HIMA F3430

Safety Relay Module / Identity and operating role

This F3430 installation guide controls four-channel relay-output replacement, external-load isolation, conductor transfer and witnessed acceptance. It keeps the AC and DC load circuits separate from the HIQuad system supply record.

Work item	HIMA F3430 controlled replacement
Output circuits	4 relay channels
External supplies	Isolate every connected AC and DC feed
DC check	Do not exceed 110 VDC
AC check	Do not exceed 250 VAC
Current check	Do not exceed the documented 4 A limit

MODEL-SPECIFIC POINT

Photograph the complete F3430 label and the four terminal groups before conductor work.

MODEL-SPECIFIC POINT

Identify the external source and protective device for every connected relay channel.

MODEL-SPECIFIC POINT

Transfer one labelled conductor group at a time after proving the circuit de-energized.

MODEL-SPECIFIC POINT

Restore power only after an independent terminal, load and suppression review.

Important Notice: Separately supplied AC or DC circuits can remain live at HIMA F3430 terminals after rack power is removed; identify and isolate every source.

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.

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Safety Relay Module / System integration and applications

F3430 relay contacts may switch separately supplied loads, so module isolation alone is insufficient. The work plan must identify every external source and prove the intended output response without bypassing the controlled safety sequence.

Pre-job circuit survey

Map each F3430 channel to its external supply, protection and final element.

Isolated conductor transfer

Move labelled relay conductors only after absence of voltage is proven.

Pre-energization inspection

Check terminal security, clearances, polarity and load suppression.

Channel-by-channel proof

Witness the required state change for every used F3430 output.

Additional manufacturer data

Revision check	Accept documented revision 01 or 02 only
Terminal record	Channel, conductor, load and supply identification
Protection record	Fuse, breaker and suppression arrangement
Pre-power review	Polarity, clearance, grounding and conductor security
Functional test	Witness every required relay transition
Release record	Diagnostics, channel result and authorized acceptance

VERIFIED RELATED PRODUCTS

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

01 HIMA F3322

02 HIMA F3421

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

Confirm F3430 and revision 01 or 02 before the replacement enters the work area.

02 / CONTROLLED STEP

Record the four channel terminals, load names, external feeds and protective devices.

03 / CONTROLLED STEP

Apply the approved process-safe state before isolating the relay circuits.

04 / CONTROLLED STEP

Lock out every AC and DC source that can energize an F3430 terminal.

05 / CONTROLLED STEP

Use a suitable test instrument to prove absence of voltage before touching conductors.

06 / CONTROLLED STEP

Verify conductor routing, contact suppression and protective-device selection before power-up.

Release gate

Review startup diagnostics without forcing or bypassing the intended safety logic. Test and record each used channel before releasing the F3430 position to service.

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 F3423

02 HIMA F6215

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

Which F3430 circuits must be isolated before removal?

Isolate the HIQuad equipment as required and every external AC or DC source connected to an F3430 relay terminal. Confirm the isolation scope against the actual four-channel load schedule.

Why is module power isolation alone insufficient for HIMA F3430?

The relay contacts can be energized by separately supplied field circuits even when the rack is de-energized. Treat every connected terminal as live until absence of voltage is proven.

What must be inspected before reconnecting HIMA F3430?

Inspect terminal condition, conductor identification, clearances, protective devices and load-suppression components. Resolve damaged or ambiguous wiring before reseating the module.

How should an unexpected HIMA F3430 diagnostic be handled?

Stop the release, compare the indication with the controlled HIQuad documentation and resolve the cause before testing. Do not force an output to conceal an unresolved state.

How should the four HIMA F3430 channels be recorded?

Record each channel number, terminal position, load, external source, protection and normal safe state. Photograph the labelled terminal groups before conductor transfer.

What voltage check is required before touching HIMA F3430 conductors?

Prove absence of voltage at every affected AC and DC relay terminal with a suitable test instrument. Repeat the check if the isolation arrangement changes.

When may power be restored to HIMA F3430 circuits?

Restore power only after identity, revision, wiring and independent pre-energization checks are complete. Follow the approved sequence for rack and external load supplies.

What closes the HIMA F3430 replacement job?

A witnessed record of every required relay transition, normal diagnostics and authorized acceptance closes the work. Preserve that record with the updated four-channel wiring schedule.

VERIFIED RELATED PRODUCTS

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

01 HIMA F6217

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

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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 F6705

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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