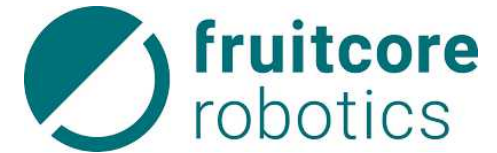


# fruitcore robotics



## Elektrokonstruktion

# Projekt: Schaltschrank Part Separation 540

**Version:** V1.1

**Datum:** 30.10.23

**fruitcore robotics GmbH**

Macairestraße 3  
78467 Konstanz  
Deutschland

### Drahtfarben

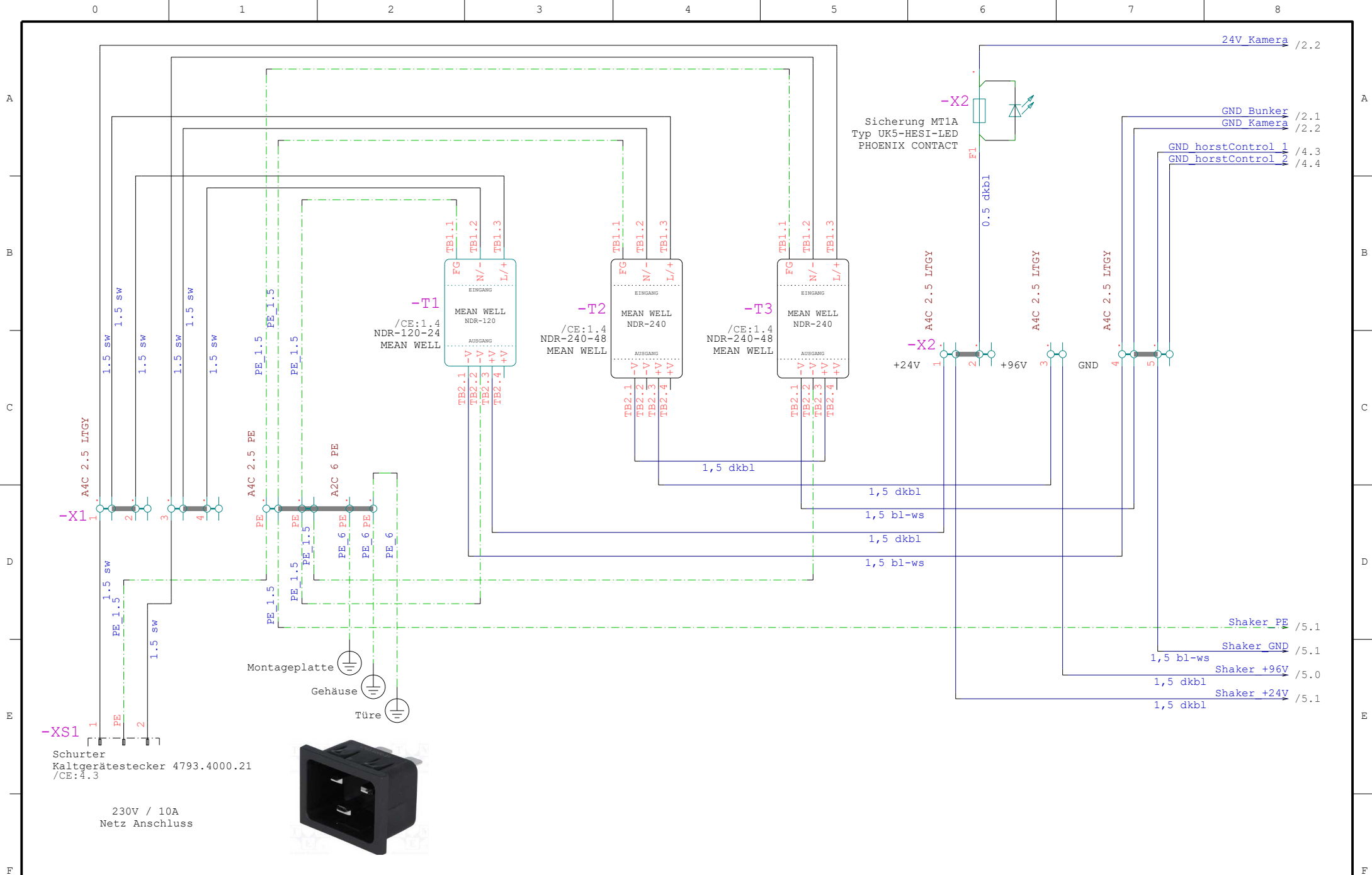
#### Netz 230VAC:

