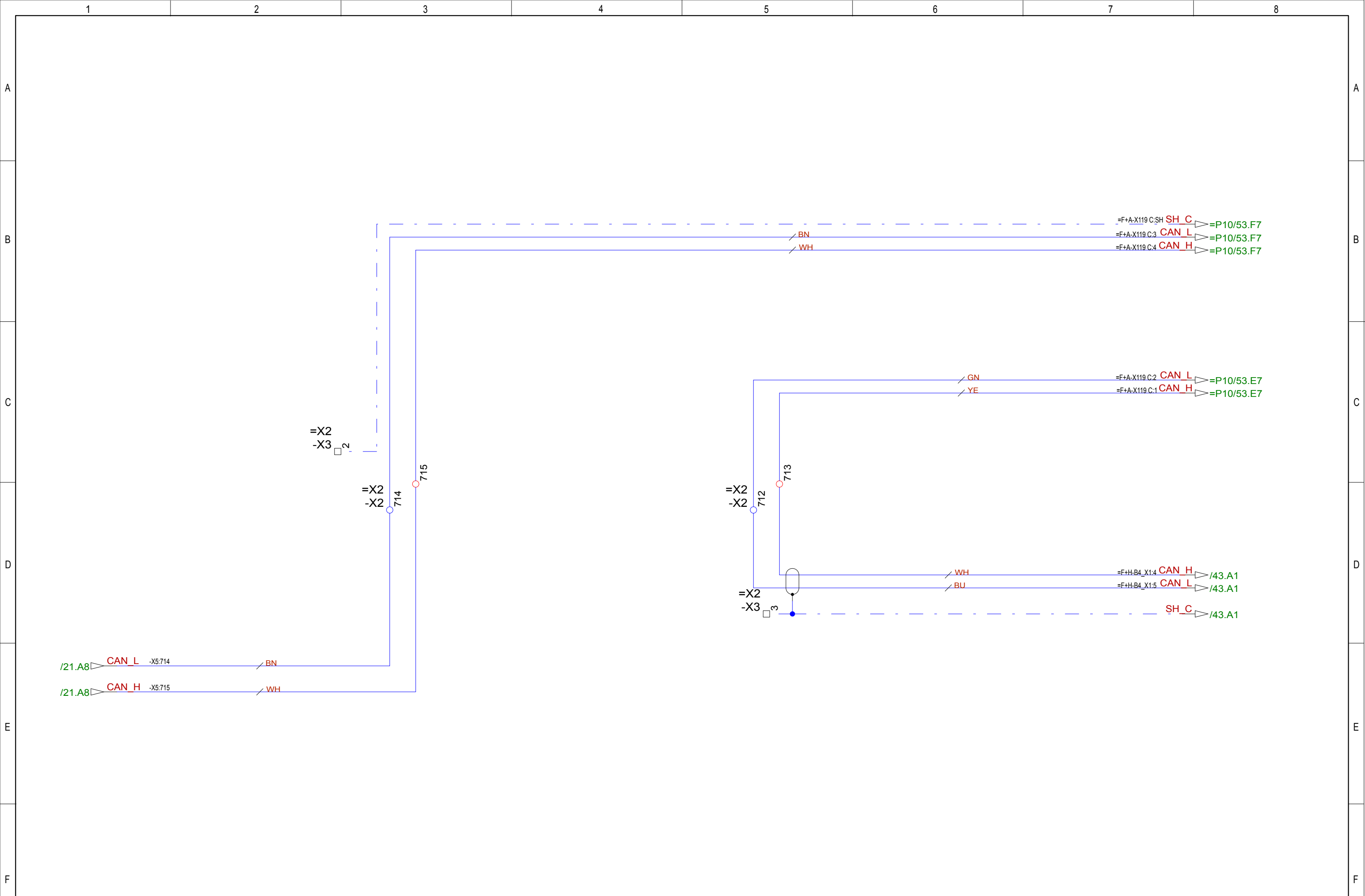
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|               |       |      | GEZEICHNET | 12.08.2015 | Seifert    | LIEBHERR  |            | Components    |  | HUBWERK<br>HOIST GEAR<br>MÉC.DE LEVAGE |  | TYP        | 81K.1            | ANLAGE                | =S1       |
|               |       |      | GEPRÜFT    | 22.02.2017 | Seifert W. |           |            |               |  |  |  | ORT        |                  |                       |           |
|               |       |      |            |            |            |           |            |               |  |  |  | ZEICHN.-NR | 4005-23620-83620 | BLATT                 | 39 VON 76 |
| ÄNDERUNGS-NR. | DATUM | NAME |            | DATUM      | NAME       | ECN100915 | INDEX: 005 | Copyright (c) |  |  |  |            |                  | ARTIKEL-CODE 90213137 |           |



|               |       |      |            |            |            |           |            |            |               |  |  |            |                  |              |           |
|---------------|-------|------|------------|------------|------------|-----------|------------|------------|---------------|--|--|------------|------------------|--------------|-----------|
|               |       |      | GEZEICHNET | 12.08.2015 | Seifert    | LIEBHERR  |            | Components |               | FAHRWERK<br>TRAVELLING GEAR<br>L'ENSEMBLE DE TRANSLATION |  | TYP        | 81K.1            | ANLAGE       | =S1       |
|               |       |      | GEPRÜFT    | 22.02.2017 | Seifert W. |           |            |            |               |  |  | ORT        |                  |              |           |
|               |       |      |            |            |            |           |            |            |               |  |  | ZEICHN.-NR | 4005-23620-83620 | BLATT        | 40 VON 76 |
| ÄNDERUNGS-NR. | DATUM | NAME |            | DATUM      | NAME       | ECN100915 | INDEX: 005 |            | Copyright (c) |  |  |            |                  | ARTIKEL-CODE | 90213137  |



|               |       |      |            |            |            |           |            |               |  |  |  |            |                  |  |              |           |
|---------------|-------|------|------------|------------|------------|-----------|------------|---------------|--|--|--|------------|------------------|--|--------------|-----------|
|               |       |      | GEZEICHNET | 12.08.2015 | Seifert    | LIEBHERR  |            | Components    |  | FAHRWERK<br>TRAVELLING GEAR<br>L'ENSEMBLE DE TRANSLATION |  | TYP        | 81K.1            |  | ANLAGE       | =S1       |
|               |       |      | GEPRÜFT    | 22.02.2017 | Seifert W. |           |            |               |  |  |  |            |                  |  | ORT          |           |
| ÄNDERUNGS-NR. | DATUM | NAME |            | DATUM      | NAME       |           |            |               |  |  |  | ZEICHN.-NR | 4005-23620-83620 |  | BLATT        | 41 VON 76 |
|               |       |      |            |            |            | ECN100915 | INDEX: 005 | Copyright (c) |  |  |  |            |                  |  | ARTIKEL-CODE | 90213137  |



|               |            |              |            |            |            |           |            |               |  |                   |            |                  |              |           |
|---------------|------------|--------------|------------|------------|------------|-----------|------------|---------------|--|-------------------|------------|------------------|--------------|-----------|
| 20164550      | 08.07.2016 | Seifert Walt | GEZEICHNET | 12.08.2015 | Seifert    | LIEBHERR  |            | Components    |  | BUS<br>BUS<br>BUS | TYP        | 81K.1            | ANLAGE       | =S1       |
|               |            |              | GEPRÜFT    | 22.02.2017 | Seifert W. |           |            |               |  |                   |            |                  | ORT          |           |
|               |            |              |            |            |            |           |            |               |  |                   | ZEICHN.-NR | 4005-23620-83620 | BLATT        | 42 VON 76 |
| ÄNDERUNGS-NR. | DATUM      | NAME         |            | DATUM      | NAME       | ECN100915 | INDEX: 005 | Copyright (c) |  |                   |            |                  | ARTIKEL-CODE | 90213137  |

1

2

3

4

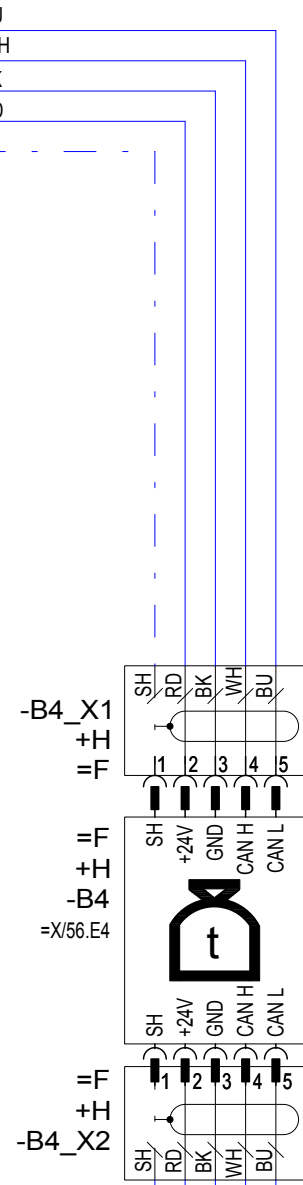
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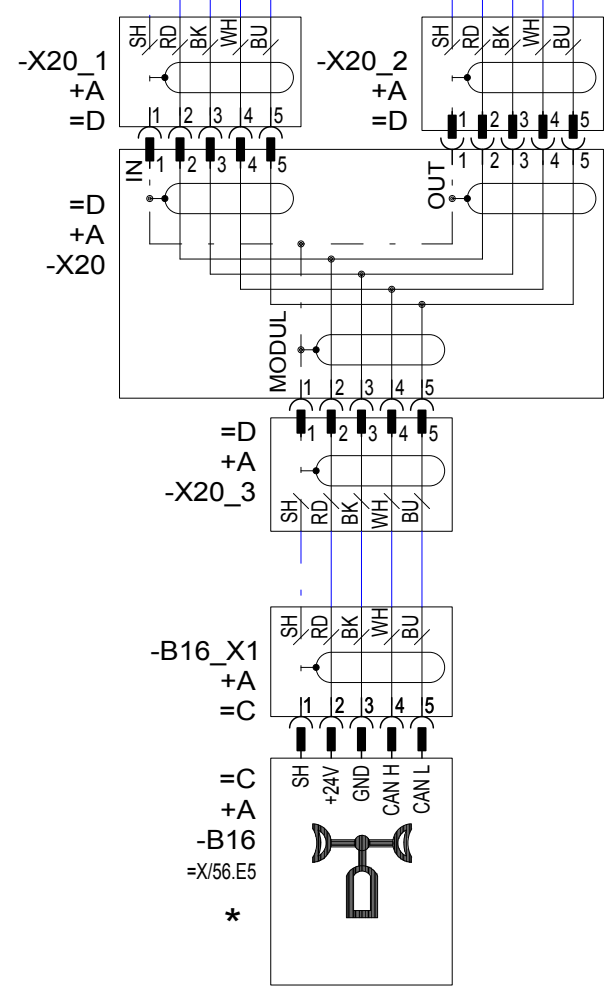
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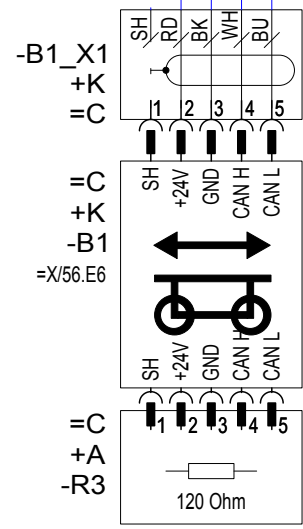
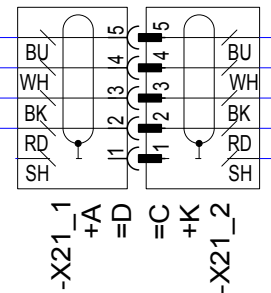
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/42.D7 CAN H=X2-X2.713  
/33.D8 2=X2-X2-  
/33.D8 1=X2-X2+  
/42.D7 SH\_C



