

SBD-Servoregler

Die SDSetup-Software wird verwendet, um den SBD-Antrieb zu konfigurieren:

[:green_drive_motors:sdsetup.zip](#)

EtherCAT-Version ESI-Datei: [:green_drive_motors:cmz_sbd_etc.zip](#)

TwinCAT-Anwendungsnotiz: [:green_drive_motors:sdsetup-twincat_cmz_en.pdf](#)

CANopen-Version EDS-Datei: [:green_drive_motors:sbdcan.zip](#)

ProfiNET-Version GSDML-Datei: [:green_drive_motors:gsdml_sbd_ssd.zip](#)

TiA-Portal-Anwendungsnotiz: [:green_drive_motors:cmzdrivespnt_tiaportal.zip](#)

1) Angabe eines neuen Motors mit

Ein neuer Motor kann über Datei ⇒ Benutzermotoren ⇒ Verwalten hinzugefügt werden. Verwenden Sie [Datasheet Engine](#), um die Motorparameter anzuzeigen.

Nachfolgend zum Beispiel die GD350XS-Motorparameter.

User motors

Name: Manufacturer:

Motor data

Model:	GD350XS
Motion type:	AC3 linear
Poles:	2 poles
Rated current:	2.61 A
Max current:	9.00 A
Mass:	1.00 kg
Inductance:	7.50 mH
Resistance:	7.650 ohm
Force constant:	73.0 N/A
Rated force:	191.0 N
Max force:	1242.0 N
Rated speed:	4.000 m/s
*Max speed:	4.400 m/s
*Max voltage:	1000.0 V
Pole pitch:	60 mm

Feedback sensor

Type:

Phasing offset: ° Phase polarity: °

Temperature sensor

Type:

