Siemens 6ES7153-1AA03-0XB0

Installation & Commissioning Guide

01 Define the installed-system task

An ET 200M station uses the IM 153-1 as its network head; module order and address allocation remain part of the installed DP configuration.

Technical values apply to the complete 6ES7153-1AA03-0XB0 execution. Retain the actual installed configuration and applicable Siemens instructions.

Product type	IM 153-1 DP ST
System	SIMATIC ET 200M
Module capacity	Up to 8 S7-300 modules
Rated supply	24 V DC
Supply range	20.4-28.8 V DC

Retain the project and identification record

Keep the complete 6ES7153-1AA03-0XB0 marking, installed configuration and approved application records together. Use the applicable Siemens and machine procedures to plan isolation, replacement and release.

02 Review the signal, power or memory path

The interface receives 24 V DC over a permitted 20.4-28.8 V range. Maximum consumption is 350 mA at 24 V, and the backplane supply provides 5 V DC at up to 1 A. The station power budget must include the fitted I/O modules and their separate field supplies.

PROFIBUS DP uses an RS 485 interface with a 9-pin Sub-D socket and automatic baud-rate detection up to 12 Mbit/s. Permitted station addresses are 1-125. SYNC and FREEZE are supported; the direct-data-exchange role is sender.

Current consumption	350 mA maximum at 24 V DC
Backplane output	5 V DC; 1 A maximum
Communication	PROFIBUS DP; RS 485
Transmission rate	Up to 12 Mbit/s; automatic detection
Connector	9-pin Sub-D socket

Check	Compare the installed configuration with the complete offered reference
Record	Retain the supply, interface or memory settings applicable to this item
Accept	Proceed only when the system record and actual hardware agree

03 Preserve configuration during replacement

How many S7-300 modules can 6ES7153-1AA03-0XB0 connect?

The ET 200M station accepts up to eight S7-300 modules. Retain their configured order and address allocation.

Which supply range applies to 6ES7153-1AA03-0XB0?

The nominal supply is 24 V DC, with a permitted range of 20.4-28.8 V DC.

Does 6ES7153-1AA03-0XB0 use Ethernet for its DP connection?

No. The network interface uses PROFIBUS DP over RS 485 with a 9-pin Sub-D socket; TCP/IP is not supported.

How is the baud rate selected on 6ES7153-1AA03-0XB0?

The interface automatically detects the PROFIBUS transmission rate, up to 12 Mbit/s. All devices and cabling must meet the installed segment requirements.

Configuration acceptance

The station accepts up to eight S7-300 modules. Input and output address space is 128 bytes each per module. STEP 7, COM PROFIBUS or a third-party master using the corresponding GSD can configure the station. IP20 protection and orientation-dependent temperature limits apply.

04 Commission and resolve diagnostic differences

What backplane power does 6ES7153-1AA03-0XB0 provide?

The backplane output is 5 V DC at up to 1 A. Check the I/O-module power budget separately from field-load power.

Which station addresses are permitted for 6ES7153-1AA03-0XB0?

The DP station address can be set within 1-125. Preserve the configured address to avoid changing master-to-station mapping.

Can 6ES7153-1AA03-0XB0 participate in SYNC and FREEZE?

Yes. SYNC and FREEZE are supported, and direct slave-to-slave data exchange is supported in the sender role.

How does mounting orientation affect 6ES7153-1AA03-0XB0?

The operating range is 0-60 °C horizontally and 0-40 °C vertically. The enclosure rating is IP20.

Release check

Use the approved machine test to verify the intended function, receiving-system response and diagnostic state. Record the final settings and restore the planned operating configuration before service.

05 Handover and lifecycle planning

6ES7153-1AA03-0XB0: The product is in the manufacturer product-cancellation stage and designated for replacement-part support.

Support and replacement: Confirm current service and replacement guidance with Siemens using the complete marking, hardware revision and installed configuration.

Availability: Apter Power supply availability is confirmed separately from manufacturer lifecycle and support status.

Installed-system handover

Retain the full 6ES7153-1AA03-0XB0 identity, hardware and configuration record, application archive and commissioning results. Confirm the interface module, bus connector, bus modules and field connectors in the quotation.

Explore other Siemens references

Portfolio navigation only; no compatibility or substitution is implied.

Siemens 6ES7592-1BM00-0XA0	View product
Siemens 6ES7522-1BH00-0AB0	View product
Siemens 6ES7136-6DB00-0CA0	View product

Discuss your complete reference

Siemens 6ES7153-1AA03-0XB0
New, original product
sales13@apterpower.com | +86 18030235313

Technical reference

Siemens 6ES7153-1AA03-0XB0 Data Sheet