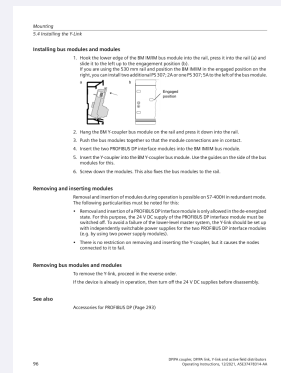


FIELD INSTALLATION QUICK GUIDE

Installation Instructions

Siemens 6ES7654-7HY00-0XA0

SIMATIC S7 bus module for one Y-coupler



PRODUCT	6ES7654-7HY00-0XA0
FAMILY	SIMATIC S7 Y-link
FUNCTION	SIMATIC S7 bus module for one Y-coupler
STATUS	Verify exact configuration

Prepared by Amikon Limited from Siemens A5E37478314-AA, 12/2021; exact-model Industry Mall. This guide does not replace the complete manufacturer manual, site procedure, hazardous-area drawing, or approval document.

01 CONFIRM THE ORDERED CONFIGURATION

Supported coupler	One Y-coupler, 6ES7197-1LB00-0XA0
Included accessory	Bus module cover
Adjacent backplane unit	BM IM/IM for the two PROFIBUS DP interface modules
Mounting support	S7 rail for installation with active bus modules
Module retention	Installed module screws also secure the bus module to the rail
Operating temperature	Horizontal: 0 to 60 deg C; vertical: 0 to 40 deg C
Storage / transport temperature	-40 to +70 deg C in original packaging

02 MOUNTING AND CONNECTION

- Qualified personnel must switch off the 24 V DC supplies before dismantling an operating Y-link.
- Use the specified rail for active bus modules and retain 40 mm free space above and below the assembly.
- Hook BM IM/IM into the rail and slide it to its engagement position; fit the BM Y-coupler alongside it.
- Push the bus modules together until their connections contact; use the side guides to insert the Y-coupler.
- Screw down the installed modules; the screws also fix their bus modules to the rail.

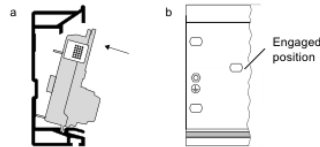
OFFICIAL INSTALLATION REFERENCE

Mounting

5.4 Installing the Y-Link

Installing bus modules and modules

- Hook the lower edge of the BM IM/IM bus module into the rail, press it into the rail (a) and slide it to the left up to the engagement position (b).
If you are using the 530 mm rail and position the BM IM/IM in the engaged position on the right, you can install two additional PS 307; 2A or one PS 307; 5A to the left of the bus module.



- Hang the BM Y-coupler bus module on the rail and press it down into the rail.
- Push the bus modules together so that the module connections are in contact.
- Insert the two PROFIBUS DP interface modules into the BM IM/IM bus module.
- Insert the Y-coupler into the BM Y-coupler bus module. Use the guides on the side of the bus modules for this.
- Screw down the modules. This also fixes the bus modules to the rail.

Removing and inserting modules

Removal and insertion of modules during operation is possible on S7-400H in redundant mode. The following particularities must be noted for this:

- Removal and insertion of a PROFIBUS DP interface module is only allowed in the de-energized state. For this purpose, the 24 V DC supply of the PROFIBUS DP interface module must be switched off. To avoid a failure of the lower-level master system, the Y-link should be set up with independently switchable power supplies for the two PROFIBUS DP interface modules (e.g. by using two power supply modules).
- There is no restriction on removing and inserting the Y-coupler, but it causes the nodes connected to it to fail.

Removing bus modules and modules

To remove the Y-link, proceed in the reverse order.

If the device is already in operation, then turn off the 24 V DC supplies before disassembly.

See also

Accessories for PROFIBUS DP (Page 293)

04

CABLE ROUTING AND CONNECTION

- Use the specified rail for active bus modules and retain 40 mm free space above and below the assembly.
- Hook BM IM/IM into the rail and slide it to its engagement position; fit the BM Y-coupler alongside it.
- Push the bus modules together until their connections contact; use the side guides to insert the Y-coupler.
- Screw down the installed modules; the screws also fix their bus modules to the rail.
- Check both interface-module supplies, the identified DP connections and downstream node communication before service.

05

INITIAL SYSTEM CHECKS

- Confirm model identity and compatible system components before energizing.
- Verify wiring, grounding, enclosure, and applicable hazardous-area requirements.
- Verify the restored Y-link and successful communication with the intended downstream DP slaves.
- Record the installed order number and baseline operating condition.

06

CONTROLLED DOCUMENTS

Official source	Siemens A5E37478314-AA, 12/2021; exact-model Industry Mall
Product record	6ES7654-7HY00-0XA0
Manufacturer	Siemens
Support	INFO@AMIKON.CN