ESCON 50/5 – Wiring Overview

On the following pages you will find the wiring information based on the configuration you performed in «ESCON Studio».

Figure 1-3 Interfaces – Location

Remark

- ⏚ *Ground safety earth connection (optional)*

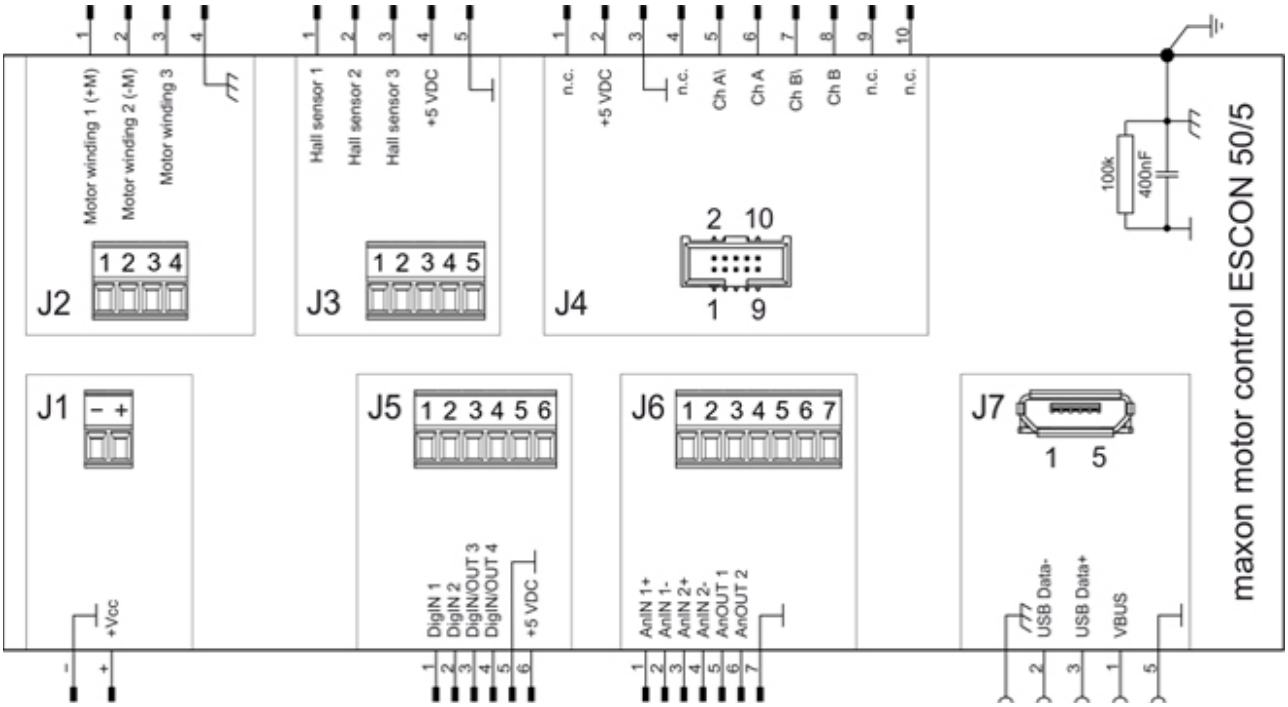

Figure 1-4 Interfaces – Pin Assignment

J1 Power		
Pin	**Signal**	**Configured Purpose**
–	Power_GND	Ground of supply voltage
+	$+V_{cc}$	Power supply voltage (+10…+50 VDC)

J2 Motor		
Pin	**Signal**	**Configured Purpose**
1	DC: Motor (+M) EC: Motor winding 1	EC motor: Winding 1
2	DC: Motor (–M) EC: Motor winding 2	EC motor: Winding 2
3	DC: not connected EC: Motor winding 3	EC motor: Winding 3
4	Motor shield	Cabel shield

J3 Hall Sensor		
Pin	**Signal**	**Configured Purpose**
1	Hall sensor 1	Hall sensor 1 input
2	Hall sensor 2	Hall sensor 2 input
3	Hall sensor 3	Hall sensor 3 input
4	+5 VDC	Hall sensor supply voltage (+5 VDC; Il<=30mA)
5	GND	Ground

J4 Encoder				Encoder Cable (275934)		
Pin	**Signal**	**Configured Purpose**		**Head A**	**Color**	**Head B**
1	not connected			1	brown	1
2	+5 VDC	Encoder supply voltage (+5 VDC; <=70 mA)		2	white	2
3	GND	Ground		3	red	3
4	not connected			4	white	4
5	Channel A\	Channel A complement		5	orange	5
6	Channel A	Channel A		6	white	6
7	Channel B\	Channel B complement		7	yellow	7
8	Channel B	Channel B		8	white	8
9	not connected			9	green	9
10	not connected			10	white	10

J5 Digital I/Os		
Pin	**Signal**	**Configured Purpose**
1	DigIN1	PWM - Set Value
2	DigIN2	Enable
3	DigIN/DigOUT3	
4	DigIN/DigOUT4	
5	GND	Ground
6	+5 VDC	Auxiliary output voltage (+5 VDC; <=10 mA)

J6 Analog I/Os		
Pin	**Signal**	**Configured Purpose**
1	AnIN1+	
2	AnIN1–	
3	AnIN2+	
4	AnIN2–	
5	AnOUT1	
6	AnOUT2	
7	GND	Ground

Potentiometers P1 / P2	
Potentiometer	**Configured Purpose**
P1	
P2	Current Gain

J7 USB				USB Type A - micro B Cable (403968)		
Pin	**Signal**	**Configured Purpose**		**Head A**	**Color**	**Head B**
1	V_{BUS}	USB BUS supply voltage input +5 VDC		1		1
2	D–	USB Data– (twisted pair with Data+)		2		2
3	D+	USB Data+ (twisted pair with Data–)		3		3
4	ID	not connected		4		–
5	GND	USB ground		5		4