Emerson KJ3001X1-BJ1 12P0555X152 is a DeltaV DO, 8-channel, 24 VDC high-side 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 24 VDC high-side discrete outputs

02

12 VDC LocalBus electronics supply

03

Bussed field power for the output group

04

Rotary-keyed B6 terminal-block interface

Field circuit

Documented signals and field power

KJ3001X1-BJ1 12P0555X152

DO, 8-channel, 24 VDC high-side card

DeltaV LocalBus

Controller communication and diagnostics

APPLICATION BOUNDARY

Confirm the complete KJ3001X1-BJ1 12P0555X152 nameplate, installed terminal block, wiring diagram, field power and DeltaV cabinet record before removal, replacement or energization.

Card function	DO, 8-channel, 24 VDC, high side
LocalBus power	12 VDC at 150 mA
Bussed field power	60 VDC maximum; 24 VDC nominal; 6 A per card
Field circuit	60 VDC at 1.5 A per channel; 6 A maximum per card
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	B6
Maintenance	No user-serviceable parts; no calibration

CONFIGURATION CHECK

The high-side card uses shared bussed field power; verify both the per-channel limit and the total card-current limit before commissioning outputs. The complete 12P0555X152 marking is retained as supplied; the card-level manufacturer data establishes the KJ3001X1-BJ1 function and limits.

DELTAV PROCESS I/O

Use the do, 8-channel, 24 vdc high-side 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-BJ1 12P0555X152 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.

How does Emerson KJ3001X1-BJ1 12P0555X152 switch its eight outputs?	It is a 24 VDC high-side discrete-output card using shared bussed field power.
What bussed field-power boundary applies to Emerson KJ3001X1-BJ1 12P0555X152?	The documented boundary is 60 VDC maximum, 24 VDC nominal and 6 A maximum per card.
What channel-current limit applies to Emerson KJ3001X1-BJ1 12P0555X152?	The field circuit is limited to 60 VDC at 1.5 A per channel while the entire card remains within 6 A.
Which terminal-block key prevents a mismatch for Emerson KJ3001X1-BJ1 12P0555X152?	The manufacturer data identifies rotary-key position B6.
Why must both channel and total current be checked on Emerson KJ3001X1-BJ1 12P0555X152?	The shared high-side field supply has both a per-channel limit and a total card-current limit, so satisfying only one does not establish acceptance.
What ambient range is listed for Emerson KJ3001X1-BJ1 12P0555X152?	The documented operating ambient is 0 to +60 degrees C with 5 to 95% non-condensing humidity.
What proves Emerson KJ3001X1-BJ1 12P0555X152 is ready after replacement?	Verify B6 keying, bussed field power, per-channel and total current, channel states and DeltaV controller diagnostics before release.

DECISION RECORD

Confirm the complete KJ3001X1-BJ1 12P0555X152 nameplate, installed terminal block, wiring diagram, field power and DeltaV cabinet record before removal, replacement or energization.

STEP 1

Record the complete Emerson KJ3001X1-BJ1 12P0555X152 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 DeltaV M-series hardware / ATEX instruction data for KJ3001X1-BJ1 DO 24 VDC High-Side card

Related Emerson catalog pages

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

Emerson 1X00781H01L	View product
Emerson 1X01046H01L	View product
Emerson 8752-CA-NS-02	View product

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