Fault threshold: ohm

Overload protection

☒ Enabled

*Time: s

Brake

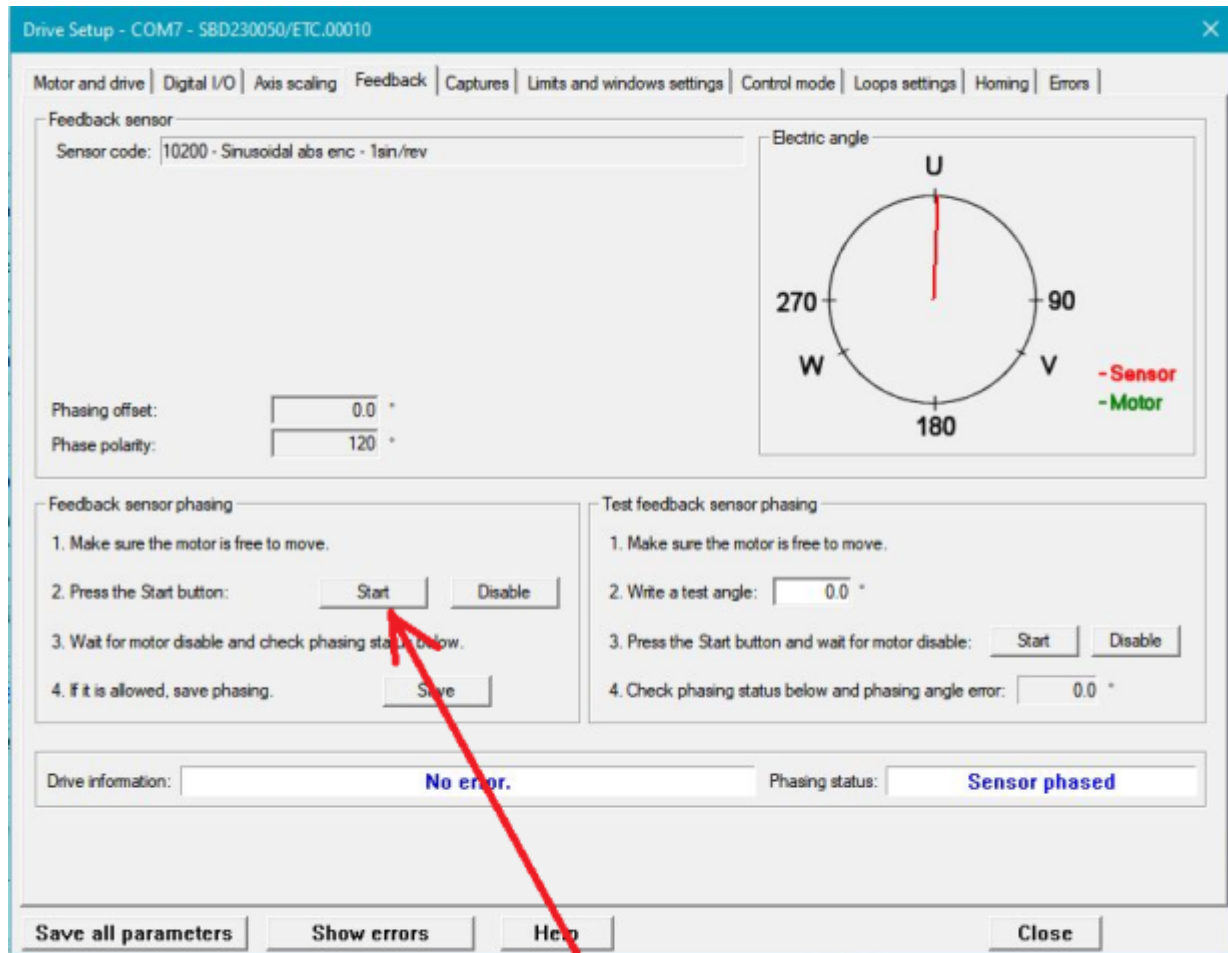
☐ Present

Opening time: ms

Closing time: ms

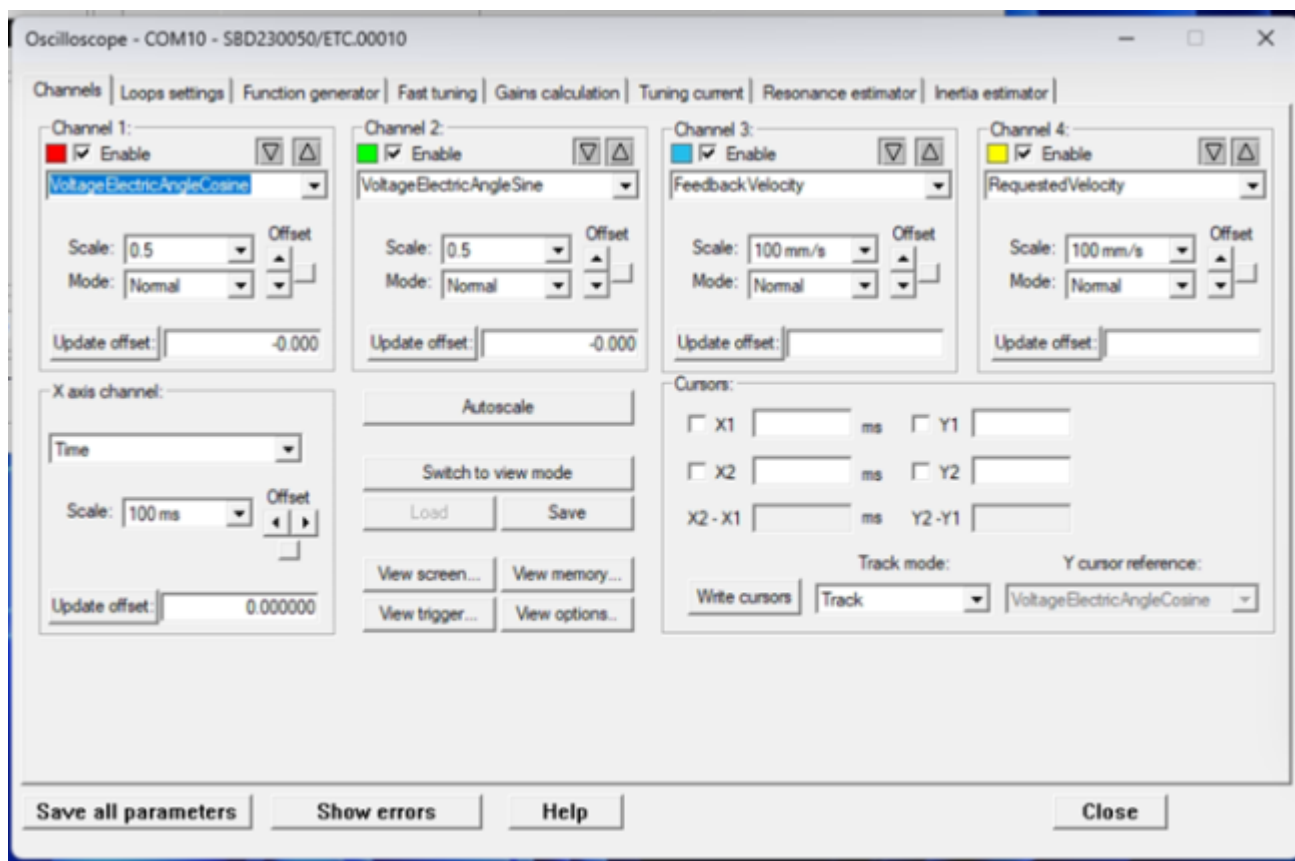
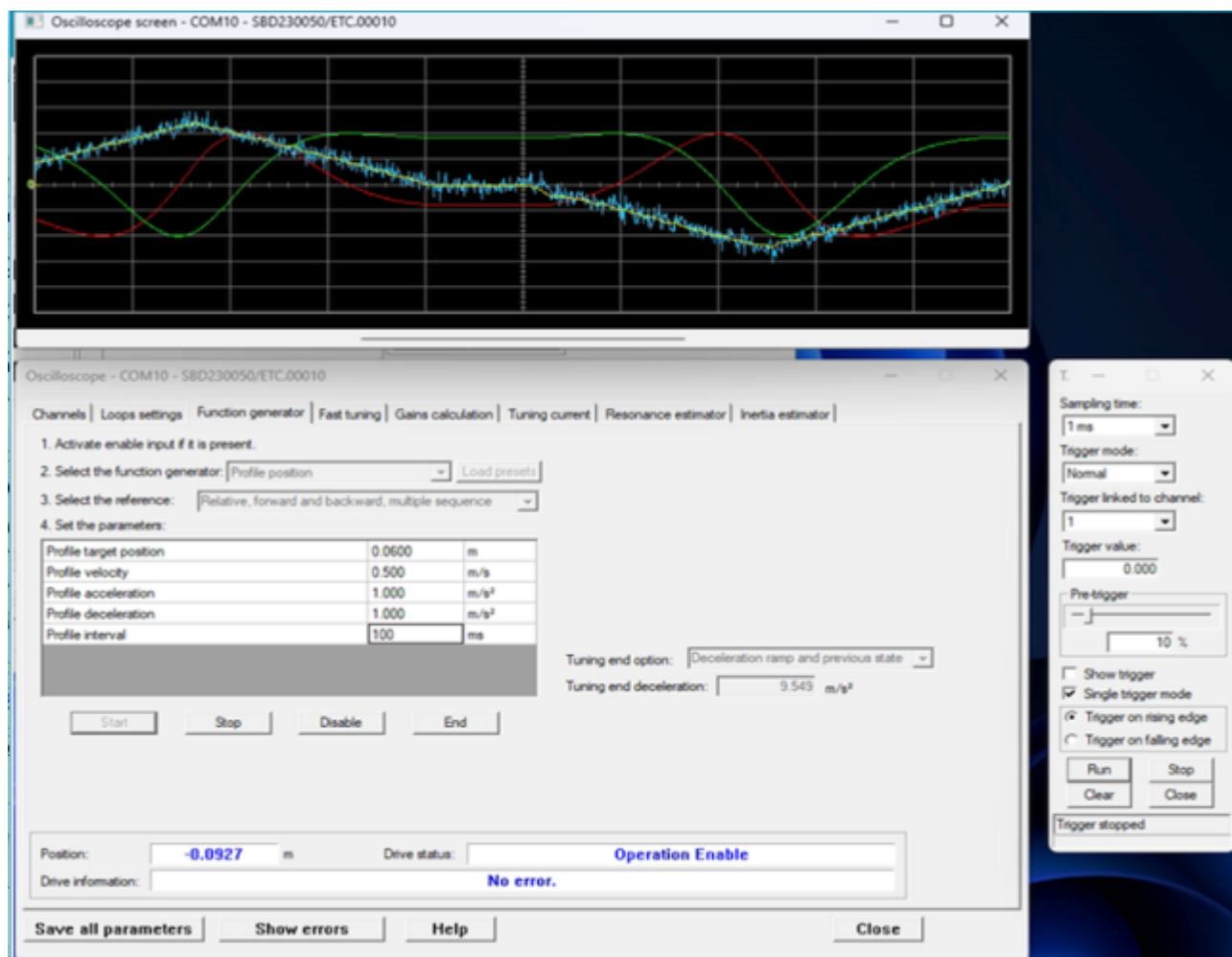
☒ *Auto calculate

