6ES7136-6DB00-0CA0

01 / Product identity and control context

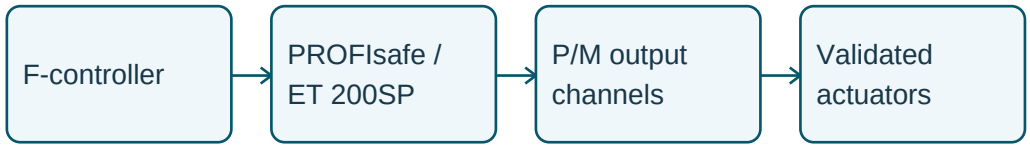
Safety Output Module

Siemens 6ES7136-6DB00-0CA0 is an ET 200SP F-DQ 4x24VDC/2A PM HF module with four fail-safe digital outputs for correctly configured safety applications.

Key characteristics

Product type	F-DQ 4x24VDC/2A PM HF
Output channels	Four 24 V DC transistor outputs
Channel current	Up to 2 A per channel, with module derating

Functional relationship



Station and terminals

Confirm the type A0 BaseUnit, potential group and P/M terminal assignment.

Configuration 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.

6ES7136-6DB00-0CA0

02 / Technical characteristics

Hardware and functional data

Product series	SIMATIC ET 200SP
Module designation	F-DQ 4x24VDC/2A PM HF
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

Interfaces and operating conditions

Total output current	6 A maximum; temperature and mounting derating apply
BaseUnit type	A0
Address allocation	5 input bytes / 5 output bytes
Protection diagnostics	Short circuit, overload and open circuit
Safety capability	Up to SIL 3 / PL e in a validated safety configuration
Operating temperature	0 to 60 °C horizontal; 0 to 50 °C vertical

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03 / Application and integration contexts

Fail-safe actuator outputs

Switch compatible 24 V DC actuators through the P/M output channels. Verify load current and the configured safe-state behavior.

Distributed safety I/O

Integrate the module into an ET 200SP station with the required fail-safe controller and PROFIsafe parameters.

Safety relationship

Match the F-controller, PROFIsafe address, safety program and monitoring parameters.

Output fault diagnostics

Use module and channel diagnostics to identify wiring faults, overloads and supply problems before reintegration.

Cabinet load planning

Allocate output loads with temperature, orientation and neighboring-module derating in mind, rather than summing four 2 A channels as an 8 A module.

Load envelope

Calculate channel and total currents for temperature, mounting and neighboring-module loading.

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04 / Installation and release decisions

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.

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.

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.

Product and installation enquiries

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05 / Lifecycle, evidence and related portfolio

Lifecycle status

The manufacturer lifecycle phase is Phase Out Announce. Review the installed hardware and safety project before selecting a replacement.

Supply boundary

Apter Power availability and dispatch are confirmed separately from the manufacturer lifecycle phase.

Technical basis

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

Related product references

Siemens 6ES7138-4CA01-0AA0

Siemens 6ES7195-7HF80-0XA0

Siemens 6ES7134-4NB51-0AB0

Siemens 6ES7412-2XG00-0AB0

Navigation only; no substitute or accessory compatibility is implied.

Offered-unit verification

Compare the complete label, connectors, mounting arrangement and applicable hardware/software revision. Confirm included components and accompanying documents in the quotation.

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