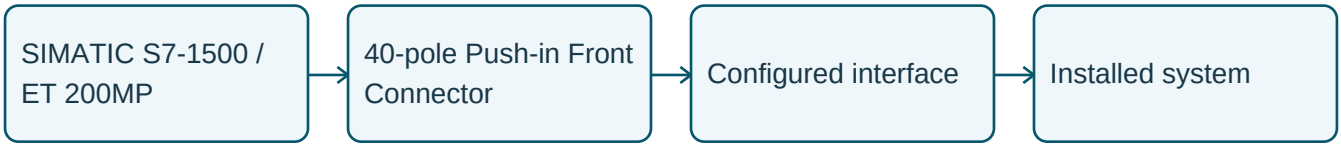
6ES7592-1BM00-0XA0

01 / System identity and preparation

Siemens 6ES7592-1BM00-0XA0 is a 40-pole push-in front connector for 25 mm wide SIMATIC S7-1500 and ET 200MP modules and applicable compact CPUs. It forms the field-wiring connection to the matching module. The 25 mm module assignment is a selection criterion, so a different front-connector width or termination execution must not be substituted solely because it has forty contacts.



Preparation priorities

Connector selection	Match the 25 mm module or compact CPU and its exact front-connector assignment.
Circuit assignment	Use the connected module pinout; the connector does not define the signal or circuit rating.

Guide boundary

This Apter Power guide organizes preparation and acceptance checks. Apply the manufacturer instructions and approved site procedure for detailed wiring, mounting, configuration and functional testing.

Application boundary

Connector data applies to the 25 mm push-in execution. Conductor size, occupancy and ferrule limits must be evaluated together with the connected module pinout.

Product and installation enquiries

sales13@apterpower.com | +86 18030235313

Apply manufacturer instructions and approved site procedures.

02 / Configuration review before service

Connector selection	Match the 25 mm module or compact CPU and its exact front-connector assignment.
Circuit assignment	Use the connected module pinout; the connector does not define the signal or circuit rating.
Conductor preparation	Check conductor size, occupancy limits, stripping length and ferrule selection before termination.
Wiring acceptance	Verify terminal retention, cable-tie strain relief and the complete wiring assignment before energization.

Connector selection

Match the 25 mm module or compact CPU and its exact front-connector assignment.

Circuit assignment

Use the connected module pinout; the connector does not define the signal or circuit rating.

Configured system behavior

The connection range is 0.25 to 1.5 square millimetres, subject to the wiring-density limits. The specified arrangement allows a maximum of 32 conductors of 0.75 square millimetres plus eight of 1.5 square millimetres. Two conductors in one connection are limited to the permitted twin-ferrule arrangement; conductor size and total occupancy must be checked together.

Mismatch decision

Resolve a different catalog marking, interface, software requirement or installed configuration before proceeding. Physical similarity alone does not establish an approved replacement.

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Apply manufacturer instructions and approved site procedures.

03 / Hardware and interface checks

Conductor preparation

Check conductor size, occupancy limits, stripping length and ferrule selection before termination.

Wiring acceptance

Verify terminal retention, cable-tie strain relief and the complete wiring assignment before energization.

Key hardware references

Connection technology	Push-in
Module assignment	25 mm wide modules and applicable compact CPUs
Conductor range	0.25 to 1.5 mm², subject to occupancy limits
Wiring-density limit	Maximum 32 × 0.75 mm² plus 8 × 1.5 mm²

Configuration and service context

Wire preparation requires 8 to 11 mm stripping length and the appropriate ferrules where used. A conical 3 to 3.5 mm screwdriver is specified for terminal operation. Follow the pin assignment of the connected module, secure the wiring with the cable tie and verify retention and termination before applying the circuit supply. Signal type and electrical loading remain properties of the connected module.

Preserve the connection record

Photograph and label the affected connections before disconnection. Retain the original routing, module positions and identification with the work order, and compare the restored installation against that record.

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Apply manufacturer instructions and approved site procedures.

04 / Commissioning and diagnostic decisions

Protect the hardware

Use the applicable isolation and electrostatic-discharge controls. Preserve connectors, identification and mechanical retention during handling.

Verify the restored function

Apply the approved site acceptance procedure and compare actual behavior with the recorded system configuration before returning equipment to service.

Acceptance checkpoints

Before energization	Use the connected module pinout; the connector does not define the signal or circuit rating.
Configuration review	Check conductor size, occupancy limits, stripping length and ferrule selection before termination.
Functional release	Verify terminal retention, cable-tie strain relief and the complete wiring assignment before energization.

Does 6ES7592-1BM00-0XA0 determine the connected signal rating?

No. Follow the signal assignment and electrical limits of the actual connected module or compact CPU.

Abnormal result

If diagnostics, communication or functional response differ from the approved baseline, stop the release and resolve the configuration or installation issue. Do not bypass an interlock or protective function to obtain a passing test.

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Apply manufacturer instructions and approved site procedures.

05 / Service record and technical references

Lifecycle and support

The manufacturer lifecycle phase is Active Product. Retain the exact connector and module-width assignment when planning maintenance.

Technical basis

Siemens 6ES7592-1BM00-0XA0 Product Data Sheet.

Applicability

Connector data applies to the 25 mm push-in execution. Conductor size, occupancy and ferrule limits must be evaluated together with the connected module pinout.

Related portfolio references

Siemens 6ES7522-1BH00-0AB0

Siemens 6XV1830-0EH10 200M

Siemens 6DD1661-0AE0

Navigation only. These listings are not confirmed replacements, compatible accessories or included items.

Handover record

Retain the complete fitted marking, hardware/software revision where applicable, connection record and accepted test results. Confirm separate accessories and documents in the quotation.

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