SIMATIC Technology – Motion Control
Starter Guide: Single axes
SIMATIC Technology – Motion Control
Option 1/2: SIMATIC & SINAMICS Starter-Kits

**SIMATIC Starter-Kits**
- SIMATIC S7-1500 Compact-CPU
  - Art.-Nr.: 6ES7511-1CK03-4YB5
- SIMATIC S7-1500 Technology-CPU
  - Art.-Nr.: 6ES7511-1TK02-4YB5

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

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SIMATIC Technology – Motion Control
Option 2/2: SIMATIC Starter-Kits & SINAMICS Demo-Kits

**SIMATIC Starter-Kits**

- SIMATIC S7-1500 Compact-CPU
  - Art.-Nr.: 6ES7511-1CK03-4YB5

- SIMATIC S7-1500 Technology-CPU
  - Art.-Nr.: 6ES7511-1TK02-4YB5

**SINAMICS Demo-Kits**

- SINAMICS V90-PN ¹)
  - Art.-Nr.: 6AG1067-1AA32-0AA0

- SINAMICS S210 ¹)
  - Art.-Nr.: 6AG1067-1AA33-0AA0

- SINAMICS S120 ¹)
  - Art.-Nr.: 6ZB2480-0CT00

¹) Prepared for SIMATIC S7-1500(T). SIMATIC Controller not part of delivery.

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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)

Application example

• 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)

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)