HIMA F3430

Safety Relay Module / Identity and operating role

HIMA F3430 is a four-channel safety-related relay output module for documented HIQuad systems. HIMA lists SIL 3, 110 VDC or 250 VAC switching and current up to 4 A for this exact model.

Exact model	F3430
Product class	Safety-related relay output module
System family	HIQuad H41q/H51q and supported HIQuad X I/O
Safety classification	SIL 3
Relay output channels	4
DC switching voltage	110 VDC

MODEL-SPECIFIC POINT

Match the complete F3430 marking and confirm hardware revision 01 or 02.

MODEL-SPECIFIC POINT

Keep all four relay-output channels within the documented 110 VDC, 250 VAC and 4 A limits.

MODEL-SPECIFIC POINT

Record each external load circuit, protective device and suppression arrangement before removal.

MODEL-SPECIFIC POINT

Exclude any safety function that requires switching on demand under EN ISO 13849-1.

Important Notice: F3430 is not certified according to EN ISO 13849-1 and must not be used for a safety function that requires switching on demand.

IDENTITY CONTROL

Match the complete model and installed record before any replacement decision.

CONFIGURATION CONTROL

Retain the project, addresses, wiring or network data and acceptance evidence together.

HIMA F3430

Safety Relay Module / System integration and applications

Each relay channel switches an installation-specific external load circuit. The approved safety design, load protection, contact suppression and channel acceptance test remain defined by the controlled project documentation.

Four-channel relay isolation

Switch four documented field circuits through the F3430 relay outputs.

HIQuad shutdown outputs

Operate approved final elements in a de-energize-to-trip safety arrangement.

Mixed AC or DC loads

Apply the exact documented voltage and current boundary to each installed channel.

Controlled legacy maintenance

Replace an exact F3430 while retaining channel, load and revision records.

Additional manufacturer data

AC switching voltage	250 VAC
Switching current	Up to 4 A
Documented architectures	ESD and ProtecS
Valid revisions	01 and 02
EN ISO 13849-1	Not certified
Application restriction	Not for safety functions requiring switching on demand

VERIFIED RELATED PRODUCTS

Catalog navigation only; compatibility, replacement or substitution is not implied.

01 HIMA F3422

02 HIMA F3349

APPLICATION BOUNDARY

The examples describe the documented system role and do not establish interchangeability.

SELECTION EVIDENCE

Confirm the exact model against the installed drawing, project record and field arrangement.

HIMA F3430

Safety Relay Module / Installation and commissioning

01 / CONTROLLED STEP

Verify the complete HIMA F3430 marking and confirm revision 01 or 02.

02 / CONTROLLED STEP

Record all four channel assignments, terminal positions and connected loads before removal.

03 / CONTROLLED STEP

Place the controlled process in its approved safe state and isolate every external load supply.

04 / CONTROLLED STEP

Prove absence of both AC and DC voltage at the F3430 field terminals before conductor work.

05 / CONTROLLED STEP

Check each circuit against the documented 110 VDC, 250 VAC and 4 A switching limits.

06 / CONTROLLED STEP

Inspect relay wiring, protective devices and load-suppression components before reconnection.

Release gate

Do not assign F3430 to an EN ISO 13849-1 safety function that requires switching on demand. Witness each required relay transition and retain the final diagnostic and acceptance record.

Exact identity	F3430
Installed position	Record rack, slot and station assignment
Configuration	Retain project, addresses, signal modes and network data
Acceptance	Record diagnostics and witnessed functional response

VERIFIED RELATED PRODUCTS

Catalog navigation only; compatibility, replacement or substitution is not implied.

01 HIMA F3330

02 HIMA F3221

PRE-ENERGIZATION

Recheck identity, seating, wiring, grounding, signal mode and every applicable protective device.

FUNCTIONAL ACCEPTANCE

Review diagnostics and prove the intended response before the process is released.

HIMA F3430

Safety Relay Module / Model-specific engineering questions

How many relay output channels are provided by HIMA F3430?

HIMA identifies F3430 as a four-channel relay output module. Keep the four installed channel assignments distinct in the terminal and acceptance records.

Which AC switching voltage is listed for HIMA F3430?

The manufacturer technical overview lists a documented switching voltage of 250 VAC. Separately isolate the AC source before any terminal work.

Which safety classification is recorded for HIMA F3430?

HIMA lists F3430 as a safety-related SIL 3 relay output module. Final safety integrity still depends on the complete validated safety function.

Which ISO 13849 restriction applies to HIMA F3430?

HIMA states that F3430 is not certified according to EN ISO 13849-1 and cannot be used for a safety function that requires switching on demand. Do not remove this restriction from the engineering record.

Which DC switching voltage is listed for HIMA F3430?

The manufacturer technical overview lists a documented switching voltage of 110 VDC. The installed load and protective device must remain within the approved circuit design.

What switching-current limit is published for HIMA F3430?

HIMA lists switching current up to 4 A within the documented module rating. This limit does not replace the installation-specific load and protection review.

Which hardware revisions are valid for HIMA F3430?

The cited HIMA revision list records revisions 01 and 02 as valid for F3430. Record the actual nameplate revision before selection or replacement.

What field records must be preserved before replacing HIMA F3430?

Record all four channel assignments, external AC or DC feeds, connected loads and protective devices before removal. Retain the final diagnostic and witnessed safety-response record after commissioning.

VERIFIED RELATED PRODUCTS

Catalog navigation only; compatibility, replacement or substitution is not implied.

01 HIMA F3236

Acceptance record

Identify the exact model, restored configuration, diagnostic state and witnessed response. Preserve the record with the controlled maintenance history.

Identity	Complete manufacturer and model marking verified
Configuration	Installed project, mapping, wiring or network data restored
Diagnostics	Relevant module and system indicators reviewed
Release	Intended field response witnessed and recorded

HIMA F3430

Safety Relay Module / Evidence and support

EVIDENCE BOUNDARY

Only exact manufacturer material supports the stated facts; nearby suffixes are not treated as substitutes.

DOCUMENT USE

Use this file with the installed drawing, project backup and controlled maintenance procedure.

Manufacturer	HIMA
Exact model	F3430
Product type	Safety Relay Module
Product family	HIQuad H41q/H51q
Evidence basis	Exact manufacturer publication

VERIFIED RELATED PRODUCTS

Catalog navigation only; compatibility, replacement or substitution is not implied.

01 HIMA F3237

MANUFACTURER EVIDENCE RECORD

HIMA Technical Product Overview and HIQuad/HIQuad X Revision List

Manufacturer records confirming F3430 identity, four-channel SIL 3 relay outputs, ratings, valid revisions and the EN ISO 13849-1 application restriction.

DOCUMENT PACKAGE

Exact identity: manufacturer and full model are retained throughout this file.

Engineering boundary: nearby suffixes do not establish compatibility or substitution.

Field use: combine this reference with the installed drawing and validated project record.

Release evidence: retain diagnostics, test results and witnessed functional acceptance.

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