

K7214

24 Vdc Fusing and Current Distribution Assembly

CONTROLLED ENGINEERING COPY

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.

INSTALLATION IDENTITY	REQUIRED VALUE
Complete model	K7214
Manufacturer part	K7214
Hardware type	Fusing and current distribution
System family	HIMA HIQuad X Safety System



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01 PRE-INSTALLATION PLAN

- 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.

MATCHED HARDWARE

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

INSTALLATION CONTROL RECORD

CONTROL ITEM	REQUIRED RECORD
Identity	K7214 / K7214 recorded
Physical interface	HIQuad X safety cabinet
Companion check	24 Vdc cabinet supply
Functional proof	Distributes 24 Vdc power through eighteen protected branch positions
Application test	Safety-controller cabinet power distribution

02 WIRING & INTERFACE CHECKS

CHECK ITEM	REQUIRED VALUE
Assembly function	Fusing and current distribution
Rated distribution current	120 A
Circuit-breaker slots	18
Distribution voltage	24 Vdc
System family	HIQuad X
Equipment class	Power supply current and distribution

SYSTEM CONNECTION RECORD

CONNECTION 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

FIELD 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.

03 COMMISSIONING WORKFLOW



COMMISSIONING ACCEPTANCE EVIDENCE

EVIDENCE ITEM	ACCEPTANCE CONDITION
Identity	K7214 / K7214 recorded
Physical interface	HIQuad X safety cabinet
Companion check	24 Vdc cabinet supply
Functional proof	Distributes 24 Vdc power through eighteen protected branch positions
Application test	Safety-controller cabinet power distribution

04 RETURN-TO-SERVICE RECORD

- ☐
- Check supply polarity, conductor termination and protective bonding before energization.
- ☐
- Energize and test branches individually while monitoring voltage and abnormal current.
- ☐
- Retain the final breaker schedule and cabinet functional-test record.
- ☐
- Confirm the intended process response before normal operation.

VERIFICATION RECORD

TECHNICIAN

DATE

CABINET / POSITION

FINAL DIAGNOSTIC STATE

FUNCTIONAL ACCEPTANCE CHECKLIST

- ☐
- Confirm K7214 remains assigned to the documented HIMA HIQuad X Safety System position.
- ☐
- Verify the connection to HIQuad X safety cabinet and 24 Vdc cabinet supply.
- ☐
- Exercise the intended function: distributes 24 vdc power through eighteen protected branch positions.
- ☐
- Retain the diagnostic and functional-test result for safety-controller cabinet power distribution.

SOURCE IDENTIFIERS

HIQuad X Type Approval Certificate
61633

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