

INDUSTRIAL AUTOMATION PRODUCT

IC694ALG223

RX3i 16-Channel Analog Current Input Module

Emerson IC694ALG223 is a 16-channel analog current input module for 0–20 mA and 4–20 mA signals. It provides 12-bit conversion for standard process-transmitter loops.

CONTROLLED ENGINEERING COPY

IDENTITY	VERIFIED VALUE
Manufacturer	Emerson
System family	PACSystems RX3i I/O
Part number	IC694ALG223
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 IC694ALG223 only in the documented PACSystems RX3i I/O position. Preserve the as-found terminal, point and configuration records; then verify diagnostics and multi-channel 0–20 mA and 4–20 mA process-signal acquisition under controlled conditions.

System Role and Architecture

Emerson IC694ALG223 is a 16-channel analog current input module for 0–20 mA and 4–20 mA signals. It provides 12-bit conversion for standard process-transmitter loops.

FUNCTION 1
Exact catalog identity IC694ALG223

FUNCTION 2
RX3i 16-Channel Analog Current Input Module

FUNCTION 3
Documented role: multi-channel 0–20 mA and 4–20 mA process-signal acquisition

FUNCTION 4
Controlled installation, diagnostics and functional verification

RELATED APTER POWER PAGES

1 General Electric DS200TCCAG1AJB

2 General Electric IS420UCSCH1A-G-V0-1-A

3 General Electric XMTC-62-11-0

4 General Electric IS200TREA1A

5 General Electric IS200WREA1A

6 General Electric IS200TDBTH2ACD

7 General Electric IC200UDR005-BD

8 General Electric IS200VCMIH2BCD-IS215VCMIH2BC

9 General Electric IS200TDBTH2A

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	multi-channel 0–20 mA and 4–20 mA process-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 IC694ALG223 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

Technical Specifications

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

PARAMETER	VALUE	PARAMETER	VALUE
Input channels	16	User supply consumption	65 mA at 24 VDC
Input ranges	0–20 mA and 4–20 mA	Approvals	UL and Class I Division 2
Resolution	12 bit	IPI	GFK-2655
Conversion time	13 ms	CEP compatibility	Supported
Backplane consumption	120 mA at 5 VDC		

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4 General Electric IS200TREA1A

5 General Electric IS200WREA1A

6 General Electric IS200TDBTH2ACD

7 General Electric IC200UDR005-BD

8 General Electric IS200VCMIH2BCD-IS215VCMIH2BC

9 General Electric IS200TDBTH2A

ENGINEERING BOUNDARY

Confirm IC694ALG223, 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 IC694ALG223 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 multi-channel 0–20 mA and 4–20 mA process-signal acquisition in the documented control architecture.

RX3i 16-Channel Analog Current Input Module replacement

Uses exact IC694ALG223 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 IC694ALG223 only in the documented PACSystems RX3i I/O position. Preserve the as-found terminal, point and configuration records; then verify diagnostics and multi-channel 0–20 mA and 4–20 mA process-signal acquisition under controlled conditions.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	IC694ALG223 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 multi-channel 0–20 mA and 4–20 mA process-signal acquisition

IMPORTANT NOTICE

Confirm IC694ALG223, 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 DS200TCCAG1AJB

View General Electric DS200TCCAG1AJB page

2

General Electric IS420UCSCH1A-G-V0-1-A

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General Electric IS200TREA1A

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MANUFACTURER SOURCE RECORD

Emerson IC694ALG223 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.