40  **J1**  1

1

**J3**

12

40  **J2**  1

View with pins facing upwards.

CAN terminator
(for the first and the last node
of the network)

120R
5%, 0.25W

**Can_Hi**  35
**Can_L0**  34
**GND**  9

**J2**
CAN
Connection

**J1**
USB
Connection

| 6 | USB V+ |
| 4 | USB DATA- |
| 5 | USB DATA + |
| 36 | GND |

USB CABLE → PC

**+5V_OUT**  38
100Ω÷1KΩ  **REF**  5  0÷5V
**GND**  9
100Ω÷1KΩ  **FDBK**  4  0÷5V

**J2**
Analog
Inputs

**J2**
Feedback #2
Connector

| 32 | Enc A2+ |
| 33 | Enc A2- |
| 31 | Enc B2+ |
| 30 | Enc B2- |
| 28 | Enc Z2+ |
| 29 | Enc Z2- |
| 38 | +5V |
| 9 | GND |

Feedback #2 *

Transmission

**+V_LOG**

PNP**

NPN**

**GND**

| **IN0** | 13 |
| **IN1** | 12 |
| **IN2/LSP** | 14 |
| **IN3/LSN** | 15 |
| **IN4** | 11 |
| **IN5** | 10 |
| **GND** | 9 |
| +V_LOG | 40 |

**J2**
Digital
Inputs

**J2**
Feedback #1
Connector

| 26 | Enc A1+ |
| 27 | Enc A1- |
| 24 | Enc B1+ |
| 25 | Enc B1- |
| 22 | Enc Z1+ |
| 23 | Enc Z1- |
| 38 | +5V |
| 9 | GND |

Feedback #1 *

| **STO1+** | 40 |
| **STO1-** | 39 |
| **STO2-** | 37 |
| **STO2+** | 38 |

18...36V
SELV/ PELV

**J1**
STO

**J2**
Digital
Hall
Signals
Input

| 8 | H1 |
| 7 | H2 |
| 6 | H3 |
| 38 | +5V |
| 9 | GND |

MOTOR
HALL
SIGNALS*

**+V_LOG**

NPN**

PNP**

**GND**

| LOAD | **OUT0** | 21 |
| | max 1.5 A PNP/ 2A NPN | |
| LOAD | **OUT1** | 20 |
| | max 0.3 A PNP/ 0.4A NPN | |
| LOAD | **OUT2/Error** | 17 |
| | max 0.3 A PNP/ 0.4A NPN | |
| LOAD | **OUT3/Ready** | 16 |
| | max 0.3 A PNP/ 0.4A NPN | |
| LOAD | **OUT4** | 19 |
| | max 0.3 A PNP/ 0.4A NPN | |
| LOAD | **OUT5** | 18 |
| | max 0.3 A PNP/ 0.4A NPN | |