L = schwarz  
N = schwarz  
PE = gelb/grün

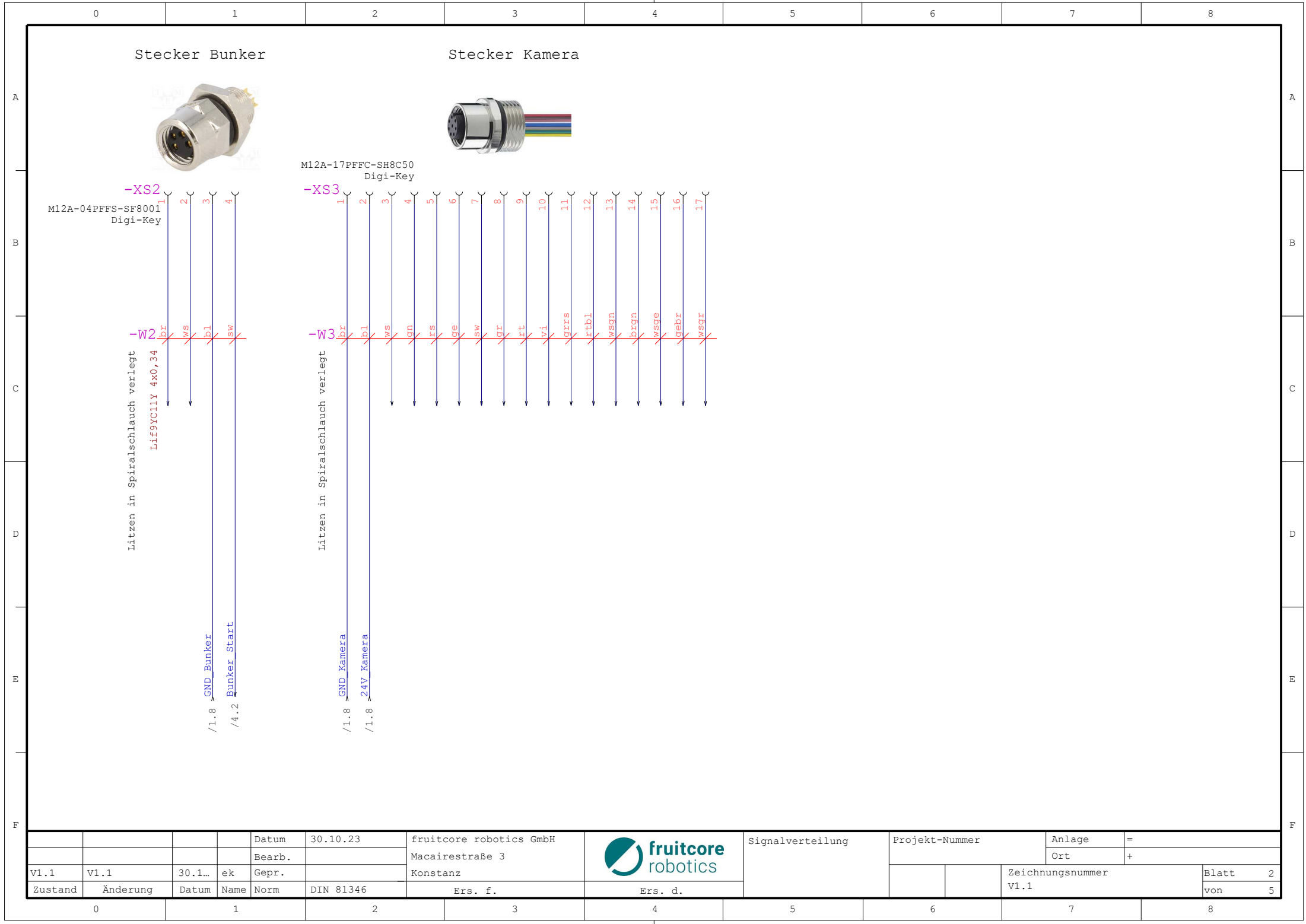
#### 24VDC Kreis:

+24VDC = dunkelblau  
0VDC = dunkelblau/weiß

|                                              |  |          |  |                                 |  |  |  |                                                              |  |          |  |
|----------------------------------------------|--|----------|--|---------------------------------|--|--|--|--------------------------------------------------------------|--|----------|--|
| Inhalt von Schaltschrank Part Separation 540 |  |          |  |                                 |  |  |  |                                                              |  | Seite 1  |  |
| Projekt-seite                                |  | Blatt Nr |  | Kommentar                       |  |  |  | Datei                                                        |  | Datum    |  |
| 1                                            |  | 0001     |  | Deckblatt                       |  |  |  | 9009 0929 Schaltschrank Part Separation 540 Deck.0001.wsCSD  |  | 30.10.23 |  |
| 2                                            |  | 0001     |  | Inhaltsangabe                   |  |  |  | 9009 0929 Schaltschrank Part Separation 540 I.0001.wsSML     |  | 30.10.23 |  |
| 3                                            |  | 0001     |  | Einspeisung Spannungsversorgung |  |  |  | 9009 0929 Schaltschrank Part Separation 540 Plan.0001.wsELD  |  | 30.10.23 |  |
| 4                                            |  | 0002     |  | Signalverteilung                |  |  |  | 9009 0929 Schaltschrank Part Separation 540 Plan.0002.wsELD  |  | 30.10.23 |  |
| 5                                            |  | 0003     |  | Signalverteilung Shaker         |  |  |  | 9009 0929 Schaltschrank Part Separation 540 Plan.0003.wsELD  |  | 18.10.23 |  |
| 6                                            |  | 0004     |  | Signalverteilung horstCONTROL   |  |  |  | 9009 0929 Schaltschrank Part Separation 540 Plan.0004.wsELD  |  | 18.10.23 |  |
| 7                                            |  | 0005     |  | Steuergerät Shaker              |  |  |  | 9009 0929 Schaltschrank Part Separation 540 Plan.0005.wsELD  |  | 18.10.23 |  |
| 8                                            |  | 0001     |  | Montageplatte                   |  |  |  | 9009 0929 Schaltschrank Part Separation 540 CAB.0001.wsCBD   |  | 18.10.23 |  |
| 9                                            |  | 0002     |  | Schaltschrank                   |  |  |  | 9009 0929 Schaltschrank Part Separation 540 CAB.0002.wsCBD   |  | 18.10.23 |  |
| 10                                           |  | 0003     |  | Schaltschrank Seiten            |  |  |  | 9009 0929 Schaltschrank Part Separation 540 CAB.0003.wsCBD   |  | 18.10.23 |  |
| 11                                           |  | 0004     |  | Schaltschrank Deckel            |  |  |  | 9009 0929 Schaltschrank Part Separation 540 CAB.0004.wsCBD   |  | 18.10.23 |  |
| 12                                           |  | 0005     |  | Cabinet Boden                   |  |  |  | 9009 0929 Schaltschrank Part Separation 540 CAB.0005.wsCBD   |  | 18.10.23 |  |
| 13                                           |  | 0006     |  | Cabinet Seite Rechts            |  |  |  | 9009 0929 Schaltschrank Part Separation 540 CAB.0006.wsCBD   |  | 18.10.23 |  |
| 14                                           |  | 0001     |  | Materialliste                   |  |  |  | 9009 0929 Schaltschrank Part Separation 540 Mat.0001.wsMAL   |  | 30.10.23 |  |
| 15                                           |  | 0001     |  | Kabelliste                      |  |  |  | 9009 0929 Schaltschrank Part Separation 540 Klist.0001.wsCBL |  | 30.10.23 |  |
| 16                                           |  | 0001     |  | Klemmenplan -X1                 |  |  |  | 9009 0929 Schaltschrank Part Separation 540 K.0001.wsTEC     |  | 30.10.23 |  |
| 17                                           |  | 0002     |  | Klemmenplan -X2                 |  |  |  | 9009 0929 Schaltschrank Part Separation 540 K.0002.wsTEC     |  | 30.10.23 |  |
| 18                                           |  | 0003     |  | Klemmenplan -X3                 |  |  |  | 9009 0929 Schaltschrank Part Separation 540 K.0003.wsTEC     |  | 30.10.23 |  |
| 19                                           |  | 0001     |  | Verdrahtungsplan                |  |  |  | 9009 0929 Schaltschrank Part Separation 540 Ver.0001.wsCNL   |  | 30.10.23 |  |
| 20                                           |  | 0002     |  | Verdrahtungsplan                |  |  |  | 9009 0929 Schaltschrank Part Separation 540 Ver.0002.wsCNL   |  | 30.10.23 |  |
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|---------|--|----------|---------|------|-------|-----------|-------------------------|---------------------------------------------------------------------------------------|------------------------------------|------------------|--|---------|---|
| V1.1    |  | V1.1     | 30.1... | ek   | Datum | 30.10.23  | fruitcore robotics GmbH |  | Einspeisung<br>Spannungsversorgung | Projekt-Nummer   |  | Anlage  | = |
| Zustand |  | Änderung | Datum   | Name | Norm  | DIN 81346 | Konstanz                |                                                                                       |                                    | Zeichnungsnummer |  | Ort     | + |
|         |  |          |         |      |       |           | Ers. f.                 |                                                                                       |                                    | V1.1             |  | Blatt 1 |   |



