



SIEMENS

Ingegno per la vita

SINAMICS Startdrive V17: rilascio alla vendita e alla fornitura

01.06.2021

SINAMICS Startdrive Basic / Advanced è il tool per la configurazione, messa in servizio e diagnostica della famiglia dei drive SINAMICS. Startdrive è integrato nel TIA Portal con il vantaggio di avere a disposizione un unico ambiente di lavoro per PLC, HMI e drive.

Inizio previsto della consegna

Startdrive V17 verrà rilasciato per la consegna in due fasi. Un rilascio iniziale per il download (dal 28 maggio) e un rilascio successivo (dopo circa 2 settimane) per le consegne dei supporti informatici (DVD). La fornitura del Software Update Service (SUS) è disponibile già dalla prima fase.

La licenza acquistata per la V17 è valida anche per tutte le versioni precedenti di Startdrive.

Informazioni su gli altri pacchetti software del TIA Portal V17 sono disponibili qui: [109784438](#)

SINAMICS Startdrive Basic V17 Highlight:

UMAC

- diritti di accesso più specifici per la modifica dei parametri dell'azionamento incluso il DCC

SINAMICS S210

- Supporto del firmware SINAMICS V5.2 SP3

SINAMICS S120

- Supporto della CU320-2 DP (V4.8 e superiore) per gli S120 Booksize e Chassis

CU320-2 PN/DP e CU310-2 PN

- Supporto del firmware SINAMICS V5.2 SP3
- Lista parametri definita da utente
- Cambio dei Data set (drive, motore, encoder e command data)
- Ottimizzazione azionamento (diagramma di Bode)
- Novità per la CU320-2 integrata nel SIMATIC Drive Controller
 - EPOS (posizionatore semplice)
 - DCC (Drive Control Chart)

SINAMICS Startdrive V17: rilascio alla vendita e alla fornitura

01.06.2021

- Miglioramento dell'interazione tra drive e Oggetti Tecnologici
 - Trasferimento dei parametri di ottimizzazione dal One-Button-Tuning (OBT) dell'azionamento all'Oggetto Tecnologico
 - Visualizzazione dello stato "drive ottimizzato" nell'Oggetto Tecnologico
- Supporto delle nuove funzionalità SINAMICS Technology Extension (TEC), vedi [109771648](#)

SINAMICS G120

- Supporto del drive G115D
- Connessione diretta della rete AS-i per G110M/G115D AS-i con ET200SP AS-i Master.

SINAMICS MV family

- Supporto del firmware SINAMICS V5.2 SP2

Oggetto Tecnologico "BasicPosControl"

- Sono state aggiunte le unità fisiche nell'inserimento della meccanica

Openness per i drive

- Supporto del drive G115D
- Altre informazioni su Startdrive Openness possono essere trovate qui [109763491](#)

SINAMICS Startdrive Advanced V17 Highlight

Safety acceptance test

- Safety Activation Test. Qui trovate un esempio applicativo [109798318](#)
- Supporto del drive G115D

CU320-2 PN/DP e CU310-2 PN

- Ottimizzazione nell'azionamento: funzioni di misura estese (disponibili dal V5.2 SP3)

Dati di ordinazione:

Prodotto	Codice per il download	Codice per la consegna del supporto informatico
Startdrive Basic V17	6SL3072-4HA02-0XG0 *	6SL3072-4HA02-0XA0
Startdrive Advanced V17	6SL3072-4HA02-0XG5	6SL3072-4HA02-0XA5
Startdrive Advanced V17 Upgrade Upgrade V15..V16 -> V17	6SL3072-4HA02-0XK5	6SL3072-4HA02-0XE5
Startdrive Advanced Software Update Service (SUS)	6SL3072-4AA02-0XY8	6SL3072-4AA02-0XL8

* **Software download: SINAMICS Startdrive Basic V17 può essere scaricato gratis qui [109794362](#).**

SINAMICS Startdrive V17: rilascio alla vendita e alla fornitura

01.06.2021

Requisiti di sistema

Hardware/software	Requisiti raccomandati
Computer	SIMATIC Field PG M5 Advanced (o un PC comparabile)
CPU	Intel® Core™ i5-8400H (2.5 a 4.2 GHz; 4 cores + Hyper-Threading; 8 MB Smart Cache)
RAM	16 GB o superiore (32 GB per grandi progetti)
Hard disk	SSD con almeno 50 GB di memoria disponibile
Monitor	15.6" Full HD display (1920 x 1080 o superiore)
Sistema operativo	Windows 10 (64-bit) <ul style="list-style-type: none">• Windows 10 Professional Version 1909, 2004, 2009/20H2• Windows 10 Enterprise 1909, 2004, 2009/20H2• Windows 10 IoT Enterprise 2016 LTSC• Windows 10 IoT Enterprise 2019 LTSC Windows Server (64-bit) <ul style="list-style-type: none">• Windows Server 2016 Standard (installazione completa)• Windows Server 2019 Standard (installazione completa)

Compatibilità:

Startdrive V17

- Lavora con STEP 7 V17 e WinCC V17 in un singolo ambiente
- Può essere installato su un computer assieme ad un'altra versione di Startdrive dalla V12 alla V16
- Può essere installato su un computer assieme a SINAMICS MICROMASTER STARTER

A partire dalla versione TIA Portal V13 SP1, i progetti possono essere aggiornati direttamente alla V17. Con la versione V13 SP1 o V13 SP2 si consiglia l'ultimo aggiornamento.

Nota importante

Le versioni del progetto TIA Portal V13 SP1 ... V16 vengono aggiornate alla versione del progetto V17 tramite il TIA Portal V17. Se si desidera lavorare o modificare un progetto TIA Portal versione V13 SP1 ... V16, si consiglia un'installazione in parallelo del TIA Portal V17.

