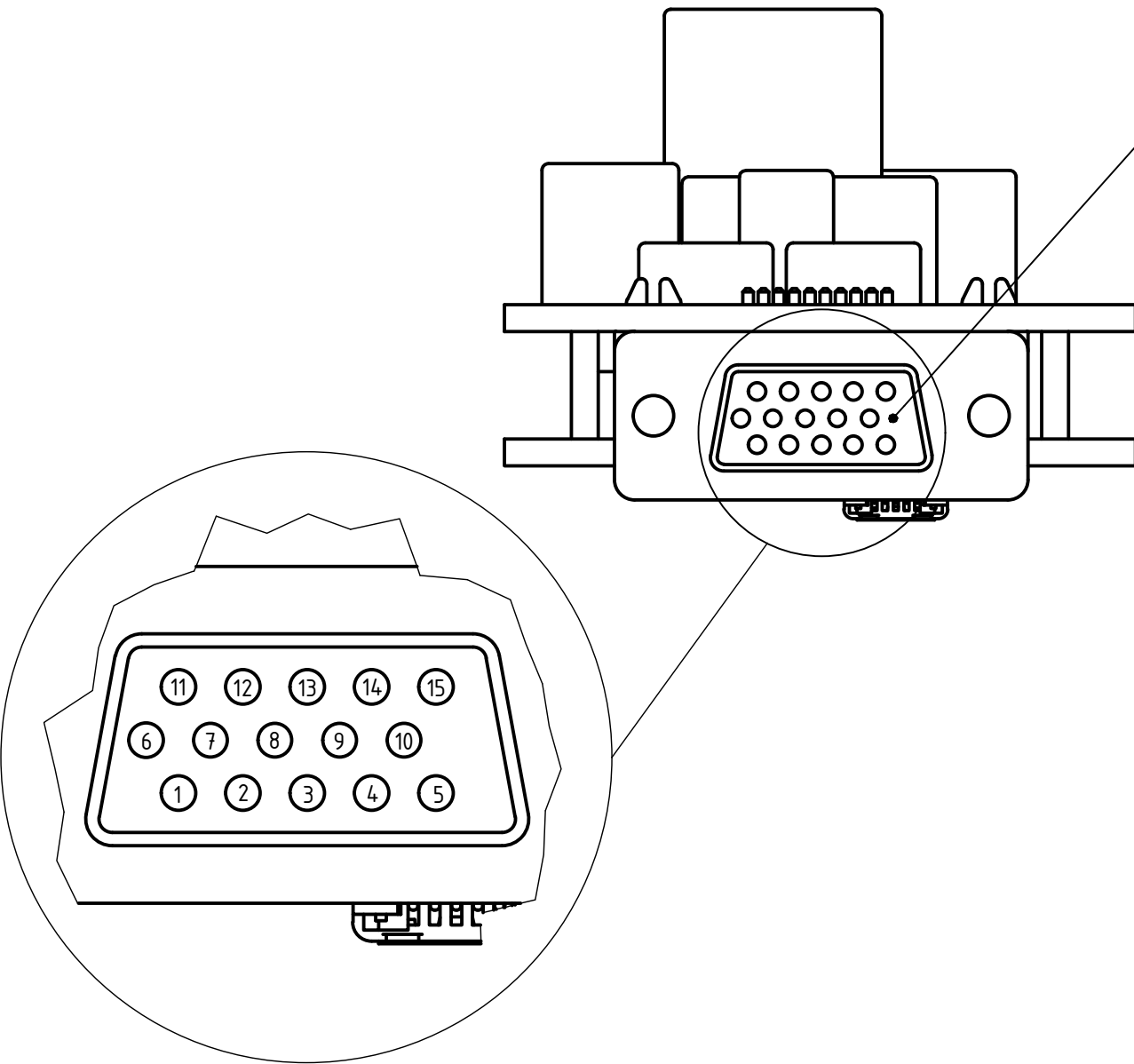


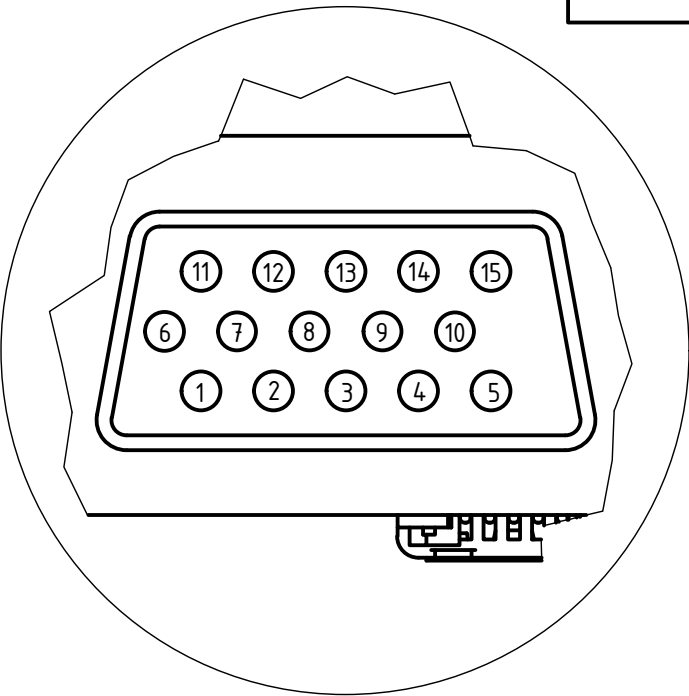
Circuit Card Assembly Wiring Diagram

8SMC5B-USB



Connector HDB15(F)

Pin	Function
1	Not phase B of SM or - DC of the motor
2	Phase B of SM or + DC of the motor or phase B on BLDC motor
3	Not phase A of SM or - DC of the motor or phase C on BLDC motor
4	Phase A of SM or + DC of the motor or phase A on BLDC motor
5	5V / 500mA - stabilized output for encoder power supply
6	One-wire interface for positioner identification (for Standa hardware only)
7	Logic ground for limit switches, encoder, etc.
8	2nd limit switch
9	1st limit switch
10	Encoder channel A
11	Encoder channel B
12	Revolution sensor input
13	Inverted Encoder channel A
14	Inverted Encoder channel B
15	Inverted revolution sensor input

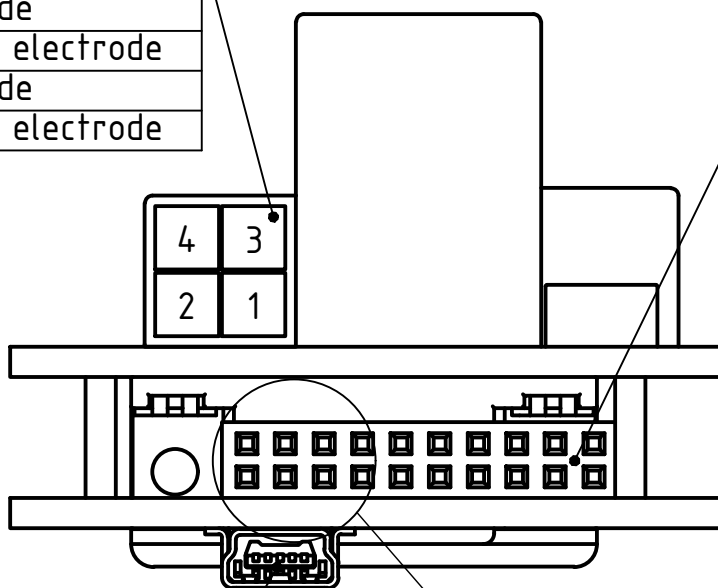


Connector BPC (20 pin)

Pin	Function
1	GND, duplicates the corresponding pin of mini USB connector
2	VBUS, duplicates the corresponding pin of mini USB connector
3	D-, duplicates the corresponding pin of mini USB connector
4	D+, duplicates the corresponding pin of mini USB connector
5	Joy, an analog 0-3 V input used for external joystick connection
6	Pot, an analog 0-3 V input used for general purpose
7	RX, a serial port input, 3.3V logic
8	TX, a serial port output, 3.3V logic
9	A Clock signal for external driver control, 3.3V logic
10	A Direction signal for external driver control, 3.3V logic
11	BUT_R, an external "Right" button input
12	BUT_L, an external "Left" button input
13	A common input/output (or an Enable signal if an external driver is used), 3.3V logic
14	An output for magnetic brake control, 3.3V logic
15	Synchronization output, 3.3V logic
16	Synchronization input, 3.3V logic
17	A LED Power output displaying 3.3V power supply for controller
18	A LED Status output displaying controller's operating mode
19	A LED output for left limit switch
20	A LED output for right limit switch

Connector PSC

Pin	Function
1	"-" power electrode
2	12-48V "+" power electrode
3	"-" power electrode
4	12-48V "+" power electrode



Type B Mini-USB Connector