|         |          |         |      |        |           |                         |                                                                                       |                  |                  |      |        |     |
|---------|----------|---------|------|--------|-----------|-------------------------|---------------------------------------------------------------------------------------|------------------|------------------|------|--------|-----|
|         |          |         |      | Datum  | 30.10.23  | fruitcore robotics GmbH |  | Signalverteilung | Projekt-Nummer   |      | Anlage | =   |
|         |          |         |      | Bearb. |           | Macairestraße 3         |                                                                                       |                  | Ort              | +    |        |     |
| V1.1    | V1.1     | 30.1... | ek   |        |           | Konstanz                |                                                                                       |                  | Zeichnungsnummer |      | Blatt  | 2   |
| Zustand | Änderung | Datum   | Name | Norm   | DIN 81346 | Ers. f.                 |                                                                                       |                  | Ers. d.          | V1.1 |        | von |

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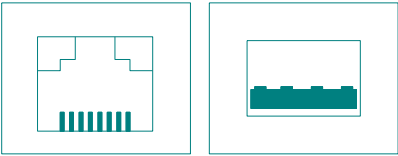
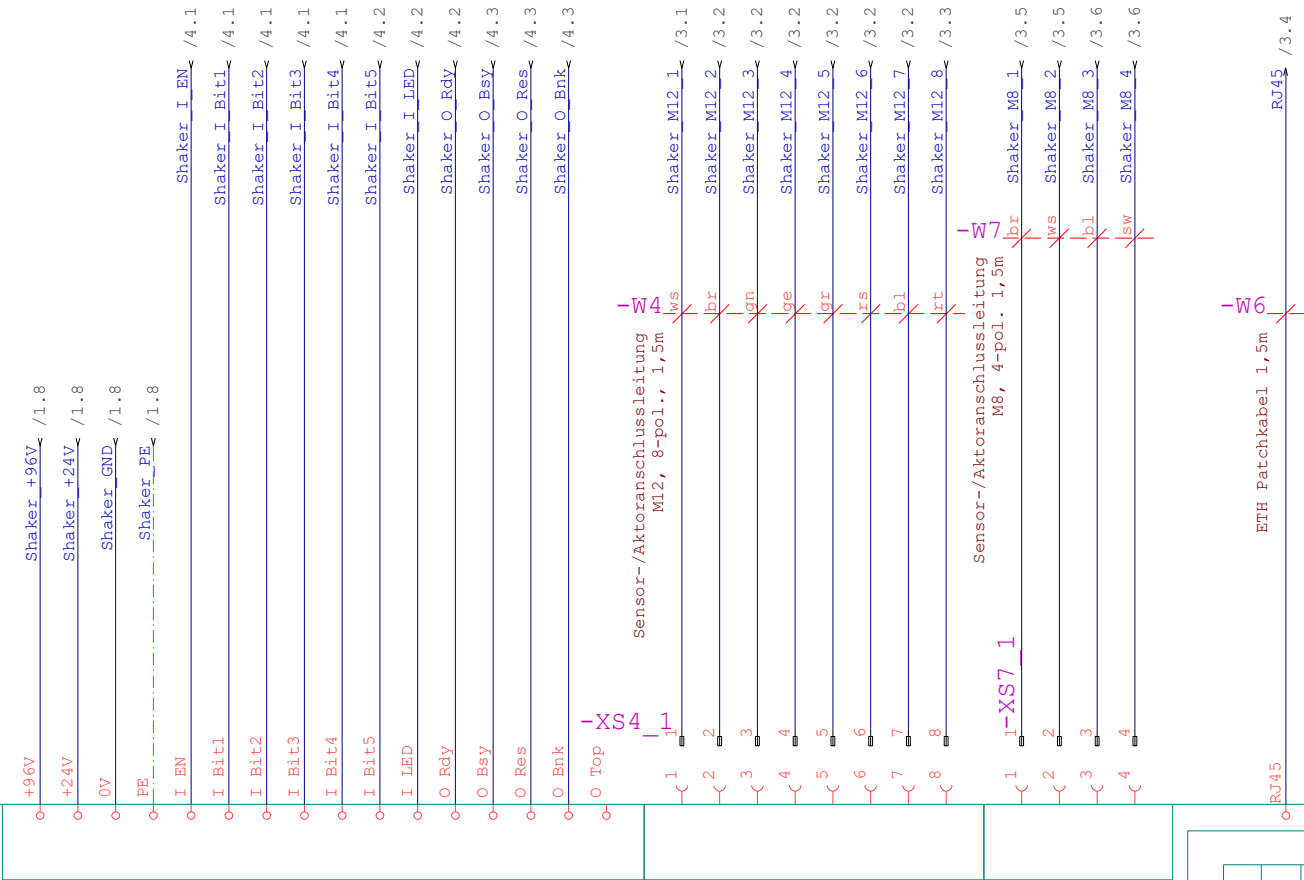
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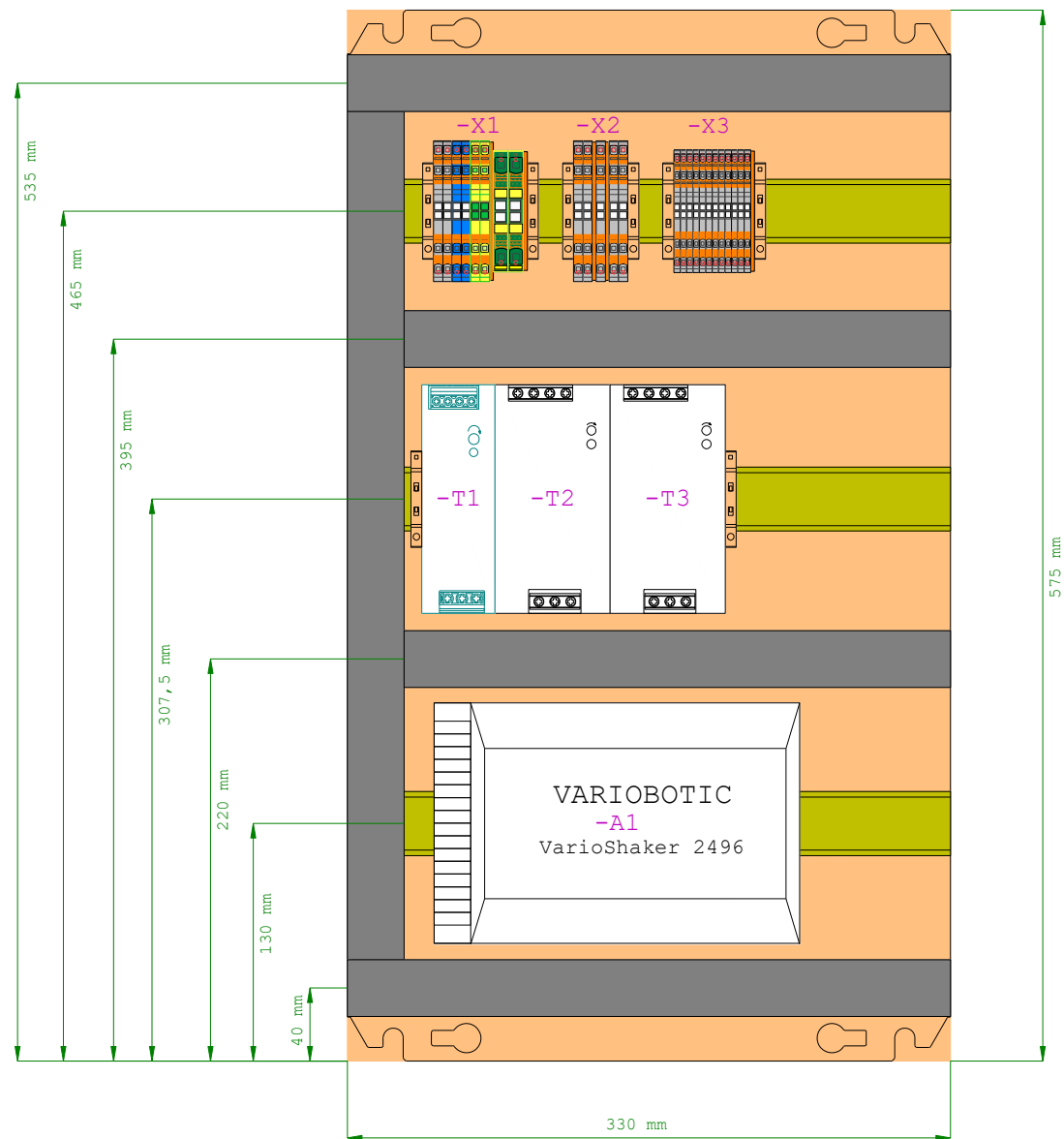
-A1  
/CE:1.3  
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Variobotic

