DI, 8-channel, 24 VDC isolated card

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.

- Eight isolated 24 VDC discrete-input channels
- 12 VDC LocalBus electronics supply
- Rotary-keyed I/O terminal-block interface
- 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

SYSTEM POSITION

The card occupies a keyed DeltaV I/O position between the LocalBus and the documented field circuit. Engineering acceptance depends on the exact KJ3001X1-BA1 12P0549X112 marking, the matching terminal-block key, approved field wiring and the installed DeltaV hardware record.

IDENTITY HOLD POINT

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

INTEGRATION RECORD

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.

DOCUMENT CONTROL

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

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

ENGINEERING NOTE

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.

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.

COMMISSIONING ACCEPTANCE

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.

RELEASE RECORD

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

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 KJ2201X1-BA1	View product
Emerson KJ3001X1-BB1 12P0550X142	View product
Emerson KJ3001X1-BC1 12P0551X132 VE4001S3T1B1	View product

RELEASE BOUNDARY

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

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