

INDUSTRIAL AUTOMATION PRODUCT

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.

CONTROLLED ENGINEERING COPY

IDENTITY	VERIFIED VALUE
Manufacturer	Emerson
System family	DeltaV M-series Traditional I/O
Part number	KJ3001X1-BC1-12P0551X132-VE4001S3T1B1
Document status	Controlled product and system reference

DOCUMENT SCOPE

Exact article identity, official technical data, host matching, installation checks, applications, precautions and controlled acceptance evidence.

MODEL-SPECIFIC ENGINEERING 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.

System Role and Architecture

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.

FUNCTION 1
Eight isolated discrete inputs

FUNCTION 2
120 V AC field signal

FUNCTION 3
Standard keyed I/O termination block

FUNCTION 4
ON and OFF detection ranges

RELATED APTER POWER PAGES

1 Siemens 6RY1243-0EA00

2 Siemens 6SE7027-2TD84-6HF3

3 Siemens 6RY1803-0AA25-0AA1

4 Siemens 6SE7035-1EJ84-1JC1

5 Siemens 6SE7033-7EG84-1JF1

6 Siemens 6SL3352-6TG38-8AA3

7 Siemens 6SE7041-2WL84-1JC1

8 Siemens 6SL3120-2TE21-8AC0

9 Siemens 6RY1803-1DA04

MATCHED SYSTEM COMPONENTS

NO.	DOCUMENTED COMPONENT / ROLE
01	DeltaV M-series Traditional I/O
02	Matched DeltaV M-series Traditional I/O carrier, host or field hardware
03	Documented power, signal, keyed termination and protective interfaces
04	Approved DeltaV configuration and acceptance record

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Host identity	DeltaV M-series Traditional I/O
Interface role	acquisition of eight isolated 120 V AC discrete field signals through a standard terminal block
Field / power context	documented DeltaV M-series Traditional I/O installation
Commissioning evidence	Identity, keying, wiring, diagnostics and controlled response recorded

INSTALLATION AND CONNECTION CHECKS

1 Verify the complete KJ3001X1-BC1-12P0551X132-VE4001S3T1B1 identity and the documented DeltaV 8-Channel 120 V AC Isolated Discrete Input

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.

Technical Specifications

Technical values below are limited to the named product record and directly applicable manufacturer documentation.

PARAMETER	VALUE	PARAMETER	VALUE
Current verified Emerson code	VE4001S3T1B1	Detection level for OFF	0 to 34 V AC
Subsystem	DeltaV M-series Traditional I/O	Input load	2 mA at 120 V AC
I/O function	Discrete input	Input impedance	60 kOhm
Number of channels	8	LocalBus current	75 mA typical, 100 mA maximum at 12 V DC nominal
Nominal field signal	120 V AC	Field circuit power per card	None
Input arrangement	Isolated	Isolation	250 V AC from system and between channels
Termination block	Standard I/O termination block	Operating temperature	-40 to +70 deg C
Detection level for ON	84 to 130 V AC	Protection rating	IP20

RELATED PRODUCT PAGES

1 Siemens 6GRY1243-0EA00

2 Siemens 6SE7027-2TD84-6HF3

3 Siemens 6GRY1803-0AA25-0AA1

4 Siemens 6SE7035-1EJ84-1JC1

5 Siemens 6SE7033-7EG84-1JF1

6 Siemens 6SL3352-6TG38-8AA3

7 Siemens 6SE7041-2WL84-1JC1

8 Siemens 6SL3120-2TE21-8AC0

9 Siemens 6GRY1803-1DA04

ENGINEERING BOUNDARY

Confirm KJ3001X1-BC1-12P0551X132-VE4001S3T1B1, its exact DeltaV M-series Traditional I/O host, installed position, keying, power, wiring, configuration and controlled acceptance evidence before release.

PRE-INSTALLATION CHECKS

- 1

Verify the complete KJ3001X1-BC1-12P0551X132-VE4001S3T1B1 identity and the documented DeltaV 8-Channel 120 V AC Isolated
- 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.

Applications and Engineering Context

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.

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.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	KJ3001X1-BC1-12P0551X132-VE4001S3T1B1 recorded
Host / carrier	DeltaV M-series Traditional I/O
Physical interface	Installed terminals, conductors and signal paths matched to the as-found record
Configuration	Approved hardware and DeltaV configuration restored
Functional proof	Controlled test confirms acquisition of eight isolated 120 V AC discrete field signals through a standard terminal block

IMPORTANT NOTICE

Confirm KJ3001X1-BC1-12P0551X132-VE4001S3T1B1, its exact DeltaV M-series Traditional I/O host, installed position, keying, power, wiring, configuration and controlled acceptance evidence before release.

Related Products and Source Record

Brand-qualified Apter Power navigation links are provided for system planning only; manufacturer evidence remains the named source record.

RELATED PRODUCTS ON APTER POWER

1

Siemens 6RY1243-0EA00

View Siemens 6RY1243-0EA00 page

2

Siemens 6SE7027-2TD84-6HF3

View Siemens 6SE7027-2TD84-6HF3 page

3

Siemens 6RY1803-0AA25-0AA1

View Siemens 6RY1803-0AA25-0AA1 page

4

Siemens 6SE7035-1EJ84-1JC1

View Siemens 6SE7035-1EJ84-1JC1 page

5

Siemens 6SE7033-7EG84-1JF1

View Siemens 6SE7033-7EG84-1JF1 page

6

Siemens 6SL3352-6TG38-8AA3

View Siemens 6SL3352-6TG38-8AA3 page

7

Siemens 6SE7041-2WL84-1JC1

View Siemens 6SE7041-2WL84-1JC1 page

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Siemens 6SL3120-2TE21-8AC0

View Siemens 6SL3120-2TE21-8AC0 page

9

Siemens 6RY1803-1DA04

View Siemens 6RY1803-1DA04 page

MANUFACTURER SOURCE RECORD

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

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RECOMMENDATION SCOPE

These links support product navigation and comparison. Technical values in this document are sourced only from the manufacturer record above.