LAST  
LOAD  
CHARGE

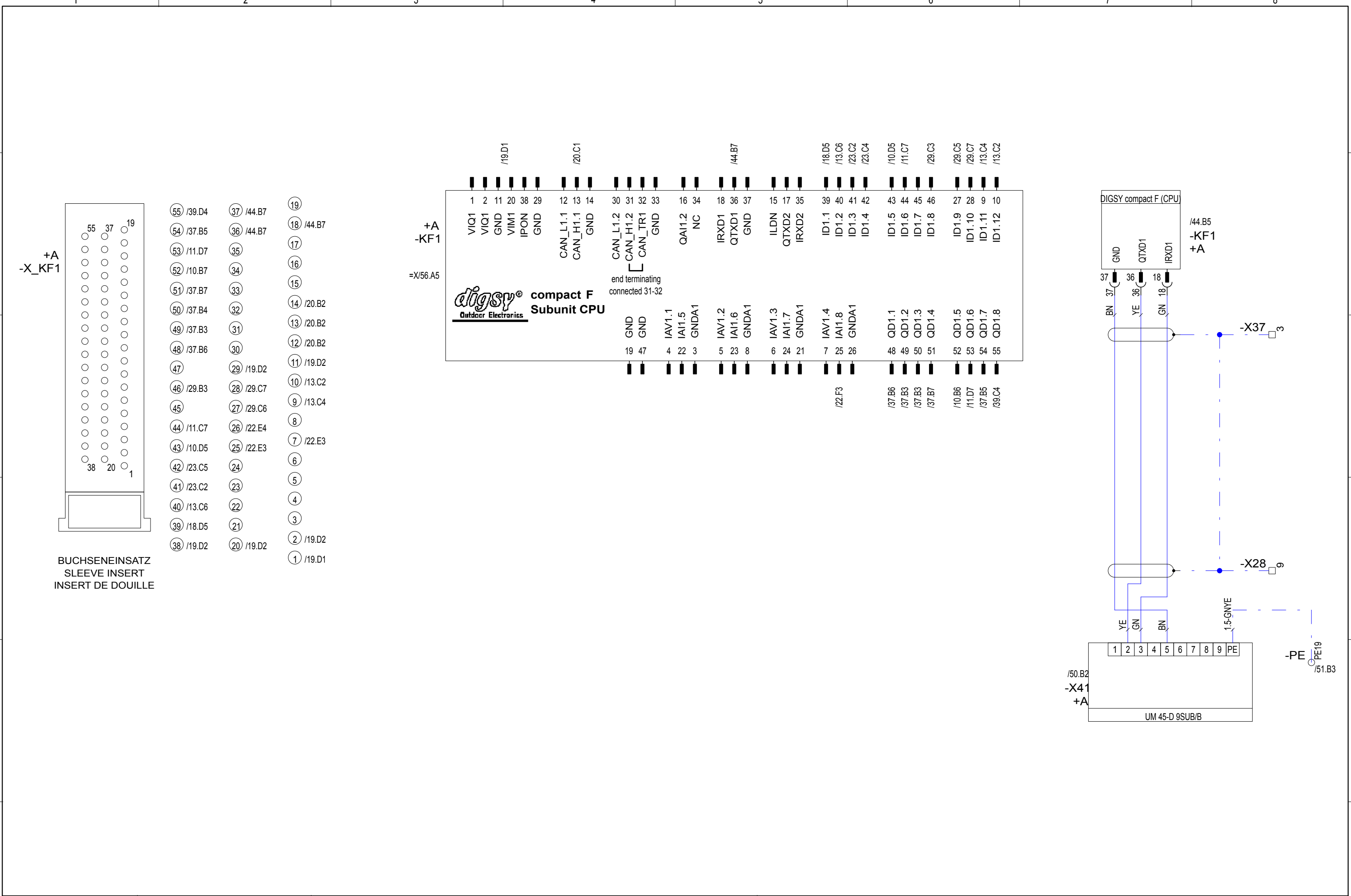


\*  
WINDMESSER  
ANEMOMETER  
ANÉMOMÈTRE

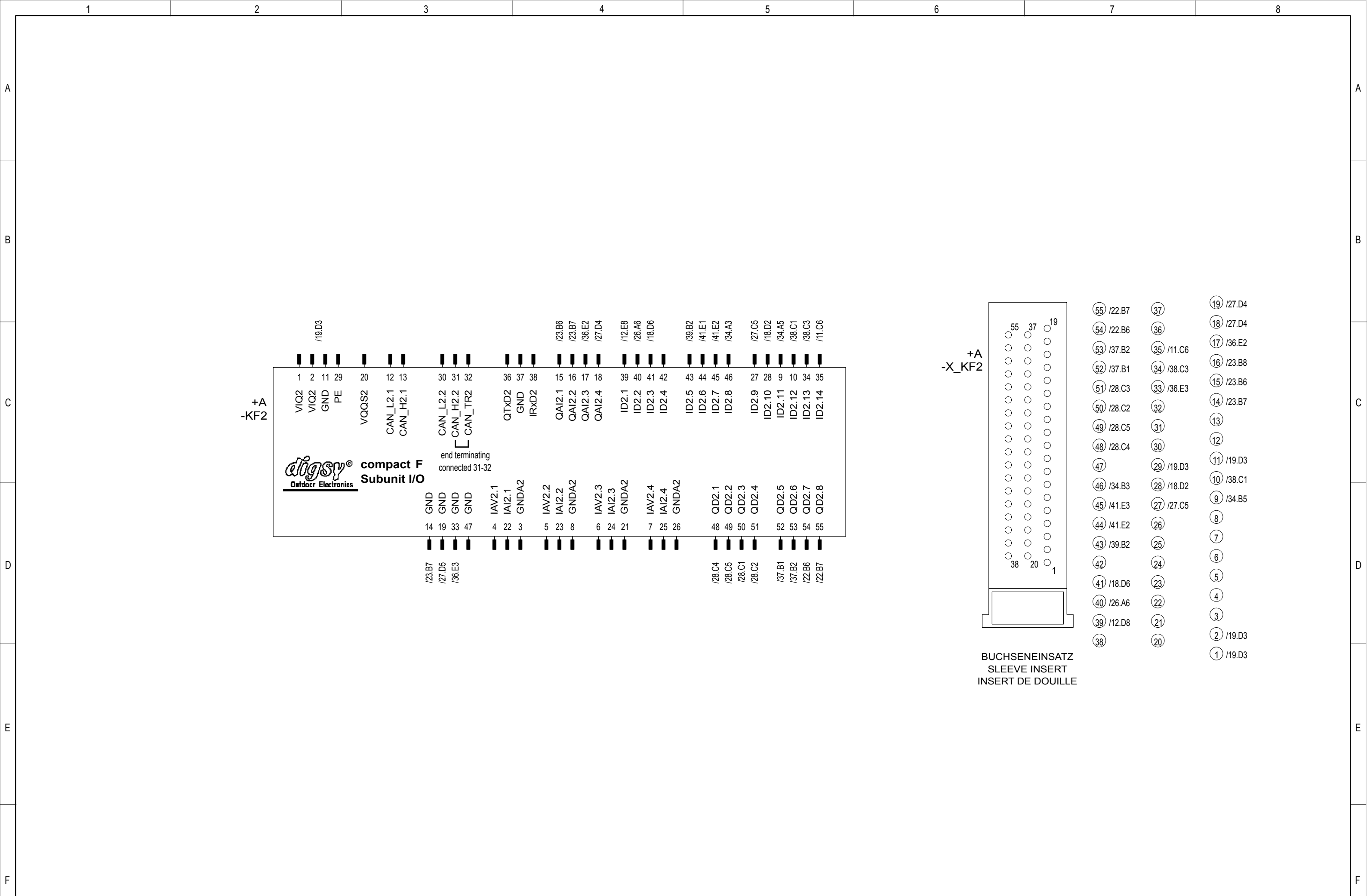


KATZFAHRWERK  
TROLLEY TRAVEL GEAR  
MÉC.DE DISTRIBUTION

|               |       |      |            |            |            |           |            |               |  |                                 |  |            |                  |  |              |           |
|---------------|-------|------|------------|------------|------------|-----------|------------|---------------|--|---------------------------------|--|------------|------------------|--|--------------|-----------|
|               |       |      | GEZEICHNET | 12.08.2015 | Seifert    | LIEBHERR  |            | Components    |  | SENSOREN<br>SENSORS<br>CAPTEURS |  | TYP        | 81K.1            |  | ANLAGE       | =S1       |
|               |       |      | GEPRÜFT    | 22.02.2017 | Seifert W. |           |            |               |  |                                 |  |            |                  |  | ORT          |           |
| ÄNDERUNGS-NR. | DATUM | NAME |            | DATUM      | NAME       |           |            |               |  |                                 |  | ZEICHN.-NR | 4005-23620-83620 |  | BLATT        | 43 VON 76 |
|               |       |      |            |            |            | ECN100915 | INDEX: 005 | Copyright (c) |  |                                 |  |            |                  |  | ARTIKEL-CODE | 90213137  |

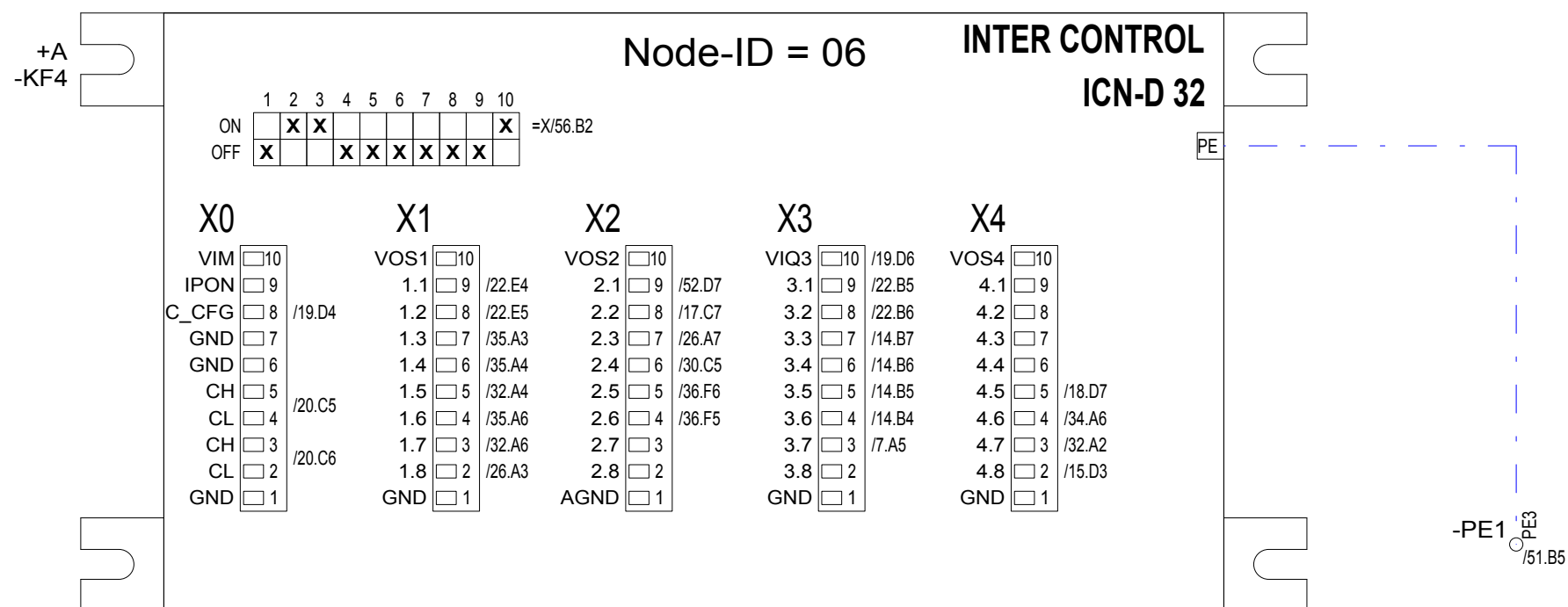


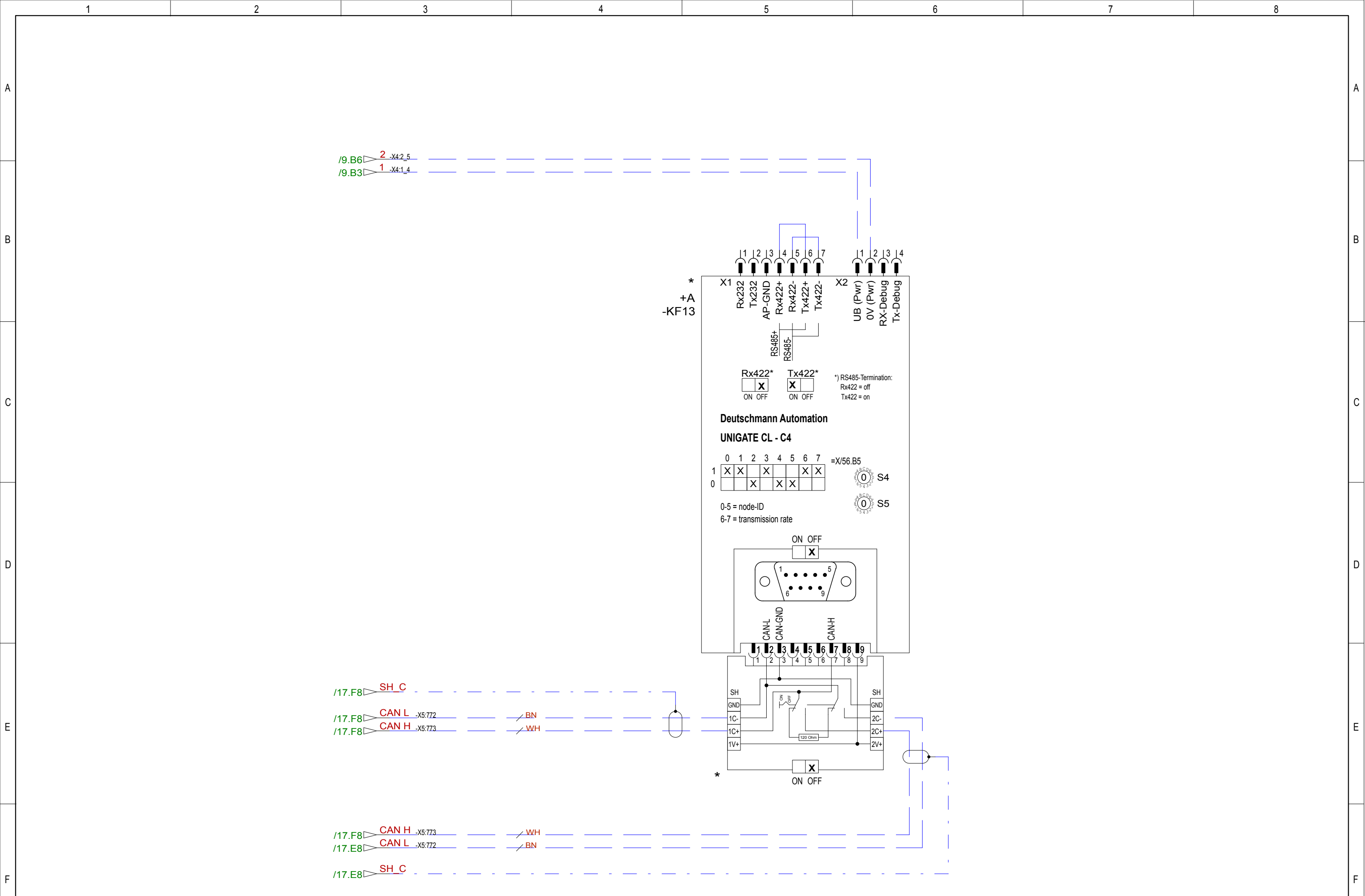
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|               |       |      | GEZEICHNET | 12.08.2015 | Seifert    | LIEBHERR  |            | Components |               | SPS<br>PLC<br>CPM |  | TYP              | 81K.1 |  | ANLAGE                | =S1       |
|               |       |      | GEPRÜFT    | 22.02.2017 | Seifert W. |           |            |            |               |                   |  |                  |       |  | ORT                   |           |
|               |       |      |            |            |            |           |            |            |               |                   |  | ZEICHN.-NR       |       |  | BLATT                 | 44 VON 76 |
| ÄNDERUNGS-NR. | DATUM | NAME |            | DATUM      | NAME       | ECN100915 | INDEX: 005 |            | Copyright (c) |                   |  | 4005-23620-83620 |       |  | ARTIKEL-CODE 90213137 |           |



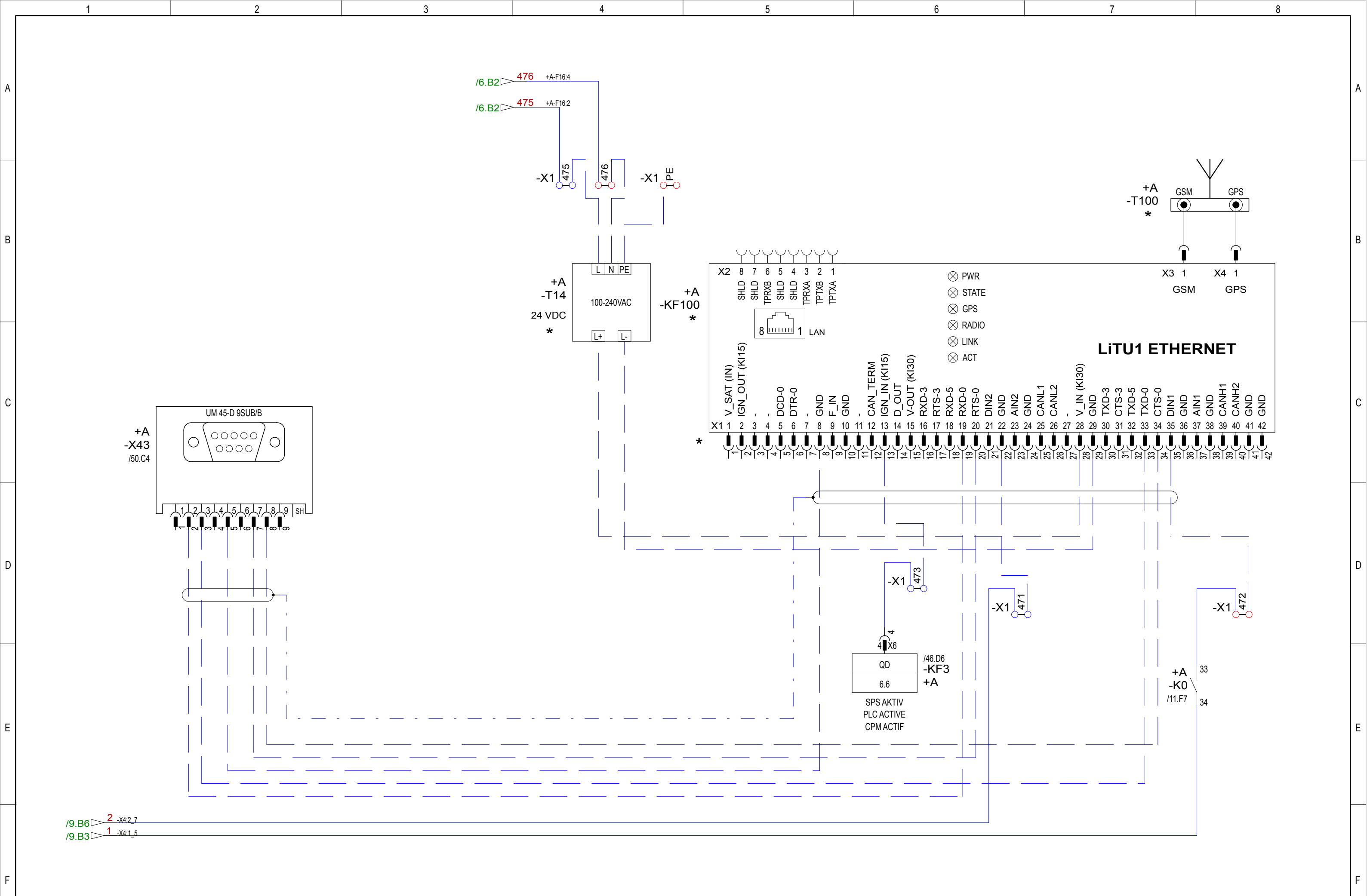
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|               |       |      | GEZEICHNET | 12.08.2015 | Seifert    | LIEBHERR  |            | Components |               | SPS<br>PLC<br>CPM | TYP        | 81K.1            | ANLAGE       | =S1       |
|               |       |      | GEPRÜFT    | 22.02.2017 | Seifert W. |           |            |            |               |                   |            |                  | ORT          |           |
|               |       |      |            |            |            |           |            |            |               |                   |            |                  |              |           |
| ÄNDERUNGS-NR. | DATUM | NAME |            | DATUM      | NAME       | ECN100915 | INDEX: 005 |            | Copyright (c) |                   | ZEICHN.-NR | 4005-23620-83620 | BLATT        | 45 VON 76 |
|               |       |      |            |            |            |           |            |            |               |                   |            |                  | ARTIKEL-CODE | 90213137  |



