

Product dashboard

Emerson KJ2003X1-BB1 12P3439X012 is an MD Plus controller with a documented LocalBus power rating of +5 V DC at 1.4 A. It must be de-energized before removal or insertion and contains no user-serviceable parts.

Exact model

KJ2003X1-BB1
12P3439X012

Product type

DeltaV MD Plus Controller

System family

DeltaV Controller
Hardware

Functional role

MD Plus Controller

PARAMETER	DOCUMENTED VALUE
Exact model	KJ2003X1-BB1 12P3439X012
Controller type	MD Plus Controller
Platform	DeltaV
LocalBus power	+5 V DC at 1.4 A
Ambient temperature	-40 to +70 °C
Relative humidity	5 to 95%, non-condensing
Shock	10 g half-sine wave for 11 ms
Vibration	1 mm peak-to-peak from 5 to 16 Hz; 0.5 g from 16 to 150 Hz

Release basis: verify the exact identity, retained host relationship, connected interfaces and controlled functional result.

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KJ2003X1-BB1 12P3439X012

System overview

KJ2003X1-BB1 12P3439X012 is the controller boundary for configured process logic and networked I/O, making project backup, node identity and controlled restart central to replacement work.

- Exact-position replacement**

Matches KJ2003X1-BB1 12P3439X012 to the recorded host, position and companion hardware before changeout.
- Interface restoration**

Rebuilds the documented power, signal, keying and protective interfaces for KJ2003X1-BB1 12P3439X012.
- Configuration-controlled service**

Restores assignments and settings from the approved record instead of borrowing them from a neighboring device.
- Acceptance and handover**

Confirms diagnostics and a controlled functional response from KJ2003X1-BB1 12P3439X012 before release.

SYSTEM POSITION	RECORD
Installed identity	KJ2003X1-BB1 12P3439X012
Host relationship	DeltaV Controller Hardware
Controlled function	execution of configured DeltaV control logic and communication with documented system nodes

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Technical data map

PARAMETER	VERIFIED VALUE
Exact model	KJ2003X1-BB1 12P3439X012
Controller type	MD Plus Controller
Platform	DeltaV
LocalBus power	+5 V DC at 1.4 A
Ambient temperature	-40 to +70 °C
Relative humidity	5 to 95%, non-condensing
Shock	10 g half-sine wave for 11 ms
Vibration	1 mm peak-to-peak from 5 to 16 Hz; 0.5 g from 16 to 150 Hz
Removal / insertion	Not permitted with system power energized
Calibration	Not required
Serviceability	No user-serviceable parts
Network boundary	Connected control network limited to documented safe potential

CONTROL BAND	VERIFICATION RECORD
Identity	Exact model and complete label
Mechanical	Form, seating and retention
Interfaces	Power, wiring, communication and protection
Configuration	Settings, project and revision
Release	execution of configured DeltaV control logic and communication with documented system nodes

Technical evidence record: Emerson-authored KJ2003X1-BB1 MD Plus Controller instruction sheet

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Applications and precautions

1

Confirm the complete KJ2003X1-BB1 12P3439X012 marking and documented hardware role before work.

2

Place the connected process and controller hardware in the approved maintenance state.

3

Record the host position, companion parts, cable direction, terminal assignments and active configuration.

4

Isolate every documented power, signal and stored-energy source before disconnecting hardware.

5

Protect keyed connectors, electronic contacts and labeled field conductors during handling.

6

Restore only the recorded power, wiring, grounding, shielding and configuration arrangement.

7

Energize in a controlled sequence and review device, carrier, controller and field diagnostics.

8

Function-test execution of configured DeltaV control logic and communication with documented system nodes and retain the acceptance record before service release.

Complete each check against the installed record; hold release when any identity, connection, configuration or diagnostic result differs.

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Buyer and engineering FAQ

How should an engineer verify KJ2003X1-BB1 12P3439X012 against the host drawing?

KJ2003X1-BB1 12P3439X012 is documented for execution of configured DeltaV control logic and communication with documented system nodes.

Which measurement or output path is served by KJ2003X1-BB1 12P3439X012?

Match the entire model string, the installed position, keying, terminal hardware and approved system record before changeout.

What prevents a look-alike unit from replacing KJ2003X1-BB1 12P3439X012 without review?

The verified value for platform is DeltaV.

What plant function is assigned to KJ2003X1-BB1 12P3439X012?

Its function depends on the documented receiving position and connected hardware; similar appearance does not establish interchangeability.

Related Apter Power pages

[Emerson PR6423/003-130 CON021](#)

[Emerson KJ2005X1-BK1 12P4688X052 SE3007](#)

[Emerson PR9268/601-000](#)

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