



*Power  
wherever  
you are*™

wiring diagram for:

DC P4k P5k PMS PV 12VStart

[www.fischerpanda.de](http://www.fischerpanda.de)

project number:

drawing number: 072168\_03\_00

date: 04.10.16

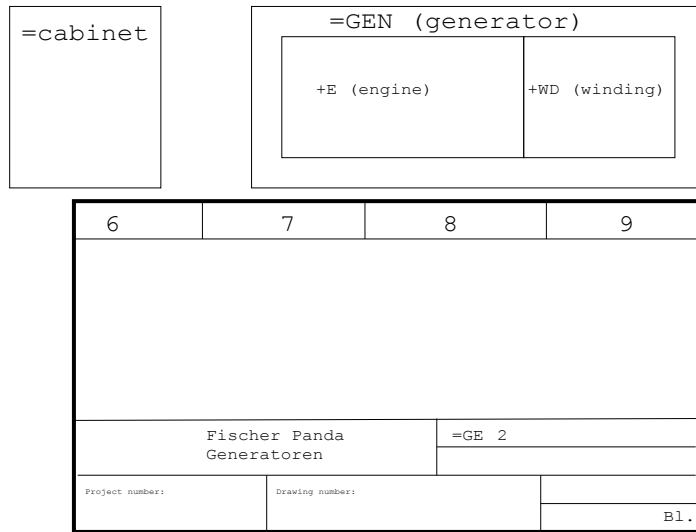
drawer: domjuergens

checked:

Fischer Panda GmbH - Otto-Hahn-Str. 40 - D-33104 Paderborn - +49(0)5254/9202-0 - [info@fischerpanda.de](mailto:info@fischerpanda.de)

General notes on the wiring diagram

system indication:



component name:

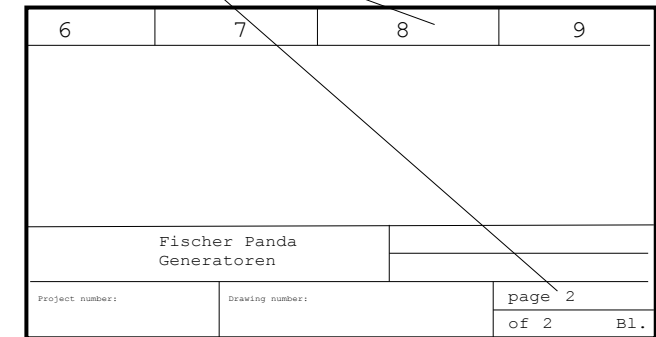
- A = Multifunctional
- B = Dissipation signals
- C = Capacitors
- F = Protective device
- G = Winding/battery
- K = Signal handling /relay
- M = Motor/pump/ventilator
- P = Illustration information
- Q = Power contactor
- R = Diode/resistor
- S = Switches
- T = Energy dissipation
- X = Connectors/clamps

color code:

- BK = black
- BN = brown
- RD = red
- OR = orange
- YE = yellow
- GN = green
- VT = violet
- GY = grey
- WH = white
- PK = pink
- BU = blue

Cross reference:

line name 5.8 further on page 5 path 8



Component designation:

