

KJ3209X1-BA1 12P3905X012 VE4002S2T1B1

DeltaV 8-Channel 115/230 V AC Isolated Discrete Output Assembly

Emerson KJ3209X1-BA1 12P3905X012 VE4002S2T1B1 is a DeltaV eight-channel 115/230 V AC isolated discrete-output assembly. VE4002S2T1B1 uses the standard I/O termination block.

PRODUCT SNAPSHOT

BRAND
Emerson

FAMILY
DeltaV M-series Traditional I/O

PART
KJ3209X1-BA1 12P3905X012

DOCUMENT STATUS
Controlled engineering copy

APTER POWER

WHATSAPP / PHONE

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PRODUCT OVERVIEW

Emerson KJ3209X1-BA1 12P3905X012 VE4002S2T1B1 provides switching eight isolated 115/230 V AC field-output circuits through a standard terminal block in a documented DeltaV M-series Traditional I/O



Eight isolated AC outputs



20-250 V AC output range



Standard keyed terminal block



Discrete, momentary and pulse modes

RELATED APTER POWER PAGES

1

IS200TREA1A

2

IS200WREA1A

3

IS200TDBTH2ACD

4

IC200UDR005-BD

5

IS200VCMIH2BCD-IS215VCMIH2BC

6

IS200TDBTH2A

7

LOCON-24-0360-A32I

8

HE693THM884G

9

IC200ALG261

SYSTEM COMPONENTS

DOCUMENTED COMPONENT	ROLE IN SYSTEM
Proximity probe	Matched extension cable
Proximitor Sensor	AISI 4140 target

ENGINEERING CONTEXT

The component remains matched to its documented carrier position, keyed interfaces, field wiring and approved DeltaV configuration. Commissioning restores that architecture and verifies the affected function under controlled conditions.

TECHNICAL DATA

PARAMETER	VALUE
Current verified Emerson code	VE4002S2T1B1
I/O function	Discrete output
Channels	8
Field signal	115/230 V AC
Output range	20 to 250 V AC
Output rating per channel	1.0 A continuous
Maximum card load to 60 deg C	2.0 A

PARAMETER	VALUE
Maximum card load to 50 deg C	3.0 A
Off-state leakage at 120 V AC	2 mA maximum
Off-state leakage at 230 V AC	4 mA maximum
Isolation	250 V AC from system and between channels
LocalBus current	100 mA typical, 150 mA maximum
Termination block	Standard I/O termination block
Configurable modes	Discrete, momentary and continuous pulse output

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TECHNICAL NOTE

Install KJ3209X1-BA1 12P3905X012 VE4002S2T1B1 only in the documented DeltaV M-series Traditional I/O arrangement. Preserve identity, keying, wiring and configuration, then verify diagnostics and switching eight isolated 115/230 V AC field-output circuits through a standard terminal block under controlled conditions.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

AC solenoid control

Switches approved AC loads within the per-channel and total-card ratings.

Contactor-coil command

Controls documented 115 or 230 V AC coils through isolated channels.

Timed AC output

Applies the configured momentary or pulse behavior to validated loads.

AC output commissioning

Measures leakage and commanded load response on all eight channels.

PRODUCT PRECAUTIONS

1

Verify the complete KJ3209X1-BA1 12P3905X012 VE4002S2T1B1 identity and the documented DeltaV

2

Place the connected process and DeltaV hardware in the approved maintenance state.

3

Isolate every documented power, signal and stored-energy source before disconnecting hardware.

4

Record the installed carrier position, keyed interfaces, terminals, conductors and active configuration.

5

Use ESD controls and protect keyed connectors, electronic contacts and field wiring during handling.

6

Restore only the exact documented power, wiring, grounding, shielding and DeltaV configuration.

7

Energize in a controlled sequence and review device, carrier, controller and process diagnostics.

8

Function-test switching eight isolated 115/230 V AC field-output circuits through a standard terminal block

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ENGINEER FAQ

Q1 Which assembly function is confirmed for KJ3209X1-BA1 12P3905X012 VE4002S2T1B1?

VE4002S2T1B1 is the standard-termination assembly for eight isolated 115/230 V AC discrete outputs.

Q2 What output-voltage range applies to KJ3209X1-BA1 12P3905X012 VE4002S2T1B1?

The documented operating range is 20 to 250 V AC.

Q3 What is the continuous channel rating of KJ3209X1-BA1 12P3905X012 VE4002S2T1B1?

Each output channel is rated 1.0 A continuous, subject to the card-total temperature limits.

Q4 How does temperature limit KJ3209X1-BA1 12P3905X012 VE4002S2T1B1 total load?

The card maximum is 2.0 A through 60 deg C or 3.0 A through 50 deg C.

Q5 What off-state leakage must be considered for KJ3209X1-BA1 12P3905X012 VE4002S2T1B1?

Allow up to 2 mA at 120 V AC and 4 mA at 230 V AC.

Q6 How are KJ3209X1-BA1 12P3905X012 VE4002S2T1B1 outputs isolated?

Each channel is isolated from the system and other channels at 250 V AC.

Q7 Which termination style belongs to KJ3209X1-BA1 12P3905X012 VE4002S2T1B1?

The B1 suffix identifies the standard I/O termination block, not the fused B2 version.

Q8 What completes commissioning of KJ3209X1-BA1 12P3905X012 VE4002S2T1B1?

Verify keying, voltage class, total loading, leakage, timing mode and controlled operation of all assigned AC loads.

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SOURCE Emerson DeltaV M-series Traditional I/O product data sheet | Manufacturer evidence verified 29 September 2026

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