Piattaforme di visualizzazione supportate

- VMware vSphere Hypervisor (ESXi) 6.7
- VMware Workstation 15.5.0
- VMware Player 15.5.0

SINAMICS Startdrive V17: rilascio alla vendita e alla fornitura

01.06.2021

- Microsoft Hyper-V Server 2019

I seguenti programmi di sicurezza sono compatibili con Startdrive V17:

- Virus scanner
 - Symantec Endpoint Protection 14.2
 - Trend Micro Office Scan 12.0
 - McAfee Endpoint Security (ENS) 10.6
 - Kaspersky Endpoint Security 11.3
 - Windows Defender
 - Qihoo 360 "Safe Guard 12.1" + "Virus Scanner"
- Encryption software
 - Microsoft BitLocker
- Host-based intrusion detection system:
 - McAfee Application Control 8.2

Lingue supportate

- Installazione standard: Inglese, Tedesco, Cinese (semplificato)
- Pacchetto lingue: Francese, Italiano, Spagnolo

Vincoli secondo l'elenco [55416849](#)

Ulteriori informazioni sul prodotto sono disponibili nella pagina di web marketing per SINAMICS Startdrive: www.siemens.com/startdrive





SINAMICS in TIA Portal Startdrive V17

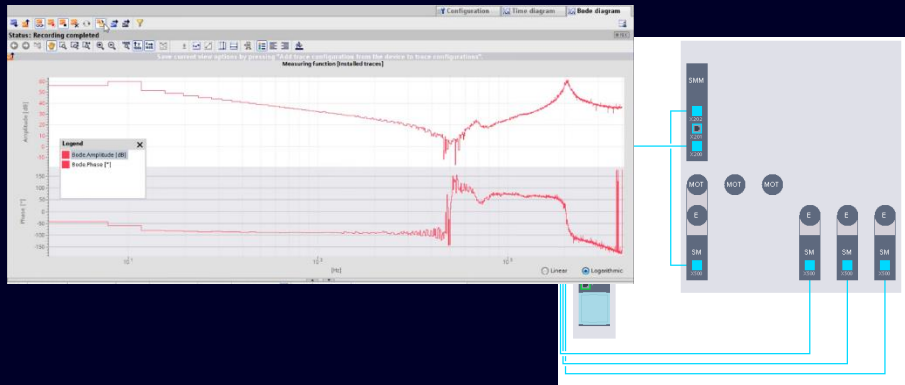
| Highlights

SINAMICS Startdrive & DCC V17 Highlights

One step further in efficient drive engineering

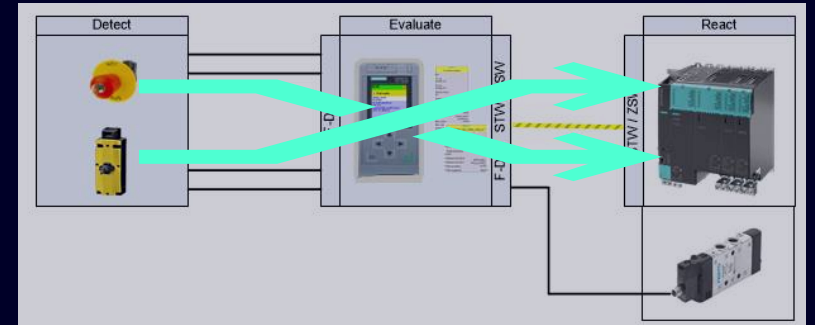
SINAMICS S120 Extensions

- Data Set handling
- Bode diagram / measuring functions



Safety Activation Test

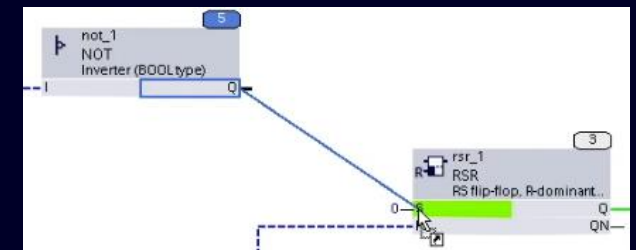
- Part of Safety Acceptance Test
- Test control chain and expected Safety reactions



Engineering rights	Runtime rights	User-specific runtime rights
Engineering rights		
Name	Group	Comment
<input checked="" type="checkbox"/> Maintenance	HMI	
<input checked="" type="checkbox"/> Edit drive software configuration	Drives	
<input checked="" type="checkbox"/> Download drive	Drives	
<input checked="" type="checkbox"/> View security device configuration	Security	
<input checked="" type="checkbox"/> Edit security device configuration	Security	
<input checked="" type="checkbox"/> Import project texts	General	

UMAC

- New function right for drive parameterization in TIA project



SINAMICS DCC

- Online Engineering
- Know How protection

General feature extensions

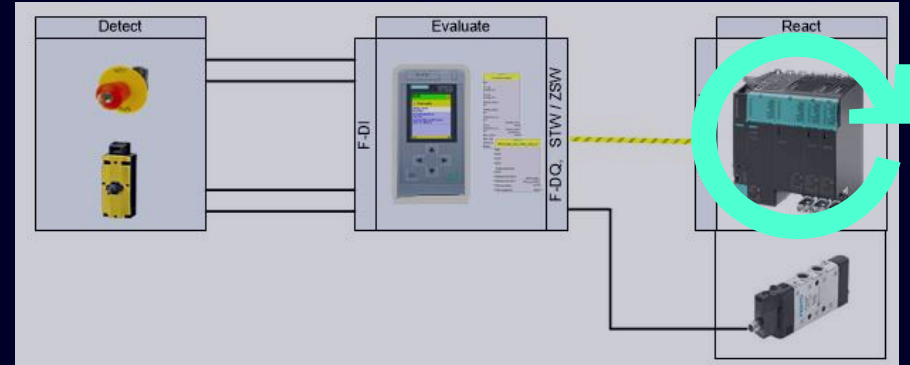
New Safety Activation Test

Difference between Acceptance Test and Activation Test

Safety Acceptance Test (existing since V15)

Validation of correct **safety parameterization for the integrated drive safety functions**. Clearance about questions such as:

- Are the braking ramps set correctly?
- Are the limitations and fault reactions set correctly?
- ...

