

Emerson KJ3202X1-BA1 12P2536X042

24 V DC High-Side Digital Output Module

Product scope

- Sources 24 V DC power to eight DeltaV field-output channels.
- Limits each field circuit to one ampere and the complete card to three amperes.
- Uses Series 2 B6 keying to align the module with its intended carrier position.

Manufacturer source

Exact-model technical record

Verified model-specific overview, function, operating principle, applications and technical data.

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Emerson KJ3202X1-BA1 12P2536X042

24 V DC High-Side Digital Output Module

Product overview

Emerson KJ3202X1-BA1 12P2536X042 is a DeltaV Series 2 high-side discrete output module for 24 V DC field loads. The Rev. E unit uses B6 mechanical keying and distributes up to 3 A across its eight-channel card.

KJ3202X1-BA1 12P2536X042 is identified on the exact unit as a 24 V high-side Series 2 output card. LocalBus electronics draw 150 mA at 12 V DC, while the bussed field supply is nominally 24 V DC and limited to 3 A per card.

Eight channels source positive field voltage to connected loads and switch the return path through the common wiring arrangement shown on the module. Individual field circuits are rated to one ampere, subject to the lower three-ampere aggregate limit.

B6 keying, terminal block, carrier type and field-power source must match the installed DeltaV node. The 12P2536X042 part number is distinct from other KJ3202X1-BA1 output variants and must not be replaced on the family code alone.

Technical specifications

Output type	24 V DC high-side, Series 2
Output channels	8
LocalBus supply	12 V DC
LocalBus current	150 mA
Bussed field voltage	30 V DC maximum, 24 V DC nominal
Bussed field current	3.0 A per card
Field circuit voltage	30 V DC maximum
Field circuit current	1.0 A per channel
Card aggregate current	3.0 A
Mechanical key position	B6
Series	Series 2
Documented drawing	12P1293
Hardware revision on supplied unit	Rev. E
Operating ambient	-40 to 70 °C
Hazardous-location marking	Class I Division 2 / ATEX Zone 2 markings on unit
Country marking	Made in Thailand

KJ3202X1-BA1 12P2536X042 function and operating principle

Ordered configuration

The exact supplied unit is part 12P2536X042, Rev. E, rather than another KJ3202X1-BA1 suffix.

System role

It converts DeltaV output commands into high-side DC switching for field actuators.

Selection and installation

Field-power distribution and keying must be checked together because a physically similar module can use different terminals or channel behavior.

Functional path

- Sources 24 V DC power to eight DeltaV field-output channels.
- Limits each field circuit to one ampere and the complete card to three amperes.
- Uses Series 2 B6 keying to align the module with its intended carrier position.

Application scenarios

- Process plants use the outputs for solenoid valves, interposing relays and low-current DC actuators.
- Batch systems switch eight discrete devices while retaining channel commands in the DeltaV control strategy.
- Hazardous-area control cabinets use the certified module arrangement when all carrier and installation conditions are satisfied.

KJ3202X1-BA1 12P2536X042 engineering checks

Protection

- The card-wide field-power limit is three amperes even though an individual channel can switch one ampere.
- External load suppression and branch protection remain necessary for inductive field devices.
- Key position B6 helps prevent insertion into an incompatible terminal arrangement.

Compatibility

- The module belongs to the DeltaV Series 2 high-side discrete output family.
- Part 12P2536X042, carrier, terminal block and B6 keying must all agree.
- Other KJ3202X1-BA1 part-number suffixes require separate comparison before substitution.

Certifications & Standards

- The supplied unit carries Class I Division 2 and ATEX Zone 2 markings.
- Hazardous-location use depends on the complete certified DeltaV assembly and field-wiring practice.
- Installation information is referenced by drawing 12P1293 on the module label.

Critical technical note

Verify B6 keying and isolate bussed field power before removing KJ3202X1-BA1 12P2536X042; the carrier can remain energized on the LocalBus side.

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