VARIOBOTIC  
Steuerbox VarioShaker 2496

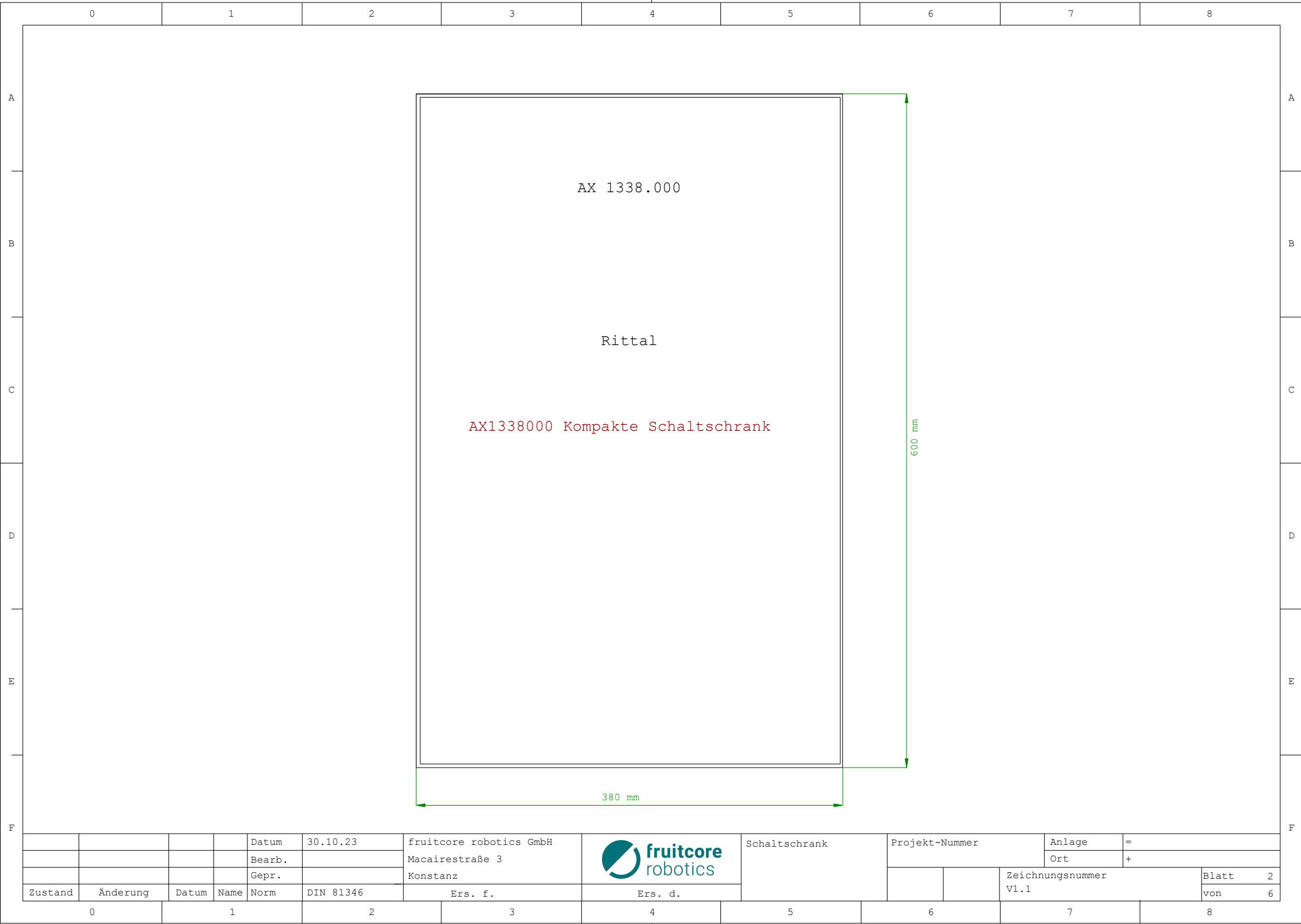


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|---------|----------|-------|------|--------|-----------|-------------------------|---------|--------------------|--|----------------|--|------------------|---|
|         |          |       |      | Datum  | 30.10.23  | fruitcore robotics GmbH |         | Steuergerät Shaker |  | Projekt-Nummer |  | Anlage           | = |
|         |          |       |      | Bearb. |           | Macairestraße 3         |         |                    |  |                |  | Ort              | + |
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| Zustand | Änderung | Datum | Name | Norm   | DIN 81346 | Ers. f.                 | Ers. d. |                    |  | V1.1           |  | Blatt            |   |
