HIMA

F3421

Digital Output Module

HIMA F3421 is a digital output module identified by the exact F3421 front marking. The documented front assembly provides four K1–K4 output indications and relay/terminal positions that must remain aligned with the installed field circuits.

System position

Exact identity	System family	Functional role	Release basis
F3421	HIMA legacy safety I/O	Digital Output Module	Recorded test and diagnostics

Keep the hardware and configuration identities together

F3421 presents four visibly identified output paths at the front of the module, so the K1–K4 indication, relay positions and terminal map are recorded before replacement.

IDENTITY / RESOURCE	DOCUMENTED VALUE
Exact model	F3421
Module type	Digital output module
Visible channel marks	K1 through K4
Output paths	Four front-indicated paths
Documented output current	300 mA in exact-model sales record
Undervoltage trip	14 V or lower in exact-model sales record

Technical evidence record: Exact-model image and product record

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F3421

Interfaces and integration

Define the installed role

F3421 presents four visibly identified output paths at the front of the module, so the K1–K4 indication, relay positions and terminal map are recorded before replacement.

Exact model	F3421
Module type	Digital output module
Visible channel marks	K1 through K4

Map the host relationship

The complete F3421 identity is matched to the host position, companion hardware and retained engineering record before any connection is disturbed.

Host	HIMA legacy safety I/O
Primary role	four-path digital output switching in the matched
Acceptance	Diagnostics and functional response

Interface control matrix

CONTROL BAND	VERIFICATION RECORD
Identity	Exact model and complete label
Mechanical	Form, seating and retention
Electrical	Power, field wiring and protective earth
Communication	Address, network and companion configuration
Configuration	Switches, parameters, project and revision
Release	Controlled test with retained result

Configuration continuity

Retain the recorded HIMA legacy safety I/O position, connected interfaces and configuration baseline.

Acceptance evidence

Release F3421 only after diagnostics and a controlled functional result are recorded.

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Technical resource bands

Only values tied to the complete product identity are listed. Installation-specific settings remain governed by the controlled site record.

PARAMETER	VALUE
Exact model	F3421
Module type	Digital output module
Visible channel marks	K1 through K4
Output paths	Four front-indicated paths
Documented output current	300 mA in exact-model sales record

PARAMETER	VALUE
Undervoltage trip	14 V or lower in exact-model sales record
Short-circuit current	0.75–2.4 A in exact-model sales record
Space requirement	4 TE in exact-model sales record
Acceptance	Command, indication and terminal response

Identity decision

Accept only the complete F3421 marking and the recorded hardware execution.

Host decision

Confirm the receiving HIMA legacy safety I/O position and every companion component.

Interface decision

Compare mechanical fit, power, field wiring, communication and protective earth.

Release decision

Record diagnostics and a controlled test of four-path digital output switching in the matched HIMA rack before handover.

Engineering boundary

Use F3421 only after the exact host, installed position, companion parts, protection measures and commissioning record have been matched. Do not borrow ratings from a similar-looking variant.

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Controls and service logic

Installed-system renewal

Restores the documented F3421 position while keeping the approved host and interfaces.

Controlled maintenance

Supports as-found recording, safe isolation and exact connection restoration.

Compatibility review

Compares the full marking, host, connectors, settings and companion hardware.

Commissioning evidence

Records diagnostics and a controlled functional test of four-path digital output switching in the matched

Service decision path

STEP	REQUIRED OUTCOME
1. Identify	Read F3421 and all companion markings
2. Compare	Host, position, connections, settings and revision
3. Install	Restore wiring, shielding, retention and protection
4. Verify	Review diagnostics and execute controlled function test

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F3421

Engineering decisions

What does F3421 identify?

F3421 identifies the digital output module used for four-path digital output switching in the matched HIMA rack.

Which installed system must F3421 match?

Match F3421 to the recorded HIMA legacy safety I/O host, position and companion hardware.

Which markings must be checked on F3421?

Verify the complete F3421 text and every suffix, revision or assembly marking on the supplied item.

What should be recorded before removing F3421?

Record the slot, connectors, cable labels, switches, parameters, adjacent hardware and diagnostic state.

Can F3421 be replaced by appearance alone?

No. F3421 requires an exact identity and interface match against the installed-system record.

How should F3421 be isolated?

Use the approved maintenance state, remove connected energy and prove the affected circuit safe.

Related Apter Power pages

HIMA 52100 — View product page

Technical evidence record: Exact-model image and product record

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