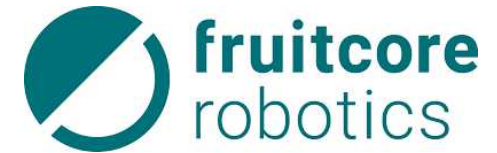


# fruitcore robotics



## Elektrokonstruktion

# Projekt: Schaltschrank Part Separation 270

**Version:** V1.2

**Datum:** 27.10.23

**fruitcore robotics GmbH**

Macairestraße 3  
78467 Konstanz  
Deutschland

### Drahtfarben

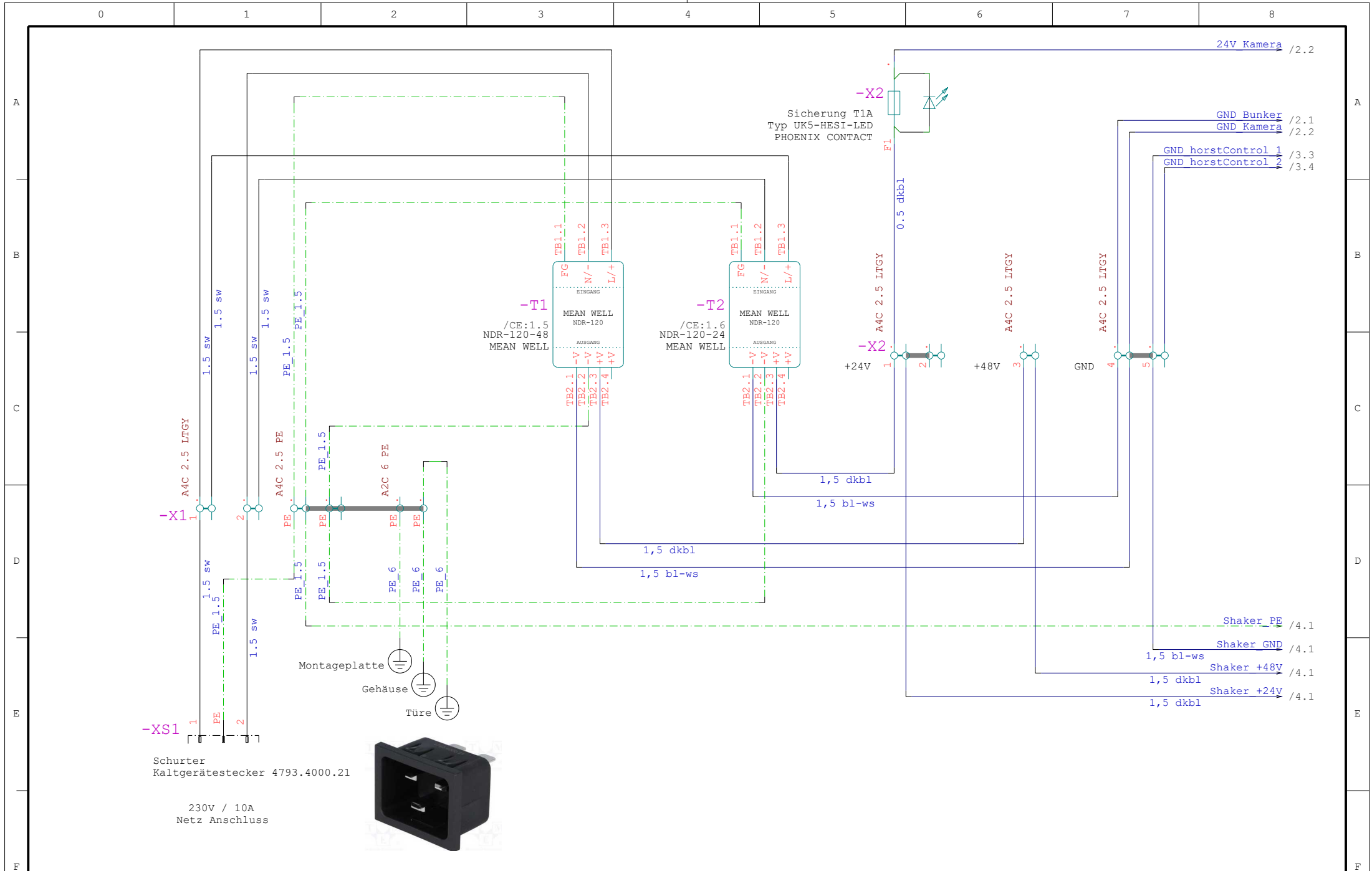
#### Netz 230VAC:

L = schwarz  
N = schwarz  
PE = gelb/grün

#### 24VDC Kreis:

+24VDC = dunkelblau  
0VDC = dunkelblau/weiß

|                                              |          |                                 |  |  |  |                                                              |  |  |  |          |  |
|----------------------------------------------|----------|---------------------------------|--|--|--|--------------------------------------------------------------|--|--|--|----------|--|
| Inhalt von Schaltschrank Part Separation 270 |          |                                 |  |  |  |                                                              |  |  |  | Seite 1  |  |
| Projekt-seite                                | Blatt Nr | Kommentar                       |  |  |  | Datei                                                        |  |  |  | Datum    |  |
| 1                                            | 0001     | Deckblatt                       |  |  |  | 9009 0928 Schaltschrank Part Separation 270 Deck.0001.wsCSD  |  |  |  | 27.10.23 |  |
| 2                                            | 0001     | Inhaltsangabe                   |  |  |  | 9009 0928 Schaltschrank Part Separation 270 I.0001.wsSML     |  |  |  | 27.10.23 |  |
| 3                                            | 0001     | Einspeisung Spannungsversorgung |  |  |  | 9009 0928 Schaltschrank Part Separation 270 Plan.0001.wsELD  |  |  |  | 27.10.23 |  |
| 4                                            | 0002     | Signalverteilung                |  |  |  | 9009 0928 Schaltschrank Part Separation 270 Plan.0002.wsELD  |  |  |  | 27.10.23 |  |
| 5                                            | 0003     | Signalverteilung horstCONTROL   |  |  |  | 9009 0928 Schaltschrank Part Separation 270 Plan.0003.wsELD  |  |  |  | 27.10.23 |  |
| 6                                            | 0004     | Steuergerät Shaker              |  |  |  | 9009 0928 Schaltschrank Part Separation 270 Plan.0004.wsELD  |  |  |  | 27.10.23 |  |
| 7                                            | 0001     | Montageplatte                   |  |  |  | 9009 0928 Schaltschrank Part Separation 270 CAB.0001.wsCBD   |  |  |  | 27.10.23 |  |
| 8                                            | 0002     | Schaltschrank                   |  |  |  | 9009 0928 Schaltschrank Part Separation 270 CAB.0002.wsCBD   |  |  |  | 27.10.23 |  |
| 9                                            | 0003     | Schaltschrank Seiten            |  |  |  | 9009 0928 Schaltschrank Part Separation 270 CAB.0003.wsCBD   |  |  |  | 27.10.23 |  |
| 10                                           | 0004     | Cabinet Decke                   |  |  |  | 9009 0928 Schaltschrank Part Separation 270 CAB.0004.wsCBD   |  |  |  | 27.10.23 |  |
| 11                                           | 0005     | Cabinet Boden                   |  |  |  | 9009 0928 Schaltschrank Part Separation 270 CAB.0005.wsCBD   |  |  |  | 27.10.23 |  |
| 12                                           | 0006     | Cabinet Seite Rechts            |  |  |  | 9009 0928 Schaltschrank Part Separation 270 CAB.0006.wsCBD   |  |  |  | 27.10.23 |  |
| 13                                           | 0001     | Materialliste                   |  |  |  | 9009 0928 Schaltschrank Part Separation 270 Mat.0001.wsMAL   |  |  |  | 27.10.23 |  |
| 14                                           | 0001     | Kabelliste                      |  |  |  | 9009 0928 Schaltschrank Part Separation 270 Klist.0001.wsCBL |  |  |  | 27.10.23 |  |
| 15                                           | 0001     | Klemmenplan -X1                 |  |  |  | 9009 0928 Schaltschrank Part Separation 270 K.0001.wsTEC     |  |  |  | 27.10.23 |  |
| 16                                           | 0002     | Klemmenplan -X2                 |  |  |  | 9009 0928 Schaltschrank Part Separation 270 K.0002.wsTEC     |  |  |  | 27.10.23 |  |
| 17                                           | 0003     | Klemmenplan -X3                 |  |  |  | 9009 0928 Schaltschrank Part Separation 270 K.0003.wsTEC     |  |  |  | 27.10.23 |  |
| 18                                           | 0001     | Verdrahtungsplan                |  |  |  | 9009 0928 Schaltschrank Part Separation 270 Ver.0001.wsCNL   |  |  |  | 27.10.23 |  |
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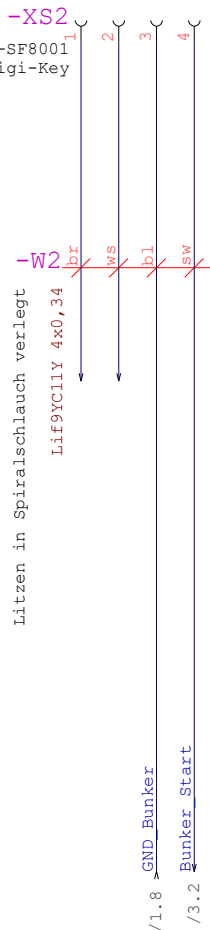


|         |  |          |         |      |        |           |                         |                                                                                       |                                    |                  |  |        |   |
|---------|--|----------|---------|------|--------|-----------|-------------------------|---------------------------------------------------------------------------------------|------------------------------------|------------------|--|--------|---|
| V1.2    |  | V1.2     | 27.1... | ek   | Datum  | 27.10.23  | fruitcore robotics GmbH |  | Einspeisung<br>Spannungsversorgung | Projekt-Nummer   |  | Anlage | = |
| V1.1    |  | V1.1     | 11.1... | ek   | Bearb. |           | Macairestraße 3         |                                                                                       |                                    |                  |  | Ort    | + |
| Zustand |  | Änderung | Datum   | Name | Norm   | DIN 81346 | Ers. f.                 |                                                                                       |                                    | Zeichnungsnummer |  | Blatt  |   |
|         |  |          |         |      |        |           |                         | Ers. d.                                                                               |                                    | V1.2             |  | von    |   |
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## Stecker Bunker



