

Commissioning Wizard

Application class

Application class:
[1] Standard Drive Control (SDC)

Typical application:



- Pumps, fans and compressors with flow characteristic
- Beam technology
- Mills, mixers, kneaders, crushers, agitators
- Horizontal conveyors
- Simple spindles

Typical characteristic values:



- Robust vector control for simple handling
- Motor power up to 45 kW
- Ramp-up times greater than 5 – 10 s
- Continuous motion with constant load
- Static torque limiting
- Stationary speed accuracy

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Commissioning Wizard [X]

Setpoint specification

Selection if the drive is connected to a PLC and where the setpoint is to be created.

Selection of the controller connection and the setpoint specification:

- Ramp function in the PLC [PLC] ↔ [Drive] Data exchange
- [PLC] ↔ [Drive] Data exchange Ramp function in the drive
- [Drive] Ramp function in the drive

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Commissioning Wizard

Defaults of the setpoints/command sources

Selection of a predefined interconnection of the inputs/outputs and, if required, the fieldbus telegram. Can be changed later user-specifically.

Select the default of the I/O configuration:

[5] Conveyor technology with fieldbus and Basic Safety

DO 0: r52.3 CO/BO: Status word 1: Fault present
DO 1: r52.7 CO/BO: Status word 1: Alarm present
AO 0: r21 CO: Actual speed smoothed

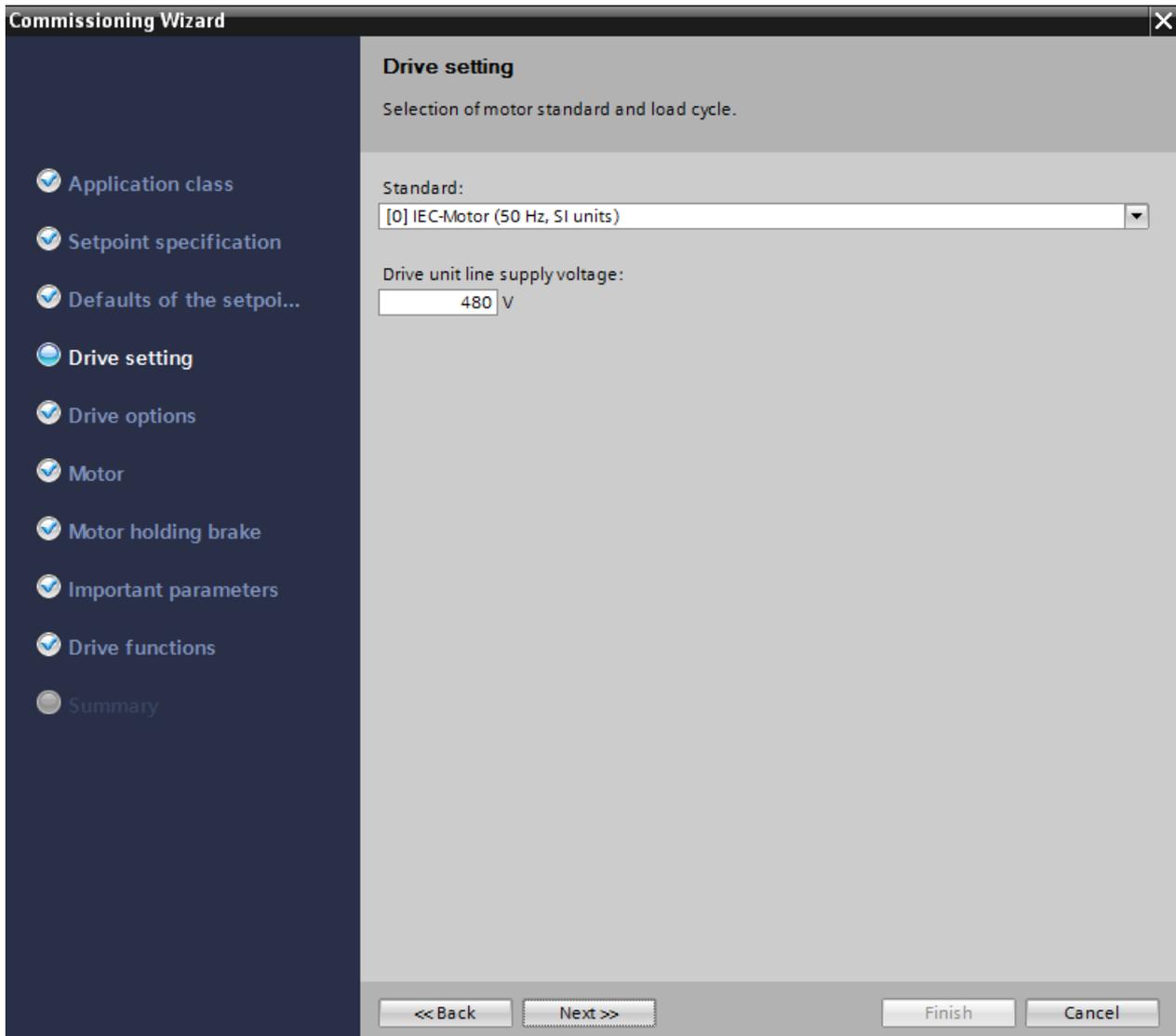
Telegram configuration:

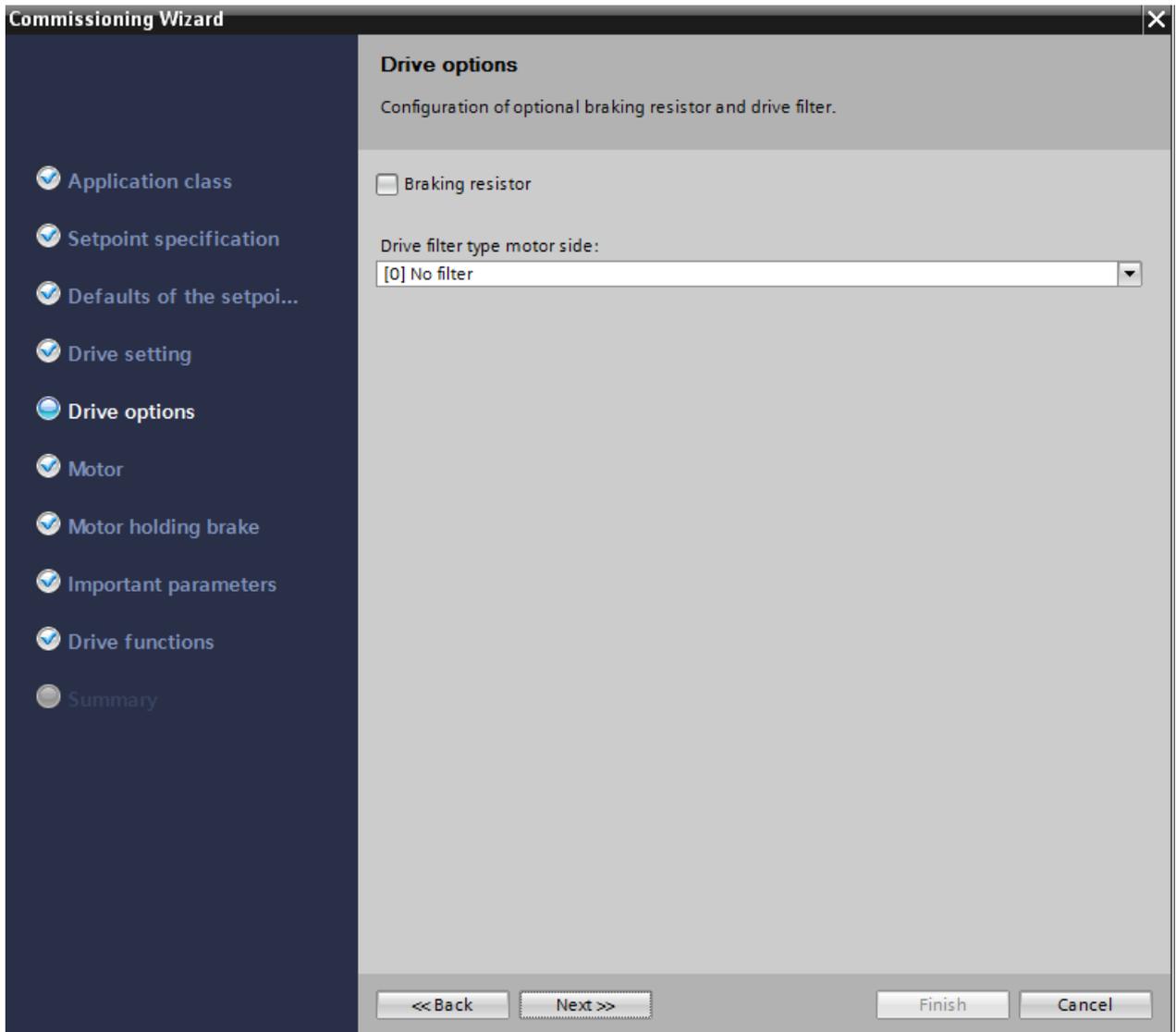
[1] Standard telegram 1, PZD-2/2

 Speed setpoint 16-bit

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Commissioning Wizard

Motor
Specification of motor type and motor data.