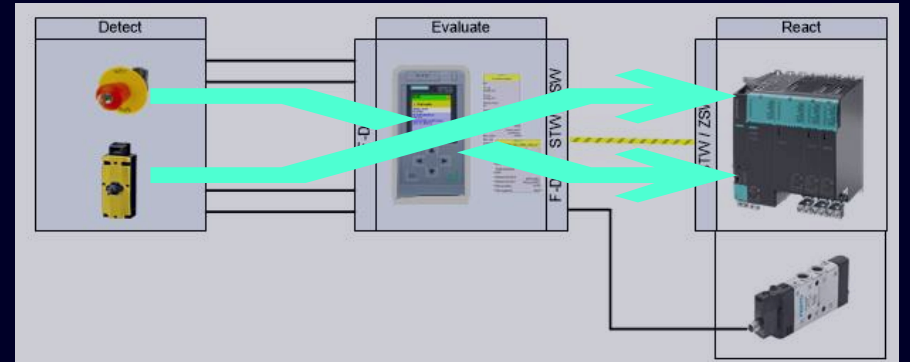


Safety Activation Test (NEW in V17)

Validation of the **safety control chain from sensor to actuator**.

Clearance about questions such as:

- Does every drive select the correct safety function when a safety sensor is activated?
- Are all safety functions realized according to the risk minimization?
- Are there wiring errors for the safety sensors?
- ...



New Safety Activation Test Workflow & required license

Workflow

1. Define all safety functions via the wizard: operation mode, input conditions, expected reaction (this step can be done by the project engineer already in advance to the commissioning phase)
2. After machine commissioning execute the tests and go through all defined safety functions using the guided step by step assistant
3. Automatic creation of the test protocol with all necessary information



Safety **validation** is an important step on the way to the required **CE-marking** of the machine!

Step	Test description	Status		
19	Test description	Status		
20	Initial condition	OK		
21	The machine is in operation mode 'Automatic'. Action to test is executed	OK		
22	Check status	OK		
23	The test conditions are fulfilled	OK		
24	Execute test	OK		
25	The test is complete	OK		
26				
27	Test conditions and expectations			
28	Bedienerart	DBS Betriebsart	True	OK
29	Hydraulik			
30	Eingangsbedingungen	Not-Halt Handbediengerät	True	OK
31	Erwartungsbildung	DBS	True	OK
32	Clear bits	DBS-1	True	OK
33	Test status	True	OK	
34				
35	SF 2 - Not-Halt Handbediengerät			
36				
37				
38				
39	Step	Test description	Status	
40	Initial condition			
41	The machine is in operation mode 'Automatic'. Action to test is executed			
42	Check status			
43	The test conditions are fulfilled			
44	Execute test			
45	The test is complete			
46				



Safety Activation Test is part of the Safety Acceptance Test and thus also part of the SINAMICS Startdrive Advanced license.

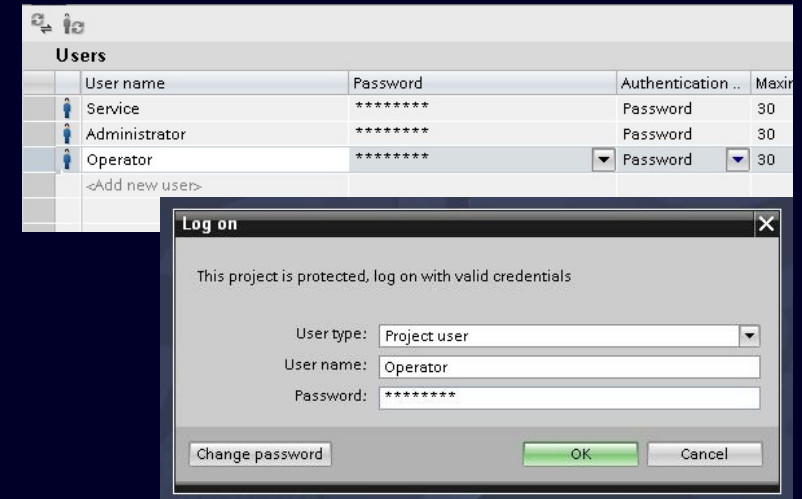
UMAC in TIA Portal

User Management and Access Control

What is UMAC?

Handling of **users** and their assigned **rights** for a TIA Portal project. Possibility to have Admin users or users with limited reading / editing rights. There is a wide range of predefined roles and the possibility of creating new roles with specific rights

→ Principle of least privilege



What's new for Startdrive V17?

New function rights for **drive parameterization** and **drive download** (separated from PLC / HMI handling).

→ Possibility of defining users which are allowed to edit drive parameterization but not the PLC program or vice versa

Engineering rights		Runtime rights	User-specific runtime rights
Engineering rights			
	Name	Group	Comment
<input checked="" type="checkbox"/>	Maintenance	HMI	
<input checked="" type="checkbox"/>	Edit drive software configuration	Drives	
<input checked="" type="checkbox"/>	Download drive	Drives	
<input checked="" type="checkbox"/>	View security device configuration	Security	
<input checked="" type="checkbox"/>	Edit security device configuration	Security	
<input checked="" type="checkbox"/>	Import project texts	General	

New SIMATIC control for EPOS

BasicPosControl (S7-1200 / S7-1500; SINAMICS G + S)

- ! Name TO_BasicPos (V1.0 in TIA V16) changed to **BasicPosControl** (V2.0 in TIA V17).
- + Comfortable PLC control of drives with EPOS functionality via telegram 111.
- + Simple communication connection between PLC and drive, setup and diagnosis.
- + New **mechanics setup** for BasicPosControl → user can now work with **physical units** within the PLC program. Selection between linear and rotary axis with several units for position and velocity.
- + **Automatic** conversion from physical units (PLC program) to LU (drive data) by the function block.

The screenshot shows the 'Add new object' dialog box in SIMATIC Manager. The 'Name' field contains 'BasicPosControl_2'. The 'Type' is set to 'BasicPosControl'. The 'Number' is set to '2'. The 'Description' field contains the text: 'The "BasicPosControl" function block supports the cyclic communication of the drive function additional of the phys...'. The 'SINAMICS Technology' icon is highlighted with a blue box. The 'BasicPosControl' function block is selected in the list, with its version 'V2.0' also highlighted. The 'Additional information' section is expanded, showing the 'BasicPosControl' block with its I/O connections. The 'EN' input is connected to '0', and the 'ENO' output is connected to '0'. The 'ConfigEPos' input is connected to '16#0000_0003'.