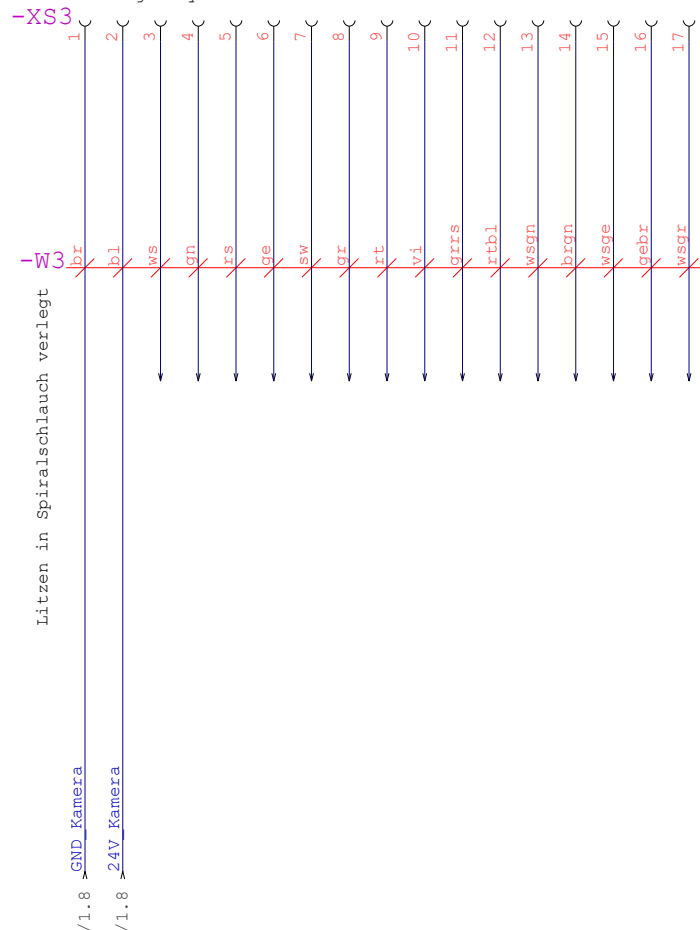
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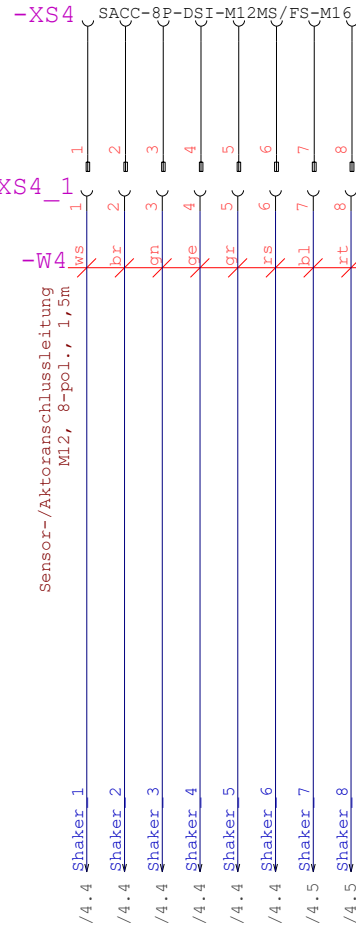
## Stecker Kamera



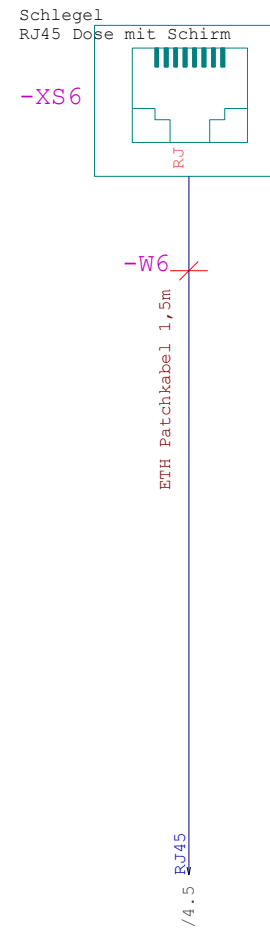
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## Stecker Shaker Digital

