KJ3243X1-BK1 SE4022 12P4691X042

Emerson / DeltaV S-series PROFIBUS DP interface card

Emerson KJ3243X1-BK1 SE4022 12P4691X042 identifies an S-series PROFIBUS DP interface card offered for a DeltaV I/O installation.

Product identity and system role

The card forms the controller-side communication interface for a PROFIBUS DP segment. In an engineered DeltaV system, the interface exchanges configured process data with compatible field devices through the installed bus arrangement; device capability and cyclic data mapping remain part of the host configuration.

SE4022 is the documented simplex PROFIBUS DP I/O interface assembly with a termination block. The complete KJ3243X1-BK1 and 12P4691X042 markings should be matched to the installed card and the associated termination hardware. A matching communication standard does not by itself establish revision or carrier interchangeability.

Verified technical characteristics

Interface role	PROFIBUS DP I/O communication
DeltaV series	S-series
Catalog assembly reference	SE4022
Catalog assembly format	Simplex I/O interface with termination block
Fieldbus family	PROFIBUS DP
Card identity	KJ3243X1-BK1
Additional marking	12P4691X042
Host dependency	Compatible DeltaV controller, carrier and software configuration

Engineering context

DeltaV PROFIBUS DP segment

Connect an approved PROFIBUS DP device segment to the configured DeltaV I/O subsystem.

Distributed field I/O

Exchange cyclic process data with compatible remote I/O nodes whose device descriptions and mapping are installed in the control project.

Drive communication

Integrate a PROFIBUS DP drive only when its profile, diagnostics and control-word mapping are supported by the project.

Segment replacement

Restore the same interface role in a verified carrier and termination arrangement while preserving device addresses and configuration.

Configuration and verification

Mark the complete card: Read KJ3243X1-BK1, SE4022 and 12P4691X042 on the offered and installed hardware.

Record the segment: Capture each node address, device file and cyclic data map before changing the interface.

Review termination: Check the installed termination block, cable shield and segment-end termination.

Protect the electronics: Isolate the affected system and use approved electrostatic-discharge handling.

Selected engineering questions

How should the PROFIBUS DP address plan be preserved when replacing KJ3243X1-BK1 SE4022 12P4691X042?
Record the station addresses and device descriptions in the DeltaV project before removal; restore the approved configuration rather than accepting a default scan.

Can KJ3243X1-BK1 SE4022 12P4691X042 be exchanged with a different S-series interface solely because both use PROFIBUS DP?
No. Match the card marking, carrier, termination block and supported host software before substitution.

What is the role of the termination block paired with KJ3243X1-BK1 SE4022 12P4691X042?
It provides the field-side connection for the documented SE4022 simplex interface assembly. Confirm the actual part and wiring in the installed system.

What should be checked if a device remains offline after KJ3243X1-BK1 SE4022 12P4691X042 is fitted?
Compare bus power, address, cable continuity, termination, device description and interface diagnostics with the pre-service record.

Does KJ3243X1-BK1 SE4022 12P4691X042 by itself define the permissible PROFIBUS cable length?
No single cable limit for this complete marking has been established here. Segment length depends on baud rate, cable type, repeaters and the approved bus design.

How should a drive connected through KJ3243X1-BK1 SE4022 12P4691X042 be recommissioned?
Compare profile selection, control and status word mapping, scaling and the required safe-state behavior with the original DeltaV configuration.

Source and application boundary

Emerson DeltaV stock list, 121015, identifies SE4022 as a simplex PROFIBUS DP I/O interface with termination block; Emerson AMS Device Manager 12.0 Installation Guide describes S-series PROFIBUS DP system support.

The SE4022 description is an Emerson assembly-level reference. Electrical and revision details for the complete offered markings are confirmed against the physical card and host configuration.

Related product references

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

Emerson KJ3221X1-BA1 12P2531X122 VE4003S2B2	Emerson KJ3003X1-EA1
Emerson KJ3241X1-BA1 12P2506X032	Emerson KJ3222X1-BA1 12P2532X122 VE4033S2B1

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