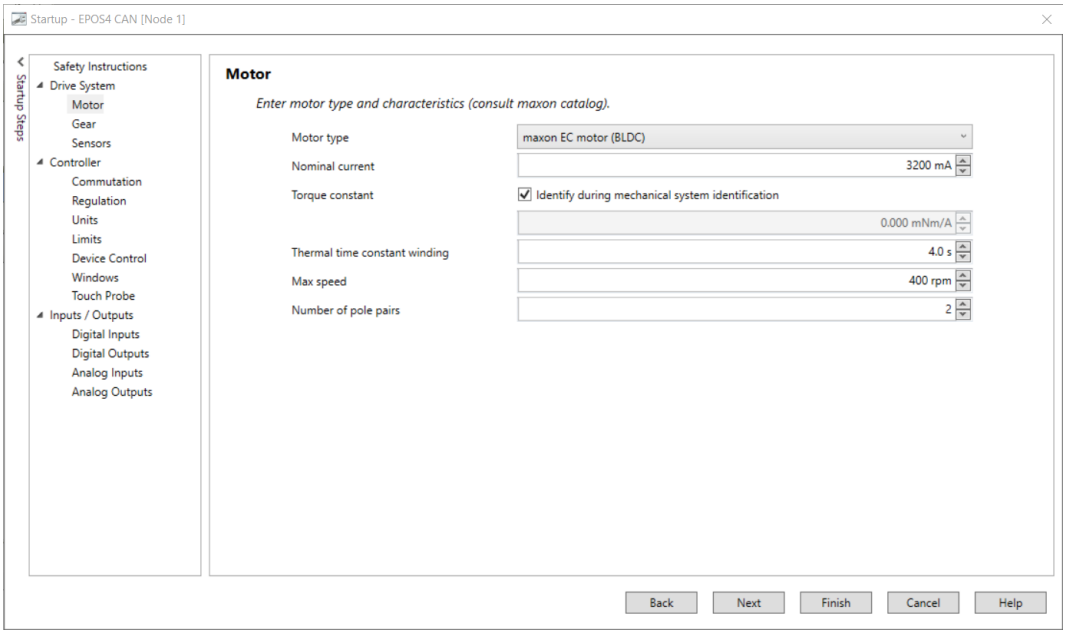
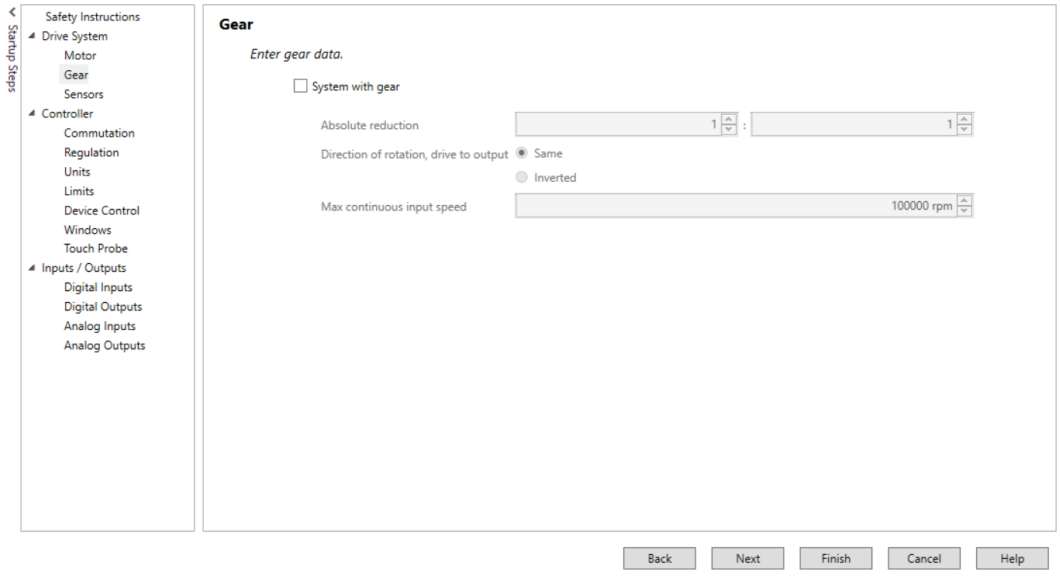
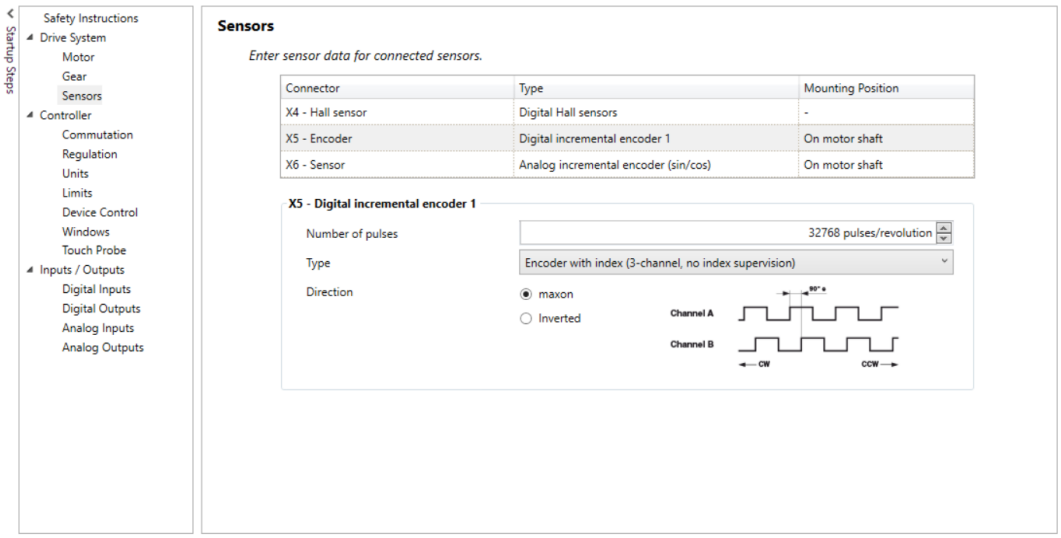
Paramétrage startup wizard