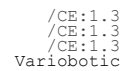


## Stecker Shaker RJ45

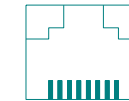


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|---------|----------|---------|------|--------|-----------|-------------------------|---------|------------------|----------------|--|------------------|---|
|         |          |         |      | Datum  | 27.10.23  | fruitcore robotics GmbH |         | Signalverteilung | Projekt-Nummer |  | Anlage           | = |
|         |          |         |      | Bearb. |           | Macairestraße 3         |         |                  |                |  | Ort              | + |
| V1.1    | V1.1     | 11.1... | ek   | Gepr.  |           | Konstanz                |         |                  |                |  | Zeichnungsnummer |   |
| Zustand | Änderung | Datum   | Name | Norm   | DIN 81346 | Ers. f.                 | Ers. d. |                  |                |  | V1.2             |   |
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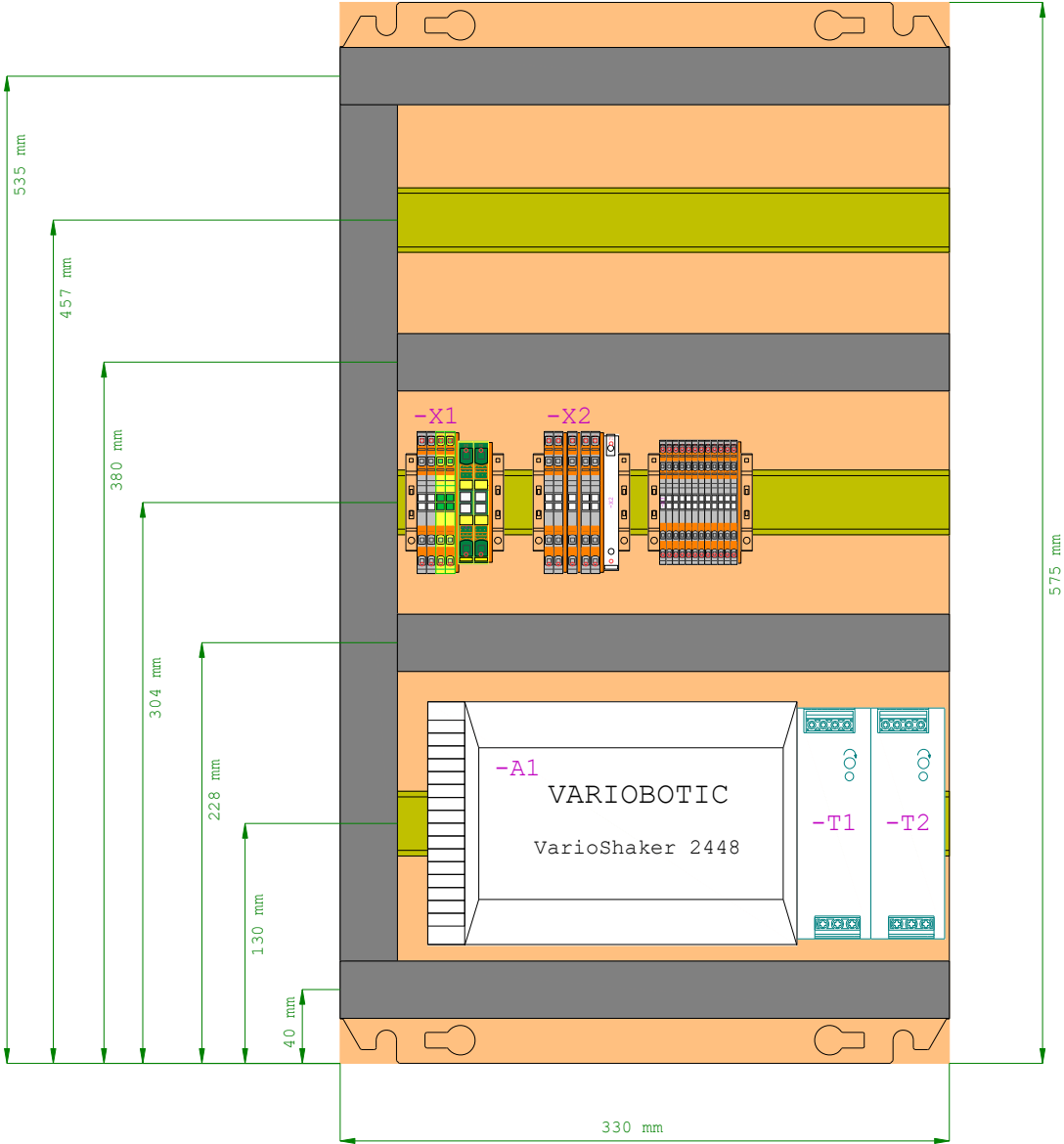