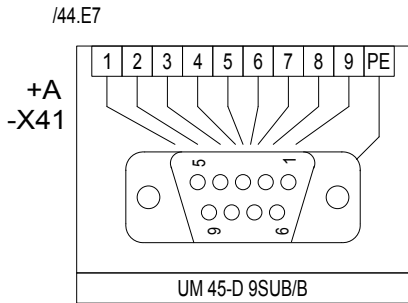




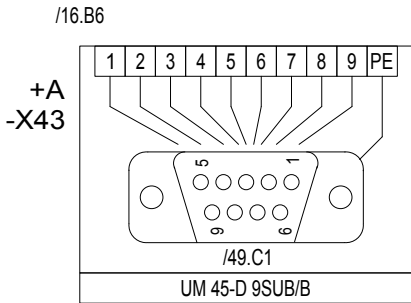
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|---------------|-------|------|------------|------------|------------|-----------|------------|---------------|--|---|--|------------|-------|------------------|--------------|-----------|
|               |       |      | GEZEICHNET | 12.08.2015 | Seifert    | LIEBHERR  |            | Components    |  | ANTI KOLLISIONS SYSTEM "AKS"<br>ANTI COLLISION SYSTEM "AKS"<br>SYSTEME ANTI-COLLISION "AKS" |  | TYP        | 81K.1 |                  | ANLAGE       | =S1       |
|               |       |      | GEPRÜFT    | 22.02.2017 | Seifert W. |           |            |               |  |   |  | ZEICHN.-NR |       | 4005-23620-83620 | ORT          |           |
| ÄNDERUNGS-NR. | DATUM | NAME |            | DATUM      | NAME       |           |            |               |  |   |  |            |       |                  | BLATT        | 48 VON 76 |
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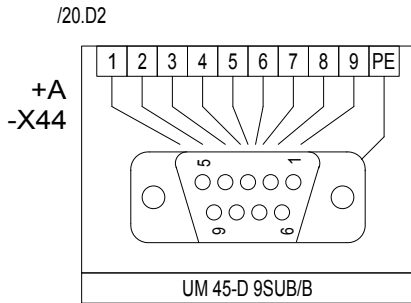
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|               |       |      | GEZEICHNET | 12.08.2015 | Seifert    | LIEBHERR  |            | Components    |  | DFÜ<br>RDT<br>EDI |  | TYP        | 81K.1            |  | ANLAGE       | =S1       |
|               |       |      | GEPRÜFT    | 22.02.2017 | Seifert W. |           |            |               |  |                   |  |            |                  |  | ORT          |           |
| ÄNDERUNGS-NR. | DATUM | NAME |            | DATUM      | NAME       |           |            |               |  |                   |  | ZEICHN.-NR | 4005-23620-83620 |  | BLATT        | 49 VON 76 |
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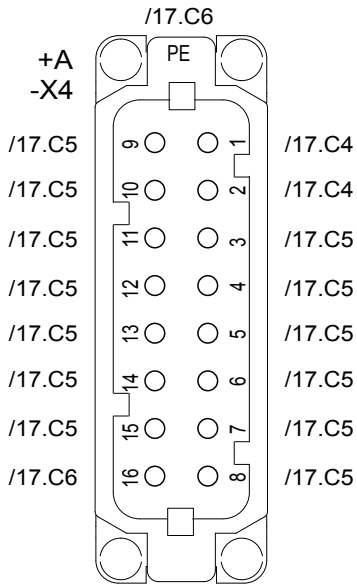
PROGRAMMIERSCHNITTSTELLE KF1  
PROGRAMMING INTERFACE KF1  
INTERFACE DE PROGRAMMATION KF1



PROGRAMMIERSCHNITTSTELLE P9  
PROGRAMMING INTERFACE P9  
INTERFACE DE PROGRAMMATION P9

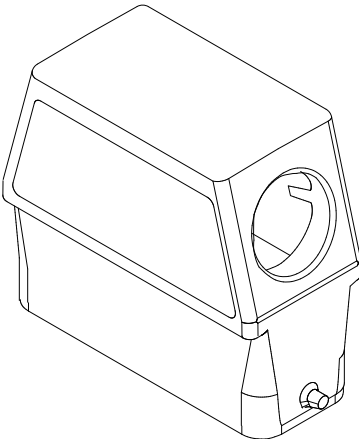


BUS DIAGNOSE STECKER  
BUS DIAGNOSTIC PLUG  
DIAGNOSE BUS FICHE

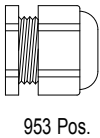


BUCHSENEINSATZ  
SLEEVE INSERT  
INSERT DE DOUILLE

STECKERVERBINDER FUNKANSCHLUSS  
PIN-AND SOCKET CONNECTOR RADIO CONNECTION  
CONNECTEUR ; FICHES RACCORDEMENT RADIO



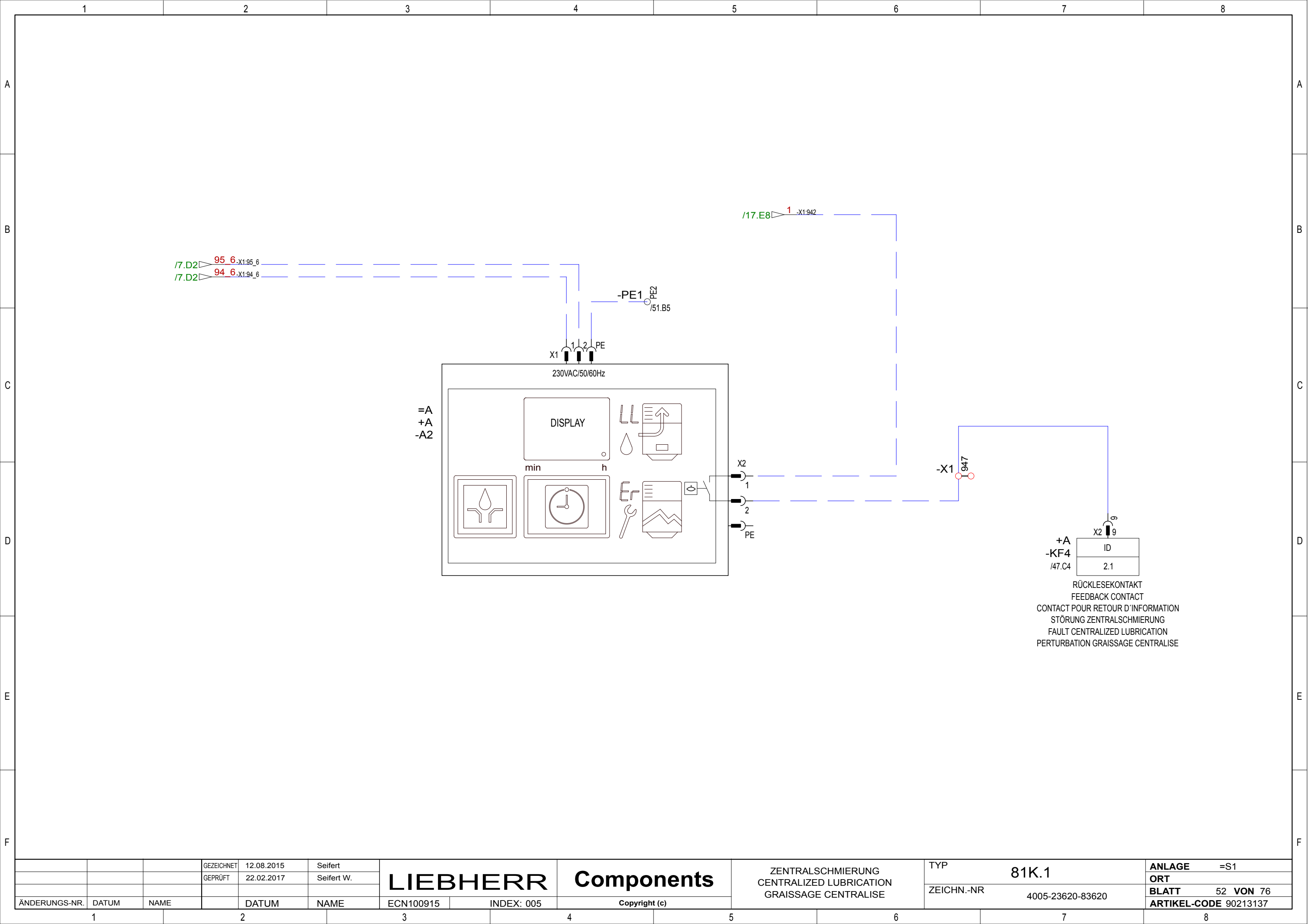
GEHÄUSE  
HOUSING  
CARTER



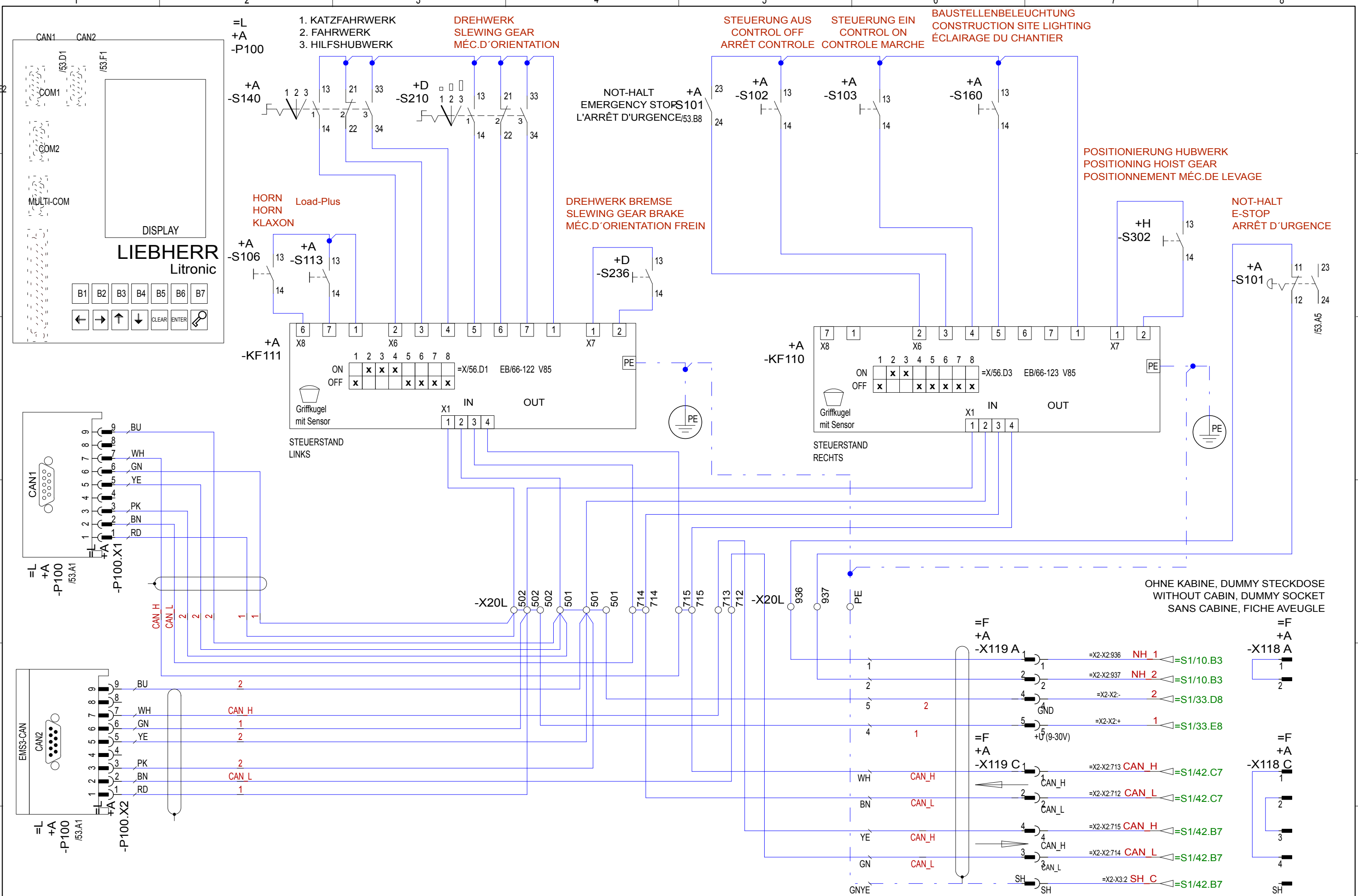
953 Pos.

|               |       |      |            |            |            |           |            |               |  |   |  |            |                  |              |           |
|---------------|-------|------|------------|------------|------------|-----------|------------|---------------|--|---|--|------------|------------------|--------------|-----------|
|               |       |      | GEZEICHNET | 12.08.2015 | Seifert    | LIEBHERR  |            | Components    |  | ÜBERSICHT<br>GENERAL SURVEY<br>APERCU INDEX |  | TYP        | 81K.1            | ANLAGE       | =S1       |
|               |       |      | GEPRÜFT    | 22.02.2017 | Seifert W. |           |            |               |  |   |  |            |                  | ORT          |           |
|               |       |      |            |            |            |           |            |               |  |   |  | ZEICHN.-NR | 4005-23620-83620 | BLATT        | 50 VON 76 |
| ÄNDERUNGS-NR. | DATUM | NAME |            | DATUM      | NAME       | ECN100915 | INDEX: 005 | Copyright (c) |  |   |  |            |                  | ARTIKEL-CODE | 90213137  |

|               |       |      |            |            |            |           |            |               |   |            |                  |                       |
|---------------|-------|------|------------|------------|------------|-----------|------------|---------------|---|------------|------------------|-----------------------|
|               |       |      | GEZEICHNET | 12.08.2015 | Seifert    | LIEBHERR  |            | Components    | ÜBERSICHT<br>GENERAL SURVEY<br>APERCU INDEX | TYP        | 81K.1            | ANLAGE =S1            |
|               |       |      | GEPRÜFT    | 22.02.2017 | Seifert W. |           |            |               |   | ORT        |                  |                       |
|               |       |      |            |            |            |           |            |               |   | ZEICHN.-NR | 4005-23620-83620 | BLATT 51 VON 76       |
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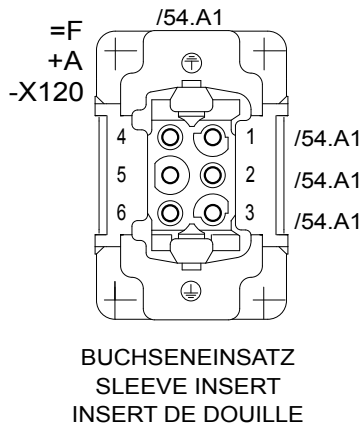
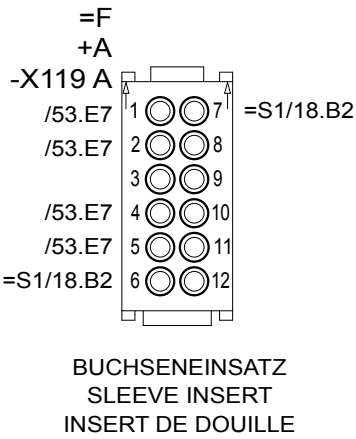
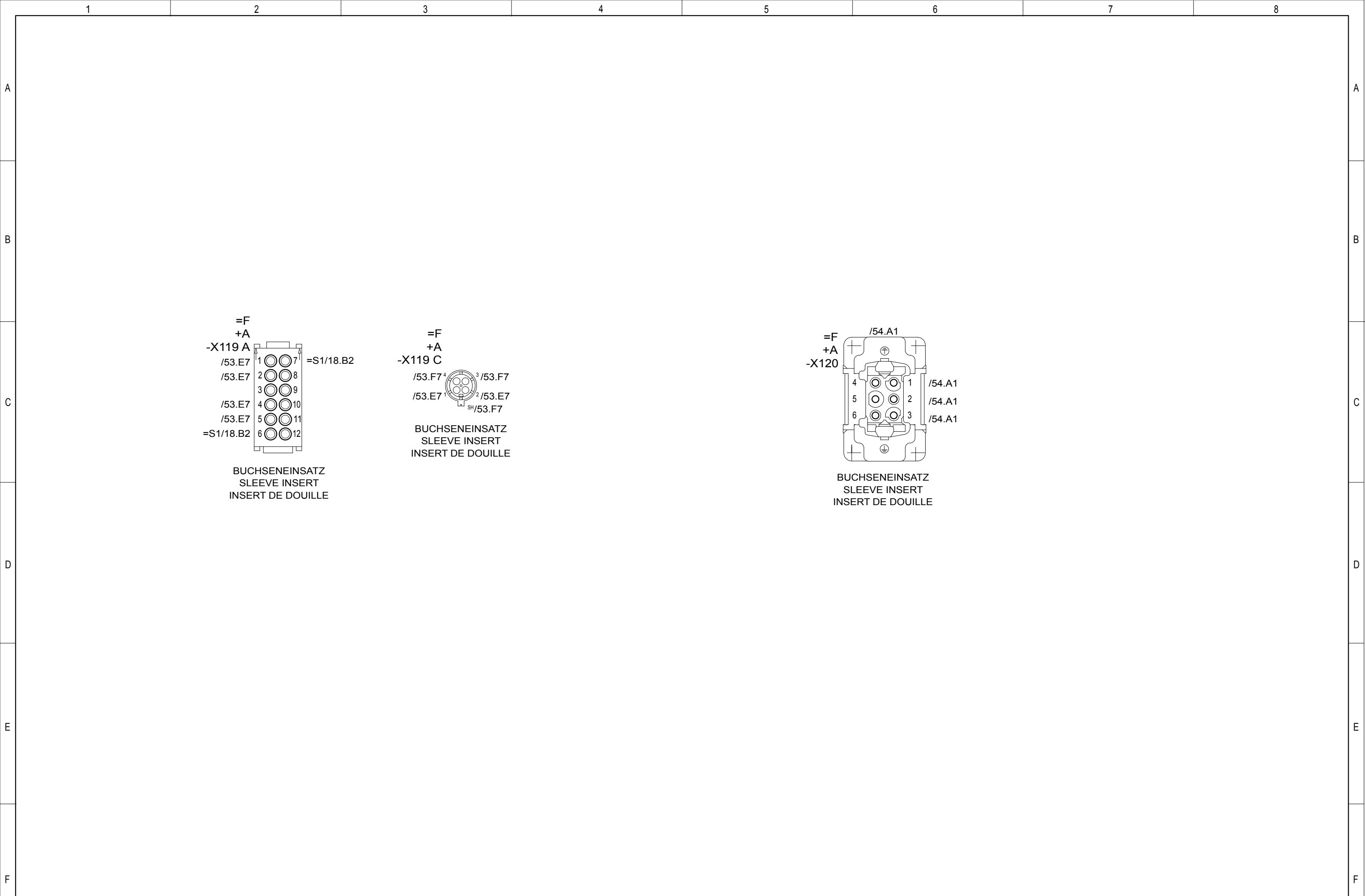


