KJ2003X1-BB1 12P3439X012 VE3006

Emerson / DeltaV MD Plus controller

Emerson KJ2003X1-BB1 12P3439X012 VE3006 is offered as an MD Plus controller for a DeltaV M-series control system.

Product identity and system role

The KJ2003X1-BB1 12P3439X012 VE3006 controller executes the configured control strategy within its DeltaV node. It coordinates assigned I/O and exchanges controller information across the engineered control network; available functions depend on the loaded project and host system.

Emerson identifies VE3006 as an MD Plus controller catalog reference. The KJ2003X1-BB1 and 12P3439X012 physical markings identify the offered controller. Compare its hardware revision, firmware and carrier arrangement with the installed unit before treating another MD Plus execution as a direct replacement.

Verified technical characteristics

Controller family	DeltaV M-series
Controller class	MD Plus
Physical model	KJ2003X1-BB1
Part number	12P3439X012
System role	Controller execution in a configured DeltaV node
Catalog controller reference	VE3006

Engineering context

Continuous process control

Execute configured regulatory and sequence logic for a DeltaV process unit.

I/O coordination

Exchange data with assigned M-series I/O cards through the approved carrier and system network.

Controller restoration

Restore a matching MD Plus controller while preserving project version, I/O mapping and process state.

Redundancy planning

Use an approved partner arrangement where the installed DeltaV design supports controller redundancy.

Configuration and verification

Match the controller marking: Compare the full KJ2003X1-BB1 12P3439X012 VE3006 and revision with the installed controller.

Back up the project: Preserve the application, I/O map, network identity and firmware record.

Review the carrier: Check slot, power and network connections against the existing cabinet.

Plan the process state: Use the site change procedure to maintain approved operating and safety conditions.

Selected engineering questions

How should the control strategy be preserved before replacing KJ2003X1-BB1 12P3439X012 VE3006?
Save the approved configuration and record the installed download, firmware and controller identity.

What should be checked if KJ2003X1-BB1 12P3439X012 VE3006 does not recognize assigned I/O?
Compare carrier and bus connections, node configuration, I/O map, firmware support and controller diagnostics.

Can KJ2003X1-BB1 12P3439X012 VE3006 replace another MD Plus controller solely by matching the family name?
No. Compare physical marking, revision, firmware, carrier, network and approved project compatibility.

How should network identity be restored on KJ2003X1-BB1 12P3439X012 VE3006?
Use the approved DeltaV commissioning procedure and preserve the original node and controller assignment.

What is the effect of loading the wrong project into KJ2003X1-BB1 12P3439X012 VE3006?
I/O mapping or control logic may differ. Verify the exact approved project and change record before enabling control.

How is a redundant partner checked after fitting KJ2003X1-BB1 12P3439X012 VE3006?
Confirm partner recognition, synchronization state and the approved switchover test where redundancy is installed.

What operating evidence is useful when KJ2003X1-BB1 12P3439X012 VE3006 is diagnosed?
Capture controller diagnostic events, communication status, I/O health and the affected process behavior.

What must be included in final acceptance for KJ2003X1-BB1 12P3439X012 VE3006?
Verify controller health, the intended application, each affected I/O path and the site handover record.

Source and application boundary

Emerson DeltaV stock list, 121015. Emerson DeltaV M-series controller product information.

VE3006 is the documented MD Plus catalog reference; compare it to the physical KJ2003X1-BB1 / 12P3439X012 marking and the installed system before ordering.

Related product references

Separate product listings for project review; confirm each order code and system fit independently.

Emerson KJ1501X1-BC1 12P2186X032 VE5008	Emerson KJ2003X1-BB1 12P3439X012
Emerson KJ3002X1-BA1 12P0680X072 VE4003S2B2	Emerson KJ3002X1-BF1 12P1732X082 VE4003S6B1
Emerson KJ3203X1-BA1 12P3270X042 VE4001S2T2B4	Emerson KJ3221X1-BA1 12P2531X102
Emerson KJ3221X1-BA1 12P2531X102 VE4035S2B1	Emerson KJ3222X1-BA1 12P2532X072 VE4033S2B1

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Send the complete model and installed-system details when requesting a quotation.