Steuerbox VarioShaker 2448

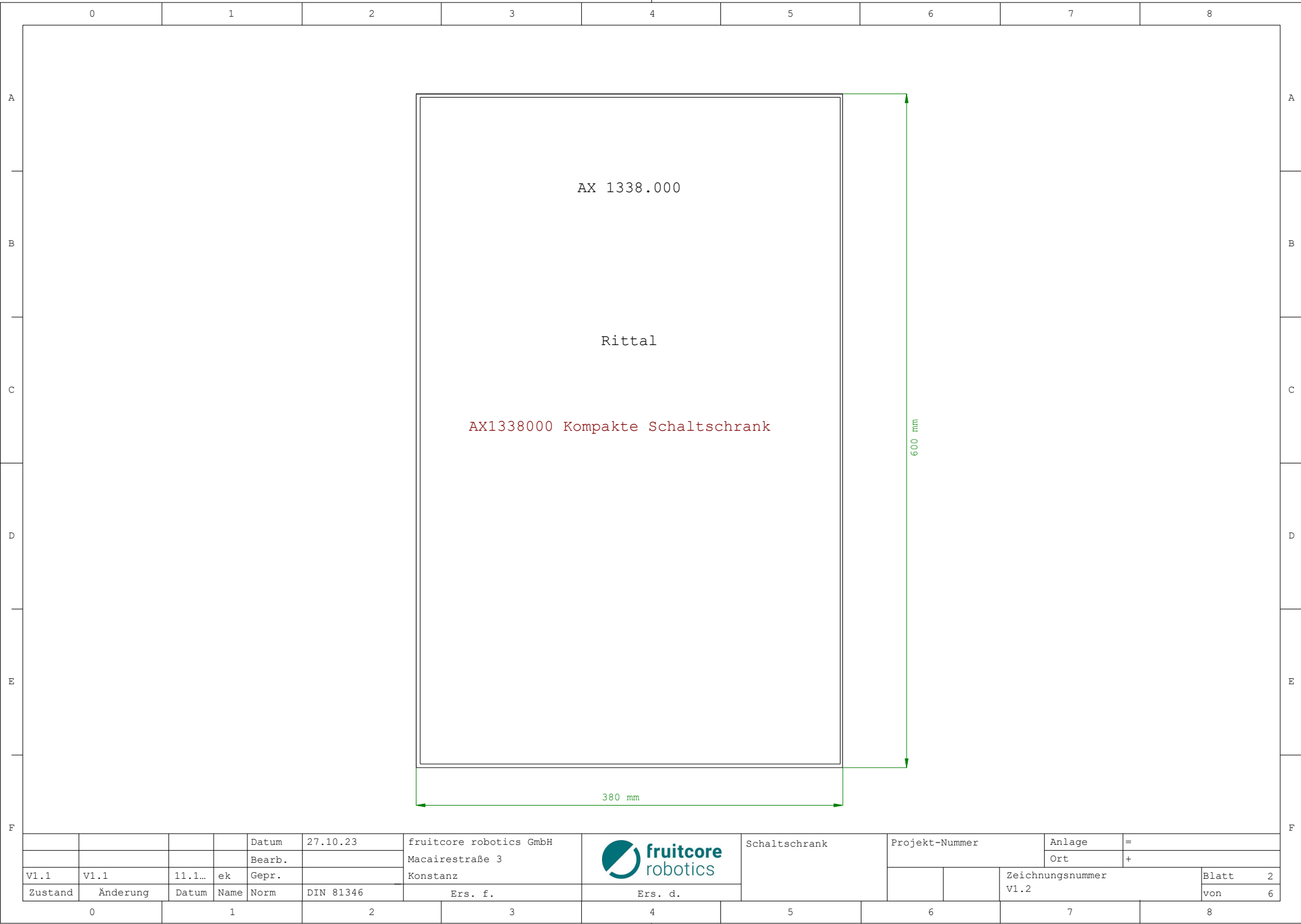


|         |          |         |      |        |           |                                                        |                                                                                       |                    |                |                          |                     |
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|         |          |         |      | Datum  | 27.10.23  | fruitcore robotics GmbH<br>Macairestraße 3<br>Konstanz |  | Steuergerät Shaker | Projekt-Nummer | Anlage                   | =                   |
|         |          |         |      | Bearb. |           |                                                        |                                                                                       |                    |                | Ort                      | +                   |
| V1.1    | V1.1     | 11.1... | ek   | Gepr.  |           |                                                        |                                                                                       |                    |                |                          |                     |
| Zustand | Änderung | Datum   | Name | Norm   | DIN 81346 | Ers. f.                                                | Ers. d.                                                                               |                    |                | Zeichnungsnummer<br>V1.2 | Blatt<br>4<br>von 4 |

AX 1338.000



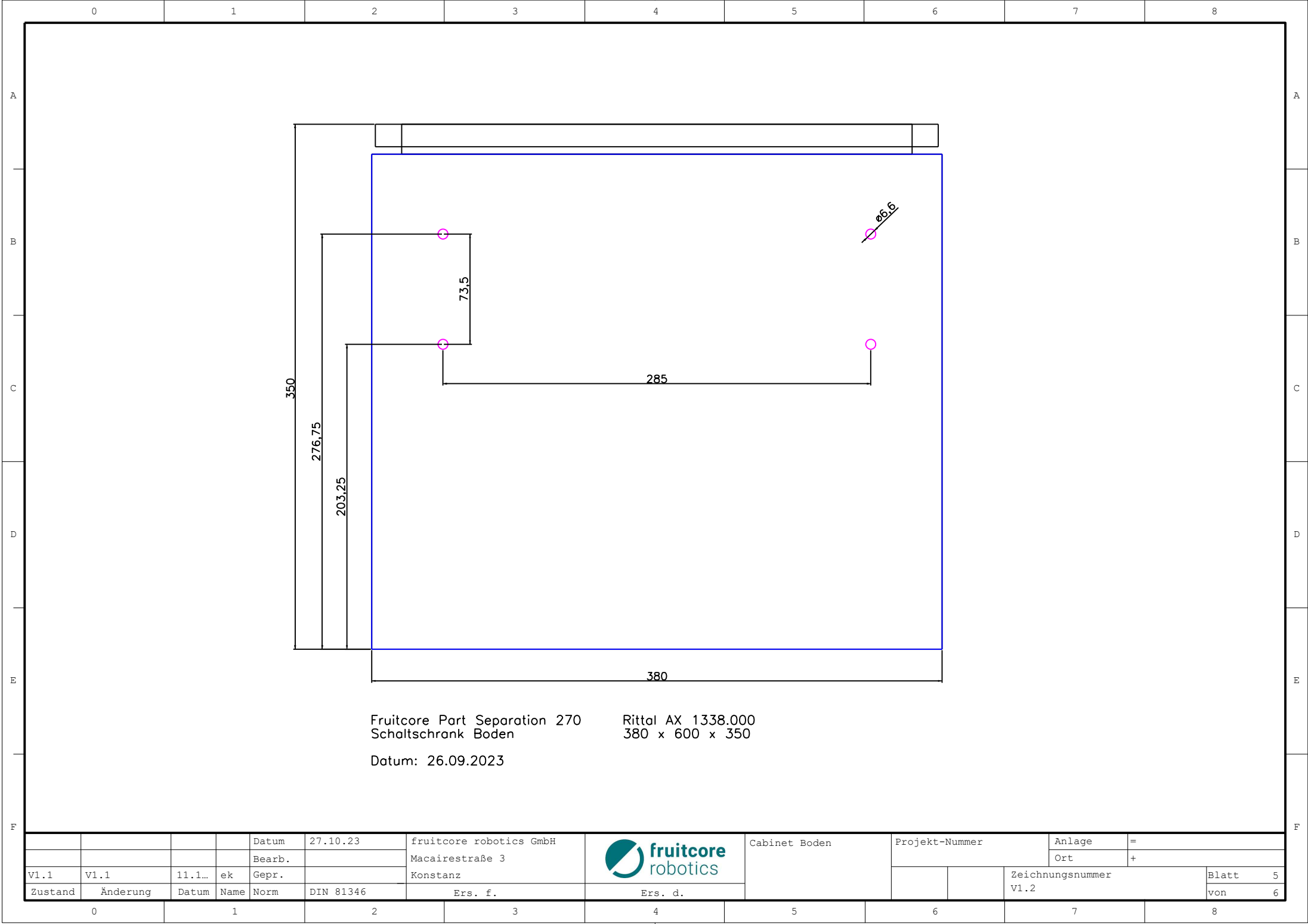
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|         |          |         |      | Datum  | 27.10.23  | fruitcore robotics GmbH |  | Montageplatte | Projekt-Nummer           |  | Anlage           | = |         |  |
| V1.2    | V1.2     | 27.1... | ek   | Bearb. |           | Macairestraße 3         |                                                                                       |               |                          |  | Ort              | + |         |  |
| V1.1    | V1.1     | 11.1... | ek   | Gepr.  |           | Konstanz                |                                                                                       |               | Zeichnungsnummer<br>V1.2 |  | Blatt 1<br>von 6 |   |         |  |
| Zustand | Änderung | Datum   | Name | Norm   | DIN 81346 | Ers. f.                 |                                                                                       |               |                          |  |                  |   | Ers. d. |  |