Input	Value	Output	Value
EN	0	ENO	0
ModePos	0	AxisEnabled	0
EnableAxis	0	AxisPosOk	0
CancelTraversin	1	AxisSpFixed	0
g	1	AxisRef	0
IntermediateSt	1	AxisWarn	0
op	0	AxisError	0
Positive	0	Lockout	0
Negative	0	ActVelocity	0.0
Jog1	0	ActPosition	0.0
Jog2	0	ActMode	0
FlyRef	0	EPosZSW1	0
AckError	0	EPosZSW2	0
ExecuteMode	0.0	ActWarn	0
Position	0.0	ActFault	0
Velocity	100	Error	0
OverV	100	Status	0
OverAcc	100	DiagId	0
OverDec	16#0000_0003		
ConfigEPos			

New SIMATIC control for EPOS

BasicPosControl configuration

Basic parameter

Linear/rotary + unit selection

Basic parameter

Name: BasicPosControl_1

PLC: User program, Technology object BasicPos

Drive: Basic positioner (EPOS), Motor

Axis type: Linear, Rotary

Measuring unit: Measuring unit for position: mm, Measuring unit for velocity: mm/s

Unit selection dropdown: km, m, mm, µm, nm, in, ft, mi, LU, rad, LU

Mechanics

Automatic conversion of physical units to LU

Automatic data exchange for drive values (offline)

Drive parameters: Drive data set: 0, Reference speed p2000: 1500.0 rpm

Load gear: Number of motor revolutions p2504[0]: 1, Number of load revolutions p2505[0]: 1

Position parameters: Length units per load revolution p2506[0]: 10000 LU/rot, Leadscrew pitch: 10.0 mm/rot

Scaling parameters: Resolution: 1 mm ≈ 1000.0 LU, Velocity: 1 mm/s ≈ 60.0 1000LU/min

Technology Object and Drive Object

Improved interaction for optimization

One Button Tuning for servo drives...

...directly **sets** in the drive:

- K_p , T_n for speed controller
- Moment of inertia
- Current setpoint filters
- ...

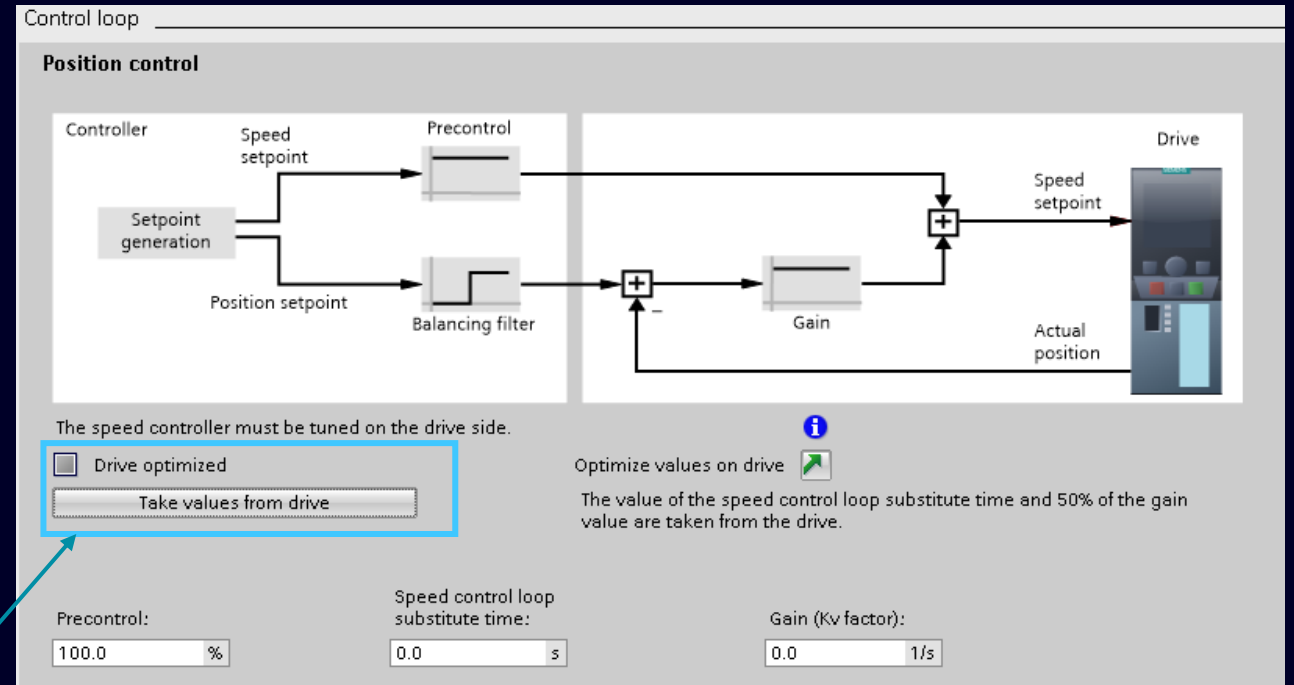
...additionally **calculates**:

- Position controller gain K_v (r5276)
- Precontrol symmetrizing time (r5277)



NEW in V17

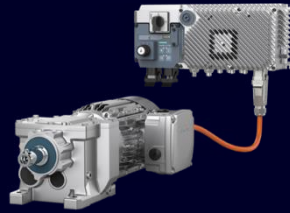
Calculated values for position control can be directly accepted for TO settings in the PLC.
(From TO version V6.0)



