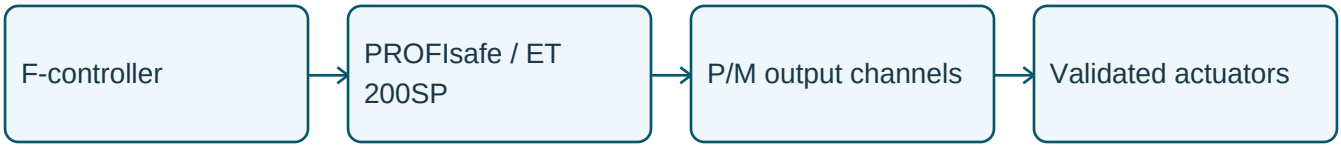
6ES7136-6DB00-0CA0

01 / System identity and preparation

Siemens 6ES7136-6DB00-0CA0 provides four parameterizable fail-safe transistor outputs in the ET 200SP distributed-I/O system. Each channel uses P- and M-switching connections to control its load. The module uses a type A0 BaseUnit and an electronic type-F coding element. Its nominal supply is 24 V DC, with a permissible range of 19.2 to 28.8 V in the current product data.



Preparation priorities

Station and terminals	Confirm the type A0 BaseUnit, potential group and P/M terminal assignment.
Safety relationship	Match the F-controller, PROFIsafe address, safety program and monitoring parameters.

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

Use the supply range from the current product data sheet. Apply the complete safety configuration, output-current derating and hardware/firmware-specific installation requirements.

Product and installation enquiries

sales13@apterpower.com | +86 18030235313

Apply manufacturer instructions and approved site procedures.

02 / Configuration review before service

Station and terminals	Confirm the type A0 BaseUnit, potential group and P/M terminal assignment.
Safety relationship	Match the F-controller, PROFIsafe address, safety program and monitoring parameters.
Load envelope	Calculate channel and total currents for temperature, mounting and neighboring-module loading.
Fault validation	Verify diagnostics, safe-state operation and reintegration through the approved safety test.

Use the correct BaseUnit

Use type A0 and verify the station potential-group arrangement and terminal assignment.

Validate safety parameters

Check the F-address, monitoring time, safety program and required diagnostic behavior.

Configured system behavior

Each output is rated for up to 2 A, but the maximum total module current is 6 A and must be reduced according to mounting orientation, temperature and adjacent-module loading. The module includes short-circuit, overload and open-circuit diagnostics, together with supply, module and channel indication. Diagnostic interrupts and PROFIsafe communication allow the safety program to respond to detected faults; fault removal and reintegration must follow the configured safety procedure.

Mismatch decision

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

Product and installation enquiries

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Apply manufacturer instructions and approved site procedures.

03 / Hardware and interface checks

Observe current derating

Keep each channel and the total module current within the mounting and temperature limits.

Check load wiring

Preserve the P/M circuit arrangement and verify that the load is compatible with the output test behavior.

Key hardware references

Output channels	4 transistor outputs
Rated supply	24 V DC
Supply range	19.2 to 28.8 V DC
Channel current	2 A maximum; derating applies

Configuration and service context

The module supports applications up to SIL 3 and PL e when integrated and validated within the required safety system. Its address allocation is five input bytes and five output bytes. Engineering support starts with TIA Portal V12 or STEP 7 V5.5 SP3, subject to the applicable station and safety-software configuration. Horizontal operation supports 0 to 60 degrees Celsius and vertical operation 0 to 50 degrees Celsius, with the corresponding output-current derating.

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.

Product and installation enquiries

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Apply manufacturer instructions and approved site procedures.

04 / Commissioning and diagnostic decisions

Resolve faults before reset

Remove the fault and validate the affected safety function before acknowledging diagnostics and reintegrating outputs.

Verify the complete function

Test the required safe state and actuator response under the approved commissioning procedure.

Acceptance checkpoints

Before energization	Match the F-controller, PROFIsafe address, safety program and monitoring parameters.
Configuration review	Calculate channel and total currents for temperature, mounting and neighboring-module loading.
Functional release	Verify diagnostics, safe-state operation and reintegration through the approved safety test.

What should happen after a fault on 6ES7136-6DB00-0CA0 is corrected?

Validate the affected safety function and follow the configured acknowledgment and reintegration procedure before re-enabling the output.

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 Phase Out Announce. Review the installed hardware and safety project before selecting a replacement.

Technical basis

Siemens 6ES7136-6DB00-0CA0 Product Data Sheet, 2026-09-28; F-DQ 4x24VDC/2A PM HF Manual, A5E03858037-01.

Applicability

Use the supply range from the current product data sheet. Apply the complete safety configuration, output-current derating and hardware/firmware-specific installation requirements.

Related portfolio references

Siemens 6ES7138-4CA01-0AA0

Siemens 6ES7195-7HF80-0XA0

Siemens 6ES7134-4NB51-0AB0

Siemens 6ES7412-2XG00-0AB0

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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Apply manufacturer instructions and approved site procedures.