Motor configuration
Enter motor data

Select motor type
[1] Induction motor

Select the connection type for your motor and 87 Hz operation:
Star Motor 87 Hz operation

Please enter the following motor data:

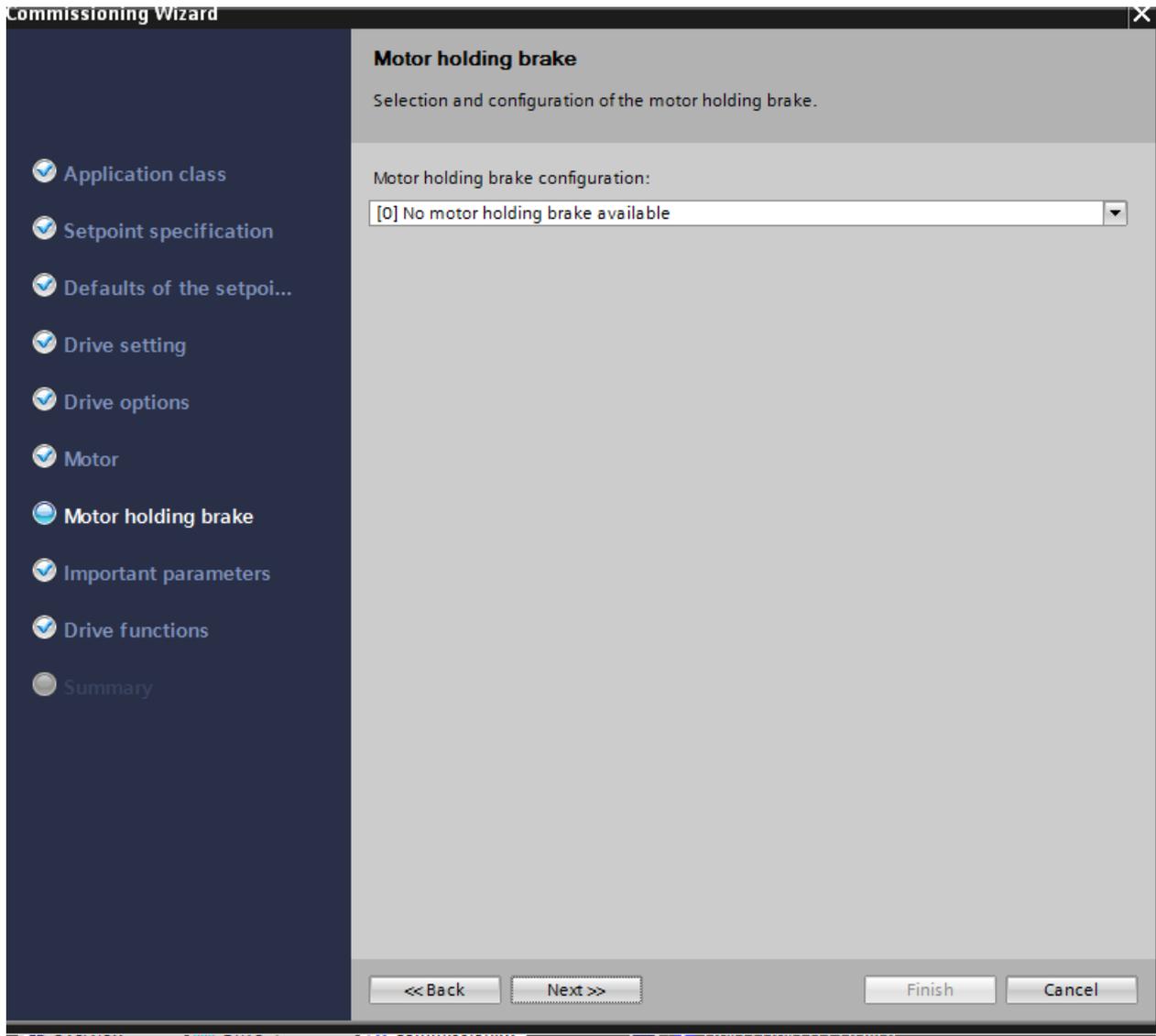
Parameter	Parameter text	Value	Unit
p305[0]	Rated motor current	1.75	Arms
p307[0]	Rated motor power	0.75	kW
p311[0]	Rated motor speed	1450.0	rpm

The following motor data is pre-assigned and can be changed if required:

Parameter	Parameter text	Value	Unit
p304[0]	Rated motor voltage	400	Vrms
p310[0]	Rated motor frequency	50.00	Hz
p335[0]	Motor cooling type	[0] Natural ve...	

