Product dashboard

Siemens 6DS1606-8BA is a TELEPERM M testable relay output module used with the AS 235 H PRA driver for fault-monitored relay-output service.

Exact model	Product type	System family	Functional role
6DS1606-8BA	Testable Relay Output Module	TELEPERM M / AS 235 H	Relay Output Module

PARAMETER	DOCUMENTED VALUE
Exact article	6DS1606-8BA
Product family	TELEPERM M / AS 235 H
Module type	Testable relay output module (PRA)
Driver context	PRA function block
Fault coverage	Module-fault detection including contact monitoring
Documented structures	1-out-of-1, 1-out-of-2 and 2-out-of-2
Output interface	Relay outputs wired to the actuator for the application
1-out-of-1 behavior	Immediate hardware-fault detection

Release basis: verify the exact identity, retained host relationship, connected interfaces and controlled functional result.

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6DS1606-8BA

System overview

Within the AS 235 H architecture, Siemens 6DS1606-8BA provides testable relay outputs whose PRA driver supports module-fault detection, contact monitoring and redundant structures.

Fault-monitored relay outputs

Maintains the PRA output position where contact and module-fault detection are required.

Redundant actuator paths

Implements the selected 1oo2 or 2oo2 behavior only with the retained external wiring and driver logic.

AS 235 H maintenance

Restores the exact module and PRA-driver relationship during controlled cabinet service.

Output-path diagnostics

Separates module, contact, driver and actuator-wiring faults before service release.

SYSTEM POSITION	RECORD
Installed identity	6DS1606-8BA
Host relationship	TELEPERM M / AS 235 H
Controlled function	fault-monitored relay output service under the AS 235 H PRA driver

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Technical data map

PARAMETER	VERIFIED VALUE
Exact article	6DS1606-8BA
Product family	TELEPERM M / AS 235 H
Module type	Testable relay output module (PRA)
Driver context	PRA function block
Fault coverage	Module-fault detection including contact monitoring
Documented structures	1-out-of-1, 1-out-of-2 and 2-out-of-2
Output interface	Relay outputs wired to the actuator for the application
1-out-of-1 behavior	Immediate hardware-fault detection
1-out-of-2 objective	Retain the ability to issue ON after one module fault under the configured logic
2-out-of-2 objective	Retain the ability to issue OFF after one module fault under the configured logic
Fault-default caution	Coordinate the master-driver freeze bit with the configured fault value

CONTROL BAND	VERIFICATION RECORD
Identity	Exact model and complete label
Mechanical	Form, seating and retention
Interfaces	Power, wiring, communication and protection
Configuration	Settings, project and revision
Release	fault-monitored relay output service under the AS 235 H PRA driver

Technical evidence record: Siemens TELEPERM M AS 235 H Description C79000-G8076-C484-04, section 5.2

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6DS1606-8BA

Applications and precautions

1. Confirm the complete Siemens 6DS1606-8BA marking before work.
2. Place every connected actuator in the approved maintenance state.
3. Record the PRA driver, addresses, relay wiring and selected redundancy structure.
4. Document the master-driver freeze bit and every affected fault-default value.
5. Inspect relay-output conductors and contact-monitoring paths before reconnection.
6. Restore the exact 1oo1, 1oo2 or 2oo2 arrangement without borrowing settings.
7. Review PRA driver and module-fault indications after controlled energization.
8. Prove every affected actuator path before returning the process to service.

Complete each check against the installed record; hold release when any identity, connection, configuration or diagnostic result differs.

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6DS1606-8BA

Buyer and engineering FAQ

What function does Siemens 6DS1606-8BA provide?

It is the AS 235 H testable relay output module used with the PRA driver block.

Which fault functions does Siemens 6DS1606-8BA provide?

It includes complete module-fault detection and contact monitoring.

Which structures can Siemens 6DS1606-8BA use?

It supports 1-out-of-1, 1-out-of-2 and 2-out-of-2 structures.

How are the relay outputs of Siemens 6DS1606-8BA connected?

They must be wired to the actuators according to the application and the selected structure.

Related Apter Power pages

- Siemens 6DS1412-8RR
- Siemens 6DS1300-8AB

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