|               |       |      |            |            |            |           |            |            |               |  |  |            |                  |  |                       |  |
|---------------|-------|------|------------|------------|------------|-----------|------------|------------|---------------|--|--|------------|------------------|--|-----------------------|--|
|               |       |      | GEZEICHNET | 12.08.2015 | Seifert    | LIEBHERR  |            | Components |               | ZENTRALSCHMIERUNG<br>CENTRALIZED LUBRICATION<br>GRAISSAGE CENTRALISE |  | TYP        | 81K.1            |  | ANLAGE =S1            |  |
|               |       |      | GEPRÜFT    | 22.02.2017 | Seifert W. |           |            |            |               |  |  |            |                  |  | ORT                   |  |
|               |       |      |            |            |            |           |            |            |               |  |  | ZEICHN.-NR | 4005-23620-83620 |  | BLATT 52 VON 76       |  |
| ÄNDERUNGS-NR. | DATUM | NAME |            | DATUM      | NAME       | ECN100915 | INDEX: 005 |            | Copyright (c) |  |  |            |                  |  | ARTIKEL-CODE 90213137 |  |

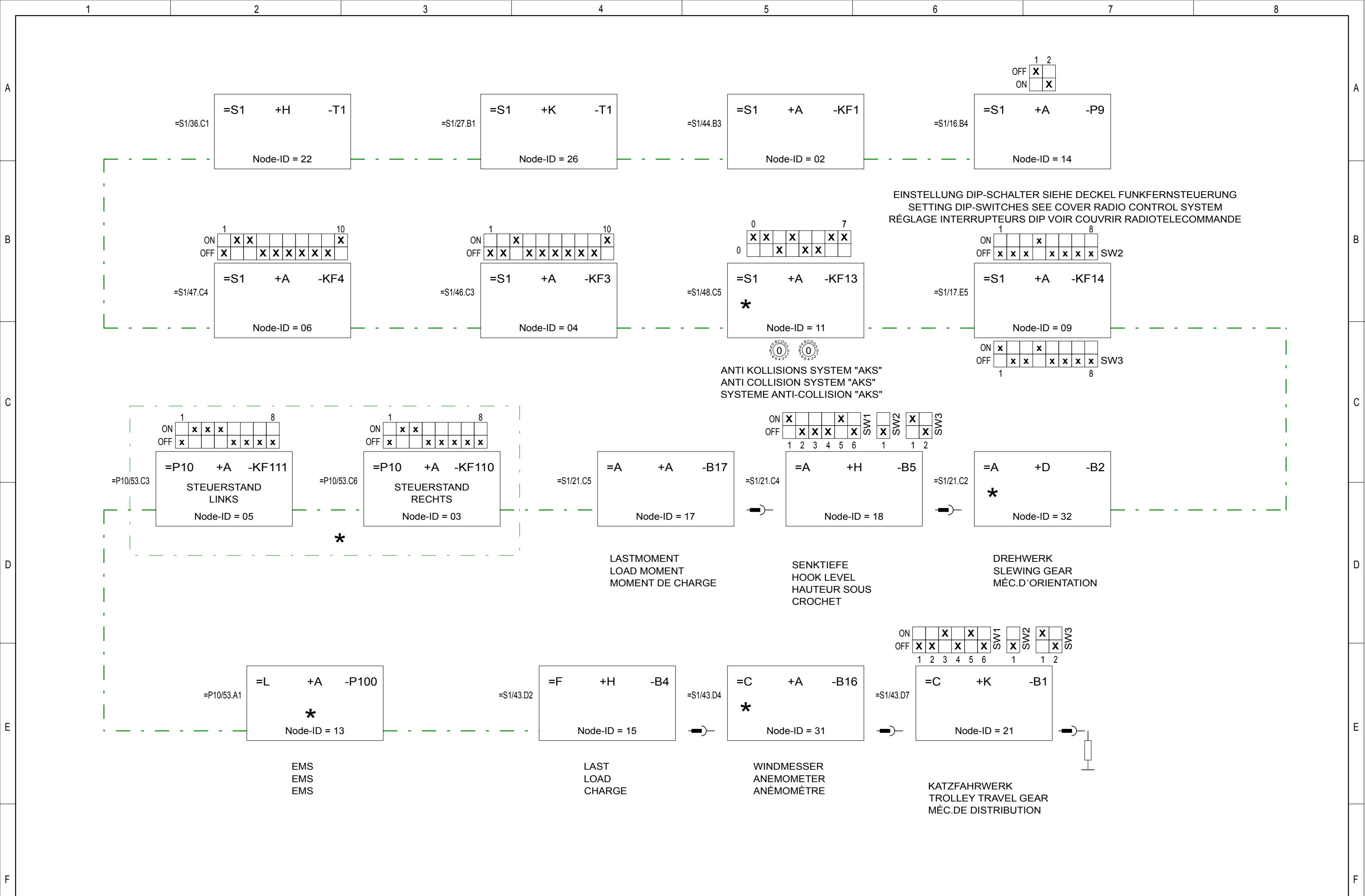


|               |            |              |            |            |            |                              |            |   |   |                       |  |
|---------------|------------|--------------|------------|------------|------------|------------------------------|------------|---|---|-----------------------|--|
| 20164550      | 08.07.2016 | Seifert Walt | GEZEICHNET | 05.07.2016 | Kurray     | <b>LIEBHERR Tower Cranes</b> |            | STEUERSTAND KST20<br>CONTROL STAND KST20<br>POSTE DE COMMANDE KST20 | TYP<br><b>81K.1</b><br>ZEICHN.-NR<br>4005-23620-83620-005-ELI | ANLAGE =P10           |  |
| 20165172      | 04.10.2016 | Seifert Walt | GEPRÜFT    | 22.02.2017 | Seifert W. |                              |            |   |   | ORT                   |  |
|               |            |              | FREIGABE   | 17.10.2016 | Stoehr_R   |                              |            |   |   | BLATT 53 VON 76       |  |
| ÄNDERUNGS-NR. | DATUM      | NAME         |            | DATUM      | NAME       | ECN100915                    | INDEX: 4.0 | Copyright (c)   |   | ARTIKEL-CODE 10180509 |  |

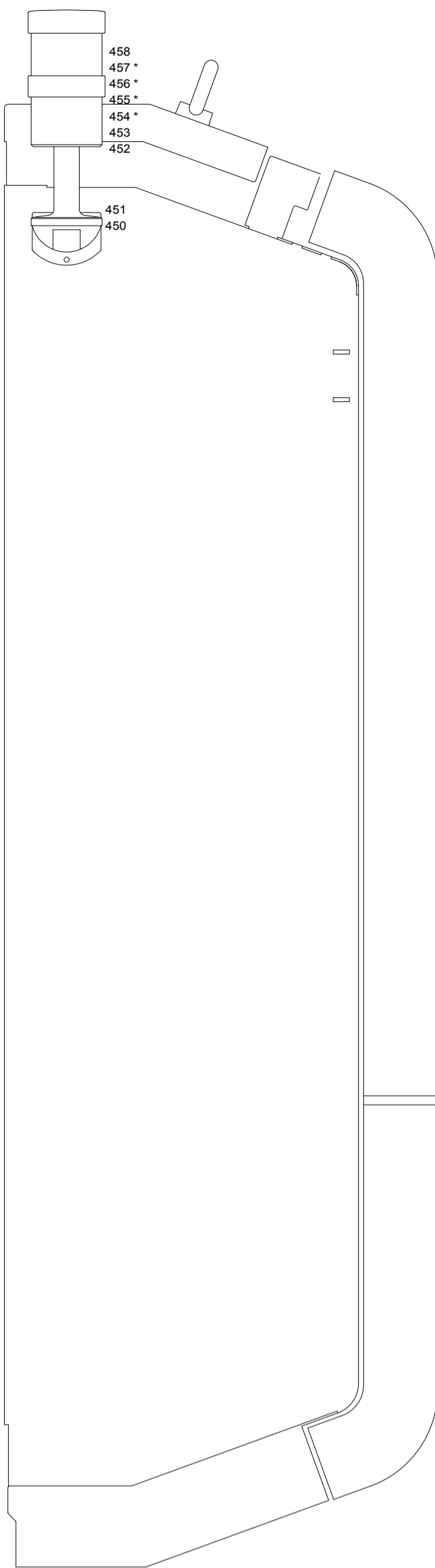




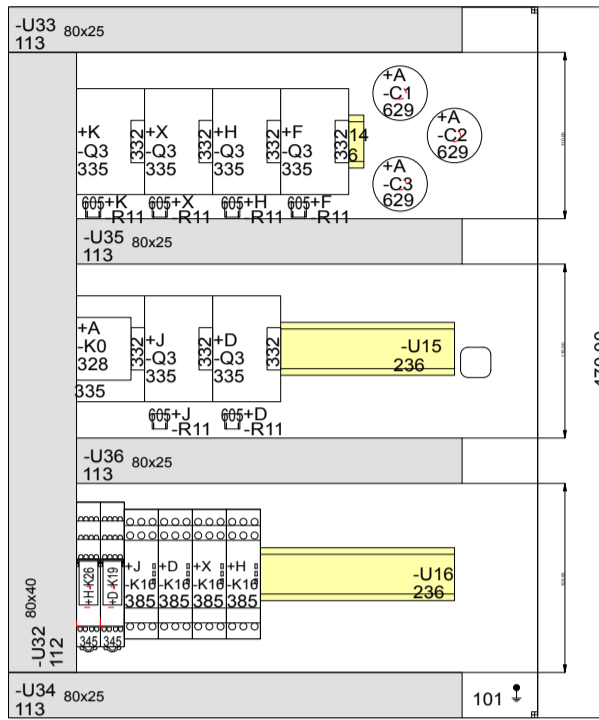
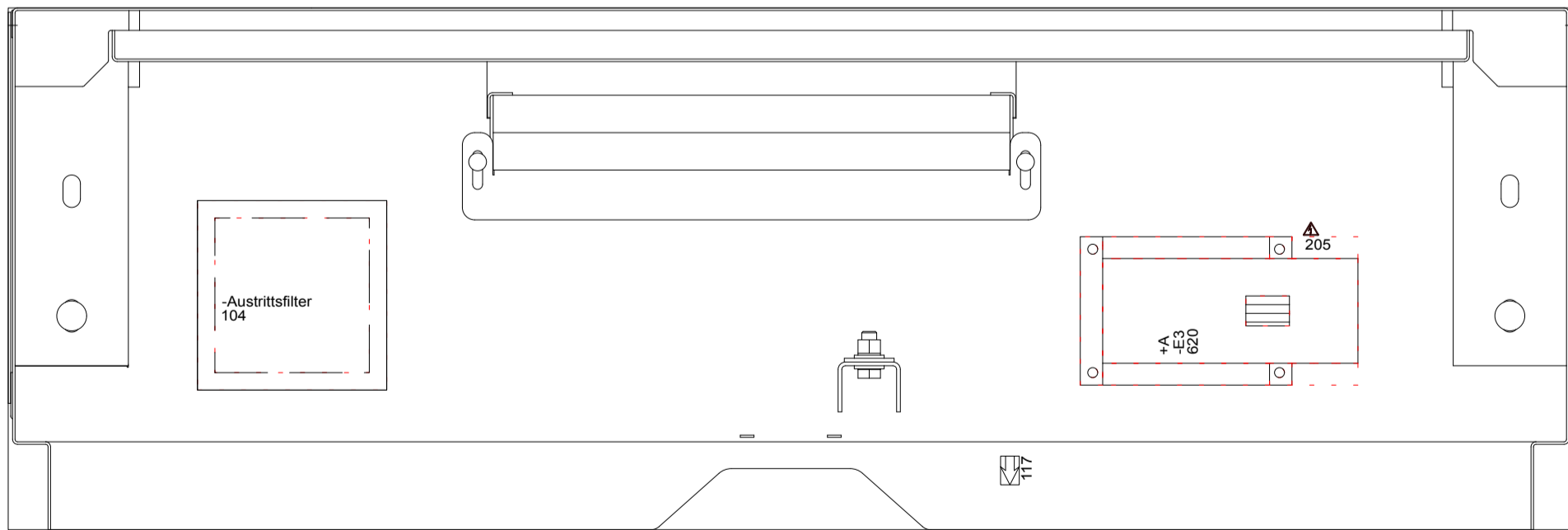
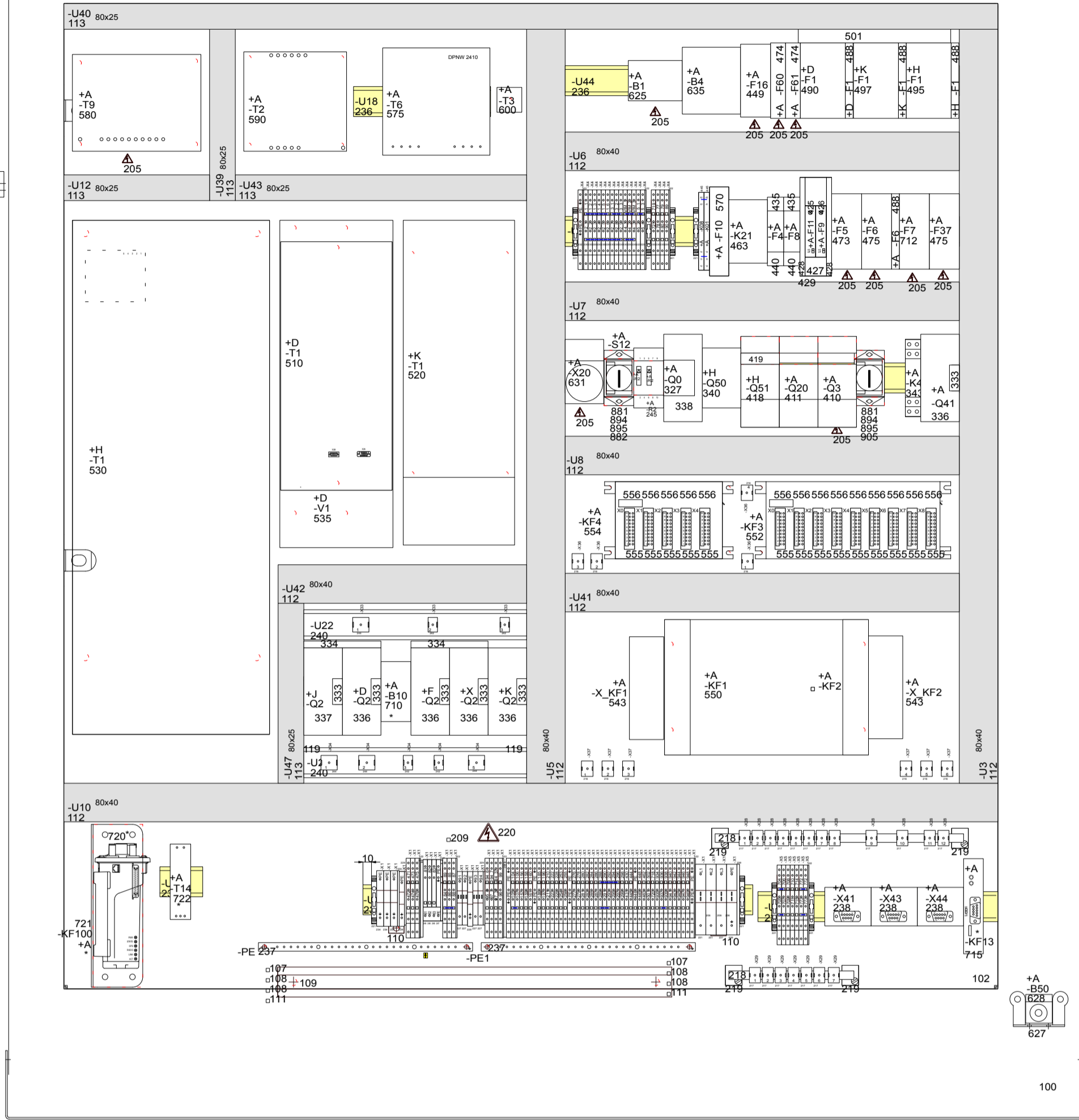
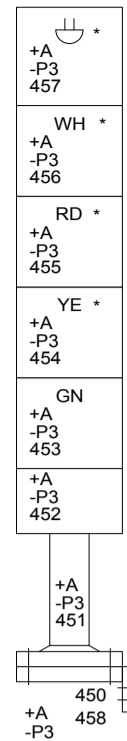
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|---------------|------------|--------------|------------|------------|------------|-----------|------------|---------------|--|---|------------|------------------|--------------|-----------|
| 20164550      | 08.07.2016 | Seifert Walt | GEZEICHNET | 06.07.2016 |            | LIEBHERR  |            | Components    |  | STEUERSTAND KST20<br>CONTROL STAND KST20<br>POSTE DE COMMANDE KST20 | TYP        | 81K.1            | ANLAGE       | =P10      |
|               |            |              | GEPRÜFT    | 22.02.2017 | Seifert W. |           |            |               |  |   |            |                  | ORT          |           |
|               |            |              |            |            |            |           |            |               |  |   | ZEICHN.-NR |                  | BLATT        | 55 VON 76 |
| ÄNDERUNGS-NR. | DATUM      | NAME         |            | DATUM      | NAME       | ECN100915 | INDEX: 005 | Copyright (c) |  |   |            | 4005-23620-83620 | ARTIKEL-CODE |           |