Temperature sensor:
[0] No sensor

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Important parameters

Specification of the most important dynamic response data.

Synchronization of the speed of the drive with the speed of the PLC:

Reference speed: rpm

Maximum speed: rpm

Configuration of ramp-up and ramp-down time:

Ramp-up time: s

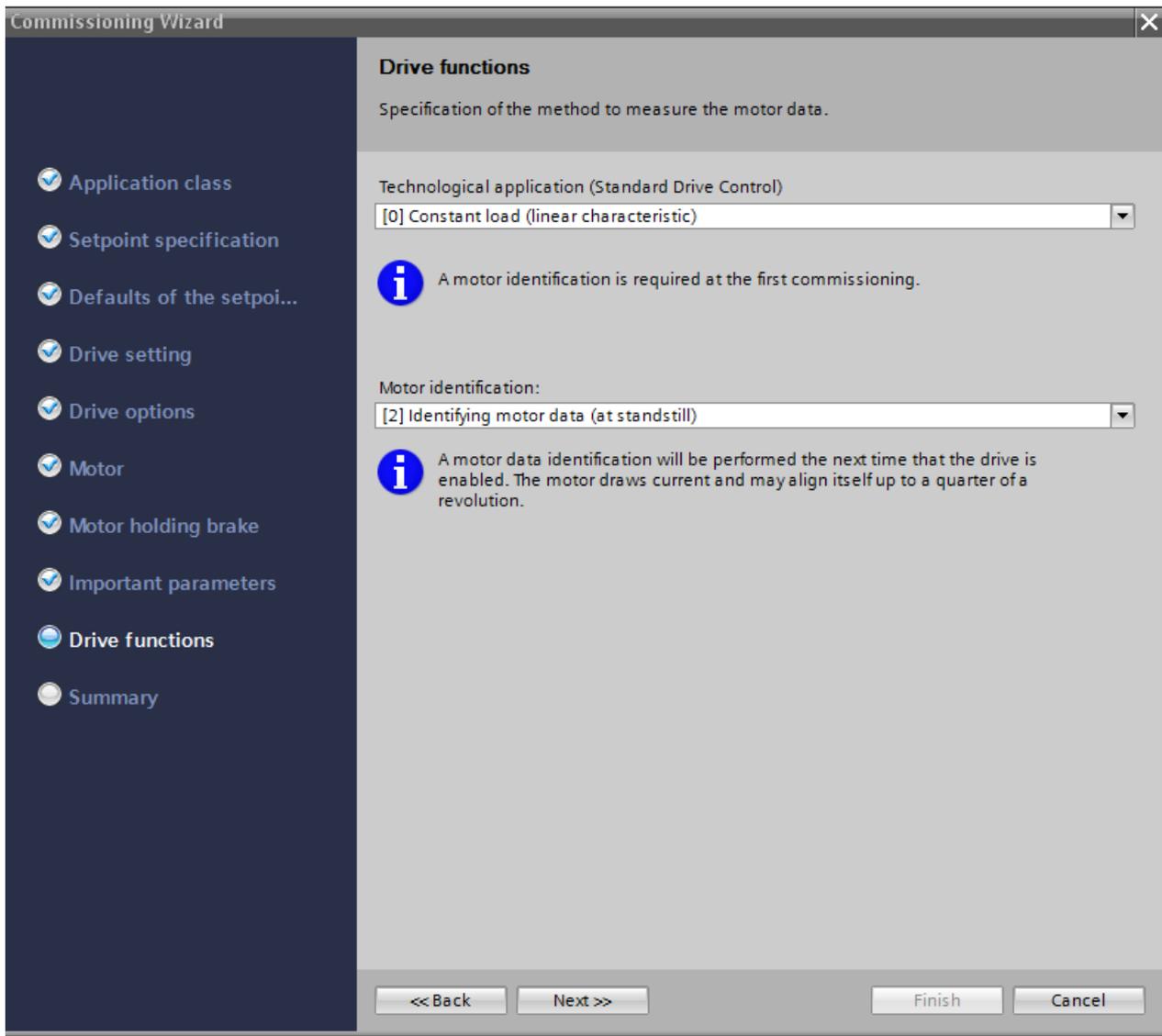
OFF1 ramp-down time: s

OFF3 (quick stop) ramp-down time: s

 These OFF1 and OFF3 ramp-down times apply for faults or a Safe Stop.

Configuration of the current limit:

Current limit: Arms



To make motor autotuning:

