Emerson KJ4006X1-BP1

01 Identify card and harness pairing

Record the terminal-block identity, installed card, rotary-key positions and harness label. Preserve the pin-to-channel schedule and identify the affected field circuits.

Card and harness pairing — acceptance

The complete mating arrangement is known rather than inferred from the connector pin count.

Stage record	Identify card and harness pairing observations and acceptance result
Termination interface	40-pin mass termination
Field-power rating	30 V DC at 3.2 A

02 Establish the disconnection condition

Place field circuits in their approved maintenance state. Apply the specified power-isolation procedure; if system power remains present, confirm that both the I/O card and all field wiring are absent as required.

Disconnection condition — acceptance

The actual removal condition meets the installation requirements and no live field circuit remains unintentionally connected.

Stage record	Establish the disconnection condition observations and acceptance result
Operating ambient	−40 to +70 °C
Relative humidity	5–95%, non-condensing

03 Restore keys and connector engagement

Set the keys for the intended card and inspect all mating contacts. Refit the terminal block and approved harness without forcing the keyed interface or changing channel assignments.

Keys and connector engagement — acceptance

Keying, card identity and harness pinout agree before field circuits are returned to service.

Stage record	Restore keys and connector engagement observations and acceptance result
Shock rating	10 g, half-sine, 11 ms
Vibration, 2–13.2 Hz	1 mm peak-to-peak

04 Check each affected field path

Use the authorized test method for the connected I/O card to verify every affected channel. Compare field behavior with the card indication and application value.

Each affected field path — acceptance

Each channel reaches its intended endpoint without swapped signals, open circuits or unexplained leakage paths.

Stage record	Check each affected field path observations and acceptance result
Vibration, 13.2–150 Hz	0.7 g
Airborne contaminants	ISA-S71.04 G3

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05 Release the termination assembly

Restore the approved circuit and power sequence, then record key positions, harness identity and channel test results. Confirm cabinet conditions remain within the non-condensing operating envelope.

Termination assembly — acceptance

The terminal assembly has a traceable connection record and a verified end-to-end circuit result for handover.

Technical basis: DeltaV 40-Pin Mass Terminal Block, ATEX74, July 2021.

Related product navigation

- Emerson KJ2005X1-BK1 SE3007
- Emerson KJ3243X1-BK1 SE4022
- Emerson KJ1501X1-BC4 13P0063X052

Related products for separate application assessment; verify the platform and interface. No interchangeability is implied.