2) Phasenlage des Motors



3) Tuning des Motors

Mit dem Funktionsgenerator ein Bewegungsprofil angeben.



4) Beispiel für Loop-Einstellungen

The screenshot displays the 'Oscilloscope - COM10 - SBD230050/ETC.00010' control interface. It features several tabs: Channels, Loops settings (selected), Function generator, Fast tuning, Gains calculation, Tuning current, Resonance estimator, and Inertia estimator. The 'Loops settings' tab is divided into three main sections: Position loop, Velocity loop, and Current loop. The Position loop section includes settings for KPp (60), KVff (1.000), and a 'Close position loop' checkbox. It also has a 'Position stand still' slider and 'Stability' (34) and 'Stiffness' (63) indicators. The Velocity loop section includes KVp (100), KVi (37), KAff (1.000), KVd (24), and KVd filter frequency (15000). It also has a 'Velocity stand still' slider and 'Stability' (63) and 'Stiffness' (63) indicators. The Current loop section includes KCp_Q (2771), KO_Q (8190), KCp_D (2771), and KO_D (8190). It also has a 'C filter' section with 'Type' (Low pass 1st order) and 'Frequency' (500 Hz). The interface also includes a 'Recalculate all loops' button and an 'End actual tuning command' button. At the bottom, there are buttons for 'Save all parameters', 'Show errors', 'Help', and 'Close'.

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Knowledgebase

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