SIMATIC Technology – Motion Control
Starter Guide: Single axes
SIMATIC Technology – Motion Control

General Information

- www.siemens.com/simatic-technology (Link)
- www.siemens.com/onlinesupport/simatic-technology (Link)
- TIA Portal Tutorial Center (Link)
- SIMATIC Technology (Link)
- Automation - SIMATIC Technology (Link)
- Automation Tasks in 10 minutes or less (Link)
- Industry: Automation – TIA Portal – Mister Automation (Link)
- SIMATIC Technology Referenzen (Link)
SIMATIC Technology – Motion Control
Option 1/2: SIMATIC & SINAMICS Starter-Kits

**SIMATIC Starter-Kits**
- SIMATIC S7-1500 Compact-CPU
  - Art.-Nr.: 6ES7511-1CK02-4YB5
- SIMATIC S7-1500 Technology-CPU
  - Art.-Nr.: 6ES7511-1TK01-4YB5

**SINAMICS Starter-Kits**
- SINAMICS V90-PN
  - Art.-Nr.: 6SL3200-0AE40-0AA0
- SINAMICS S210
  - Art.-Nr.: 6SL3200-0AE61-0AA0

www.siemens.com/industrymall
SIMATIC Technology – Motion Control
Option 2/2: SIMATIC Starter-Kits & SINAMICS Demo-Kits

**SIMATIC Starter-Kits**
- SIMATIC S7-1500 Compact-CPU
  - Art.-Nr.: 6ES7511-1CK02-4YB5
- SIMATIC S7-1500 Technology-CPU
  - Art.-Nr.: 6ES7511-1TK01-4YB5

**SINAMICS Demo-Kits**
- SINAMICS V90-PN ¹)
  - Art.-Nr.: 6AG1067-1AA32-0AA0
- SINAMICS S210 ¹)
  - Art.-Nr.: 6AG1067-1AA33-0AA0
- SINAMICS S120
  - Art.-Nr.: 6ZB2480-0CN00

¹) Prepared for SIMATIC S7-1500(T). SIMATIC Controller not part of delivery.
SIMATIC Technology – Motion Control
Single axes with SIMATIC S7-1500/1500 T-CPU (1/2)

Manual

- SIMATIC S7-1500 S7-1500 Motion Control V4.0 in TIA Portal V15 (Entry-ID: 109749262)
- SIMATIC S7-1500 S7-1500T Motion Control V4.0 in TIA Portal V15 (Entry-ID: 109749263)
- SIMATIC/SINAMICS Getting started with SINAMICS V90 PN on S7-1500 Motion Control (Entry-ID: 109739497)

FAQ

- How Can You Integrate a Drive into the TIA Portal via the Device Master File (GSD)? (Entry-ID: 73257075)
- Which SINAMICS drives can you use with Motion Control and a SIMATIC S7-1500(T) controller? (Entry-ID: 109750431)
- How to you operate the SINAMICS S120 drive via a Technology object (TO) on a SIMATIC S7-1500? (Entry-ID: 109482718)
- How should you configure the encoder settings in the TO (Technology Object) for the SINAMICS V90 PN? (Entry-ID: 109747183)
- How can you realize the encoder configuration for the “positioning axis” technology object? (Entry-ID: 109486133)
SIMATIC Technology – Motion Control
Single axes with SIMATIC S7-1500/1500 T-CPU (2/2)

- Technology Objects of the SIMATIC S7-1500(T) (Entry-ID: 109743134)
- SIMATIC S7-1500 / S7-1500T: Standard application axis control (Entry-ID: 109749348)
- Configuring Technology Objects with SIMATIC S7 1500 and SINAMICS S210 in TIA-Portal (Entry-ID: 109749795)
- Position Control of SINAMICS V90 with SIMATIC S7-1500 via IRT PROFINET (Entry-ID: 109739053)
- SINAMICS G: Speed Control of a G110M / G120 (Startdrive) with S7-1500 (TO) via PROFINET or PROFIBUS with Safety Integrated (via Terminal) and HMI (Entry-ID: 78788716)
- SINAMICS Positioning a G110M/G120 (Startdrive) with S7-1500 (TO) via PROFINET/PROFIBUS with Safety Integrated and HMI (Entry-ID: 81666970)
- SINAMICS G: Guide for Commissioning a Position-Controlled Drive (Entry-ID: 109479977)

Application example

YouTube
SIEMENS Channel

- SIMATIC Technology - Motion Control with SIMATIC S7-1500 (Link)
- SIMATIC S7-1500: AT 7 - Integrated Drives and Motion (Link)
- SIMATIC S7-1500: AT 8 - Integrated Positioning (Link)