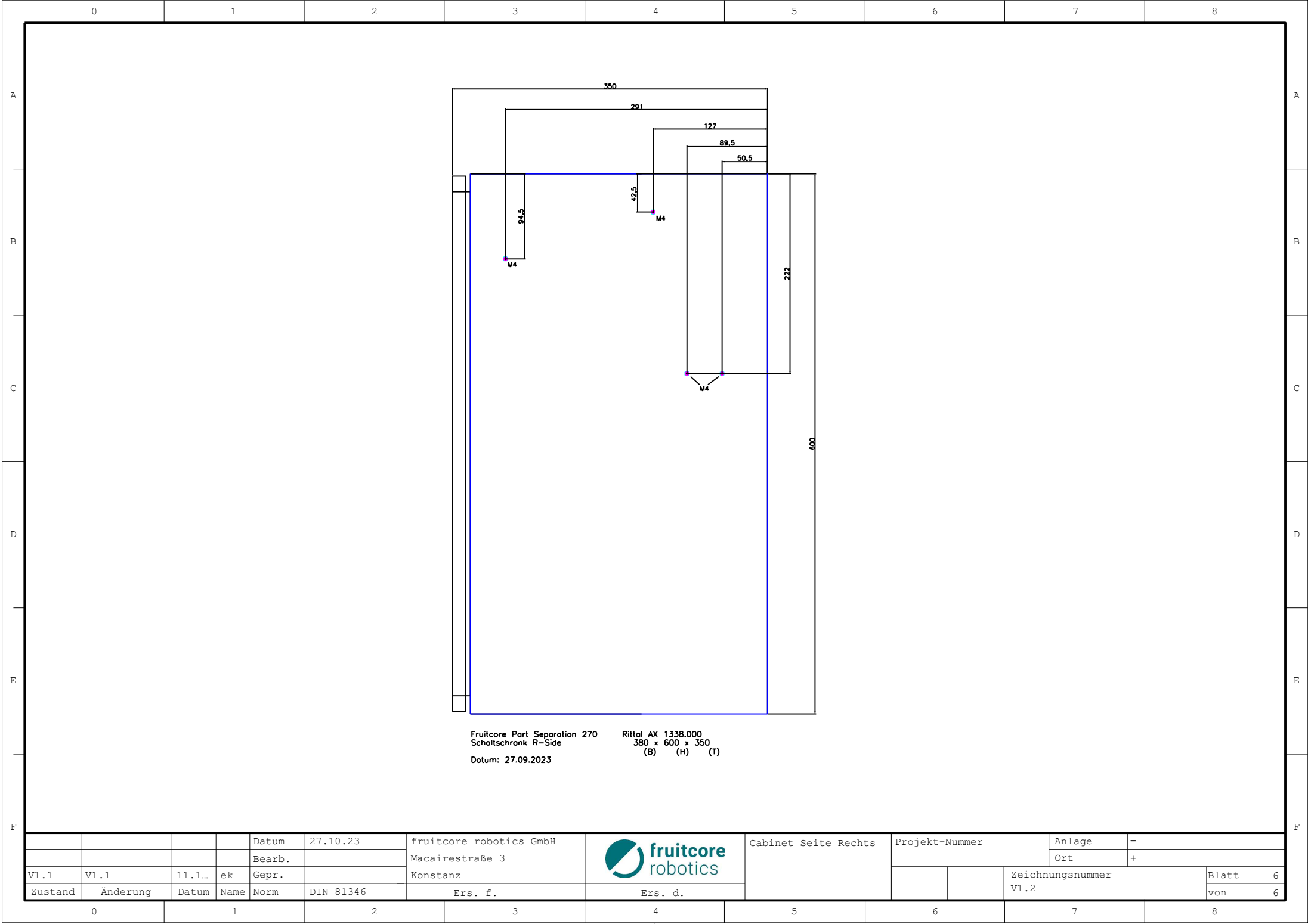






Fruitcore Part Separation 270      Rittal AX 1338.000  
Schaltschrank Boden      380 x 600 x 350  
Datum: 26.09.2023