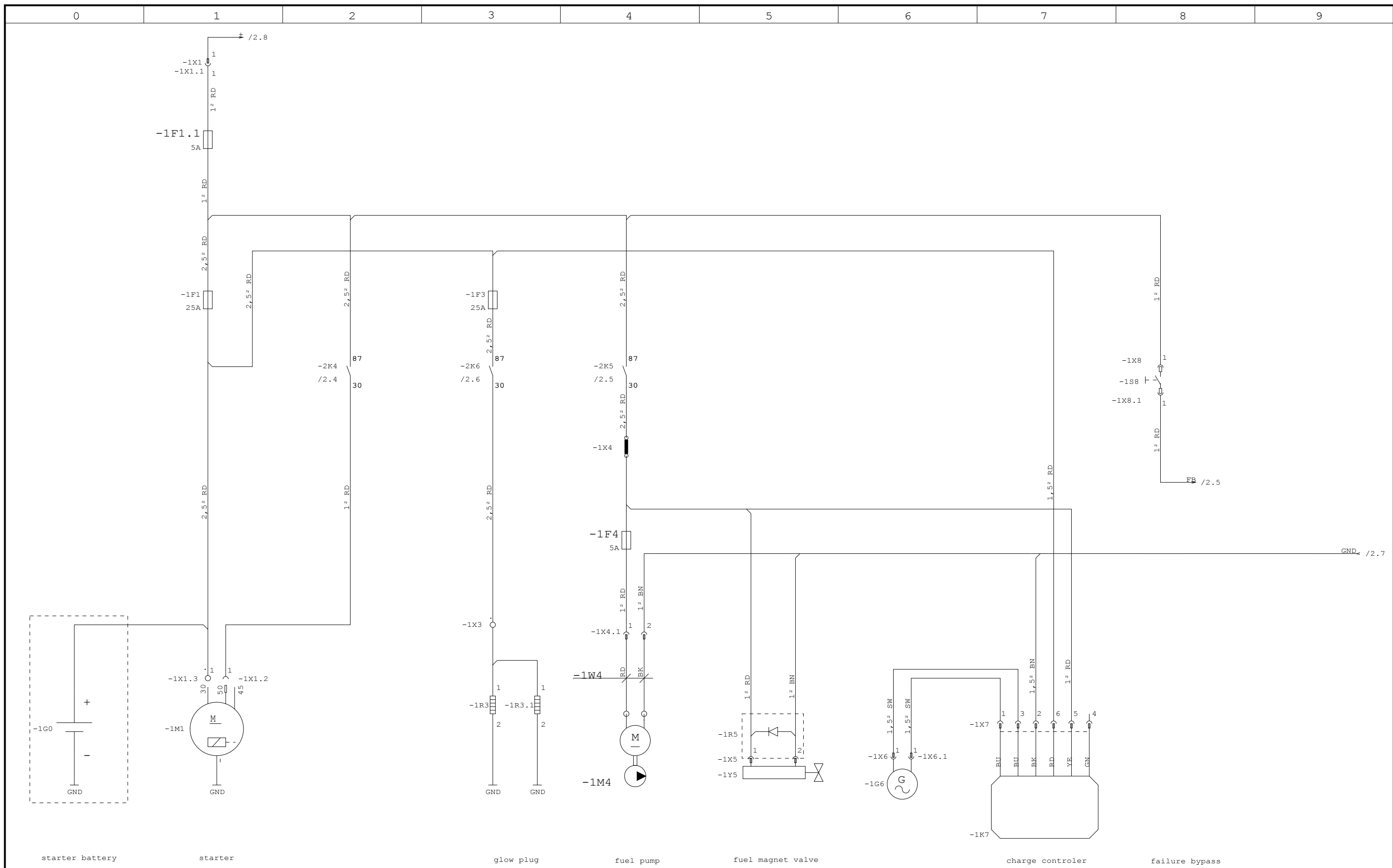
example: 11K1 component on page 11 path 1  
 11.1  
 page component path

legend:

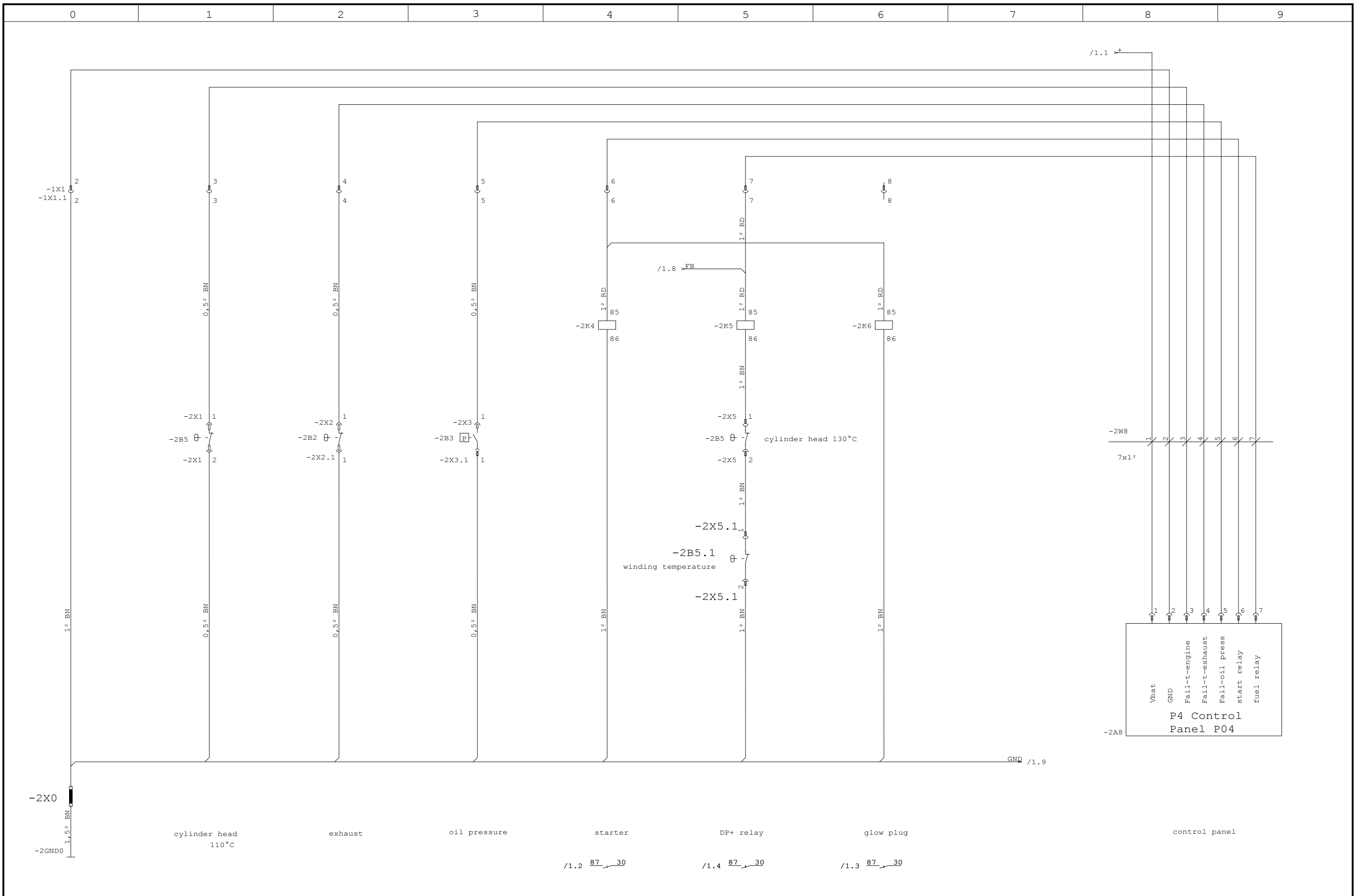
external components -----  
 lines  
 lines n=optional -----

- NO = normally open
- NC = normally closed

| color definition: | application:                                    | remark:  |
|-------------------|---|--|
| green/yellow      | protective earth according to VDE 0100-200      |  |
| black             | main circuit for AC- and converter circuits     | also AC metering voltage                             |
| light blue        | neutral conductor from main circuit             |  |
| yellow            | control circuit for AC with control transformer | L and N both yellow                                  |
| red               | control circuit for DC 12V                      |  |
| grey              | control circuit for DC 24V                      |  |
| white             | control circuit for DC 48V                      |  |
| brown             | control circuit for DC GND                      | for 12V, 24V and 48V                                 |
| violet            | analogue measuring circuit                      | e.g. VDO, current transformer<br>DC metering voltage |
| orange            | locking circuit with external voltage supply    | e.g. external emergency stop                         |
| green             | extra voltage                                   | e.g. PWM-signal, 5V signal                           |