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AX 1338.000



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| Zustand | Änderung | Datum | Name | Norm   | DIN 81346 | Ers. f.                 | Ers. d.                                                                               |               |                  | V1.1 | von    | 6 |





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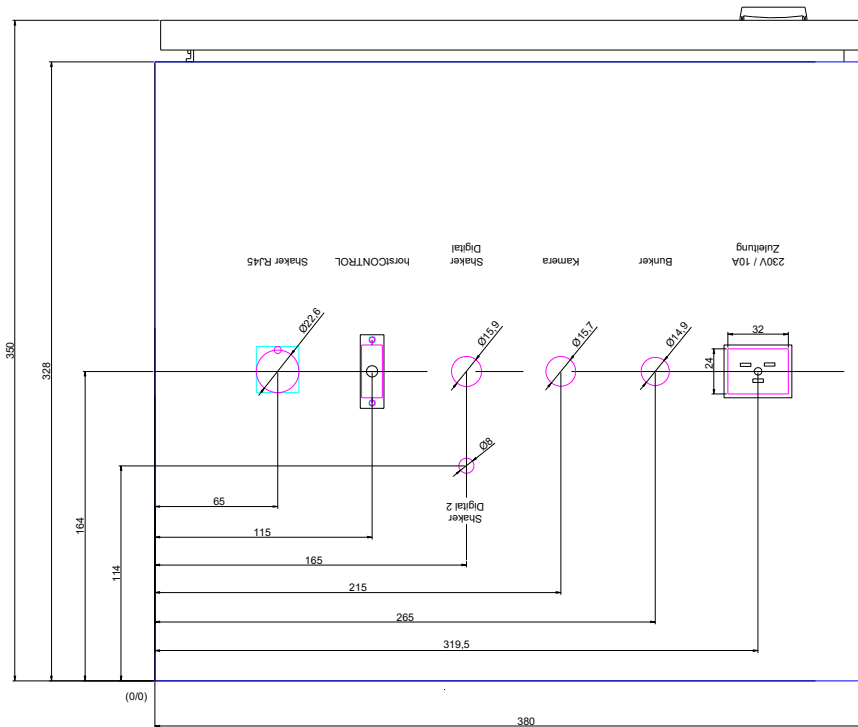
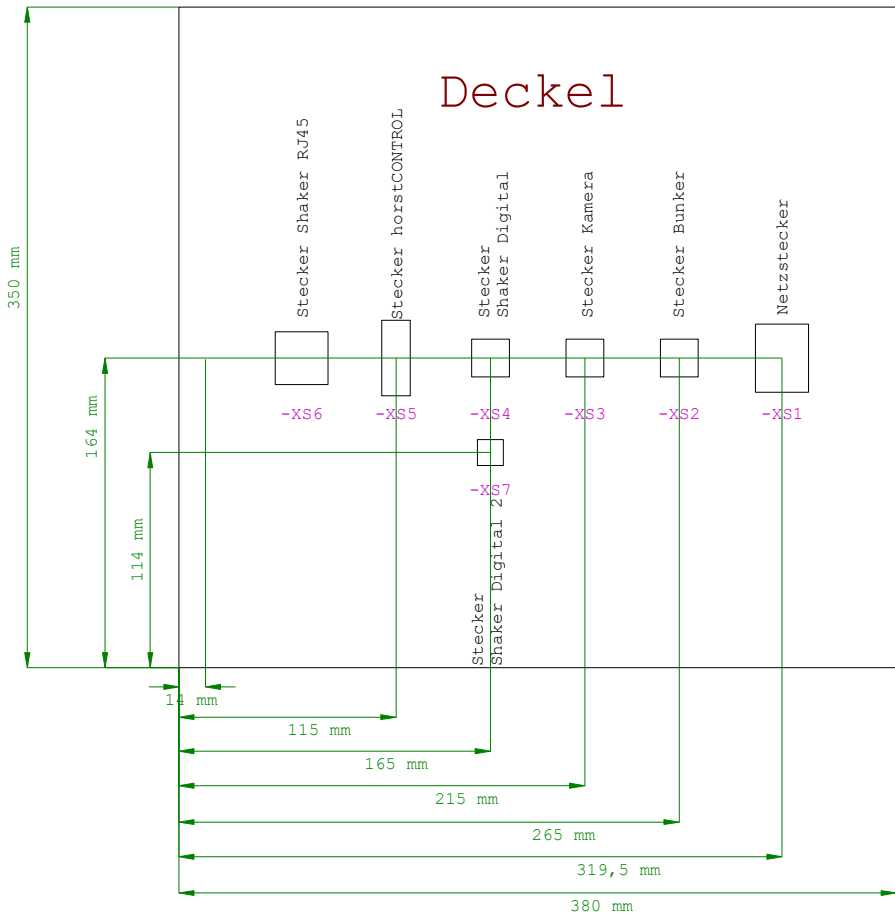
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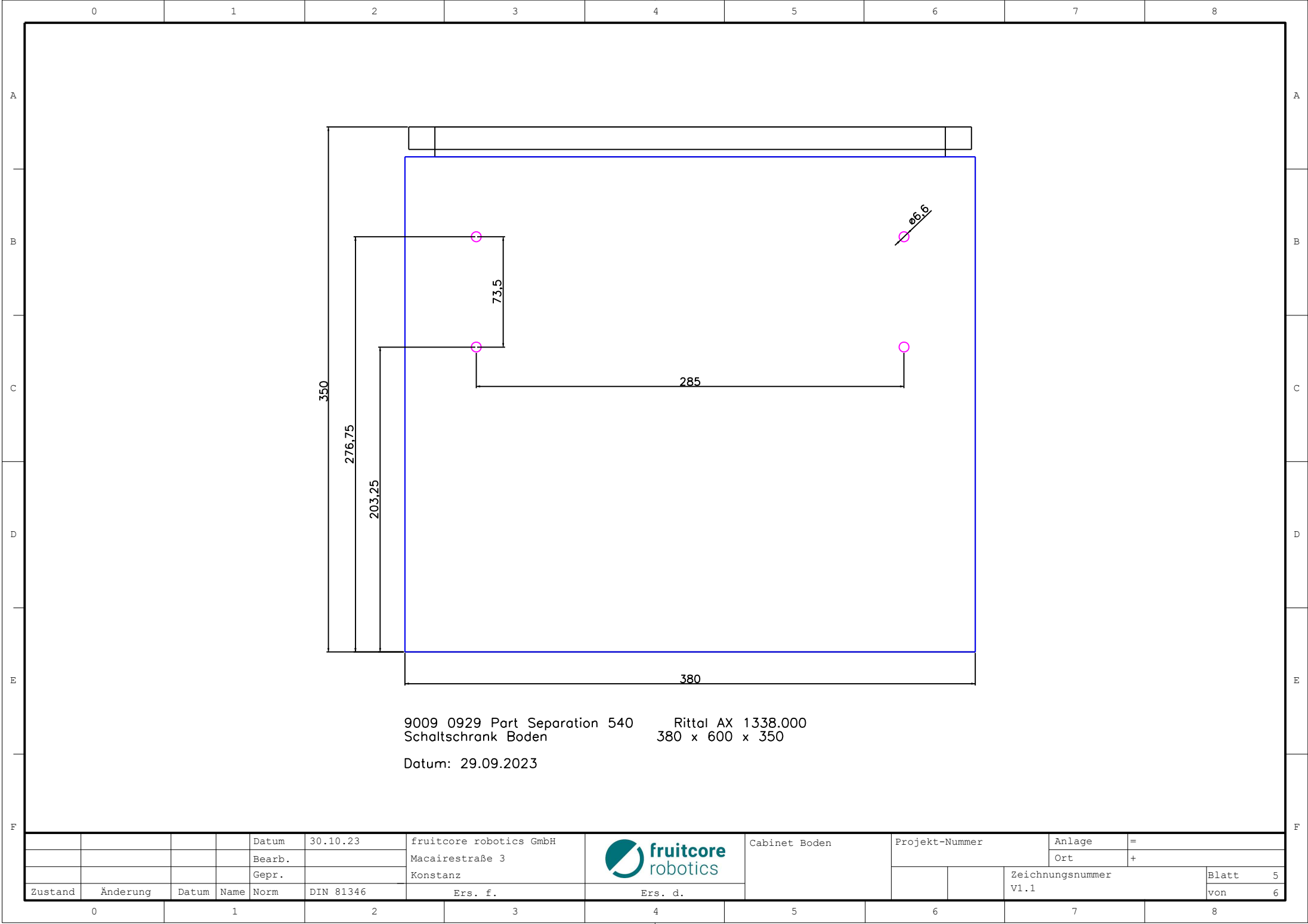
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9009 0929 Part Separation 540  
Schaltschrank Decke  
Datum: 29.09.2023

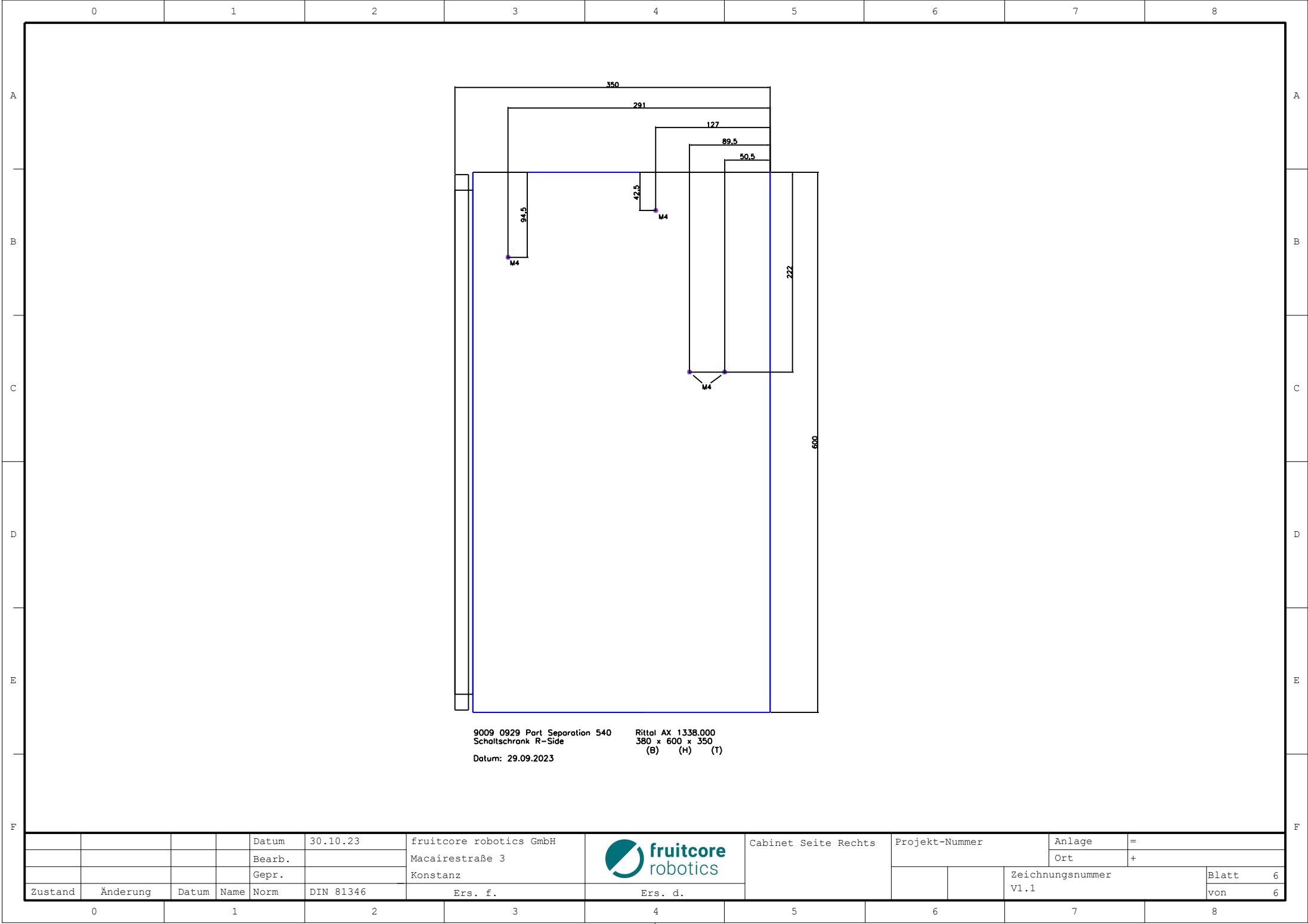
Rittal AX 1338.000  
380 x 600 x 350

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|         |          |       |      | Datum  | 30.10.23  | fruitcore robotics GmbH |  | Schaltschrank Deckel |  | Projekt-Nummer |  | Anlage           | =       |
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| Zustand | Änderung | Datum | Name | Norm   | DIN 81346 | Ers. f.                 | Ers. d.                                                                               |                      |  |                |  | V1.1             | Blatt 4 |
|         |          |       |      |        |           |                         |                                                                                       |                      |  |                |  |                  | von 6   |



9009 0929 Part Separation 540 Rittal AX 1338.000  
Schaltschrank Boden 380 x 600 x 350  
Datum: 29.09.2023

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| Zustand | Änderung | Datum | Name | Norm   | DIN 81346 | Ers. f.                 | Ers. d.                                                                               |               |                | Zeichnungsnummer<br>V1.1 | Blatt 5<br>von 6 |   |



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|---------------|---------------------------------------------------------|--------------|---------------------------|----------------|--------------------------------|-----------------|------|-----------|
| 0             | 1                                                       | 2            | 3                         | 4              | 5                              | 6               | 7    | 8         |
| Materialliste |                                                         |              |                           |                |                                |                 |      | Blatt : 1 |
| Anz.          | Bauteilname                                             | BMK          | Funktionstext             | SM-Art.Nr      | Artikelnummer                  | Hersteller      | Pfad |           |
| 1             | Steuerbox VarioShaker 2496                              | -A1          |                           |                | Steuerbox VarioShaker 2496     | Variobotic      | /5.0 |           |
| 1             | SMGSV 24VDC 5A                                          | -T1          |                           | 3201 0051      | NDR-120-24                     | MEAN WELL       | /1.2 |           |
| 2             | SMGSV 48VDC 5A                                          | -T2,-T3      |                           | 3201 5485      | NDR-240-48                     | MEAN WELL       | /1.4 |           |
| 1,72 m        | Verdrahtungskanal BA6 60x25 (HxB)                       | -U2,-U3,-U4  |                           | 3190 2201      | BA66002507030B                 | HAGER           | /1.3 |           |
|               |                                                         | -U6,-U7      |                           |                |                                |                 |      |           |
| 0,9 m         | Hutschiene 35 x 7,5GL                                   | -U5,-U8,-U9  |                           | 3190 2100      | 7,5X35-2933/2GL                | Marquart        | /1.4 |           |
| 1             | AX1338000 Kompakte Schaltschrank, 380x600x210 mm, St... | -U10         |                           |                | 1338.000                       | Rittal          | /2.4 |           |
| 1 m           | Lif9YC11Y 4x0,34                                        | -W2          | Stecker Bunker            | 3307 4041 0034 | 7038886                        | Lapp            | /2.1 |           |
| 1 m           |                                                         | -W3          | Stecker Kamera            |                |                                |                 | /2.2 |           |
| 1,5 m         | Sensor-/Aktoranschlussleitung M12, 8-pol., 1,5m         | -W4          | Stecker Shaker Digital    | 2440 0801 0150 | 1522697                        | PHOENIX         | /3.1 |           |
| 1 m           | LiYY 16x0,34                                            | -W5          | Stecker horstCONTROL      | 9001 0000 6177 | 28416                          | Lapp            |      |           |