SINAMICS G115D in Startdrive

Adding the drive and defining the type

Already since
V16 Upd 4



2a Specify wall mount version

General IO tags System constants Texts

Module selection

Select mounting type: Wall mount Motor mount

Selection	System article number	E.M. article number	Power Module type	Rated power	Supply voltage
<input type="radio"/>	6SL352xx0-3AFx	6SL3500-0XE50-3FAx	IP65/66, 0.37 kW, FA	0.37 kW	380 – 480 V
<input type="radio"/>	6SL352xx0-5AFx	6SL3500-0XE50-5FAx	IP65/66, 0.55 kW, FA	0.55 kW	380 – 480 V
<input type="radio"/>	6SL352xx0-7AFx	6SL3500-0XE50-7FAx	IP65/66, 0.75 kW, FA	0.75 kW	380 – 480 V
<input type="radio"/>	6SL352xx0-1-1AFx	6SL3500-0XE51-1FAx	IP65/66, 1.1 kW, FA	1.1 kW	380 – 480 V
<input type="radio"/>	6SL352xx0-1-5AFx	6SL3500-0XE51-5FAx	IP65/66, 1.5 kW, FA	1.5 kW	380 – 480 V
<input type="radio"/>	6SL352xx0-2-2AFx	6SL3500-0XE52-2FAx	IP65/66, 2.2 kW, FA	2.2 kW	380 – 480 V
<input type="radio"/>	6SL352xx0-3-0AFx	6SL3500-0XE53-0FAx	IP65/66, 3.0 kW, FA	3 kW	380 – 480 V
<input type="radio"/>	6SL352xx0-4-0AFx	6SL3500-0XE54-0FAx	IP65/66, 4.0 kW, FA	4 kW	380 – 480 V
<input type="radio"/>	6SL352xx0-5-5AFx	6SL3500-0XE55-5FAx	IP65/66, 5.5 kW, FA	5.5 kW	380 – 480 V
<input type="radio"/>	6SL352xx0-7-5AFx	6SL3500-0XE57-5FAx	IP65/66, 7.5 kW, FA	7.5 kW	380 – 480 V

1 Add G115D drive to TIA Portal project

Add new device

Device name: Drive_3

Controllers

HMI

Drives & starters

- SINAMICS drives
 - SINAMICS G110M
 - SINAMICS G120
 - SINAMICS G120C
 - SINAMICS G115D
 - G115D AS-i
 - G115D I/O
 - G115D PN**
 - SINAMICS G120D
 - SINAMICS G120P

Device: G115D PN

Article no.: xxxxxxxxxxxx

Version: 4.7.19

2b Specify motor mount version

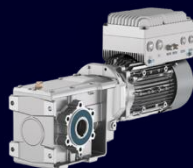
General IO tags System constants Texts

Module selection

Select mounting type: Wall mount Motor mount

Enter order number: 2KJ8 003 - 2EG 1 0 - 4 F B1 - D O X

Go to commissioning:



SINAMICS G115D in Startdrive Commissioning wizard

3 Go through commissioning
wizard as known from SINAMICS
G drives



Note: Everything defined by MLFB
already preset! (motor data, holding
brake, temperature sensor, ...)

The screenshot shows the 'Commissioning Wizard' window. On the left is a navigation pane with the following items: 'Open-loop/closed-loop ...', 'Defaults of the setpoi...', 'Drive setting', 'Drive options', 'Motor', 'Motor holding brake', 'Important parameters', 'Drive functions', 'Encoders', and 'Summary'. The 'Defaults of the setpoi...' item is selected. The main area is titled 'Defaults of the setpoints/command sources' and contains the following text: 'Selection of a predefined interconnection of the inputs/outputs and, if required, the fieldbus telegram. Can be changed later user-specifically.' Below this is a dropdown menu for 'Select the default of the I/O configuration:' with the value '[67] Distributed conveyor technology with fieldbus (2) (33)'. A list of digital inputs (DI) is shown with their corresponding bit addresses and descriptions: DI 0: p1055[1] BI: Jog bit 0; DI 1: p1056[1] BI: Jog bit 1; DI 2: p2084[0] BI: Binector-connector converter status word 5, Bit 0; DI 24: p2084[4] BI: Binector-connector converter status word 5, Bit 4; DI 25: p2084[5] BI: Binector-connector converter status word 5, Bit 5. Below the list is a 'Telegram configuration:' dropdown menu with the value '[999] Free telegram configuration with BICO'. At the bottom, there is an information icon with the text 'Free interconnection and length Standard telegram 1 is selected with extensions.', an 'Online help' link, and navigation buttons: '<< Back', 'Next >>', 'Finish', and 'Cancel'.

SINAMICS G115D in Startdrive

New conveyor technology wizards (optional)

4 Find additional graphical wizards for onboard conveyor technology functions

Easy setup of conveyor functions such as:

- Conveyor
- Turntable
- Corner turntable lift
- Trolley

The screenshot displays the 'Conveyor technology' configuration wizard in the SINAMICS G115D Startdrive software. The interface is divided into several sections:

- Left-hand navigation menu:** Contains a tree view with categories like 'Basic settings', 'Inputs/outputs', 'Application functions', and 'Conveyor technology' (which is currently selected).
- Main configuration area:**
 - Selection of application:** A dropdown menu is set to 'Turntable'. There is a checkbox for 'Show graph view'.
 - High/low speed switching:** A checkbox is present, and radio buttons are selected for '3 positions'.
 - Effective setpoint:** A text input field shows '0.000 rpm'.
 - Actual speed:** A text input field shows '0.0 rpm' and an 'Application status' button.
 - Diagram:** A central circular diagram shows a turntable with three horizontal conveyor belts. Labels 'a', 'c', and 'e' are placed around the diagram to correspond with the sensor settings on the right.
- Right-hand sensor configuration panel:**
 - Main setpoint:** A dropdown menu shows 'r2050[1] CO: PROFIdrive P2D rec'.
 - Stop sensor +:** A slider control with a value of '0' and a label 'a'.
 - Stop sensor -:** A slider control with a value of '0' and a label 'c'.
 - Stop sensor center:** A slider control with a value of '0' and a label 'e'.
 - Stop sensor trigger type:** A dropdown menu set to '[2] Input signal 0 level'.
 - Stop sensor override:** A dropdown menu set to 'r2094.2 CO/BO: Connector-bi'.
 - End position:** A dropdown menu set to '[1] Yes'.

