

KJ3001X1-BC1-12P0551X132-VE4001S3T1B1

DeltaV 8-Channel 120 V AC Isolated Discrete Input Assembly

Emerson KJ3001X1-BC1-12P0551X132-VE4001S3T1B1 is a DeltaV M-series eight-channel 120 V AC isolated discrete-input assembly. VE4001S3T1B1 uses the standard I/O termination block.

PRODUCT SNAPSHOT

BRAND
Emerson

FAMILY
DeltaV M-series Traditional I/O

PART
KJ3001X1-BC1-12P0551X132-VE4001S3T1B1

DOCUMENT STATUS
Controlled engineering copy

APTER POWER

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PRODUCT OVERVIEW

Emerson KJ3001X1-BC1-12P0551X132-VE4001S3T1B1 provides acquisition of eight isolated 120 V AC discrete field signals through a standard terminal block in a documented DeltaV M-series Traditional I/O



Eight isolated discrete inputs



120 V AC field signal



Standard keyed I/O termination block



ON and OFF detection ranges

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4 Siemens 6SL3120-2TE21-8AD0	5 Siemens 6SE7041-8EK85-0LA0	6 Siemens 6SE7035-1EJ84-1JC2
7 Siemens 6SE7090-0XX84-1CE0	8 Siemens 6SE7031-7HG84-1JC2	9 Siemens 6SE7031-7HG84-1JC1

SYSTEM COMPONENTS

DOCUMENTED COMPONENT	ROLE IN SYSTEM
Proximity probe	Matched extension cable
Proximitior 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	VE4001S3T1B1
Subsystem	DeltaV M-series Traditional I/O
I/O function	Discrete input
Number of channels	8
Nominal field signal	120 V AC
Input arrangement	Isolated
Termination block	Standard I/O termination block
Detection level for ON	84 to 130 V AC

PARAMETER	VALUE
Detection level for OFF	0 to 34 V AC
Input load	2 mA at 120 V AC
Input impedance	60 kOhm
LocalBus current	75 mA typical, 100 mA maximum at 12 V DC nominal
Field circuit power per card	None
Isolation	250 V AC from system and between channels
Operating temperature	-40 to +70 deg C
Protection rating	IP20

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TECHNICAL NOTE

Install KJ3001X1-BC1-12P0551X132-VE4001S3T1B1 only in the documented DeltaV M-series Traditional I/O arrangement. Preserve identity, keying, wiring and configuration, then verify diagnostics and acquisition of eight isolated 120 V AC discrete field signals through a standard terminal block under controlled conditions.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

AC status acquisition

Reads eight isolated 120 V AC states in the configured DeltaV station.

Motor-control feedback

Acquires contactor or starter status where the approved design uses 120 V AC.

Legacy M-series replacement

Retains the complete installed card and terminal-block identity.

Input-channel commissioning

Exercises all eight channels and checks diagnostics under controlled conditions.

PRODUCT PRECAUTIONS

1

Verify the complete KJ3001X1-BC1-12P0551X132-VE4001S3T1B1 identity

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 acquisition of eight isolated 120 V AC discrete field signals through a standard terminal block

RELATED APTER POWER PAGES

1

Siemens 6RY1803-0DB02

2

Siemens 6SL3200-0SP06-0AA0

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8

Siemens 6SE7031-7HG84-1JC2

9

Siemens 6SE7031-7HG84-1JC1

ENGINEER FAQ

Q1 Which DeltaV function is documented for KJ3001X1-BC1-12P0551X132-VE4001S3T1B1?

Emerson lists VE4001S3T1B1 as an eight-channel 120 V AC isolated discrete-input assembly.

Q2 How many inputs are available on KJ3001X1-BC1-12P0551X132-VE4001S3T1B1?

The verified configuration provides eight discrete-input channels.

Q3 Which ON threshold applies to KJ3001X1-BC1-12P0551X132-VE4001S3T1B1?

The documented ON range is 84 to 130 V AC.

Q4 Which OFF threshold applies to KJ3001X1-BC1-12P0551X132-VE4001S3T1B1?

The documented OFF range is 0 to 34 V AC.

Q5 How are the channels isolated on KJ3001X1-BC1-12P0551X132-VE4001S3T1B1?

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

Q6 Which terminal block belongs with KJ3001X1-BC1-12P0551X132-VE4001S3T1B1?

VE4001S3T1B1 identifies the standard I/O termination block for this function.

Q7 What LocalBus allowance is required for KJ3001X1-BC1-12P0551X132-VE4001S3T1B1?

Allow 75 mA typical and 100 mA maximum at 12 V DC nominal.

Q8 How should KJ3001X1-BC1-12P0551X132-VE4001S3T1B1 be accepted after work?

Verify keying, terminal assignments, diagnostics and controlled transitions on all eight 120 V AC input channels.

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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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