|         |  |        |  |             |  |                     |  |                           |  |        |  |
|---------|--|--------|--|-------------|--|---------------------|--|---------------------------|--|--------|--|
|         |  | date   |  | 04.10.16    |  | Fischer Panda GmbH  |  | Fischer Panda Generatoren |  | =      |  |
|         |  | drawer |  | domjuergens |  | Otto-Hahn-Str. 40   |  | project number:           |  | +      |  |
|         |  | proved |  |             |  | D-33104 Paderborn   |  | drawing number:           |  | scale: |  |
| respon. |  | change |  | date        |  | +49(0) 5254/9202-0  |  | 072168 03 00              |  | A3 1:1 |  |
|         |  | name   |  | rule        |  | www.fischerpanda.de |  |                           |  | 1      |  |
|         |  | origin |  | replaced f. |  | replaced by         |  |                           |  | 2      |  |
|         |  |        |  |             |  |                     |  |                           |  | pg.    |  |



|         |  |        |  |             |  |                            |  |      |  |  |  |                 |  |
|---------|--|--------|--|-------------|--|----------------------------|--|------|--|--|--|-----------------|--|
|         |  | date   |  | 04.10.16    |  |                            |  |      |  |  |  |                 |  |
|         |  | drawer |  | domjuergens |  | DC P4k P5k PMS PV 12VStart |  |      |  | Fischer Panda Generatoren  |  |                 |  |
|         |  | proved |  |             |  |                            |  |      |  | project number:  |  | drawing number: |  |
| respon. |  | change |  | date        |  | name                       |  | rule |  | origin   |  | replaced f.     |  |
|         |  |        |  |             |  |                            |  |      |  | replaced by  |  |                 |  |
|         |  |        |  |             |  |                            |  |      |  | Fischer Panda GmbH<br>Otto-Hahn-Str. 40<br>D-33104 Paderborn<br>+49 (0) 5254/9202-0<br>www.fischerpanda.de |  | 072168 03 00    |  |
|         |  |        |  |             |  |                            |  |      |  | scale:   |  | 2               |  |
|         |  |        |  |             |  |                            |  |      |  | A3 1:1   |  | 2 pg.           |  |