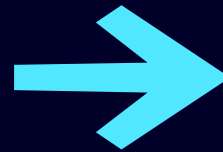
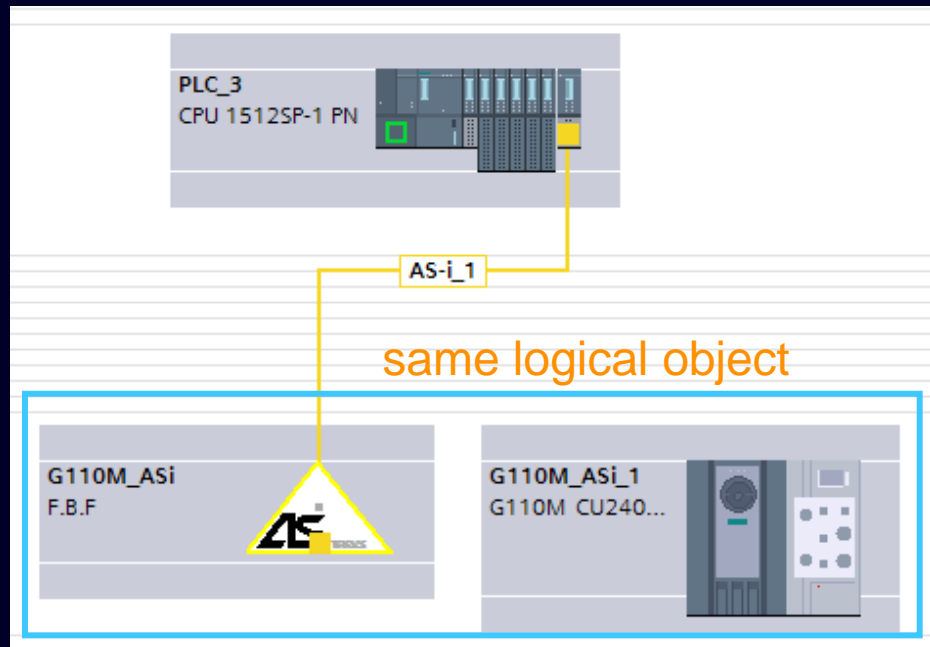
New features for AS-i drives

Device integration

AS-i integration with Startdrive <=V16

Two devices in the network for one drive needed:

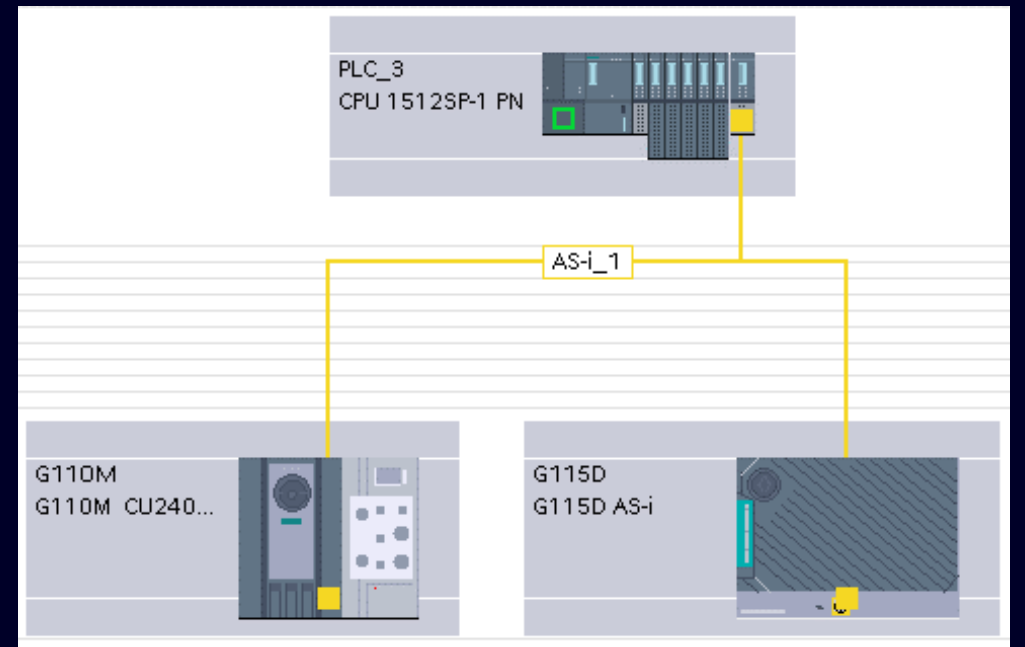
- Universal AS-i Slave for communication settings
- Startdrive object for drive settings



AS-i integration with Startdrive V17

One object for communication and drive settings

- ! Valid only for connection to ET200 CPU
- AS-i master





SINAMICS S120 extensions

New hardware for SINAMICS S120 CU320-2 DP (PROFIBUS version)