| 1,5 m         | ETH Patchkabel 1,5m                                     | -W6          | Shaker RJ45               | 1590 1210 0150 | Patchkabel Cat5e SE/UTP 1,5m   | soft-carrier    |      |           |
| 1,5 m         | Sensor-/Aktoranschlussleitung M8, 4-pol. 1,5m           | -W7          | Stecker Shaker M8         | 2440 0400 0150 | 1681787                        | PHOENIX         | /3.5 |           |
| 1             | Steckverbinder Buchse 16A                               | -XS1         | Netzstecker               | 3301 8003      | Kaltgerätestecker 4793.4000... | Schurter        | /1.0 |           |
| 1             | M12-Buchsendose 4-pol.                                  | -XS2         | Stecker Bunker            | 3301 2044      | M12A-04PFFS-SF8001             | Digi-Key        | /2.1 |           |
| 1             | Einbaubuchse M12 17-polig                               | -XS3         | Stecker Kamera            | 3301 2574      | M12A-17PFFC-SH8C50             | Digi-Key        | /2.2 |           |
| 1             | M12 Einbaukupplung 8-polig                              | -XS4         | Stecker Shaker Digital    | 3301 2084      | SACC-8P-DSI-M12MS/FS-M16       | PHOENIX CONTACT | /3.1 |           |
| 1             | Sub-D Stiftdose 15pol. (Lötkelch)                       | -XS5         | Stecker horstCONTROL      | 3301 1201      | SUB-D15 Stiftdose Lötkelch     | CONEC           | /4.1 |           |
| 1             | RJ45 Dose mit Schirm                                    | -XS6         | Stecker Shaker RJ45       | 3301 2042      | RJ45 Dose mit Schirm           | Schlegel        | /3.4 |           |
| 1             | Einbaubuchse M8 4-polig                                 | -XS7         | Stecker Shaker Digital... | 3301 2045      | LTW8-04PFFS-SH7001             | Amphenol        | /3.5 |           |
| 2             | A4C 2.5 PE                                              | -X1          |                           | 3331 0251 0430 | 1521540000                     | Weidmueller     | /1.1 |           |
| 2             | A2C 6 PE                                                | -X1          |                           | 3331 0601 0230 | 1991810000                     | Weidmueller     | /1.2 |           |
| 9             | A4C 2.5 LTGY                                            | -X1,-X2      |                           | 3331 0251 0420 | 2003130000                     | Weidmueller     | /1.0 |           |
| 1             | Sicherungsklemme mit LED Typ UK5-HESI-LED               | -X2          | Sicherung MT1A            | 9003 0000 6563 | Typ UK5-HESI-LED               | PHOENIX CONTACT | /1.6 |           |
| 12            | A4C 1.5 LTGY                                            | -X3          |                           | 3331 0151 0420 | 2534420000                     | Weidmueller     | /4.1 |           |
| 3             | AEP 4C 2.5 OR                                           | -X4,-X9,-X10 |                           | 3331 0251 1460 | 1521530000                     | Weidmueller     | /1.4 |           |
| 1             | AEP 2C 6 OR                                             | -X5          |                           | 3331 0601 1260 | 2052520000                     | Weidmueller     | /1.4 |           |
| 8             | Endwinkel AEB 35 SCL/1 GY                               | -X6,-X7,-X8  |                           | 3331 3501 0940 | 2570230000                     | Weidmueller     | /1.3 |           |
|               |                                                         | -X11,-X12    |                           |                |                                |                 |      |           |
|               |                                                         | -X14,-X16    |                           |                |                                |                 |      |           |
|               |                                                         | -X17         |                           |                |                                |                 |      |           |
| 1             | AEP 4C 1.5 OR                                           | -X15         |                           | 3331 0151 1460 | 2052400000                     | Weidmueller     | /1.5 |           |
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A

