Emerson KJ4001X1-CA1 12P0623X093

DeltaV I/O Terminal Block



Emerson KJ4001X1-CA1 12P0623X093 is an I/O terminal block that provides the field-circuit connection component of a DeltaV I/O interface. It is used with the appropriate I/O card and carrier so that the plant's field connections have a defined termination point within the control-system assembly. The terminal block's electrical ratings and complete part identity are relevant to selecting the replacement; the associated I/O card determines the signal type and processing function. This product is supplied as terminal hardware within that matched assembly.

Technical Specifications

Product Identity	
Manufacturer	Emerson
Complete identification	KJ4001X1-CA1 12P0623X093
Product type	I/O Terminal Block
Control platform	DeltaV
Functional Configuration	
Powered removal / insertion	Not permitted
Calibration	Not required
Performance & Power	
Electrical rating	250 VAC or 60 VDC, 1 A per channel
Environment	
Ambient temperature	-40 to +70 °C; November 2021 instruction-sheet scope
Relative humidity	5 to 95%, noncondensing
Airborne contaminants	ISA-S71.04-1985 Class G3
Shock	10 g half-sine, 11 ms
Vibration	1 mm peak-to-peak, 2 to 13.2 Hz; 0.7 g, 13.2 to 150 Hz

Selected original manufacturer material follows on page 3.

Compatibility & Selection Guide

System compatibility. KJ4001X1-CA1 12P0623X093 belongs to the DeltaV hardware system. Emerson refers users to the applicable DeltaV hardware and Zone 2 documentation for the installation context. Confirm the receiving I/O card, terminal-block arrangement and required revision against the project documentation; the shared DeltaV name alone does not establish interchangeability.

Wiring & Installation Reference

Removal and installation

1. De-energize the system. Do not remove or insert this terminal block with system power energized.

2. Follow the applicable DeltaV instructions. Use the project wiring documentation and the manufacturer hardware and Zone 2 installation instructions.

Installation precautions

The terminal block contains no user-serviceable parts. Do not disassemble it.

Calibration is not required. Verify the actual equipment label and installation environment before commissioning.

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ATEX Instruction Sheet
Part Number: ATEX253
Publication date: November 2021

KJ4001X1-CA1 I/O Terminal Block

Hazardous Atmosphere

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

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

Power Specifications

Input Power Rating	250 VAC, 60 VDC @ 1 A /Ch.

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