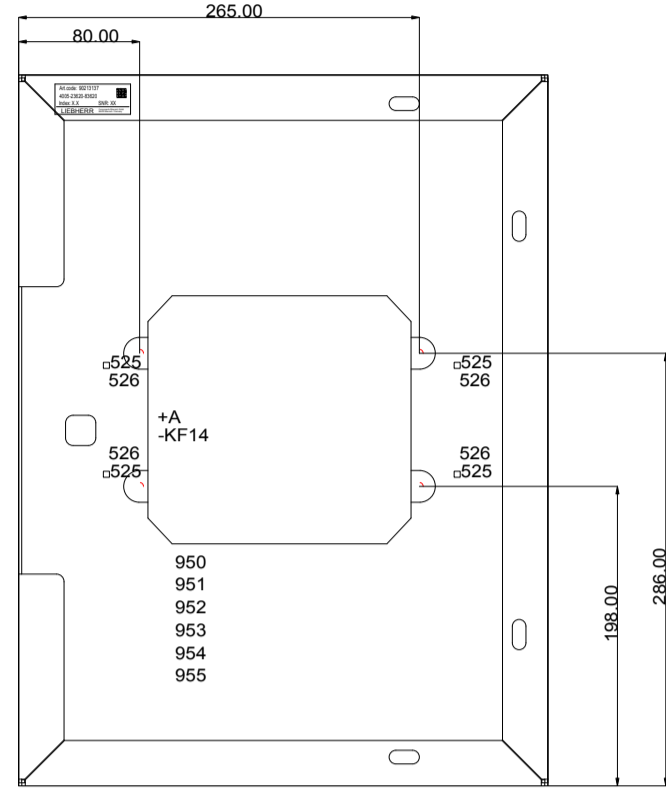
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|---------------|------------|--------------|------------|------------|------------|----------|--|------------|--|-------------------|--|------------|------------|---------------|------------------|-----------------|
| 20164550      | 08.07.2016 | Seifert Walt | GEZEICHNET | 12.08.2015 | Seifert    | LIEBHERR |  | Components |  | BUS<br>BUS<br>BUS |  | TYP        | 81K.1      |               | ANLAGE =X        |                 |
| 20164762      | 01.08.2016 | Seifert Walt | GEPRÜFT    | 22.02.2017 | Seifert W. |          |  |            |  |                   |  | ZEICHN.-NR |            |               | ORT              |                 |
| ÄNDERUNGS-NR. | DATUM      | NAME         |            | DATUM      | NAME       |          |  |            |  |                   |  | ECN100915  | INDEX: 005 | Copyright (c) | 4005-23620-83620 | BLATT 56 VON 76 |



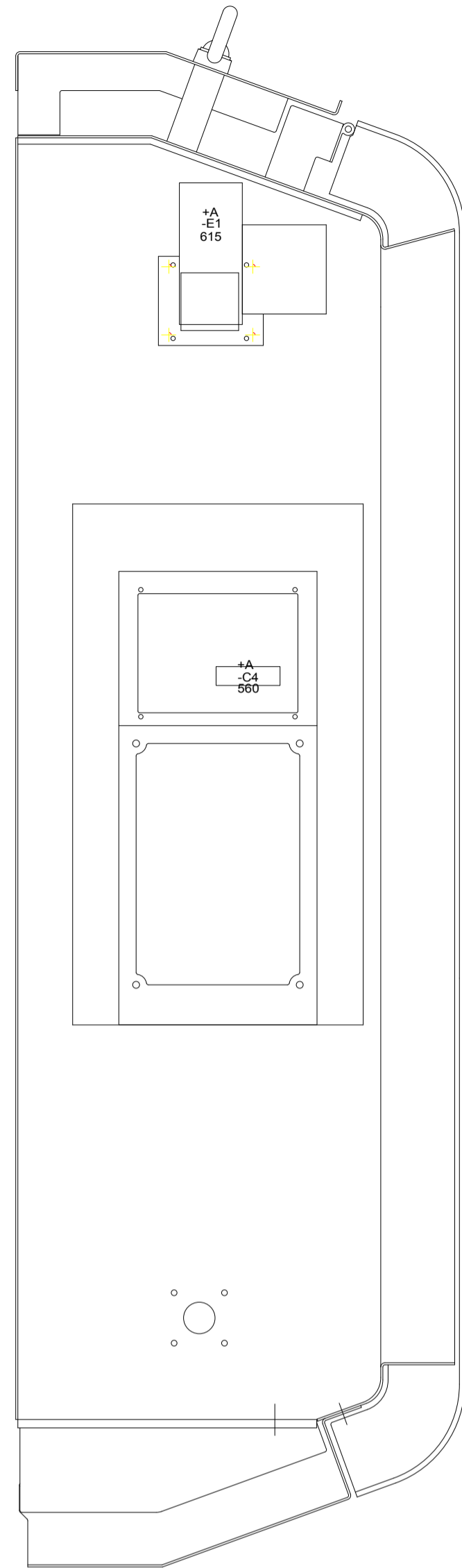
SEITENWAND AUSSEN LINKS  
SIDEWALL OUTSIDE LEFT  
PANNEAU LATÉRAL À L'EXTÉRIEUR À GAUCHE



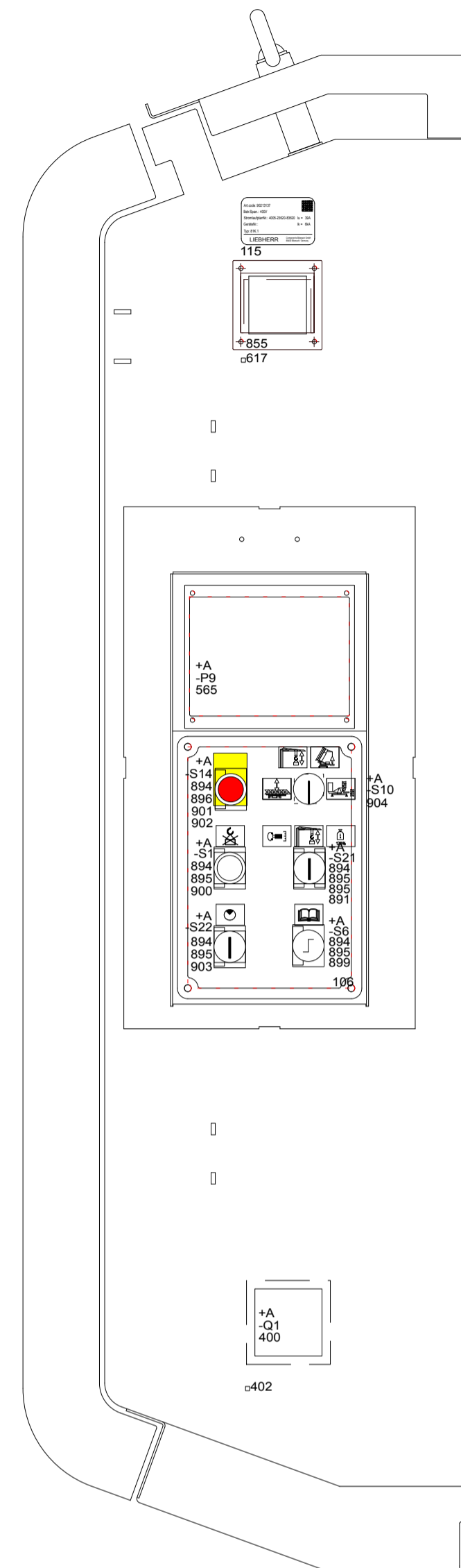
INNEN  
INSIDE  
À L'INTÉRIEUR



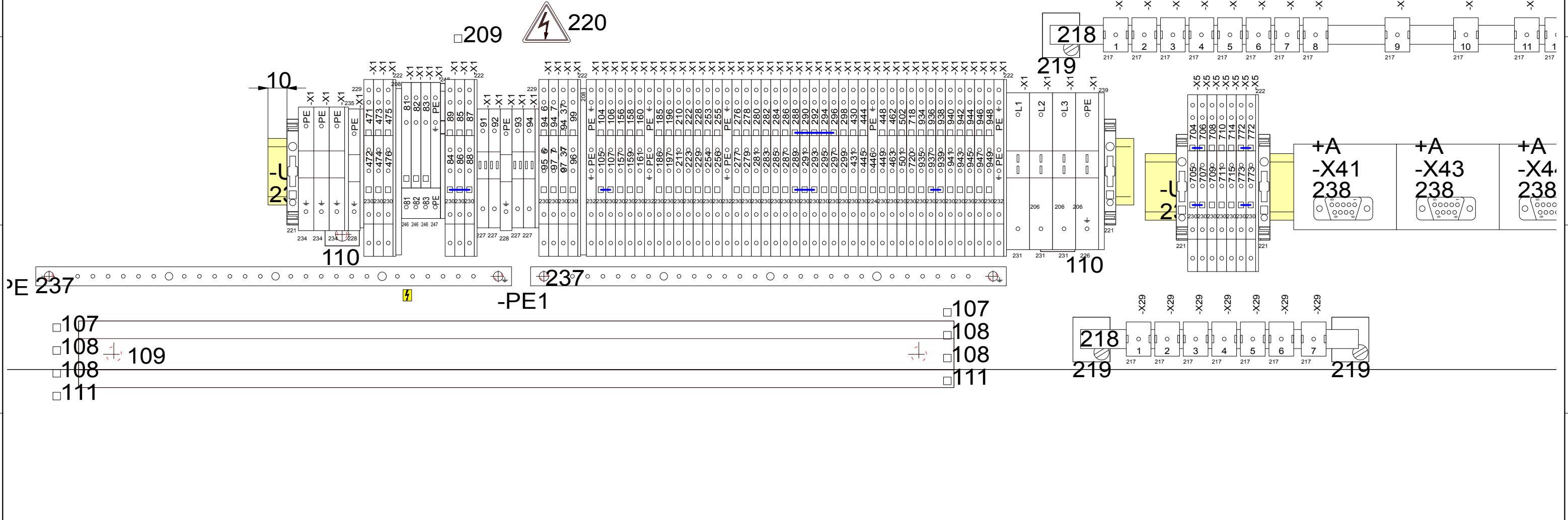
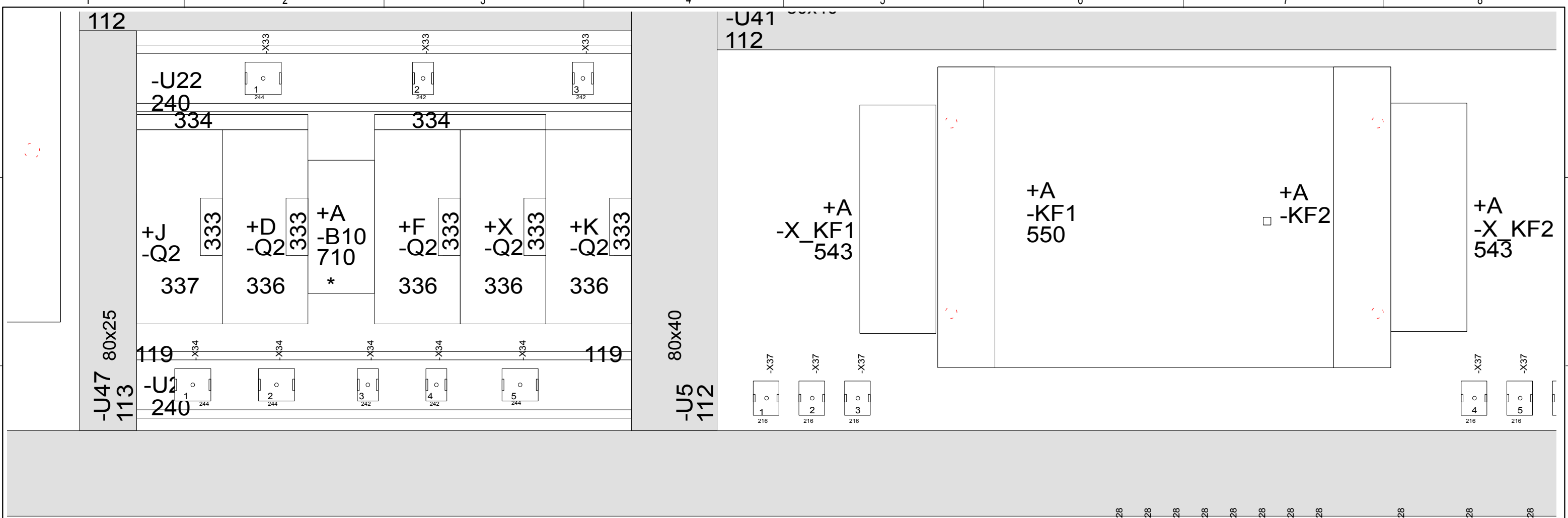
AUSSEN  
OUTSIDE  
À L'EXTÉRIEUR



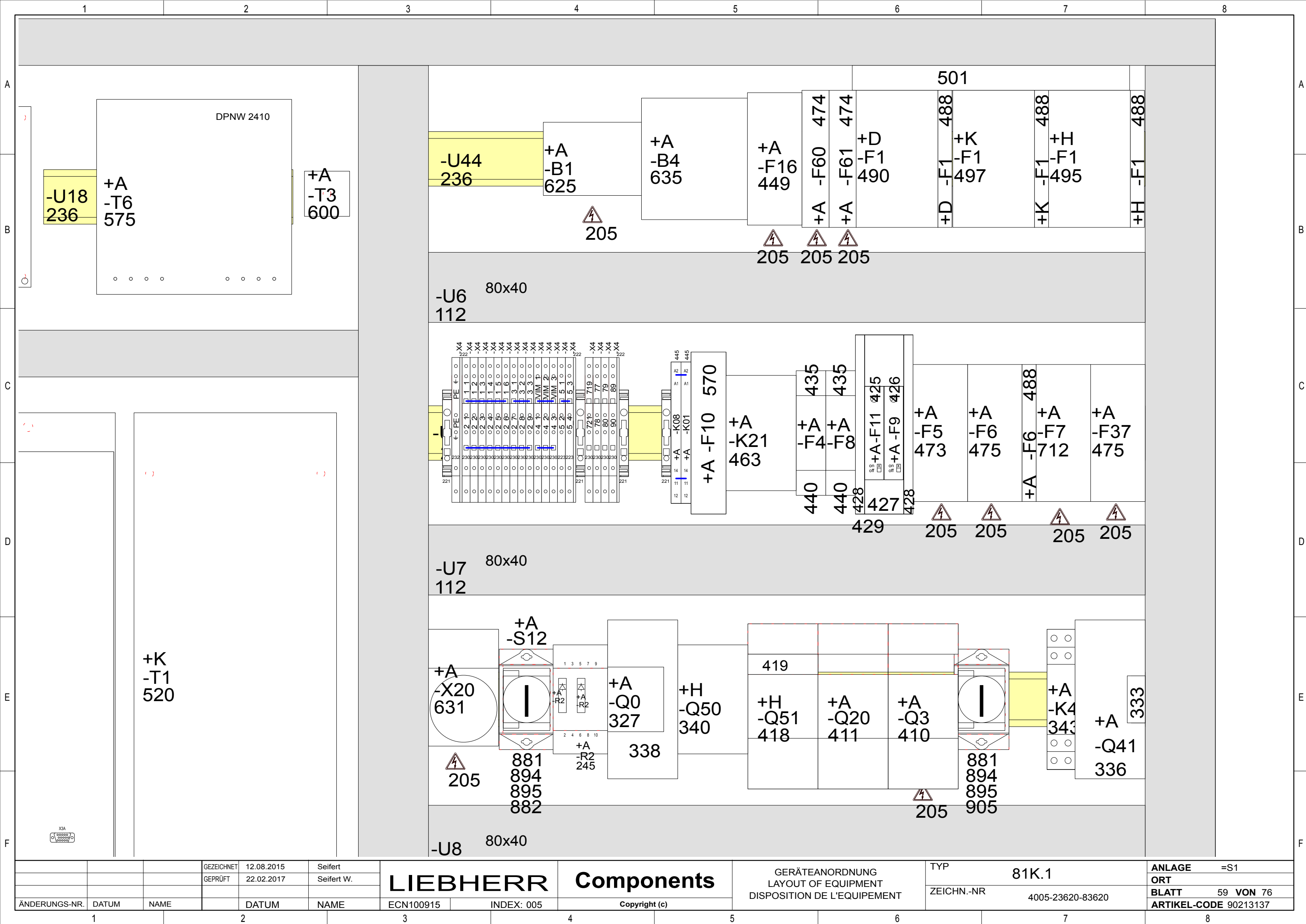
SEITENWAND INNEN RECHTS  
SIDEWALL INSIDE RIGHT  
PANNEAU LATÉRAL À L'INTÉRIEUR À DROITE



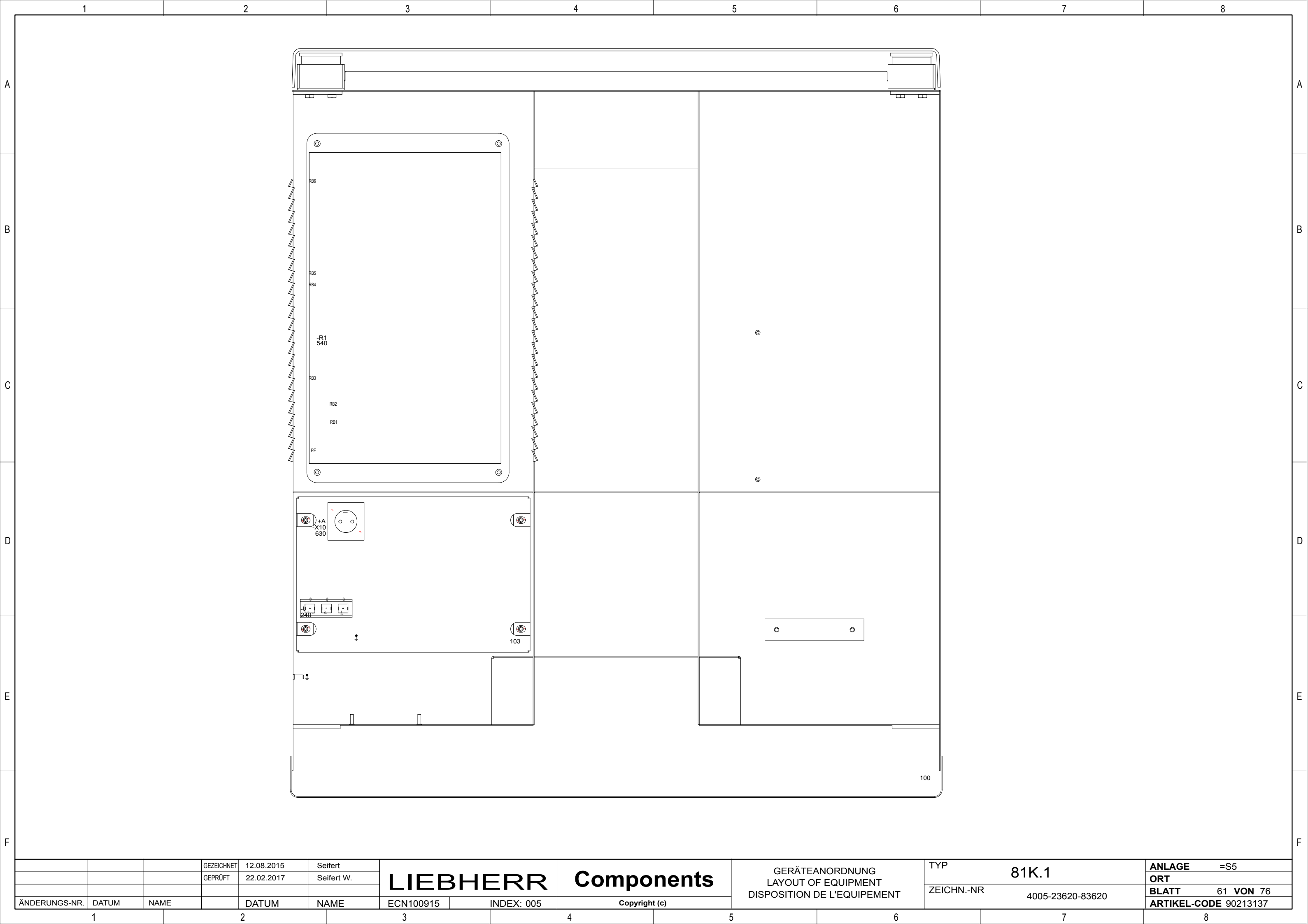
SEITENWAND AUSSEN RECHTS  
SIDEWALL OUTSIDE RIGHT  
PANNEAU LATÉRAL À L'EXTÉRIEUR À DROITE



|               |       |      |            |            |            |           |            |               |  |   |  |            |                  |  |              |           |
|---------------|-------|------|------------|------------|------------|-----------|------------|---------------|--|---|--|------------|------------------|--|--------------|-----------|
|               |       |      | GEZEICHNET | 12.08.2015 | Seifert    | LIEBHERR  |            | Components    |  | GERÄTEANORDNUNG<br>LAYOUT OF EQUIPMENT<br>DISPOSITION DE L'EQUIPEMENT |  | TYP        | 81K.1            |  | ANLAGE       | =S1       |
|               |       |      | GEPRÜFT    | 22.02.2017 | Seifert W. |           |            |               |  |   |  |            |                  |  | ORT          |           |
| ÄNDERUNGS-NR. | DATUM | NAME |            | DATUM      | NAME       |           |            |               |  |   |  | ZEICHN.-NR | 4005-23620-83620 |  | BLATT        | 58 VON 76 |
|               |       |      |            |            |            | ECN100915 | INDEX: 005 | Copyright (c) |  |   |  |            |                  |  | ARTIKEL-CODE | 90213137  |







|               |       |      |            |            |            |           |            |               |  |   |  |            |                  |              |           |
|---------------|-------|------|------------|------------|------------|-----------|------------|---------------|--|---|--|------------|------------------|--------------|-----------|
|               |       |      | GEZEICHNET | 12.08.2015 | Seifert    | LIEBHERR  |            | Components    |  | GERÄTEANORDNUNG<br>LAYOUT OF EQUIPMENT<br>DISPOSITION DE L'EQUIPEMENT |  | TYP        | 81K.1            | ANLAGE       | =S5       |
|               |       |      | GEPRÜFT    | 22.02.2017 | Seifert W. |           |            |               |  |   |  |            |                  | ORT          |           |
|               |       |      |            |            |            |           |            |               |  |   |  | ZEICHN.-NR |                  | BLATT        | 61 VON 76 |
| ÄNDERUNGS-NR. | DATUM | NAME |            | DATUM      | NAME       | ECN100915 | INDEX: 005 | Copyright (c) |  |   |  |            | 4005-23620-83620 | ARTIKEL-CODE | 90213137  |



| KLEMMLEISTE    |      |             |          |        |  |             |       |                              |  |
|----------------|------|-------------|----------|--------|--|-------------|-------|------------------------------|--|
| -X1            |      |             |          |        |  |             |       |                              |  |
| ZIEL INTERN    |      | KLEMMEN-NR. |          | BRÜCKE |  | ZIEL EXTERN |       | PLATZIERUNG IM STROMLAUFPLAN |  |
|                |      |             | 10171890 | PE     |  | =A +J -M1   | :PE   | /25.C2                       |  |
|                |      |             | 10171890 | PE     |  | =A +D -M1   | :PE   | /24.C2                       |  |
|                |      |             | 10171890 | PE     |  |             |       |                              |  |
| =S1 +K -T1     | :99  |             | 10171901 | PE     |  | =X2 -X2     | :PE   | /27.D2                       |  |
| =S1 -X4        | :2_7 |             | 10171878 | 471    |  |             |       | /49.D6                       |  |
| =S1 +A -X100   | :22  |             |          |        |  |             |       | /49.D6                       |  |
| =S1 +A -X100   | :35  |             |          | 472    |  |             |       | /49.D8                       |  |
| =S1 +A -K0     | :33  |             |          |        |  |             |       | /49.D8                       |  |
| =S1 +A -X6_KF3 | :4   |             | 10171878 | 473    |  |             |       | /49.D6                       |  |
| =S1 +A -X100   | :13  |             |          |        |  |             |       | /49.D6                       |  |
|                |      |             |          | 474    |  |             |       |                              |  |
| =S1 +A -F16    | :2   |             | 10171878 | 475    |  |             |       | /49.B4                       |  |
| =S1 +A -T14    | :L   |             |          |        |  |             |       | /49.B4                       |  |
| =S1 +A -T14    | :N   |             |          | 476    |  |             |       | /49.B4                       |  |
| =S1 +A -F16    | :4   |             |          |        |  |             |       | /49.B4                       |  |
| =S1 -X1_81     | :81  |             | 10175346 | 81     |  |             |       | /6.E1                        |  |
| =S1 +A -Q3     | :2   |             |          |        |  |             |       | /6.E1                        |  |
| =S1 -X1_81     | :82  |             | 10175346 | 82     |  |             |       | /6.E1                        |  |
| =S1 +A -Q3     | :4   |             |          |        |  |             |       | /6.E1                        |  |
| =S1 -X1_81     | :83  |             | 10175346 | 83     |  |             |       | /6.E1                        |  |
| =S1 +A -Q3     | :6   |             |          |        |  |             |       | /6.E1                        |  |
| =S1 -X1_81     | :PE  |             | 10175348 | PE     |  |             |       | /6.E1                        |  |
| =S1 +A -B1     | :4   |             | 10171878 | 89     |  | =S1 +A -E1  | :L    | /6.D5                        |  |
| =S1 +A -E10    | :L1  |             |          |        |  |             |       | /6.D5                        |  |
| =S1 +A -E3     | :N   |             |          | 84     |  | =S1 +A -E1  | :N    | /6.D5                        |  |
| =S1 +A -F61    | :1   |             | 10171878 | 85     |  |             |       | /6.C3                        |  |
| =S1 +A -B10    | :6   |             |          |        |  |             |       | /6.C3                        |  |
| =S1 +A -B10    | :7   |             |          | 86     |  |             |       | /6.D4                        |  |
| =S1 +A -F61    | :2   |             | 10171878 | 87     |  | =S5 +A -X10 | :L    | /6.D3                        |  |
| =S1 +A -F16    | :3   |             |          | 88     |  | =S5 +A -X10 | :N    | /6.D3                        |  |
|                |      |             | 10171900 | 91     |  | =A +A -T20  | :A    | /6.E2                        |  |
|                |      |             | 10171900 | 92     |  | =A +A -T20  | :B    | /6.E2                        |  |
|                |      |             | 10171901 | PE     |  |             |       |                              |  |
| =S1 +A -F6     | :1   |             | 10171900 | 93     |  | =A +A -T20  | :2    | /6.D7                        |  |
| =S1 +A -F6     | :3   |             | 10171900 | 94     |  | =A +A -T20  | :1    | /6.D7                        |  |
| =S1 +A -F6     | :4   |             | 10171878 | 94_6   |  | =A +A -A2   | :1    | /7.D2                        |  |
| =S1 +A -E10    | :N   |             |          |        |  |             |       | /7.D2                        |  |
| =S1 +A -B1     | :3   |             |          | 95_6   |  | =A +A -A2   | :2    | /7.D2                        |  |
| =S1 +A -F6     | :2   |             |          |        |  |             |       | /7.D2                        |  |
| =S1 +A -Q41    | :4   |             | 10171878 | 94_7   |  | -X02        | :94_7 | /7.D3                        |  |
| =S1 +A -Q41    | :2   |             |          | 97_7   |  | -X02        | :97_7 | /7.D3                        |  |
| =S1 +A -F37    | :4   |             | 10171878 | 94_37  |  | =C -X11     | :2    | /7.D7                        |  |
| =S1 +A -F37    | :2   |             |          | 97_37  |  | =C -X11     | :1    | /7.D7                        |  |
| =S1 +A -E3     | :L1  |             | 10171878 | 99     |  | =S1 +A -B1  | :2    | /6.C5                        |  |
|                |      |             |          | 96     |  |             |       |                              |  |
|                |      |             | 10171879 | PE     |  |             |       |                              |  |
|                |      |             |          |        |  |             |       |                              |  |

KLEMMLEISTE

-X1

| ZIEL INTERN    |      | KLEMMEN-NR. | BRÜCKE                            | ZIEL EXTERN    |      | PLATZIERUNG IM STROMLAUFPLAN |
|----------------|------|-------------|-----------------------------------|----------------|------|------------------------------|
|                |      | 10171879    | PE                                | =S1 +A -T14    | :PE  | /49.B4                       |
| =S1 +A -K08    | :14  | 10171878    | 104                               | =A +H -P1      | :a   | /14.E2                       |
| =A +H -P1      | :b   | 105         | <div><div></div><div></div></div> | =S1 +D -Q3     | :6   | /14.F2                       |
| =S1 +A -K01    | :14  | 106         |                                   | =A +H -P2      | :a   | /14.E3                       |
| =A +H -P2      | :b   | 107         | <div><div></div><div></div></div> |                |      | /14.F3                       |
| =S1 +F -Q3     | :2   | 156         |                                   | =F +A -W1      | :B:4 | /40.C5                       |
| =S1 +F -Q3     | :4   | 157         |                                   | =F +A -W1      | :B:5 | /40.C5                       |
| =F +A -W1      | :B:8 | 158         |                                   | =S1 +A -X_KF2  | :44  | /41.D2                       |
| =F +A -W1      | :B:7 | 159         |                                   | =S1 +A -X_KF2  | :45  | /41.D3                       |
|                |      | 160         | <div><div></div><div></div></div> | =F +A -W1      | :B:6 | /41.A2                       |
|                |      | 161         |                                   |                |      |                              |
|                |      | PE          | 10171879                          | =C -X11        | :PE  | /7.D7                        |
|                |      | PE          |                                   | -X02           | :PE  | /7.D4                        |
| =S1 +K -Q3     | :2   | 185         |                                   | =X2 -X2        | :185 | /27.E7                       |
| =S1 +K -Q3     | :4   | 186         |                                   | =X2 -X2        | :186 | /27.E8                       |
| =S1 +X -Q3     | :2   | 196         |                                   | =X2 -X2        | :196 | /31.D3                       |
| =S1 +X -Q3     | :4   | 197         |                                   | =X2 -X2        | :197 | /31.D3                       |
| =S1 +X -K16    | :T1  | 210         |                                   | =X2 -X2        | :210 | /13.C3                       |
| =S1 +X -K16    | :T2  | 211         |                                   | =X2 -X2        | :211 | /13.C3                       |
| =S1 +D -K16    | :T1  | 222         |                                   | =A +D -M1      | :1   | /13.C5                       |
| =S1 +D -K16    | :T2  | 223         |                                   | =A +D -M1      | :2   | /13.C5                       |
| =S1 +J -K16    | :T1  | 228         |                                   | =A +J -M1      | :P1  | /13.C7                       |
| =S1 +J -K16    | :T2  | 229         |                                   | =A +J -M1      | :P2  | /13.C7                       |
| =S1 +D -Q3     | :2   | 253         |                                   | =A +D -M1      | :3   | /24.D7                       |
| =S1 +D -Q3     | :4   | 254         |                                   | =A +D -M1      | :4   | /24.D7                       |
| =S1 +J -Q3     | :2   | 255         |                                   | =A +J -M1      | :1   | /25.D7                       |
| =S1 +J -Q3     | :4   | 256         |                                   | =A +J -M1      | :2   | /25.D8                       |
|                |      | PE          | 10171879                          |                |      |                              |
|                |      | PE          |                                   |                |      |                              |
| =S1 +A -X_KF2  | :46  | 276         |                                   | =X2 -X2        | :276 | /34.B3                       |
| =S1 +A -X_KF2  | :9   | 277         |                                   | =X2 -X2        | :277 | /34.B5                       |
| =S1 +A -X4_KF4 | :4   | 278         |                                   | =X2 -X2        | :278 | /34.B6                       |
| =S1 +A -X4_KF4 | :3   | 279         |                                   | =X2 -X2        | :279 | /32.B2                       |
| =S1 +A -X4_KF3 | :5   | 280         |                                   | =A +J -B11_X   | :4   | /26.B2                       |
| =S1 +A -X2_KF4 | :7   | 281         |                                   | =A +J -B48_X   | :2   | /26.B7                       |
| =S1 +A -X1_KF4 | :7   | 282         |                                   | =X2 -X2        | :282 | /35.B3                       |
| =S1 +A -X1_KF4 | :6   | 283         |                                   | =X2 -X2        | :283 | /35.B4                       |
| =S1 +A -X1_KF4 | :5   | 284         |                                   | =X2 -X2        | :284 | /32.B4                       |
| =S1 +A -X1_KF4 | :4   | 285         |                                   | =X2 -X2        | :285 | /35.B6                       |
| =S1 +A -X1_KF4 | :3   | 286         |                                   | =X2 -X2        | :286 | /32.B6                       |
| =X2 -X2        | :287 | 287         |                                   | =S1 +A -X4_KF3 | :4   | /32.B7                       |
| =S1 -X4        | :1_3 | 288         |                                   | =A +J -B11_X   | :1   | /17.C2                       |
| =S1 +A -KF14   | :2   |             |                                   |                |      | /17.C2                       |
| =S1 +A -KF14   | :3   | 289         |                                   | =A +J -B11_X   | :3   | /17.D2                       |
| =S1 -X4        | :2_6 |             |                                   |                |      | /17.D2                       |
| =A +A -S7      | :21  | 290         |                                   | =A +J -B47_X   | :1   | /26.C3                       |
|                |      |             |                                   |                |      |                              |

| KLEMMLEISTE<br>-X1 |       |  |             |     |          |  |        |                        |                |      |                                 |  |  |  |
|--------------------|-------|--|-------------|-----|----------|--|--------|------------------------|----------------|------|---------------------------------|--|--|--|
| ZIEL<br>INTERN     |       |  | KLEMMEN-NR. |     | KLEMME   |  | BRÜCKE |                        | ZIEL<br>EXTERN |      | PLATZIERUNG IM<br>STROMLAUFPLAN |  |  |  |
|                    |       |  |             | 291 | 10171878 |  |        | <div><div></div></div> | =A +J -B47_X   | :3   | /26.D3                          |  |  |  |
|                    |       |  |             | 292 | 10171878 |  |        | <div><div></div></div> | =A +J -B46_X   | :1   | /26.C5                          |  |  |  |
| =F +J -B7_X        | :3    |  |             | 293 |          |  |        | <div><div></div></div> | =A +J -B46_X   | :3   | /26.D5                          |  |  |  |
| =A +J -B48_X       | :3    |  |             |     |          |  |        | <div><div></div></div> |                |      | /26.D5                          |  |  |  |
| =A +J -B48_X       | :1    |  |             | 294 | 10171878 |  |        | <div><div></div></div> | =F +J -B7_X    | :1   | /26.C6                          |  |  |  |
| =S1 +A -X_KF2      | :40   |  |             | 295 |          |  |        | <div><div></div></div> | =F +J -B7_X    | :2   | /26.B6                          |  |  |  |
|                    |       |  |             | 296 | 10171878 |  |        | <div><div></div></div> | =X2 -X2        | :296 | /29.C2                          |  |  |  |
| =S1 +A -X_KF1      | :46   |  |             | 297 |          |  |        | <div><div></div></div> | =X2 -X2        | :297 | /29.C2                          |  |  |  |
| =S1 +A -X1_KF4     | :2    |  |             | 298 | 10171878 |  |        | <div><div></div></div> | =A +J -B47_X   | :2   | /26.B3                          |  |  |  |
| =S1 +A -X2_KF3     | :9    |  |             | 299 |          |  |        | <div><div></div></div> | =A +J -B46_X   | :2   | /26.B5                          |  |  |  |
| =S1 +H -K16        | :T1   |  |             | 430 | 10171878 |  |        | <div><div></div></div> | =A +H -M1      | :P1  | /13.C1                          |  |  |  |
| =S1 +H -K16        | :T2   |  |             | 431 |          |  |        | <div><div></div></div> | =A +H -M1      | :P2  | /13.C2                          |  |  |  |
| =S1 +H -Q50        | :2    |  |             | 444 | 10171878 |  |        | <div><div></div></div> | =A +H -M1      | :U   | /36.E7                          |  |  |  |
| =S1 +H -Q50        | :4    |  |             | 445 |          |  |        | <div><div></div></div> | =A +H -M1      | :V   | /36.E7                          |  |  |  |
|                    |       |  |             | PE  | 10171880 |  |        | <div><div></div></div> | =A +H -M1      | :PE  | /36.E7                          |  |  |  |
| =A +H -M1          | :W    |  |             | 446 |          |  |        | <div><div></div></div> |                |      | /36.E7                          |  |  |  |
| =S1 +H -Q50        | :6    |  |             |     |          |  |        | <div><div></div></div> |                |      | /36.E7                          |  |  |  |
| =S1 +H -Q3         | :2    |  |             | 448 | 10171878 |  |        | <div><div></div></div> | =A +H -M1      | :1   | /36.E8                          |  |  |  |
| =S1 +H -Q3         | :4    |  |             | 449 |          |  |        | <div><div></div></div> | =A +H -M1      | :2   | /36.E8                          |  |  |  |
| =S1 +H -Q50        | :A1   |  |             | 462 | 10171878 |  |        | <div><div></div></div> | =A +H -M1      | :Tk  | /38.B7                          |  |  |  |
| =S1 -X4            | :3_1  |  |             | 463 |          |  |        | <div><div></div></div> | =A +H -M1      | :Tk  | /38.B7                          |  |  |  |
| =X2 -X2            | :+    |  |             | 502 | 10171878 |  |        | <div><div></div></div> | =A +A -B17_X2  | :2   | /21.D7                          |  |  |  |
| =X2 -X2            | : -   |  |             | 501 |          |  |        | <div><div></div></div> | =A +A -B17_X2  | :3   | /21.D7                          |  |  |  |
| =S1 -X4            | :1_3  |  |             | 718 | 10171878 |  |        | <div><div></div></div> | =X2 -X2        | :718 | /18.A2                          |  |  |  |
| =S1 -X4            | :719  |  |             |     |          |  |        | <div><div></div></div> |                |      | /18.A2                          |  |  |  |
| =X2 -X2            | :720  |  |             | 720 |          |  |        | <div><div></div></div> | =S1 +A -X_KF2  | :28  | /18.C2                          |  |  |  |
| =S1 +A -K21        | :16   |  |             | 934 | 10171878 |  |        | <div><div></div></div> |                |      | /17.B2                          |  |  |  |
| =S1 +A -X4         | :1    |  |             |     |          |  |        | <div><div></div></div> |                |      | /17.B2                          |  |  |  |
| =S1 +A -X4         | :2    |  |             | 935 |          |  |        | <div><div></div></div> |                |      | /17.C2                          |  |  |  |
| =S1 -X4            | :2_4  |  |             |     |          |  |        | <div><div></div></div> |                |      | /17.C2                          |  |  |  |
| =S1 +A -X4         | :3    |  |             | 936 | 10171878 |  |        | <div><div></div></div> | =X2 -X2        | :936 | /10.A2                          |  |  |  |
| =S1 +A -K21        | :15   |  |             |     |          |  |        | <div><div></div></div> |                |      | /10.A2                          |  |  |  |
| =X2 -X2            | :937  |  |             | 937 |          |  |        | <div><div></div></div> |                |      | /10.C2                          |  |  |  |
| =S1 +A -F4         | :2(k) |  |             | 938 | 10171878 |  |        | <div><div></div></div> |                |      | /8.F3                           |  |  |  |
| =S1 +A -Q0         | :54   |  |             |     |          |  |        | <div><div></div></div> |                |      | /8.F3                           |  |  |  |
|                    |       |  |             | 939 |          |  |        | <div><div></div></div> | =S1 +A -B50    | :27  | /10.C2                          |  |  |  |
| =S1 +A -X5_KF3     | :2    |  |             | 940 | 10171878 |  |        | <div><div></div></div> |                |      | /17.B5                          |  |  |  |
| =S1 +A -X4         | :7    |  |             |     |          |  |        | <div><div></div></div> |                |      | /17.B5                          |  |  |  |
| =S1 +A -X4         | :6    |  |             | 941 |          |  |        | <div><div></div></div> |                |      | /17.A5                          |  |  |  |
| =S1 +A -K21        | :A1   |  |             |     |          |  |        | <div><div></div></div> |                |      | /17.A5                          |  |  |  |
| =S1 +A -KF14       | :2    |  |             | 942 | 10171878 |  |        | <div><div></div></div> | =A +D -B2_X1   | :2   | /17.E7                          |  |  |  |
| =A +A -A2          | :1    |  |             |     |          |  |        | <div><div></div></div> |                |      | /17.E7                          |  |  |  |
| =S1 +A -KF14       | :3    |  |             | 943 |          |  |        | <div><div></div></div> | =A +D -B2_X1   | :3   | /17.E7                          |  |  |  |
|                    |       |  |             | 944 | 10171878 |  |        | <div><div></div></div> |                |      |                                 |  |  |  |
|                    |       |  |             | 945 |          |  |        | <div><div></div></div> |                |      | /14.F4                          |  |  |  |
| =S1 +A -X4         | :8    |  |             | 946 | 10171878 |  |        | <div><div></div></div> |                |      | /17.C5                          |  |  |  |
|                    |       |  |             |     |          |  |        | <div><div></div></div> |                |      |                                 |  |  |  |

|               |       |      |            |            |            |           |            |                                  |   |            |                          |   |              |           |
|---------------|-------|------|------------|------------|------------|-----------|------------|----------------------------------|---|------------|--------------------------|---|--------------|-----------|
|               |       |      | GEZEICHNET | 12.08.2015 |            |           |            | LIEBHERR - WERK<br>BIBERACH GmbH | KLEMMENPLAN<br>TERMINAL PLAN<br>SCHEMA DES BORNES | TYP        | 81K.1                    |   | ANLAGE       | =S1       |
|               |       |      | GEPRÜFT    | 22.02.2017 | Seifert W. |           |            |                                  |   |            |                          |   | ORT          |           |
|               |       |      | FREIGABE   | 17.10.2016 | Stoehr_R   |           |            |                                  |   | ZEICHN.-NR | 4005-23620-83620-005-ELI |   | BLATT        | 66 VON 76 |
| ÄNDERUNGS-NR. | DATUM | NAME |            | DATUM      | NAME       | ECN100915 | INDEX: 4.0 | Copyright (c)                    |   |            |                          |   | ARTIKEL-CODE |           |
| 1             |       |      | 2          |            |            | 3         |            | 4                                | 5   | 6          | 7                        | 8 |              |           |

KLEMMLEISTE

-X4

| ZIEL INTERN    |      | KLEMMEN-NR. | BRÜCKE |  | ZIEL EXTERN    | PLATZIERUNG IM STROMLAUFPLAN |
|----------------|------|-------------|--------|--|----------------|------------------------------|
|                |      | 10171879    | PE     |  | =S1 +A -P3     | /14.B2                       |
|                |      |             | PE     |  |                |                              |
| =S1 +A -F11    | :2.2 | 10171878    | 1_1    |  | =S1 +D -Q2     | /9.B2                        |
| =S1 +A -F10    | :23  |             |        |  |                | /9.B2                        |
| =S1 +A -F10    | :A2  |             | 2_1    |  | =S1 +D -Q2     | /9.B5                        |
| =S1 +A -T6     | :V   |             |        |  |                | /9.B5                        |
| =S1 +A -B4     | :1   | 10171878    | 1_2    |  | =S1 +A -S12    | /9.B3                        |
| =S1 +H -K16    | :A1  |             |        |  |                | /9.B3                        |
| =S1 +H -K16    | :A2  |             | 2_2    |  | =S1 +A -P9     | /9.B5                        |
| =S1 +A -B4     | :2   |             |        |  |                | /9.B5                        |
| =S1 -X1        | :288 | 10171878    | 1_3    |  | =S1 +A -S21    | /9.B3                        |
| =S1 -X1        | :718 |             |        |  |                | /9.B3                        |
| =S1 +A -Q0     | :A2  |             | 2_3    |  | =S1 +A -C1     | /9.B5                        |
| =S1 +A -P3     | :C   |             |        |  |                | /9.B5                        |
| =S1 +A -F8     | :23  | 10171878    | 1_4    |  | =S1 +A -KF13   | /9.B3                        |
| =S1 +A -X_KF2  | :11  |             | 2_4    |  | =S1 -X1        | /9.B5                        |
| =S1 +A -X0_KF3 | :6   |             |        |  |                | /9.B5                        |
| =S1 +A -X4_KF4 | :5   | 10171878    | 1_5    |  | =S1 +A -K0     | /9.B3                        |
| =S1 +D -T1     | :22  |             | 2_5    |  | =S1 +A -KF13   | /9.B6                        |
| =S1 +A -X_KF1  | :11  |             |        |  |                | /9.B6                        |
| =S1 +A -X_KF1  | :39  | 10171878    | 1_6    |  | =S1 +A -K41    | /9.B4                        |
| =S1 +A -X_KF2  | :41  |             |        |  |                | /9.B4                        |
| =S1 +A -X0_KF4 | :6   |             | 2_6    |  | =S1 -X1        | /9.B6                        |
| =S1 +A -K08    | :A2  |             |        |  |                | /9.B6                        |
| =S1 +A -Q0     | :44  | 10171878    | 3_1    |  | =S1 -X1        | /10.E7                       |
| =S1 +D -T1     | :21  |             |        |  |                | /10.E7                       |
| =S1 +A -F11    | :11  |             | 2_7    |  | =S1 -X1        | /9.B6                        |
|                |      | 10171878    | 3_2    |  | =S1 +D -K19    | /10.E7                       |
|                |      |             | 2_8    |  |                | /9.B6                        |
|                |      | 10171878    | 3_3    |  |                | /10.E8                       |
|                |      |             | 2_9    |  |                | /9.B6                        |
| =S1 +A -R2     | :5   | 10171878    | VIM_1  |  | =S1 +A -C1     | /16.D4                       |
| =S1 +A -P9     | :10  |             |        |  |                | /16.D4                       |
| =S1 +A -X_KF1  | :2   |             | 4_1    |  | =S1 +A -X_KF1  | /19.B1                       |
| =S1 +A -F10    | :24  |             |        |  |                | /19.B1                       |
| =S1 +A -X_KF1  | :20  | 10171878    | VIM_2  |  |                | /16.D4                       |
| =S1 +A -X_KF2  | :2   |             | 4_2    |  | =S1 +A -X_KF2  | /19.B3                       |
| =S1 +A -X3_KF4 | :10  |             |        |  |                | /19.B3                       |
|                |      | 10171878    | VIM_3  |  |                | /16.D4                       |
| =S1 +A -R2     | :2   |             | 4_3    |  | =S1 +A -X6_KF3 | /19.B7                       |
| =S1 +A -X8_KF3 | :10  |             |        |  |                | /19.B7                       |
| =S1 +A -F11    | :2.1 | 10174181    | 5_1    |  | =S1 +A -Q1     | /9.D6                        |
| =S1 +A -P9     | :9   |             |        |  |                | /9.D6                        |
| =S1 +A -X0_KF4 | :9   |             | 5_2    |  | =S1 +A -X0_KF4 | /9.D6                        |
| =S1 +A -X0_KF3 | :10  | 10174181    | 5_3    |  | =S1 +A -X_KF1  | /9.D7                        |
| =S1 +A -X0_KF3 | :9   |             |        |  |                | /9.D7                        |
|                |      |             |        |  |                |                              |