B

C

D

E

F

A

B

C

D

E

F

Vedrahtungsplan

Seite 1

| Nr. | Leitungsname  | von<br>(Bauteil : Anschluß) | nach<br>(Bauteil : Anschluß) | Adern<br>Farbe | Quer-<br>schnitt | Adern<br>Länge |
|-----|---------------|-----------------------------|------------------------------|----------------|------------------|----------------|
| 1   |               | -X2:4                       | -T1:TB2.1                    | bl-ws          | 1,5              |                |
| 2   |               | -XS1:1                      | -X1:1                        | sw             | 1.5              |                |
| 3   |               | -T3:TB1.3                   | -X1:1                        | sw             | 1.5              |                |
| 4   |               | -T2:TB1.3                   | -X1:1                        | sw             | 1.5              |                |
| 5   |               | -T3:TB1.2                   | -X1:3                        | sw             | 1.5              |                |
| 6   |               | -T2:TB1.2                   | -X1:3                        | sw             | 1.5              |                |
| 7   |               | -T3:TB1.1                   | -X1:PE                       | gn-ge          | 1,5              |                |
| 8   |               | -T2:TB1.1                   | -X1:PE                       | gn-ge          | 1,5              |                |
| 9   |               | -T1:TB2.2                   | -X1:PE                       | gn-ge          | 1,5              |                |
| 10  |               | -X2:1                       | -T1:TB2.3                    | dkbl           | 1,5              |                |
| 11  |               | -T1:TB1.1                   | -X1:PE                       | gn-ge          | 1,5              |                |
| 12  |               | -XPE1                       | -X1:PE                       | gnge           | 6                |                |
| 13  |               | -XPE2                       | -X1:PE                       | gnge           | 6                |                |
| 14  |               | -XPE                        | -X1:PE                       | gnge           | 6                |                |
| 15  |               | -X1:3                       | -XS1:2                       | sw             | 1.5              |                |
| 16  |               | -X1:PE                      | -XS1:PE                      | gn-ge          | 1,5              |                |
| 17  |               | -X2:4                       | -T3:TB2.1                    | bl-ws          | 1,5              |                |
| 18  |               | -X2:3                       | -T2:TB2.3                    | dkbl           | 1,5              |                |
| 19  |               | -T3:TB2.3                   | -T2:TB2.1                    | dkbl           | 1,5              |                |
| 20  |               | -T1:TB1.2                   | -X1:4                        | sw             | 1.5              |                |
| 21  |               | -T3:TB2.2                   | -X1:PE                       | gn-ge          | 1,5              |                |
| 22  |               | -T1:TB1.3                   | -X1:2                        | sw             | 1.5              |                |
| 23  |               | -X2:2                       | -X2:F1                       | dkbl           | 0.5              |                |
| 24  | Shaker_+24V   | -X2:1                       | -A1:+24V                     | dkbl           | 1,5              |                |
| 25  | Shaker_+96V   | -X2:3                       | -A1:+96V                     | dkbl           | 1,5              |                |
| 26  | Shaker_GND    | -X2:5                       | -A1:0V                       | bl-ws          | 1,5              |                |
| 27  | Shaker_I_Bit1 | -A1:I Bit1                  | -X3:2                        | dkbl           | 0.5              |                |
| 28  | Shaker_I_Bit2 | -A1:I Bit2                  | -X3:3                        | dkbl           | 0.5              |                |
| 29  | Shaker_I_Bit3 | -A1:I Bit3                  | -X3:4                        | dkbl           | 0.5              |                |
| 30  | Shaker_I_Bit4 | -A1:I Bit4                  | -X3:5                        | dkbl           | 0.5              |                |
| 31  | Shaker_I_Bit5 | -A1:I Bit5                  | -X3:6                        | dkbl           | 0.5              |                |
| 32  | Shaker_I_EN   | -A1:I EN                    | -X3:1                        | dkbl           | 0.5              |                |
| 33  | Shaker_I_LED  | -A1:I LED                   | -X3:7                        | dkbl           | 0.5              |                |
| 34  | Shaker_O_Bnk  | -A1:O Bnk                   | -X3:12                       | dkbl           | 0.5              |                |
| 35  | Shaker_O_Bsy  | -A1:O Bsy                   | -X3:10                       | dkbl           | 0.5              |                |
| 36  | Shaker_O_Rdy  | -A1:O Rdy                   | -X3:9                        | dkbl           | 0.5              |                |

|         |          |       |      |        |           |                         |                                                                                       |                  |                  |      |        |   |
|---------|----------|-------|------|--------|-----------|-------------------------|---------------------------------------------------------------------------------------|------------------|------------------|------|--------|---|
|         |          |       |      | Datum  | 30.10.23  | fruitcore robotics GmbH |  | Verdrahtungsplan | Projekt-Nummer   |      | Anlage | = |
|         |          |       |      | Bearb. |           | Macairestraße 3         |                                                                                       |                  | Ort              | +    |        |   |
|         |          |       |      | Gepr.  |           | Konstanz                |                                                                                       |                  | Zeichnungsnummer |      | Blatt  | 1 |
| Zustand | Änderung | Datum | Name | Norm   | DIN 81346 | Ers. f.                 |                                                                                       |                  | Ers. d.          | V1.1 | von    | 2 |