|         |          |         |      |        |           |                         |                                                                                       |               |                |      |                  |   |       |
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|         |          |         |      | Datum  | 27.10.23  | fruitcore robotics GmbH |  | Cabinet Boden | Projekt-Nummer |      | Anlage           | = |       |
|         |          |         |      | Bearb. |           | Macairestraße 3         |                                                                                       |               |                |      | Ort              | + |       |
| V1.1    | V1.1     | 11.1... | ek   | Gepr.  |           | Konstanz                |                                                                                       |               |                |      | Zeichnungsnummer |   | Blatt |
| Zustand | Änderung | Datum   | Name | Norm   | DIN 81346 | Ers. f.                 | Ers. d.                                                                               |               |                | V1.2 | von              |   | 6     |



Fruitcore Part Separation 270  
Schaltschrank R-Side  
Datum: 27.09.2023

Rittal AX 1338.000  
380 x 600 x 350  
(B) (H) (T)

|         |          |         |      |        |           |                         |                                                                                       |                      |                |      |                  |   |       |
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|         |          |         |      | Datum  | 27.10.23  | fruitcore robotics GmbH |  | Cabinet Seite Rechts | Projekt-Nummer |      | Anlage           | = |       |
|         |          |         |      | Bearb. |           | Macairestraße 3         |                                                                                       |                      |                |      | Ort              | + |       |
| V1.1    | V1.1     | 11.1... | ek   | Gepr.  |           | Konstanz                |                                                                                       |                      |                |      | Zeichnungsnummer |   | Blatt |
| Zustand | Änderung | Datum   | Name | Norm   | DIN 81346 | Ers. f.                 | Ers. d.                                                                               |                      |                | V1.2 | von              |   | 6     |

# Materialliste

Blatt : 1

| Anz.   | Bauteilname                                             | BMK          | Funktionstext          | SM-Art.Nr      | Artikelnummer                   | Hersteller      | Pfad |
|--------|---------------------------------------------------------|--------------|------------------------|----------------|---------------------------------|-----------------|------|
| 1      | Steuerbox VarioShaker 2448                              | -A1          |                        |                | Steuerbox VarioShaker 2448      | Variobotic      | /4.1 |
| 1      | SMGSV 48VDC 2.5A                                        | -T1          |                        | 3201 5482      | NDR-120-48                      | MEAN WELL       | /1.3 |
| 1      | SMGSV 24VDC 5A                                          | -T2          |                        | 3201 0051      | NDR-120-24                      | 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         | /2.5 |
| 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      | Steckverbinder Buchse 16A                               | -XS1         | Netzstecker            | 3301 8003      | Kaltgerätestecker 4793.40000... | Schurter        | /1.1 |
| 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 | /2.5 |
| 1      | Sub-D Stiftdose 15pol. (Lötkelch)                       | -XS5         | Stecker horstCONTROL   | 3301 1201      | SUB-D15 Stiftdose Lötkelch      | CONEC           | /3.1 |
| 1      | RJ45 Dose mit Schirm                                    | -XS6         | Stecker Shaker RJ45    | 3301 2042      | RJ45 Dose mit Schirm            | Schlegel        | /2.8 |
| 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 |
| 7      | A4C 2.5 LTGY                                            | -X1,-X2      |                        | 3331 0251 0420 | 2003130000                      | Weidmueller     | /1.1 |
| 1      | Sicherungsklemme mit LED Typ UK5-HESI-LED               | -X2          | Sicherung T1A          | 9003 0000 6563 | Typ UK5-HESI-LED                | PHOENIX CONTACT | /1.5 |
| 12     | A4C 1.5 LTGY                                            | -X3          |                        | 3331 0151 0420 | 2534420000                      | Weidmueller     | /3.1 |
| 4      | AEP 4C 2.5 OR                                           | -X4,-X9,-X10 |                        | 3331 0251 1460 | 1521530000                      | Weidmueller     | /1.4 |
|        |                                                         | -X16         |                        |                |                                 |                 |      |
| 1      | AEP 2C 6 OR                                             | -X5          |                        | 3331 0601 1260 | 2052520000                      | Weidmueller     | /1.4 |
| 6      | Endwinkel AEB 35 SCL/1 GY                               | -X6,-X7,-X8  |                        | 3331 3501 0940 | 2570230000                      | Weidmueller     | /1.3 |
|        |                                                         | -X11,-X12    |                        |                |                                 |                 |      |
|        |                                                         | -X14         |                        |                |                                 |                 |      |
| 1      | AEP 4C 1.5 OR                                           | -X15         |                        | 3331 0151 1460 | 2052400000                      | Weidmueller     | /1.5 |
|        |                                                         |              |                        |                |                                 |                 |      |
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|---------|----------|-------|--------|-------|-----------|--------------------------------------------------------|---------------------------------------------------------------------------------------|---------------|----------------|--------------------------|-------|---|
|         |          |       |        | Datum | 27.10.23  | fruitcore robotics GmbH<br>Macairestraße 3<br>Konstanz |  | Materialliste | Projekt-Nummer | Anlage                   | =     |   |
|         |          |       | Bearb. |       |           |                                                        |                                                                                       |               |                | Ort                      | +     |   |
|         |          |       | Gepr.  |       |           |                                                        |                                                                                       |               |                |                          |       |   |
| Zustand | Änderung | Datum | Name   | Norm  | DIN 81346 | Ers. f.                                                | Ers. d.                                                                               |               |                | Zeichnungsnummer<br>V1.2 | Blatt | : |
|         |          |       |        |       |           |                                                        |                                                                                       |               |                |                          | von   |   |