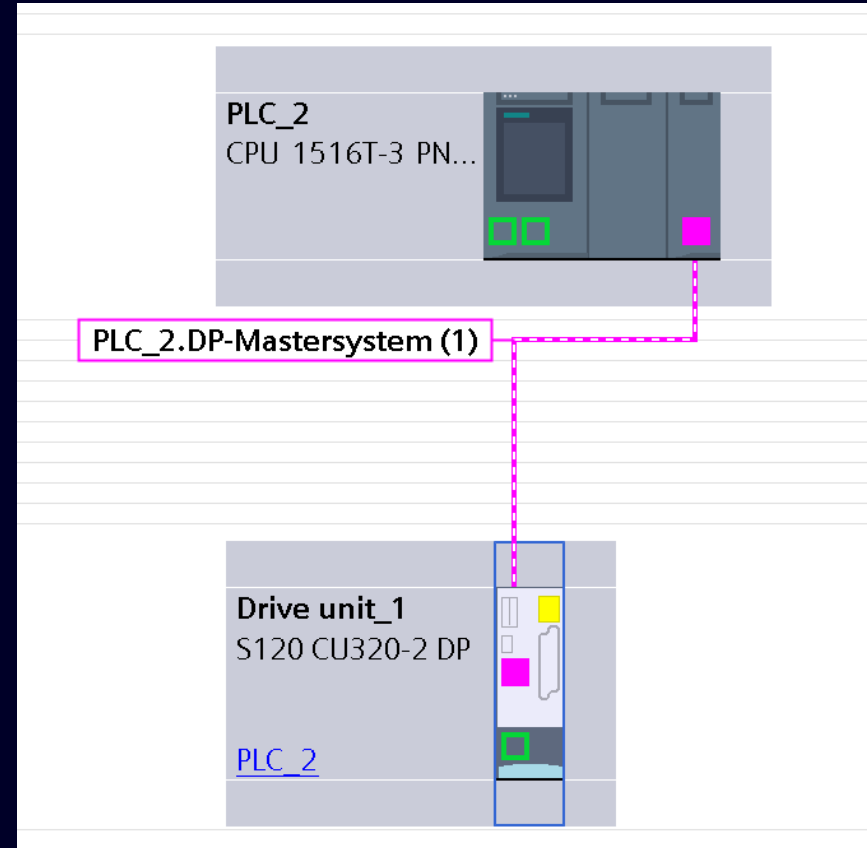
NEW in V17

SINAMICS S120 drives can now also be handled with the **PROFIBUS** version CU320-2 DP.

Not included:

- SINAMICS S150
- SINAMICS G130/G150
- SINAMICS MV

→ Only available in PROFINET version



New features for SINAMICS S120

Data Set handling

+ Drive Data Sets

+ Motor Data Sets

+ Encoder Data Sets

+ Command Data Sets

Drive data sets DDS

Drive data set configuration

Add Delete

Drive data set	Motor data set	Motor encoder	External encoder 1	External encoder 2
DDS0	MDS0: Motor_1	EDS0: Measuring system...	EDS1: Measuring s...	EDS2: Measuring s...
DDS1	MDS0: Motor_1	EDS1: Measuring sys...	EDS3: Measuri...	EDS2: Measuri...

Drive data set selection

The bits define the number of the selected data set. The values can be set directly or interconnected with a BiCo source.

Bit 0: 0 2^0

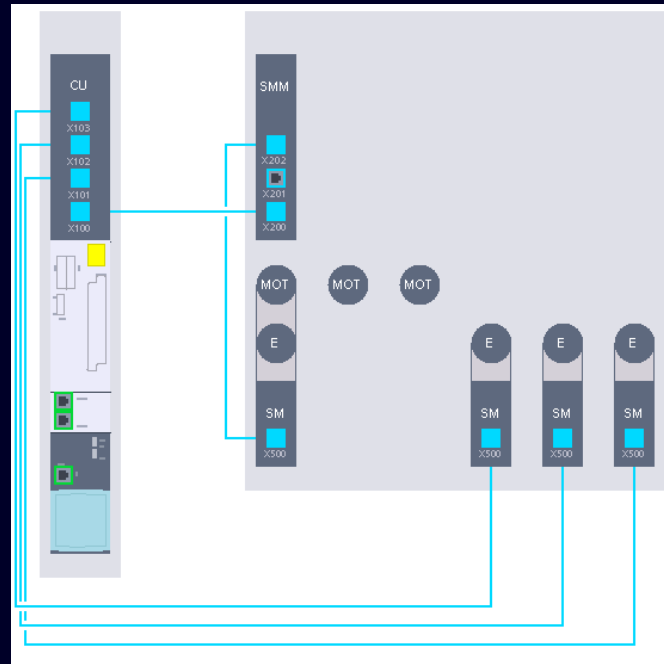
Bit 1: 0 2^1

Bit 2: 0 2^2

Bit 3: 0 2^3

Bit 4: 0 2^4

Σ 0 Selected DDS



Command data sets CDS

Command data set configuration

Add Delete

Command data set
CDS0
CDS1

Command data set selection

The bits define the number of the selected data set. The values can be set directly or interconnected with a BiCo source.

Bit 0: 0 2^0 Selected CDS

p307[0]	Rated motor power	0.31	kw	MDS
p410[0]	Encoder inversion actual value	0H		EDS
p1155[0]	Speed controller speed setpoint 1	0%		CDS
p1192[0]	DSC encoder selection	[1] Encoder 1 (motor encoder)		DDS

New features for SINAMICS S120

Measuring functions and bode diagram

Measuring functions for manual drive optimization (NEW in V17)

