

K7214

24 Vdc Fusing and Current Distribution Assembly

HIMA K7214 is a 24 Vdc fusing and current-distribution assembly for HIQuad X installations. It distributes cabinet power through eighteen circuit-breaker positions within the approved current architecture.

PRODUCT SNAPSHOT

BRAND

HIMA

FAMILY

HIMA HIQuad X Safety System

PART

K7214

HS CODE

8537101190

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PRODUCT OVERVIEW

HIMA K7214 is a 24 Vdc fusing and current-distribution assembly for HIQuad X installations. It distributes cabinet power through eighteen circuit-breaker positions within the approved current architecture.

- 1

Distributes 24 Vdc power through eighteen protected branch positions
- 2

Provides a centralized fusing point for HIQuad X cabinet circuits
- 3

Supports documented 120 A current-distribution architecture
- 4

Separates branch-circuit protection for service and fault isolation

SYSTEM COMPONENTS

- HIQuad X safety cabinet
- 24 Vdc cabinet supply
- eighteen approved circuit breakers
- protected module and field branches

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
H7506	HIMA bus terminal	Open product page
52100	Planar4 time delay element	Open product page
K7214	24 Vdc fusing and current distribution	Open product page

TECHNICAL DATA

PARAMETER	VALUE
Assembly function	Fusing and current distribution
Rated distribution current	120 A
Circuit-breaker slots	18

PARAMETER	VALUE
Distribution voltage	24 Vdc
System family	HIQuad X
Equipment class	Power supply current and distribution

SYSTEM CONNECTION AND ACCEPTANCE RECORD

RECORD ITEM	DOCUMENTED ASSIGNMENT
Installed host / carrier	HIQuad X safety cabinet
Companion hardware	24 Vdc cabinet supply
Field connection	eighteen approved circuit breakers
Primary system function	Distributes 24 Vdc power through eighteen protected branch positions
Controlled acceptance duty	Safety-controller cabinet power distribution

TECHNICAL NOTE

Confirm feeder polarity, prospective current and branch identification, install the approved circuit breakers, then test each 24 Vdc branch separately before energizing the complete HIQuad X cabinet.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Safety-controller cabinet power distribution

Distributes 24 Vdc power through eighteen protected branch positions

Protected 24 Vdc I/O branch supply

Provides a centralized fusing point for HIQuad X cabinet circuits

Cabinet circuit-breaker organization

Supports documented 120 A current-distribution architecture

Power-distribution maintenance and fault isolation

Separates branch-circuit protection for service and fault isolation

PRODUCT PRECAUTIONS

- 1 Verify K7214 and its assigned cabinet position before installation.
- 2 Open and secure all upstream 24 Vdc feeders before touching the distribution assembly.
- 3 Record every branch label, breaker rating and downstream load before replacement.
- 4 Confirm the installed arrangement remains within the documented 120 A distribution architecture.
- 5 Use only approved circuit breakers in the eighteen designated positions.
- 6 Check supply polarity, conductor termination and protective bonding before energization.
- 7 Energize and test branches individually while monitoring voltage and abnormal current.
- 8 Retain the final breaker schedule and cabinet functional-test record.

ENGINEER FAQ

Q1 Does K7214 match HIQuad X safety cabinet in a Safety-controller cabinet power distribution installation?

Verify the complete K7214 marking, the documented HIMA HIQuad X Safety System position and the installed HIQuad X safety cabinet before fitting the assembly.

Q2 How should K7214 be wired when it must distributes 24 vdc power through eighteen protected branch positions?

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for K7214; then continuity-test the affected path.

Q3 Which HIMA HIQuad X Safety System records should be captured before removing K7214?

Record the as-found wiring, installed position, active configuration and diagnostic state associated with K7214 before disconnection.

Q4 What controlled test confirms that K7214 can provides a centralized fusing point for hiquad x cabinet circuits?

Apply the approved field or simulated stimulus, observe the HIMA HIQuad X Safety System indication and confirm the intended response without bypassing the normal interlocks.

Q5 Which 24 Vdc cabinet supply condition should be checked when K7214 reports an abnormal state?

Check the 24 Vdc cabinet supply supply, seating and connection first, then compare channel diagnostics with the recorded K7214 baseline.

Q6 Can K7214 be moved directly into Protected 24 Vdc I/O branch supply without validating protected module and field branches?

No. Confirm the protected module and field branches, revision, connection scheme and HIMA HIQuad X Safety System configuration before transferring K7214 to that duty.

Q7 What maintenance evidence is required after K7214 is used for Cabinet circuit-breaker organization?

Retain the nameplate record, corrective action, final diagnostics and a controlled cabinet circuit-breaker organization functional-test result for K7214.

Q8 How should K7214 be returned to service in Power-distribution maintenance and fault isolation?

Restore power under control, verify supports documented 120 a current-distribution architecture, exercise the intended signal path and release K7214 only after the HIMA HIQuad X Safety System remains in its approved operating state.