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# Vedrahtungsplan

Seite 1

| Nr. | Leistungsname | von<br>(Bauteil : Anschluß) | nach<br>(Bauteil : Anschluß) | Adern<br>Farbe | Quer-<br>schnitt | Adern<br>Länge |
|-----|---------------|-----------------------------|------------------------------|----------------|------------------|----------------|
| 1   |               | -X1:PE                      | -XS1:PE                      | gn-ge          | 1,5              |                |
| 2   |               | -X2:4                       | -T1:TB2.1                    | bl-ws          | 1,5              |                |
| 3   |               | -X1:2                       | -T1:TB1.2                    | sw             | 1,5              |                |
| 4   |               | -X1:PE                      | -T1:TB1.1                    | gn-ge          | 1,5              |                |
| 5   |               | -X1:PE                      | -T1:TB2.2                    | gn-ge          | 1,5              |                |
| 6   |               | -X2:1                       | -T2:TB2.3                    | dkbl           | 1,5              |                |
| 7   |               | -X1:PE                      | -T2:TB2.2                    | gn-ge          | 1,5              |                |
| 8   |               | -T1:TB2.3                   | -X2:3                        | dkbl           | 1,5              |                |
| 9   |               | -T2:TB2.1                   | -X2:4                        | bl-ws          | 1,5              |                |
| 10  |               | -T1:TB1.3                   | -X1:1                        | sw             | 1,5              |                |
| 11  |               | -T2:TB1.3                   | -X1:1                        | sw             | 1,5              |                |
| 12  |               | -XS1:1                      | -X1:1                        | sw             | 1,5              |                |
| 13  |               | -T2:TB1.2                   | -X1:2                        | sw             | 1,5              |                |
| 14  |               | -XS1:2                      | -X1:2                        | sw             | 1,5              |                |
| 15  |               | -XPE1                       | -X1:PE                       | gnge           | 6                |                |
| 16  |               | -XPE2                       | -X1:PE                       | gnge           | 6                |                |
| 17  |               | -X1:PE                      | -XPE                         | gnge           | 6                |                |
| 18  |               | -X1:PE                      | -T2:TB1.1                    | gn-ge          | 1,5              |                |
| 19  |               | -X2:1                       | -X2:F1                       | dkbl           | 0,5              |                |
| 20  | Shaker_+24V   | -X2:1                       | -A1:+24V                     | dkbl           | 1,5              |                |
| 21  | Shaker_+48V   | -X2:3                       | -A1:+48V                     | dkbl           | 1,5              |                |
| 22  | Shaker_GND    | -X2:5                       | -A1:0V                       | bl-ws          | 1,5              |                |
| 23  | Shaker_I_Bit1 | -X3:2                       | -A1:I Bit1                   | dkbl           | 0,5              |                |
| 24  | Shaker_I_Bit2 | -X3:3                       | -A1:I Bit2                   | dkbl           | 0,5              |                |
| 25  | Shaker_I_Bit3 | -X3:4                       | -A1:I Bit3                   | dkbl           | 0,5              |                |
| 26  | Shaker_I_Bit4 | -X3:5                       | -A1:I Bit4                   | dkbl           | 0,5              |                |
| 27  | Shaker_I_Bit5 | -X3:6                       | -A1:I Bit5                   | dkbl           | 0,5              |                |
| 28  | Shaker_I_EN   | -X3:1                       | -A1:I EN                     | dkbl           | 0,5              |                |
| 29  | Shaker_I_LED  | -X3:7                       | -A1:I LED                    | dkbl           | 0,5              |                |
| 30  | Shaker_O_Bnk  | -X3:12                      | -A1:O Bnk                    | dkbl           | 0,5              |                |
| 31  | Shaker_O_Bsy  | -X3:10                      | -A1:O Bsy                    | dkbl           | 0,5              |                |
| 32  | Shaker_O_Rdy  | -X3:9                       | -A1:O Rdy                    | dkbl           | 0,5              |                |
| 33  | Shaker_O_Res  | -X3:11                      | -A1:O Res                    | dkbl           | 0,5              |                |
| 34  | Shaker_PE     | -X1:PE                      | -A1:PE                       | gn-ge          | 1,5              |                |
|     |               |                             |                              |                |                  |                |
|     |               |                             |                              |                |                  |                |

|         |          |       |      |        |           |                         |                                                                                       |                  |                  |      |        |   |
|---------|----------|-------|------|--------|-----------|-------------------------|---------------------------------------------------------------------------------------|------------------|------------------|------|--------|---|
|         |          |       |      | Datum  | 27.10.23  | 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.                                                                               |                  |                  | V1.2 | von    | 1 |