Emerson KJ3007X1-EA1 12P2413X052

DeltaV PROFIBUS Terminal Block



Emerson KJ3007X1-EA1 12P2413X052 is the PROFIBUS terminal-block component of a DeltaV communication assembly. It provides the field-connection hardware for the PROFIBUS interface and is the item to identify when the required spare is the terminal block associated with that communication function. The complete KJ type and 12P part number distinguish the physical component being supplied. Its role is to provide the connection point within the assembly; the associated communication card and system configuration determine the network operation.

Technical Specifications

Product Identity	
Product type	PROFIBUS terminal block
Control-system family	DeltaV
Functional Configuration	
Insertion and removal	De-energize the system before inserting or removing the PROFIBUS terminal block.
Performance & Power	
Input rating	5 VDC at 100 mA
Environment	
Ambient temperature	-40 to +70 °C
Relative humidity	5–95%, non-condensing
Airborne contaminants	ISA-S71.04-1985 Class G3
Shock	10 g half-sine, 11 ms
Vibration	1 mm peak-to-peak, 2–13.2 Hz; 0.7 g, 13.2–150 Hz

Selected original manufacturer material follows on page 3.

Compatibility & Selection Guide

System compatibility. For KJ3007X1-EA1 12P2413X052, match the terminal block to the installed DeltaV PROFIBUS assembly and its applicable Emerson hardware instructions. Confirm the full 12P suffix and hardware revision against the existing unit; the terminal block’s rating does not establish the communication card’s data rate, protocol options or replacement compatibility.

Wiring & Installation Reference

Rating and connection checks

Input rating · 5 VDC at 100 mA · Check the installed assembly against this rating

Terminal-block type · KJ3007X1-EA1 · Match the 12P suffix and label revision

System power · De-energized during insertion/removal · Do not disconnect an energized assembly

Terminal-block handling

1. Confirm the hardware Compare the KJ type, 12P part number, revision and associated PROFIBUS communication card with the existing installation.

2. Remove system power The manufacturer prohibits insertion or removal while system power is energized.

3. Follow the assembly instructions Use the applicable DeltaV hardware documentation for field wiring and hazardous-area requirements; do not infer terminal pin assignments from a similar block.

Installation precautions

Remove system power before inserting or removing this terminal block.

Use the specific DeltaV hazardous-area and installation instructions for the complete assembly.

The terminal block contains no user-serviceable parts and must not be disassembled.

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ATEX Instruction Sheet
Part Number: ATEX243
Publication date: November 2021

KJ3007X1-EA1 Profibus Terminal Block

Hazardous Atmosphere

II 3G Ex ec IIC Gc
FM18ATEX0076U
IECEx FMG 18.0030U
FM21UKEX0199U

CL. I Div. 2 GP. A,B,C,D
CL. I Zone 2 AEx/Ex ec IIC T4 Gc
FM18US0277U
FM19CA0005U

Power Specifications

Input Power Rating	5 VDC @ 100mA

Environmental Specifications

Ambient Temperature	-40 °C to +70 °C
Shock	10 g half-sine wave for 11 ms
Vibration	1 mm peak to peak from 2 to 13.2 Hz; 0.7 g from 13.2 to 150 Hz
Airborne Contaminants	ISA-S71.04 –1985 Airborne Contaminants Class G3
Relative Humidity	5 to 95% non-condensing

Note: Refer to the product label for serial number and location and date of manufacture.

Warning: This product has specific instructions for installation, removal and operation in hazardous areas. Refer to document 12P2046, *DeltaV™ Electronic Marshalling Digital Automation System (CHARM I/O Subsystem) Zone 2 Installation Instructions".* Other installation instructions are available in the *"DeltaV™ S-Series and CHARMs Hardware Installation"* manual.

Removal and Insertion

This unit cannot be removed or inserted with system power energized.

Maintenance and Adjustment

This unit contains no user-serviceable parts and should not be disassembled for any reason. Calibration is not required.

Other Safety Approvals

LR 108860