KJ3007X1-EA1-12P2413X032

01 / Product identity and control context

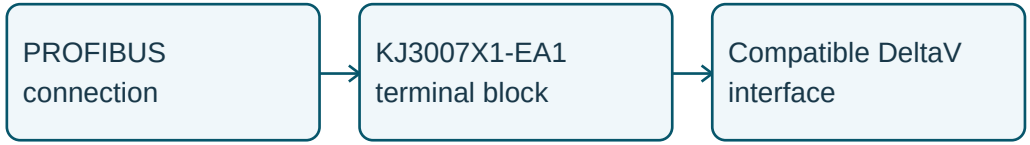
PROFIBUS Terminal Block

Emerson KJ3007X1-EA1-12P2413X032 is offered as a PROFIBUS terminal block for a DeltaV installation. Match the complete assembly marking and installed interface before replacement.

Key characteristics

Product type	PROFIBUS terminal block
System family	DeltaV
Input rating	5 V DC at 100 mA
Service method	De-energized insertion and removal

Functional relationship



Complete identity

Compare KJ3007X1-EA1-12P2413X032, revision and terminal arrangement with the installed assembly.

Configuration boundary

These ratings apply to the KJ3007X1-EA1 terminal-block design. Match the complete KJ3007X1-EA1-12P2413X032 assembly marking, revision and installed interface before applying these limits; approvals depend on the marked unit and installation.

Product and installation enquiries

sales13@apterpower.com | +86 18030235313

Apply manufacturer instructions and approved site procedures.

KJ3007X1-EA1-12P2413X032

02 / Technical characteristics

Hardware and functional data

Product type	PROFIBUS terminal block
Reference design	KJ3007X1-EA1
System family	DeltaV
Input power	5 V DC at 100 mA
Ambient temperature	-40 to +70 °C
Relative humidity	5 to 95%, non-condensing
Shock	10 g half-sine, 11 ms

Interfaces and operating conditions

Low-frequency vibration	1 mm peak-to-peak, 2 to 13.2 Hz
High-frequency vibration	0.7 g, 13.2 to 150 Hz
Airborne contaminants	ISA-S71.04-1985 Class G3
Insertion and removal	System power must be de-energized
Calibration	Not required
Field service	No user-serviceable parts; do not disassemble

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03 / Application and integration contexts

PROFIBUS interface connections

Use the terminal block at its matching DeltaV interface. Compare the complete marking and terminal arrangement before reconnecting the field network.

Control cabinet integration

Allow for the terminal-block ambient rating of -40 to +70 °C and non-condensing humidity. Assess the enclosure and adjacent equipment separately.

Power boundary

The reference input rating is 5 V DC at 100 mA. De-energize system power before inserting or removing the block.

Mechanical environment review

Assess both low-frequency displacement and higher-frequency acceleration. The separate vibration bands prevent one rating being applied across the entire frequency range.

Hazardous-area replacement

Match the marked approval and site requirements before service. System power must be de-energized for terminal-block removal and insertion.

Environmental fit

Confirm non-condensing humidity and the installation temperature against the -40 to +70 °C terminal-block rating.

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04 / Installation and release decisions

Match the full assembly

Retain KJ3007X1-EA1-12P2413X032 and the revision in the maintenance record. Do not infer interchangeability from the terminal-block family alone.

Isolate system power

Do not insert or remove the block while system power is energized. Follow the approved isolation and return-to-service procedure.

Keep the unit assembled

There are no user-serviceable internal parts. Do not disassemble the terminal block or attempt an internal repair.

Control condensation

Maintain 5 to 95% relative humidity without condensation and assess cabinet conditions before energization.

Apply mechanical limits correctly

Use 1 mm peak-to-peak for 2 to 13.2 Hz and 0.7 g for 13.2 to 150 Hz; assess shock separately at 10 g for 11 ms.

Verify the actual approval

The installation must match the actual label and applicable hazardous-area requirements. A family reference does not certify every assembly or site configuration.

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05 / Lifecycle, evidence and related portfolio

Lifecycle status

The current manufacturing and service-support phase for KJ3007X1-EA1-12P2413X032 is unconfirmed. Obtain model-specific replacement and support guidance before planning long-term spares coverage.

Supply boundary

Apter Power availability and dispatch are confirmed separately from the manufacturer lifecycle phase.

Technical basis

Emerson KJ3007X1-EA1 ATEX Instruction Sheet, ATEX243, November 2021.

Related product references

Emerson KJ4001X1-BA3 12P3378X012 VE3051C0

Emerson KJ3222X1-BA1 12P2532X112 VE4003S2B2

Navigation only; no substitute or accessory compatibility is implied.

Offered-unit verification

Compare the complete label, connectors, mounting arrangement and applicable hardware/software revision. Confirm included components and accompanying documents in the quotation.

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