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| ANLAGE | ORT | KENNZEICHEN | BLATT  |  |
|--------|-----|-------------|--------|--|
| =A     | +A  | -A2         | /52.C4 |  |
| =A     | +A  | -B17        | /21.C6 |  |
| =A     | +A  | -B17_X1     | /21.C6 |  |
| =A     | +A  | -B17_X2     | /21.C6 |  |
| =A     | +A  | -S7         | /15.B6 |  |
| =A     | +A  | -S7         | /15.B7 |  |
| =A     | +A  | -S7         | /15.B6 |  |
| =A     | +A  | -T20        | /6.E2  |  |
| =A     | +A  | -X1         | /5.E1  |  |
| =A     | +D  | -B2         | /21.C2 |  |
| =A     | +D  | -B2_X1      | /21.C2 |  |
| =A     | +D  | -B2_X2      | /21.C2 |  |
| =A     | +D  | -M1         | /24.E2 |  |
| =A     | +D  | -M1         | /24.E2 |  |
| =A     | +D  | -M1         | /24.E2 |  |
| =A     | +D  | -M1         | /24.E1 |  |
| =A     | +H  | -B5         | /21.C4 |  |
| =A     | +H  | -B5_X1      | /21.C4 |  |
| =A     | +H  | -B5_X2      | /21.C4 |  |
| =A     | +H  | -M1         | /36.E1 |  |
| =A     | +H  | -M1         | /36.E2 |  |
| =A     | +H  | -M1         | /36.E2 |  |
| =A     | +H  | -M1         | /36.E2 |  |
| =A     | +H  | -M1         | /36.E3 |  |
| =A     | +H  | -M1         | /36.E1 |  |
| =A     | +H  | -P1         | /14.E2 |  |
| =A     | +H  | -P2         | /14.E3 |  |
| =A     | +J  | -B11        | /26.E2 |  |
| =A     | +J  | -B11_X      | /26.E2 |  |
| =A     | +J  | -B46        | /26.E5 |  |
| =A     | +J  | -B46_X      | /26.E5 |  |
| =A     | +J  | -B47        | /26.E3 |  |
| =A     | +J  | -B47_X      | /26.E3 |  |
| =A     | +J  | -B48        | /26.E7 |  |
| =A     | +J  | -B48_X      | /26.E7 |  |
| =A     | +J  | -M1         | /25.E1 |  |

| ANLAGE | ORT | KENNZEICHEN | BLATT  |  |
|--------|-----|-------------|--------|--|
| =A     | +J  | -M1         | /25.E2 |  |
| =A     | +J  | -M1         | /25.E2 |  |
| =C     | +A  | -B16        | /43.D5 |  |
| =C     | +A  | -B16_X1     | /43.D5 |  |
| =C     | +A  | -B132       | /34.E5 |  |
| =C     | +A  | -B141       | /34.E3 |  |
| =C     | +A  | -E1         | /7.E8  |  |
| =C     | +A  | -E2         | /7.E7  |  |
| =C     | +A  | -E43        | /7.E5  |  |
| =C     | +A  | -R3         | /43.D7 |  |
| =C     | +J  | -B45        | /32.E2 |  |
| =C     | +J  | -B45_X      | /32.E2 |  |
| =C     | +K  | -B1         | /43.C7 |  |
| =C     | +K  | -B1_X1      | /43.C7 |  |
| =C     | +K  | -M1         | /27.E1 |  |
| =C     | +K  | -M1         | /27.E2 |  |
| =C     | +K  | -M1         | /27.E2 |  |
| =C     | +K  | -X21_2      | /43.A6 |  |
| =C     | +X  | -B10        | /32.E7 |  |
| =C     | +X  | -B10_X      | /32.E7 |  |
| =C     | +X  | -B41        | /35.E3 |  |
| =C     | +X  | -B41_X      | /35.E3 |  |
| =C     | +X  | -B42        | /35.E4 |  |
| =C     | +X  | -B42_X      | /35.E4 |  |
| =C     | +X  | -B43        | /35.E6 |  |
| =C     | +X  | -B43_X      | /35.E6 |  |
| =C     | +X  | -M1         | /31.E1 |  |
| =C     | +X  | -M1         | /31.E2 |  |
| =C     | +X  | -M1         | /31.E2 |  |
| =D     | +A  | -X20        | /43.B4 |  |
| =D     | +A  | -X20_1      | /43.B4 |  |
| =D     | +A  | -X20_2      | /43.B5 |  |
| =D     | +A  | -X20_3      | /43.C5 |  |
| =D     | +A  | -X21_1      | /43.A6 |  |
| =D     | +J  | -B8         | /32.E5 |  |
| =D     | +J  | -B8_X       | /32.E5 |  |

|               |       |      |            |            |            |           |            |               |                                       |            |                  |              |          |
|---------------|-------|------|------------|------------|------------|-----------|------------|---------------|---------------------------------------|------------|------------------|--------------|----------|
|               |       |      | GEZEICHNET | 09.09.2016 | Seifert    | LIEBHERR  |            | Components    | PLATZIERUNG<br>PLACEMENT<br>PLACEMENT | TYP        | 81K.1            | ANLAGE       |          |
|               |       |      | GEPRÜFT    | 22.02.2017 | Seifert W. |           |            |               |                                       | ORT        |                  |              |          |
|               |       |      |            |            |            |           |            |               |                                       | BLATT      |                  | 70 VON 76    |          |
| ÄNDERUNGS-NR. | DATUM | NAME |            | DATUM      | NAME       | ECN100915 | INDEX: 005 | Copyright (c) |                                       | ZEICHN.-NR | 4005-23620-83620 | ARTIKEL-CODE | 90213137 |

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|---|--------|---|-----|---|-------------|---|--------|---|--|---|--------|---|-----|---|-------------|--|--------|--|--|--|
| 1 |        | 2 |     | 3 |             | 4 |        | 5 |  | 6 |        | 7 |     | 8 |             |  |        |  |  |  |
| A | ANLAGE |   | ORT |   | KENNZEICHEN |   | BLATT  |   |  |   | ANLAGE |   | ORT |   | KENNZEICHEN |  | BLATT  |  |  |  |
|   | =D     |   | +X  |   | -B9         |   | /32.E4 |   |  |   | =L     |   | +A  |   | -P100       |  | /53.C1 |  |  |  |
|   | =D     |   | +X  |   | -B9_X       |   | /32.E4 |   |  |   | =L     |   | +A  |   | -P100.X1    |  | /53.D1 |  |  |  |
|   | =D     |   | +X  |   | -B44        |   | /34.E6 |   |  |   | =L     |   | +A  |   | -P100.X2    |  | /53.E1 |  |  |  |
|   | =D     |   | +X  |   | -B44_X      |   | /34.E6 |   |  |   | =L     |   | +A  |   | -X110       |  | /54.C7 |  |  |  |
|   | =D     |   | +X  |   | -B132_X     |   | /34.E5 |   |  |   | =P10   |   |     |   | -6          |  | /53.C8 |  |  |  |
|   | =D     |   | +X  |   | -B141_X     |   | /34.E3 |   |  |   | =P10   |   |     |   | -7          |  | /53.C5 |  |  |  |
|   | =E     |   | +F  |   | -B30        |   | /41.C2 |   |  |   | =P10   |   |     |   | -8          |  | /54.B6 |  |  |  |
|   | =E     |   | +F  |   | -B32        |   | /15.B7 |   |  |   | =P10   |   |     |   | -11         |  | /53.E6 |  |  |  |
|   | =E     |   | +F  |   | -B33        |   | /15.B7 |   |  |   | =P10   |   |     |   | -12         |  | /53.E7 |  |  |  |
|   | =E     |   | +F  |   | -M1         |   | /40.E3 |   |  |   | =P10   |   |     |   | -24         |  | /54.B2 |  |  |  |
|   | =E     |   | +F  |   | -M1         |   | /40.E2 |   |  |   | =P10   |   |     |   | -25         |  | /54.B4 |  |  |  |
|   | =E     |   | +F  |   | -M2         |   | /40.E4 |   |  |   | =P10   |   | +A  |   | -B190       |  | /54.D2 |  |  |  |
|   | =E     |   | +F  |   | -M2         |   | /40.E3 |   |  |   | =P10   |   | +A  |   | -B191       |  | /54.D2 |  |  |  |
|   | =F     |   | +A  |   | -E40        |   | /7.E4  |   |  |   | =P10   |   | +A  |   | -C194       |  | /54.D1 |  |  |  |
|   | =F     |   | +A  |   | -E41        |   | /7.E4  |   |  |   | =P10   |   | +A  |   | -E190       |  | /54.E3 |  |  |  |
|   | =F     |   | +A  |   | -E42        |   | /7.E5  |   |  |   | =P10   |   | +A  |   | -E191       |  | /54.E4 |  |  |  |
|   | =F     |   | +A  |   | -W1         |   | /51.C4 |   |  |   | =P10   |   | +A  |   | -E194       |  | /54.E1 |  |  |  |
|   | =F     |   | +A  |   | -X118 A     |   | /53.E5 |   |  |   | =P10   |   | +A  |   | -F190       |  | /54.A7 |  |  |  |
|   | =F     |   | +A  |   | -X118 C     |   | /53.E5 |   |  |   | =P10   |   | +A  |   | -K195       |  | /54.F2 |  |  |  |
| B | =F     |   | +A  |   | -X119 A     |   | /55.C2 |   |  |   | =P10   |   | +A  |   | -K196       |  | /54.F2 |  |  |  |
|   | =F     |   | +A  |   | -X119 A     |   | /53.E8 |   |  |   | =P10   |   | +A  |   | -KF110      |  | /53.C5 |  |  |  |
|   | =F     |   | +A  |   | -X119 C     |   | /53.E7 |   |  |   | =P10   |   | +A  |   | -KF111      |  | /53.C2 |  |  |  |
|   | =F     |   | +A  |   | -X119 C     |   | /55.C3 |   |  |   | =P10   |   | +A  |   | -S101       |  | /53.B8 |  |  |  |
|   | =F     |   | +A  |   | -X120       |   | /55.C6 |   |  |   | =P10   |   | +A  |   | -S102       |  | /53.A5 |  |  |  |
|   | =F     |   | +A  |   | -X120       |   | /54.A1 |   |  |   | =P10   |   | +A  |   | -S103       |  | /53.A6 |  |  |  |
|   | =F     |   | +H  |   | -B4         |   | /43.C2 |   |  |   | =P10   |   | +A  |   | -S106       |  | /53.B2 |  |  |  |
|   | =F     |   | +H  |   | -B4_X1      |   | /43.C2 |   |  |   | =P10   |   | +A  |   | -S113       |  | /53.B3 |  |  |  |
|   | =F     |   | +H  |   | -B4_X2      |   | /43.D2 |   |  |   | =P10   |   | +A  |   | -S140       |  | /53.A2 |  |  |  |
|   | =F     |   | +J  |   | -B7         |   | /26.E6 |   |  |   | =P10   |   | +A  |   | -S160       |  | /53.A6 |  |  |  |
|   | =F     |   | +J  |   | -B7_X       |   | /26.E6 |   |  |   | =P10   |   | +A  |   | -S171       |  | /54.D5 |  |  |  |
|   | =L     |   | +A  |   | -E197       |   | /54.C5 |   |  |   | =P10   |   | +A  |   | -S174       |  | /54.D7 |  |  |  |
|   | =L     |   | +A  |   | -E199       |   | /54.C8 |   |  |   | =P10   |   | +A  |   | -S190       |  | /54.B2 |  |  |  |
|   | =L     |   | +A  |   | -M189       |   | /54.E8 |   |  |   | =P10   |   | +A  |   | -S199       |  | /54.B8 |  |  |  |
|   | =L     |   | +A  |   | -M190       |   | /54.E6 |   |  |   | =P10   |   | +A  |   | -T110       |  | /54.C5 |  |  |  |
|   | =L     |   | +A  |   | -M191       |   | /54.E7 |   |  |   | =P10   |   | +A  |   | -T120       |  | /54.B4 |  |  |  |
|   | =L     |   | +A  |   | -M192       |   | /54.E5 |   |  |   | =P10   |   | +D  |   | -S210       |  | /53.A3 |  |  |  |
|   |        |   |     |   |             |   |        |   |  |   |        |   |     |   |             |  |        |  |  |  |
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| C |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |
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| D |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |
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| F |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |
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|---------------|-------|------|------------|------------|------------|-----------|------------|------------|---------------|---------------------------------------|--|-----|-------|--------------|-----------|
|               |       |      | GEZEICHNET | 09.09.2016 | Seifert    | LIEBHERR  |            | Components |               | PLATZIERUNG<br>PLACEMENT<br>PLACEMENT |  | TYP | 81K.1 |              | ANLAGE    |
|               |       |      | GEPRÜFT    | 22.02.2017 | Seifert W. |           |            |            |               |                                       |  |     |       | BLATT        | 72 VON 76 |
|               |       |      |            |            |            |           |            |            |               |                                       |  |     |       | ARTIKEL-CODE | 90213137  |
| ÄNDERUNGS-NR. | DATUM | NAME |            | DATUM      | NAME       | ECN100915 | INDEX: 005 |            | Copyright (c) |                                       |  |     |       |              |           |
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|---------------|-------|------|------------|------------|------------|----------|--|------------|--|---------------------------------------|--|------------|------------|------------------|--|--------|--|--------------|----------|
|               |       |      | GEZEICHNET | 09.09.2016 | Seifert    | LIEBHERR |  | Components |  | PLATZIERUNG<br>PLACEMENT<br>PLACEMENT |  | TYP        |            | 81K.1            |  | ANLAGE |  |              |          |
|               |       |      | GEPRÜFT    | 22.02.2017 | Seifert W. |          |  |            |  |                                       |  | ZEICHN.-NR |            | 4005-23620-83620 |  | BLATT  |  | 74 VON 76    |          |
| ÄNDERUNGS-NR. | DATUM | NAME |            | DATUM      | NAME       |          |  |            |  |                                       |  | ECN100915  | INDEX: 005 | Copyright (c)    |  |        |  | ARTIKEL-CODE | 90213137 |
| 1             |       |      | 2          |            |            | 3        |  | 4          |  | 5                                     |  | 6          |            | 7                |  | 8      |  |              |          |

[illegible]