**J2**
Digital
Outputs

**J3**
Motor
Connector

| 9,10 | A |
| 7,8 | B |
| 5,6 | C |

BLDC
MOTOR*

CHOPPING RESISTOR
3,4
typ. 10Ω
1,2

Logic power supply

Isolated
Transformer

DC SELV/ PELV
Power Supply

+  40
-  39

9V/0.4A....36V/0.12A

**J2**
Logic
Power
Supply

**J3**
Motor
Power
Supply

| 11,12 | + |
| 1,2 | - |

Motor power supply

DC Power Supply

11-50V, 10/15A_NOM

Isolated
Transformer
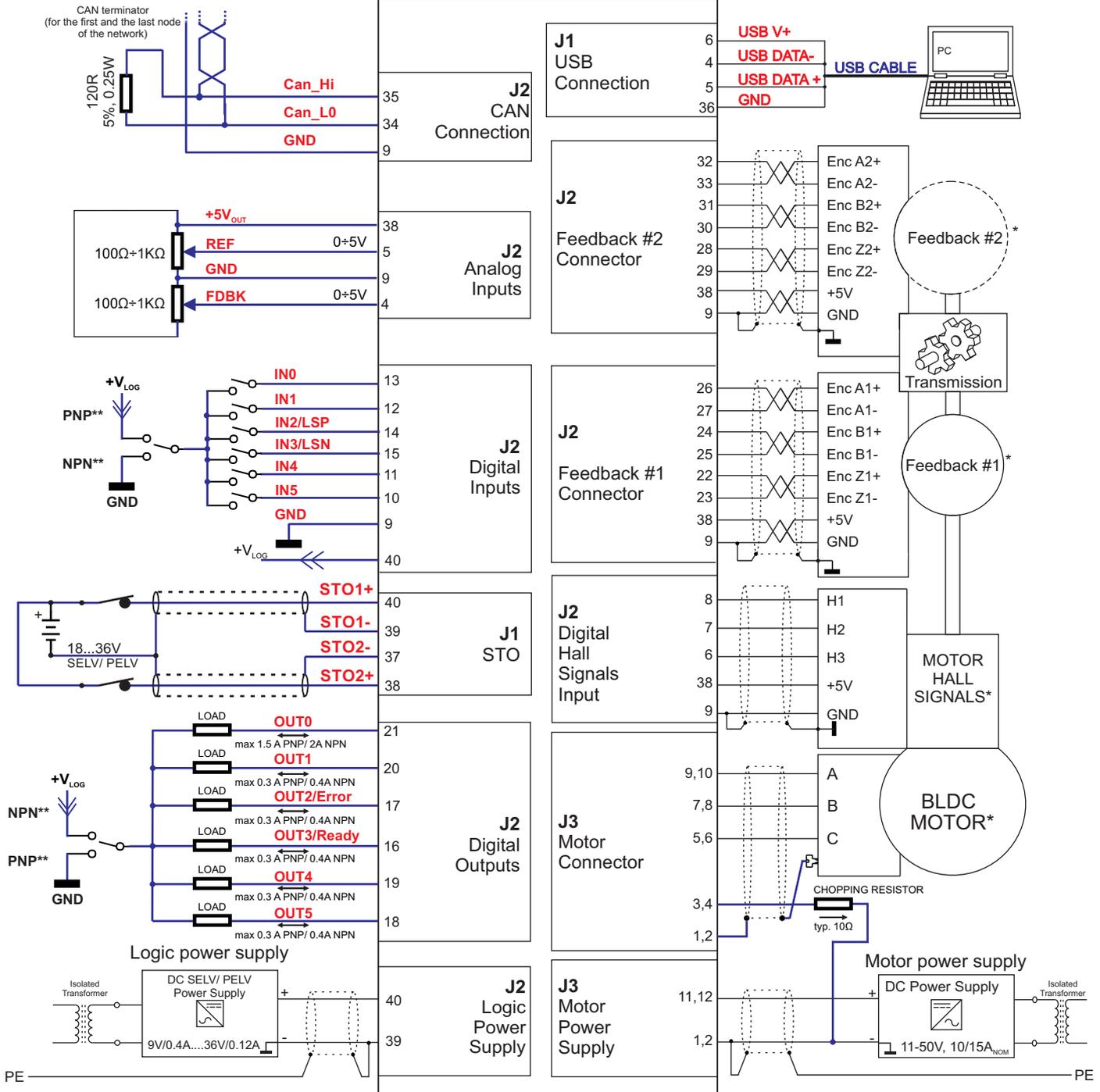
PE ——— PE

* For all available feedback/ motor options, check the user manual of the drive
** The PNP/NPN connection is configured by software

| **iPOS4810 MZ-CAN** | **P/N:P022.015.E102** |
| **iPOS4815 MZ-CAN** | **P/N:P022.016.E102** |

Copyright © Technosoft 2024. All rights reserved.

**iPOS481x MZ-CAN - Electrical Connection Diagram**
Title

| Size | Document Number: | Author: | Rev |
| A4 | P091.022.MZ.CAN.CDG.0524 | ALN | H |
| Date: 0524 | | Sheet **1** of **1** | |