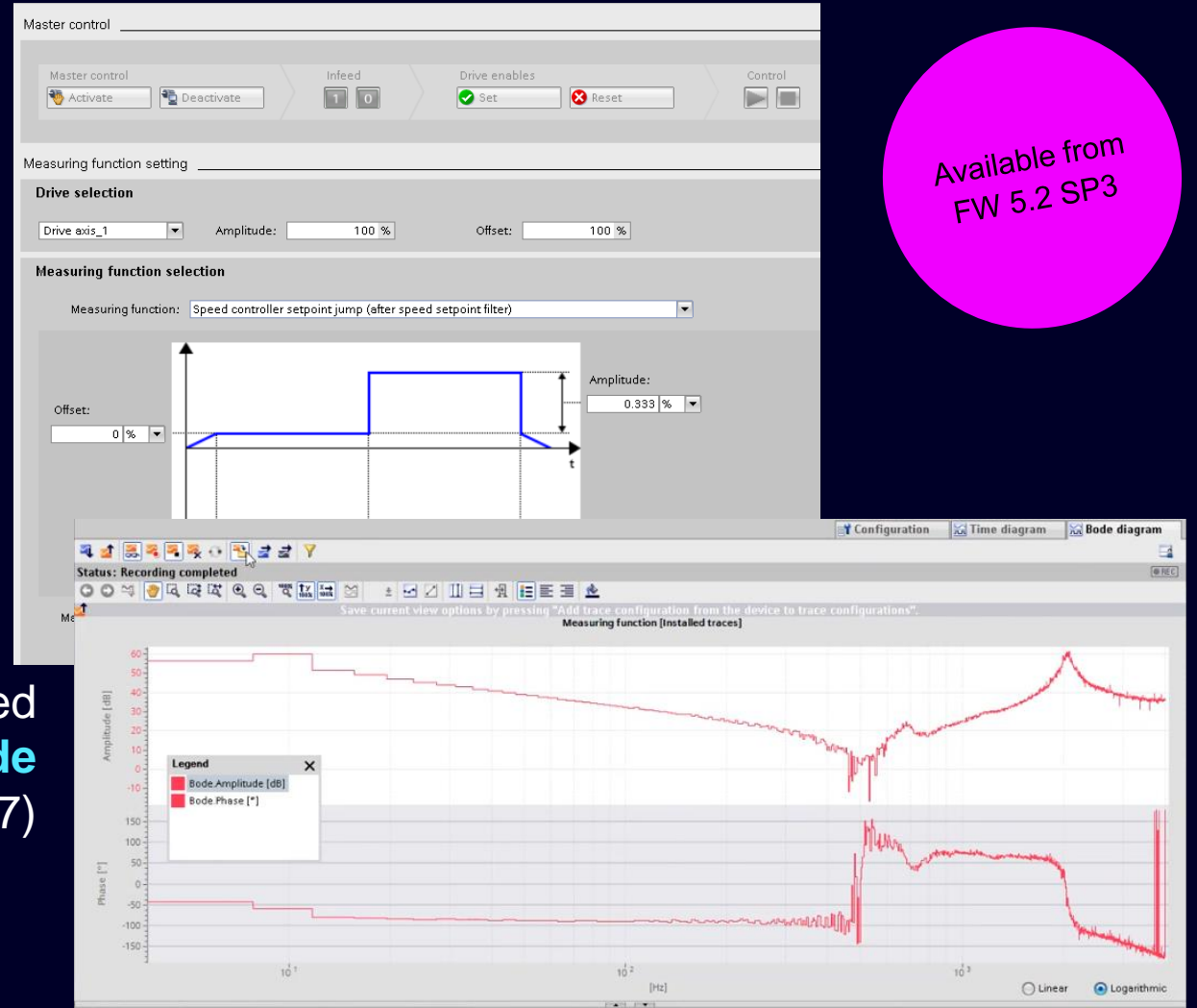
Available preconfigured measurements:

- Speed controller setpoint frequency response (after current setpoint filter)
- Speed-controlled system (excitation after current setpoint filter)
- Speed controller disturbance variable frequency response (fault after current setpoint filter)
- Speed controller setpoint frequency response (before speed setpoint filter)
- Speed controller setpoint jump (after speed setpoint filter)
- Speed controller disturbance variable jump (fault after current setpoint filter)
- Current controller setpoint frequency response (after current setpoint filter)
- Current controller setpoint jump (after current setpoint filter)

Graphical display of measured signals in time diagram and **bode diagram** (NEW in V17)



Measuring functions are part of the SINAMICS Startdrive Advanced license.



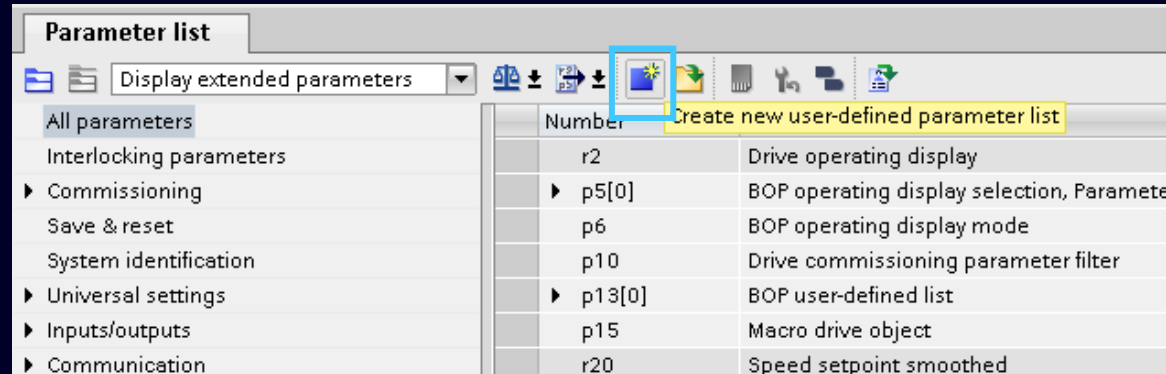
Available from
FW 5.2 SP3

New features for SINAMICS S120

User defined parameter list

Creation of user defined parameter lists now also for S120 devices

Saving parameter lists possible only without parameter values.



The screenshot shows the 'User list_1' window with a table of user-defined parameters. Each row includes a parameter number, text description, a value field with a slider icon, a unit, and a data set name. A blue box highlights the '< add new >' button at the bottom of the table.

Number	Parameter text	Value	Unit	Data set
p840[0]	ON / OFF (OFF1)		0	CDS
p844[0]	No coast-down / coast-down (OFF2) signal source 1		1	CDS
p848[0]	No Quick Stop / Quick Stop (OFF3) signal source 1		1	CDS
p1155[0]	Speed controller speed setpoint 1		0%	CDS
p1121[0]	Ramp-function generator ramp-down time		10.000 s	DDS
< add new >				

SINAMICS Integrated of SIMATIC Drive Controller

Additional features in V17

SIMATIC Drive Controller – SINAMICS Integrated

+ DCC

+ EPOS

The screenshot displays the SIMATIC Manager software interface for configuring a SINAMICS Integrated drive controller. The interface is divided into three main panels:

- Project tree (Left):** Shows the project hierarchy. The 'Charts' folder under 'Winder' is highlighted with a blue box.
- Data flow (Center):** Shows a 'Ramp-function generator' block with various input and output signals.
- Parameterization (Right):** Shows the 'Mechanical system' configuration. The 'Encoder selection for the position control' section is active, showing 'Encoder system' set to '[1] Encoder 1'. Below this, there are input fields for 'Number of motor revolutions' (1), 'Number of load revolutions' (1), and 'LU per load rev' (10,000 LU). A 'Modulo' section shows a 'Modulo correction modulo range' set to 360,000 LU and a 'Modulo correction activation' switch set to 'inactive'. A small graph shows a sine wave.

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