## list of materials

page 1

| Nr. | BMK    | qty. | Fischer Panda article number | description   |      |
|-----|--------|------|------------------------------|---|------|
| 1   | -1F1   | 1    | 34.08.03.025H                | Steckhülsegehäuse für KFZ-Flachsicherungen                                    | /1.1 |
|     |        | 1    | 34.08.03.023H                | Flachsicherung KFZ 25A weiß   | /1.1 |
| 2   | -1F1.1 | 1    | 34.08.03.018H                | Flachsicherung KFZ 5A braun   | /1.1 |
|     |        | 1    | 34.08.03.188H                | ATO-Sicherungshalter mit Leitungen 1,3mm <sup>3</sup> beidseitig, max 20A     | /1.1 |
| 3   | -1F3   | 1    | 34.08.03.025H                | Steckhülsegehäuse für KFZ-Flachsicherungen                                    | /1.3 |
|     |        | 1    | 34.08.03.023H                | Flachsicherung KFZ 25A weiß   | /1.3 |
| 4   | -1F4   | 1    | 34.08.03.018H                | Flachsicherung KFZ 5A braun   | /1.4 |
|     |        | 1    | 34.08.03.188H                | ATO-Sicherungshalter mit Leitungen 1,3mm <sup>3</sup> beidseitig, max 20A     | /1.4 |
| 5   | -1R5   | 1    | 34.10.01.008H                | Diode 1N4007  | /1.5 |
| 6   | -1S8   | 1    | 34.08.01.048H                | Druckknopftaster Schließer Fehlerbypass                                       | /1.8 |
| 7   | -1U4   | 1    | FP1-035422                   | Kabelbaumhalter P4K   | /1.4 |
|     |        | 1    | 31.41.03.007H                | Abdeckung Plexiglas Rund 20mm   | /1.4 |
|     |        | 1    | 31.41.03.003H                | Relaisabdeckung 3fach   | /1.4 |
| 8   | -1W4   | 1    | 31.41.20.163H                | Kraftstoffpumpenkabel Typ 07 für P4K  | /1.4 |
| 9   | -1X1   | 1    | 34.05.05.024H                | Stiftgehäuse DTM 04-8 PA 8 polig  | /1.1 |
|     |        | 1    | 34.05.05.026H                | Kontaktsicherung WM 8 P Serie DTM   | /1.1 |
| 10  | -1X1.1 | 1    | 34.05.05.025H                | Buchsengehäuse DTM 06-8 SA 8 polig  | /1.1 |
|     |        | 1    | 34.05.05.027H                | Kontaktsicherung WM 8 S Serie DTM   | /1.1 |
| 11  | -1X1.2 | 1    | 34.05.03.007H                | AMP Positive Lock Steckverbinder Faston 0,5-1,5 mm <sup>2</sup> 6,3mm CuSn    | /1.1 |
|     |        | 1    | 34.05.03.008H                | AMP Stecker-Gehäuse Positive Lock f Steckverbinder Faston 6,3mm 1polig rot    | /1.1 |
| 12  | -1X1.3 | 1    | 34.04.12.011H                | Quetschkabelschuh Ringform DIN46237 isoliert 1,5-2,5 mm <sup>2</sup> M08 blau | /1.1 |
| 13  | -1X3   | 1    | 34.04.12.007H                | Quetschkabelschuh Ringform DIN46237 isoliert 0,5-1,0 mm <sup>2</sup> M05 rot  | /1.3 |
| 14  | -1X4   | 1    | 34.04.04.016H                | Parallelverbinder 6mm <sup>2</sup>  | /1.4 |
| 15  | -1X4.1 | 1    | 34.05.05.064H                | Buchsengehäuse DT 06-2 S C015   | /1.4 |
|     |        | 1    | 34.05.05.065H                | Kontaktsicherung W 2 S Serie DT   | /1.4 |
| 16  | -1X5   | 1    | 34.05.10.001H                | Winkelkupplung GDM 2009 Kraftstoffmagnetventil                                | /1.5 |
| 17  | -1X6   | 1    | 34.04.11.004H                | Rundstecker 0,5-1,0 mm <sup>2</sup> isoliert rot Ø 04 mm                      | /1.6 |
| 18  | -1X6.1 | 1    | 34.04.11.004H                | Rundstecker 0,5-1,0 mm <sup>2</sup> isoliert rot Ø 04 mm                      | /1.6 |
| 19  | -1X7   | 1    | 30.02.02.053H                | Gegenstecker Laderegler   | /1.7 |
| 20  | -1X8   | 1    | 34.05.03.007H                | AMP Positive Lock Steckverbinder Faston 0,5-1,5 mm <sup>2</sup> 6,3mm CuSn    | /1.8 |
|     |        | 1    | 34.05.03.008H                | AMP Stecker-Gehäuse Positive Lock f Steckverbinder Faston 6,3mm 1polig rot    | /1.8 |
| 21  | -1X8.1 | 1    | 34.05.03.007H                | AMP Positive Lock Steckverbinder Faston 0,5-1,5 mm <sup>2</sup> 6,3mm CuSn    | /1.8 |
|     |        | 1    | 34.05.03.008H                | AMP Stecker-Gehäuse Positive Lock f Steckverbinder Faston 6,3mm 1polig rot    | /1.8 |
| 22  | -2A8   | 1    | 21.02.02.145H                | Fernbedienpanel P4 Control Konfiguriert 111000                                | /2.8 |
| 23  | -2B2   | 1    | 34.12.01.015H                | Thermoschalter THO 98/83°C M14x1,5 SW22 Flachsteckanschluss 6,3mm             | /2.2 |
| 24  | -2GND0 | 1    | 34.04.12.011H                | Quetschkabelschuh Ringform DIN46237 isoliert 1,5-2,5 mm <sup>2</sup> M08 blau | /2.0 |
| 25  | -2K4   | 1    | 34.08.02.007H                | KFZ-Relais 12V  | /2.4 |
|     |        | 1    | 34.08.02.072H                | Relaishalterung 9-polig für KFZ-Relais  | /2.4 |
| 26  | -2K5   | 1    | 34.08.02.007H                | KFZ-Relais 12V  | /2.5 |
|     |        | 1    | 34.08.02.072H                | Relaishalterung 9-polig für KFZ-Relais  | /2.5 |

