Emerson KJ3001X1-BA1 12P0549X112 is a DeltaV DI, 8-channel, 24 VDC isolated card. The manufacturer instruction sheet defines its card function, power boundary, environmental ratings and keyed terminal-block interface for controlled installation and service.

01

Eight isolated 24 VDC discrete-input channels

02

12 VDC LocalBus electronics supply

03

Rotary-keyed I/O terminal-block interface

04

Non-serviceable module with no field calibration

Field circuit

Documented signals and field power

KJ3001X1-BA1 12P0549X112

DI, 8-channel, 24 VDC isolated card

DeltaV LocalBus

Controller communication and diagnostics

APPLICATION BOUNDARY

Confirm the complete KJ3001X1-BA1 12P0549X112 nameplate, installed terminal block, wiring diagram, field power and DeltaV cabinet record before removal, replacement or energization.

Card function	DI, 8-channel, 24 VDC, isolated
LocalBus power	12 VDC at 100 mA
Field circuit	24 VDC at 5 mA per channel
Ambient temperature	0 to +60 degrees C
Relative humidity	5 to 95% non-condensing; IP20 rating

Shock	10 g half-sine for 11 ms
Vibration	1 mm peak-to-peak from 5 to 16 Hz; 0.5 g from 16 to 150 Hz
Airborne contaminants	ISA-S71.04-1985 Class G3
Terminal-block key	A4
Maintenance	No user-serviceable parts; no calibration

CONFIGURATION CHECK

The exact sheet requires field-power removal before connection changes and gives conditional system-power insertion rules for one unit at a time with the specified dual DC/DC supply boundary. The exact KJ3001X1-BA1 card function is documented; the secondary identifier must be verified from the installed label because the manufacturer sheet does not decode every order-number revision.

DELTAV PROCESS I/O

Use the di, 8-channel, 24 vdc isolated card in the approved DeltaV I/O architecture with the exact keyed termination.

CABINET REPLACEMENT

Restore a documented installed position after identity, field energy, wiring and keying are verified.

LOOP COMMISSIONING

Confirm field-circuit behavior, channel status and controller diagnostics under the approved test plan.

CONTROLLED MAINTENANCE

Use the manufacturer removal, insertion and non-serviceable-unit rules during planned service.

STATION INTEGRATION

Preserve the complete KJ3001X1-BA1 12P0549X112 identity before replacement. Isolate field energy as required by the Emerson instruction sheet, verify the terminal-block key and wiring diagram, then confirm channel status and system diagnostics before returning the affected loops to service.

What card function is documented for Emerson KJ3001X1-BA1 12P0549X112?	The exact KJ3001X1-BA1 sheet documents an eight-channel, isolated 24 VDC discrete-input card; retain the complete secondary marking during replacement.
What shock limit is listed for Emerson KJ3001X1-BA1 12P0549X112?	The manufacturer instruction lists a 10 g half-sine shock for 11 ms.
What vibration limits apply to Emerson KJ3001X1-BA1 12P0549X112?	The sheet lists 1 mm peak-to-peak from 5 to 16 Hz and 0.5 g from 16 to 150 Hz.
Which contaminant classification is stated for Emerson KJ3001X1-BA1 12P0549X112?	The documented airborne-contaminant level is ISA-S71.04-1985 Class G3.
How should enclosure protection be assessed for Emerson KJ3001X1-BA1 12P0549X112?	The card is rated IP20 and the stated humidity limit is 5 to 95% non-condensing, so cabinet protection must preserve those conditions.
Does Emerson KJ3001X1-BA1 12P0549X112 have a field-calibration task?	No. The manufacturer states that the unit has no user-serviceable parts and requires no calibration.
How should the 12P0549X112 identifier be handled on Emerson KJ3001X1-BA1 12P0549X112?	Retain and compare the complete installed marking because the card-level instruction establishes KJ3001X1-BA1 ratings but does not decode every secondary order-number revision.

DECISION RECORD

Confirm the complete KJ3001X1-BA1 12P0549X112 nameplate, installed terminal block, wiring diagram, field power and DeltaV cabinet record before removal, replacement or energization.

STEP 1

Record the complete Emerson KJ3001X1-BA1 12P0549X112 marking and cabinet position.

STEP 2

Apply the approved safe-work and electrical isolation procedure.

STEP 3

Remove field power before connecting or disconnecting the device.

STEP 4

Verify the LocalBus and field-circuit ratings against the project drawing.

STEP 5

Set the terminal-block rotary key to the manufacturer-documented position.

STEP 6

Inspect the card, carrier, connector and field wiring before insertion.

STEP 7

Check channel states, controller diagnostics and affected loop response.

STEP 8

Record the as-left configuration and acceptance results before release.

MANUFACTURER SOURCE

Emerson Process Management ATEX Instruction Sheet D803021X012, KJ3001X1-BA1, February 2003

Related Emerson catalog pages

Browse related automation products. These links do not establish interchangeability.

Emerson KJ3001X1-BH1 12P0558X152 View product

Emerson KJ3002X1-BB1 12P0683X082 View product

Emerson KJ3002X1-BG2 12P1731X062 View product

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