

Siemens 6ES7195-7HF80-0XA0

BM FDC / Role and assembly selection

Siemens 6ES7195-7HF80-0XA0 is the BM DP/PA bus module for ET200M installations with an extended temperature range. Identified as BM FDC in the FF Link assembly, the module supports the coupler insertion-and-removal arrangement on the appropriate active-module rail.

INTERFACE SIDE

Interface-module bus arrangement

BM FDC POSITION

Mates with the adjacent bus module

COUPLER

FDC 157 engages the lateral guides

Product designation	BM DP/PA / BM FDC
System family	SIMATIC ET200M
Assembly use	DP/PA Link / FF Link
Module function	Coupler bus-module mounting and backplane arrangement
Installation rail	Rail for module replacement during operation
Adjacent module connection	Mated bus-module connections
Module insertion guide	Lateral bus-module guides

In an FF Link assembly, BM FDC provides the bus-module position for FDC 157 alongside the interface-module bus arrangement. A redundant IM 153-2 FF master arrangement can still use one FDC 157; a redundant coupler pair instead requires the different BM FDC/FDC unit.

ASSEMBLY ROLES, NOT A FIELD-WIRING DIAGRAM

The role map separates the interface-side bus module, BM FDC position and installed coupler. Do not treat the BM FDC order number as an order for the entire FF Link or a field-device interface.

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BM FDC / Operating environment and scope

Horizontal operating ambient	-25 to +60 C
Vertical operating ambient	-25 to +40 C
Storage / transport temperature	-40 to +70 C
Relative humidity	10-95%, without condensation
Assembled link protection	IP20
Assembled link protection class	Class I; grounding connection to rail
Use environment	Fixed, sheltered location
Mounting orientation	Horizontal or vertical
Assembly removal isolation	Switch off the link's 24 V DC power supplies

CONTINUOUS EXPOSURE

10-58 Hz: 0.0375 mm amplitude. 58-150 Hz: 0.5 g acceleration.

INFREQUENT EXPOSURE

10-58 Hz: 0.075 mm amplitude. 58-150 Hz: 1 g acceleration.

ASSEMBLED-LINK ENVIRONMENT

The stated environmental envelope applies to the scoped link components, including BM FDC. IP20 does not provide water protection; humidity is specified without condensation.

Mounting position, restricted-access enclosure and mechanical exposure are separate checks. Do not replace any of them with a general claim that a fieldbus assembly is suitable for outdoor wet service.

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BM FDC / Assembly and removal sequence

01 / ASSEMBLY CHECK

Distinguish a single FDC position from a redundant FDC pair before choosing the bus module.

02 / ASSEMBLY CHECK

Use the mounting rail intended for module replacement during operation.

03 / ASSEMBLY CHECK

Switch off the link's 24 V DC power supplies before dismantling the bus assembly.

04 / ASSEMBLY CHECK

Position the bus module on the rail and engage its rail connection.

05 / ASSEMBLY CHECK

Slide the adjacent bus modules together until their connections mate.

06 / ASSEMBLY CHECK

Insert the coupler using the bus module's lateral guides.

07 / ASSEMBLY CHECK

Tighten the module screws to secure the modules and bus assembly to the rail.

08 / ASSEMBLY CHECK

Restore the assembled link and verify its configured operation within the mounting-specific ambient limit.

Rail	Active bus modules require the module-replacement rail.
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Connections	Mate neighboring bus modules before securing the installed coupler.
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Removal	Switch off the link supply before dismantling its bus assembly.
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Use the lateral module guides, then tighten the module screws. Retain the configured interface/coupler arrangement when restoring operation; the underlying bus module and front coupler have different service roles.

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BM FDC / Engineering decisions

Does the 7HF80 bus module accommodate the redundant FDC pair?

The BM FDC designation is separate from BM FDC/FDC (redundant), whose order number ends in 7HG80-0XA0. Use the paired module for the documented redundant coupler arrangement rather than treating these two bus modules as interchangeable.

Can redundant interface masters still operate with one FDC on BM FDC?

Yes. The FF Link master-redundancy arrangement can use two IM 153-2 FF modules with one FDC 157. Redundancy of the interface masters does not by itself mean the couplers form a redundant pair.

Why is the standard S7 rail not the active-module mounting choice?

The installation with active bus modules uses the rail intended for hot-swapping modules. A standard configuration instead connects the modules with the supplied bus connector; that is a different mounting arrangement.

Does the insertion-and-removal function allow dismantling the bus assembly live?

No such permission follows from that function. The dismantling procedure requires switching off the link's 24 V DC power supplies first. Distinguish replacing a configured front module from removing the underlying bus assembly.

What has to engage before the FDC is secured?

The adjacent bus modules are slid together so their connections mate. The FDC is inserted using the lateral guides, then the module screws are tightened to fix the assembly to the rail.

What changes if the installed link sees continuous rather than occasional vibration?

For 10-58 Hz, the continuous amplitude limit is 0.0375 mm, compared with 0.075 mm for infrequent exposure. For 58-150 Hz, the corresponding accelerations are 0.5 g and 1 g. Reduce excessive vibration with appropriate installation measures instead of applying the infrequent limit continuously.

Does IP20 make an exposed link assembly suitable for wet locations?

IP20 does not protect against water penetration. The link components are open equipment for a suitable restricted-access enclosure or electrical service room; humidity is specified without condensation.

Should the FDC's field-device capacity or transmission rate be entered as BM FDC specifications?

Those values describe the coupler or the complete fieldbus link, not the BM FDC mounting/backplane unit. Keep the bus-module role separate from the communication and power ratings of the installed FDC.

KEEP THE THREE IDENTITIES DISTINCT

The bus module, the FDC 157 coupler and the complete FF Link assembly are different identities. Select the mounting/backplane part from its exact order number; use the coupler data only for coupler-specific electrical and communication questions.

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BM FDC / Evidence portfolio and handover

SOURCE LEDGER

Siemens 6ES7195-7HF80-0XA0 Product Record

SiePortal exact article; checked 12 October 2026; BM DP/PA, ET200M and insertion/removal function.

Siemens FF Link Operating Instructions

A5E35651245-AB, March 2015; scope, mounting, environmental data and order numbers. Current approved unchanged excerpt: original pages 1-2,7-8,23,27-33,86-93,101-102.

SIMATIC PCS 7 Standard Architectures

Entry 32201963, October 2015; exact BM DP/PA order number in DP-PA / DP-FF bill of materials, original pages 153 and 156.

ET200 SERIES CATALOG

Catalog browsing only. These pages do not establish BM FDC compatibility or replacement equivalence.

[View Siemens 6ES7972-4AA02-0XA0 page](#)

[View Siemens 6ES7193-6PA00-0AA0 page](#)

READING THE MANUFACTURER EXCERPT

The 22 unchanged original pages retain the FF Link context. Other components can appear in the source diagrams and order lists; their technical ratings are not attributed to BM FDC in this dossier.

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