Commutation

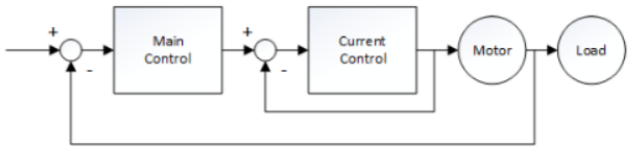
Enter commutation type and sensors.

Type	Sinusoidal commutation
Sensors	X4 - Digital Hall sensors & X6 - Analog incremental encoder (sin/cos)

Regulation

Select control loop structures.

Current	PI current controller
Velocity	PI velocity controller (low-pass filter)
Position	PID position controller
Main sensor	X6 - Analog incremental encoder (sin/cos)



Units

Select controller units.

Position Unit	1 inc
Velocity Unit	1 rpm
Acceleration Unit	1 rpm/s
Current Unit	1 mA
Torque Unit	0.001 mNm

Limits

Enter the drive system operating limits (consider the component with the lowest limit value).

Max continuous current	3200 mA
Max output current	3200 mA
Max acceleration	30000 rpm/s
Max profile velocity	300 rpm
Following error window	2000 inc

☑ Use software position limit.

Min position limit	0 inc
Max position limit	10000 inc

Max temperature power stage	95.0 °C
Power supply undervoltage limit	8.000 V
Power supply overvoltage limit	58.000 V

Digital Inputs

Enter digital input functionalities and characteristics.

Input	Functionality	Polarity
Digital input 1	None	High active
Digital input 2	Negative limit switch	High active
Digital input 3	Positive limit switch	High active
Digital input 4	None	High active
High-speed digital input 1	None	High active
High-speed digital input 2	None	High active
High-speed digital input 3	None	High active
High-speed digital input 4	None	High active

High-speed digital inputs are configured for the sensor on connector X6.

Digital Outputs

Enter digital output functionalities and characteristics.

Output	Functionality	Polarity
Digital output 1	General purpose A	High active
Digital output 2	None	High active
High-speed digital output 1	None	High active

High-speed digital output 1 is configured for the sensor on connector X6.