

INDUSTRIAL AUTOMATION PRODUCT

IC694MDL645

RX3i 16-Point 24 VDC Digital Input Module

Emerson IC694MDL645 is a 16-point 24 VDC positive/negative-logic input module for RX3i systems. It provides a fixed 7 ms input response for standard discrete field signals.

CONTROLLED ENGINEERING COPY

IDENTITY	VERIFIED VALUE
Manufacturer	Emerson
System family	PACSystems RX3i I/O
Part number	IC694MDL645
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 IC694MDL645 only in the documented PACSystems RX3i I/O position. Preserve the as-found terminal, point and configuration records; then verify diagnostics and standard 24 VDC positive/negative-logic signal acquisition under controlled conditions.

System Role and Architecture

Emerson IC694MDL645 is a 16-point 24 VDC positive/negative-logic input module for RX3i systems. It provides a fixed 7 ms input response for standard discrete field signals.

FUNCTION 1
Exact catalog identity IC694MDL645

FUNCTION 2
RX3i 16-Point 24 VDC Digital Input Module

FUNCTION 3
Documented role: standard 24 VDC positive/negative-logic signal acquisition

FUNCTION 4
Controlled installation, diagnostics and functional verification

RELATED APTER POWER PAGES

1 General Electric IS215VPROH1BD

2 General Electric IS200VCMIH2CAA-IS215VCMIH2CA

3 General Electric IC200UDR005-DJ

4 General Electric A06B-6117-H209

5 General Electric PCIE-5565PIORC-100A00

6 General Electric A06B-6096-H106

7 General Electric A06B-6096-H104

8 General Electric A06B-6087-H155

9 General Electric HE693ADC415

MATCHED SYSTEM COMPONENTS

NO.	DOCUMENTED COMPONENT / ROLE
01	PACSystems RX3i I/O
02	Matched RX3i backplane, carrier or terminal block
03	Documented field wiring, commons, shields and point map
04	Approved controller project and acceptance record

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Host identity	PACSystems RX3i I/O
Interface role	standard 24 VDC positive/negative-logic signal acquisition
Field / power context	documented PACSystems RX3i backplane or distributed-I/O position
Commissioning evidence	Identity, electrical interfaces, configuration, diagnostics and controlled functional response recorded

INSTALLATION AND CONNECTION CHECKS

- 1

Confirm the complete IC694MDL645 marking, module designation and documented RX3i installation position.
- 2
- Place the controller, machine and connected process in the approved maintenance state.

3

4

Technical Specifications

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

PARAMETER	VALUE	PARAMETER	VALUE
Input points	16	Off response	7 ms
Input logic	Positive or negative logic	Backplane consumption	80 mA at 5 VDC
Nominal voltage	24 VDC	Field supply consumption	125 mA at 24 VDC
Input voltage range	20 to 30 VDC	Approvals	UL and Class I Division 2
On-state threshold	Greater than 11.5 VDC	CEP compatibility	Supported
On response	7 ms		

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ENGINEERING BOUNDARY

Confirm IC694MDL645, the complete RX3i host, hardware revision, slot, terminal block, field power, wiring, grounding, shielding, configuration, diagnostics and controlled acceptance evidence before release.

PRE-INSTALLATION CHECKS

- 1

Confirm the complete IC694MDL645 marking, module designation and documented RX3i installation position.
- 2

Place the controller, machine and connected process in the approved maintenance state.
- 3

Isolate controller and field power, prove the safe state and apply ESD controls before handling.
- 4

Record the slot, terminal block, every point assignment, common, shield and connected circuit before removal.

Applications and Engineering Context

PACSystems RX3i planned maintenance

Restores standard 24 VDC positive/negative-logic signal acquisition in the documented control architecture.

RX3i 16-Point 24 VDC Digital Input Module replacement

Uses exact IC694MDL645 identity instead of an adjacent I/O or CPU execution.

Control-system refurbishment

Preserves the installed slot, terminal block, point map, power and engineering configuration.

Controlled recommissioning

Confirms diagnostics and the affected signal or control function before automatic operation.

TECHNICAL NOTE

Install IC694MDL645 only in the documented PACSystems RX3i I/O position. Preserve the as-found terminal, point and configuration records; then verify diagnostics and standard 24 VDC positive/negative-logic signal acquisition under controlled conditions.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	IC694MDL645 recorded
Host / carrier	PACSystems RX3i I/O
Physical interface	Installed terminal assembly, field power and point assignments matched to the as-found record
Configuration	Approved hardware, firmware and engineering configuration restored
Functional proof	Controlled test confirms standard 24 VDC positive/negative-logic signal acquisition

IMPORTANT NOTICE

Confirm IC694MDL645, the complete RX3i host, hardware revision, slot, terminal block, field power, wiring, grounding, shielding, configuration, diagnostics 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

General Electric IS215VPROH1BD

View General Electric IS215VPROH1BD page

2

General Electric IS200VCMIH2CAA-IS215VCMIH2CA

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General Electric HE693ADC415

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MANUFACTURER SOURCE RECORD

Emerson IC694MDL645 product record and RX3i CEP Manual | Emerson official product and PACSystems documentation, accessed 24 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.