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NEWS

# Telegram 750 for SINAMICS S120 in Startdrive V15

Startdrive V15

https://support.industry.siemens.com/cs/ww/en/view/109762085

Siemens Industry Online Support



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#### Task 1

You use a SINAMICS S120 at a SIMATIC S7-1500(T) and want to use the torque reduction function in a technology object (TO).

You want to use Startdrive V15 to parameterize the SINAMICS S120.

For torque reduction you need the telegram 750.

#### Solution 2

In Startdrive V15 it is not possible to select the telegram 750 for the SINAMICS S120.

You have to emulate telegram 750 via the free telegram (999). The following steps are necessary for this:

tion

## 2 Solution

- 1. Insert an additional free telegram for the axis:
- 2. Select 1 word in sending and 3 words in receiving direction:
  - Figure 2-1 Free Telegram

Drive_1 [S120 CU320-2 PN	1]						🖳 Propertie	s t	Info 🔒 🛚	Diagnostics
General										
<ul> <li>PROFINET interface [X150]</li> </ul>	~									
General		Telegram configuration								
Ethernet addresses										
<ul> <li>Telegram configuration</li> </ul>		Name	Item	Link	Telegram	Length	Extension	Туре	Partner	Partner data area
Antriebsregelung		<ul> <li>Antriebsregelung-Telegrams</li> </ul>	1							
Einspeisung_1-Tel		Send (Actual value)		~	SIEMENS telegram 390	2 words	0 words -	CD	PLC_1	E 264267
<ul> <li>Axis1-Telegrams</li> </ul>		Receive (Setpoint)		~	SIEMENS telegram 390	2 words	0 words +	CD	PLC_1	A 264267
Send (Actual val		<add telegram=""></add>								
Receive (Setpoint)		<ul> <li>Einspeisung_1-Telegrams</li> </ul>	2							
Send Additional		Send (Actual value)		>	SIEMENS telegram 370	1 words	0 words -	CD	PLC_1	E 258259
Receive Additio	= •	Receive (Setpoint)		~	SIEMENS telegram 370	1 words	0 words ←	CD	PLC_1	A 258259
Axis2-Telegrams		<add telegram=""></add>								
<ul> <li>Advanced options</li> </ul>	٠	<ul> <li>Axis1-Telegrams</li> </ul>	3		*					
Interface options		Send (Actual value)		~	SIEMENS telegram 105	10 words	0 words -	CD	PLC_1	E 316335
Media redundancy		Receive (Setpoint)		~	SIEMENS telegram 105	10 words	0 words 🗲	CD	PLC 1	A 316335
Isochronous mode		Send Additional (Actual v		~	Free telegram	1 words	<del>-</del>	CD	PLC_1	E 336337
Real time settings		Receive Additional (Setpoi.		~	Free telegram	3 words	+	CD	PLC_1	A 336341
Port [X150 P1]		<add telegram=""></add>								
Port [X150 P2]		<ul> <li>Axis2-Telegrams</li> </ul>	4							
Module parameters		Send (Actual value)		~	SIEMENS telegram 105	10 words	0 words 🗕	CD	PLC_1	E 500519
Hardware identifier		Receive (Setpoint)		~	SIEMENS telegram 105	10 words	0 words 🗲	CD	PLC_1	A 500519
<ul> <li>Ethernet commissioning</li> </ul>	~	<add telegram=""></add>								

## 3. Parameterize the telegram data in SINAMICS S120 with Startdrive as follows:

### Figure 2-2 Parameter interconnection

p1511[0]	Supplementary torque 1	r2050[10], IF1 PROFIdrive PZD receive word, PZD 11
p1522[0]	Torque limit upper/motoring	r2050[11], IF1 PROFIdrive PZD receive word, PZD 12
p1523[0]	Torque limit lower/regenerative	r2050[12], IF1 PROFIdrive PZD receive word, PZD 13
▼ p2051	IF1 PROFIdrive PZD send word	
p2051[10]	PZD 11	r80, Torque actual value

4. Now you can assign the additional telegram in the configuration of the TO: In the selection list you must activate "Show all modules" to be able to select the telegram.

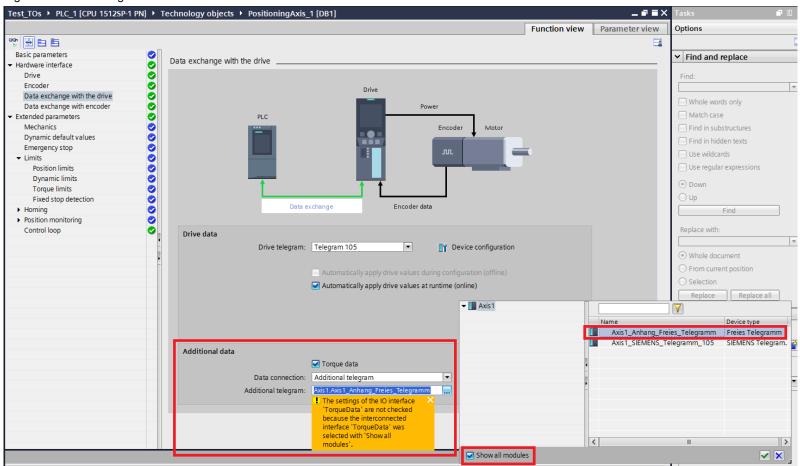


Figure 2-3 TO-Configuration

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