

Emerson

KJ2003X1-BB1 12P3439X012

DeltaV MD Plus Controller

This reference defines the engineering boundary of KJ2003X1-BB1 12P3439X012 using manufacturer-authored technical evidence and the exact supplied identity.

System position

Exact identity KJ2003X1-BB1 12P3439X012	System family DeltaV Controller Hardware	Functional role MD Plus Controller	Release basis Recorded test and diagnostics
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Control the identity boundary

Treat KJ2003X1-BB1 12P3439X012, its documented DeltaV MD Plus Controller role and the receiving DeltaV Controller Hardware position as one controlled identity.

IDENTITY / RESOURCE	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

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

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Interfaces and integration

Trace the installed signal path

Integration review proceeds through mechanical, electrical, configuration and diagnostic interfaces before a replacement decision is released.

Exact model	KJ2003X1-BB1 12P3439X012
Controller type	MD Plus Controller
Platform	DeltaV

Define the receiving position

The host review links the physical slot, companion hardware and retained engineering revision to the offered item.

Host	DeltaV Controller Hardware
Primary role	execution of configured DeltaV control logic and
Acceptance	Recorded diagnostic response

Interface control matrix

CONTROL BAND	VERIFICATION RECORD
Identity	Model, designation and complete label
Mechanical	Position, seating and retention
Electrical	Loop supply and field conductors
Processing	Range, limits and correction
Supervision	Supply, range and wire-break states
Release	Controlled test with retained result

Configuration ownership

Keep assigned channel values under the approved project record.

Acceptance ownership

Name the retained result that authorizes handover of the measurement path.

Technical resource bands

Only capabilities tied to the exact execution appear here; operating assignments remain configuration-controlled.

PARAMETER	VALUE
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PARAMETER	VALUE
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
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

Label decision

Accept the stated part number only when the complete installed identity agrees.

Circuit decision

Confirm the recorded field-circuit arrangement before reconnecting any loop.

Processing decision

Restore channel processing from the approved project rather than a neighboring position.

Evidence decision

Use diagnostic observations and a controlled response to support final handover.

Engineering boundary

A similar faceplate or matching channel total does not prove interchangeability. Resolve the host position, connection scheme and controlled revision before use.

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Controls and service logic

Identity control

Preserves the complete KJ2003X1-BB1 12P3439X012 execution.

Host integration

Matches the installed DeltaV Controller Hardware position.

Interface control

Retains power, signal, keying and protective connections.

Release control

Uses diagnostics and a functional test to close the work.

Service decision path

STEP	REQUIRED OUTCOME
1. Identify	Resolve label, designation and receiving position
2. Compare	Review circuit type, processing and supervision
3. Restore	Rebuild the recorded connection and configuration state
4. Demonstrate	Retain diagnostic and functional acceptance evidence

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Engineering decisions

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.

How should the complete identity of KJ2003X1-BB1 12P3439X012 be checked before replacement?

Record the full label, host position, wiring, connected devices, active settings and as-found diagnostics before isolation.

Which documented value governs KJ2003X1-BB1 12P3439X012 vibration?

Restore the documented interfaces, review diagnostics and functionally verify execution of configured DeltaV control logic and communication with documented

Related Apter Power pages

[Emerson KJ3001X1-BH1 12P0558X152](#)

[Emerson KC3011X1-BA1 12P6749X042](#)

[Emerson KC3010X1-BA1 12P6762X062](#)

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