

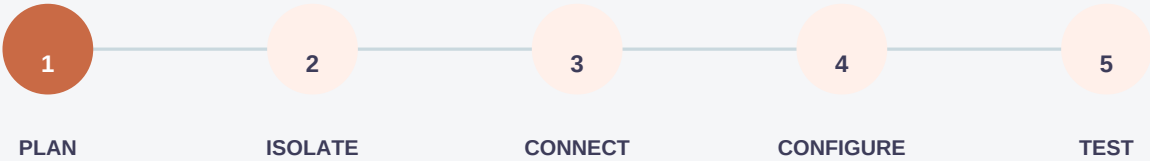
# IC694MDL645

## RX3i 16-Point 24 VDC Digital Input Module

CONTROLLED ENGINEERING COPY

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.

| INSTALLATION IDENTITY | REQUIRED VALUE                             |
|-----------------------|--------------------------------------------|
| Complete model        | IC694MDL645                                |
| Manufacturer          | Emerson                                    |
| System family         | PACSystems RX3i I/O                        |
| Record scope          | Installation, application and verification |



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# 01 PRE-INSTALLATION PLAN

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.

5

Verify the official electrical and configuration values documented for IC694MDL645; do not infer adjacent catalog executions.

## MATCHED HARDWARE

- IC694MDL645 with complete catalog identity
- Matched RX3i backplane or carrier
- Documented terminal block and field interfaces
- Approved project, diagnostics and acceptance record

## INSTALLATION CONTROL RECORD

| CONTROL ITEM       | REQUIRED RECORD                                                                               |
|--------------------|-----------------------------------------------------------------------------------------------|
| Identity           | IC694MDL645 recorded                                                                          |
| 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           |

## 02 WIRING & INTERFACE CHECKS

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

RELATED PRODUCT PAGES

1 General Electric A06B-6117-H209

2 General Electric PCIE-5565PIORC-100A00

3 General Electric A06B-6096-H106

4 General Electric A06B-6096-H104

5 General Electric A06B-6087-H155

6 General Electric HE693ADC415

7 General Electric IS215VPROH1BD

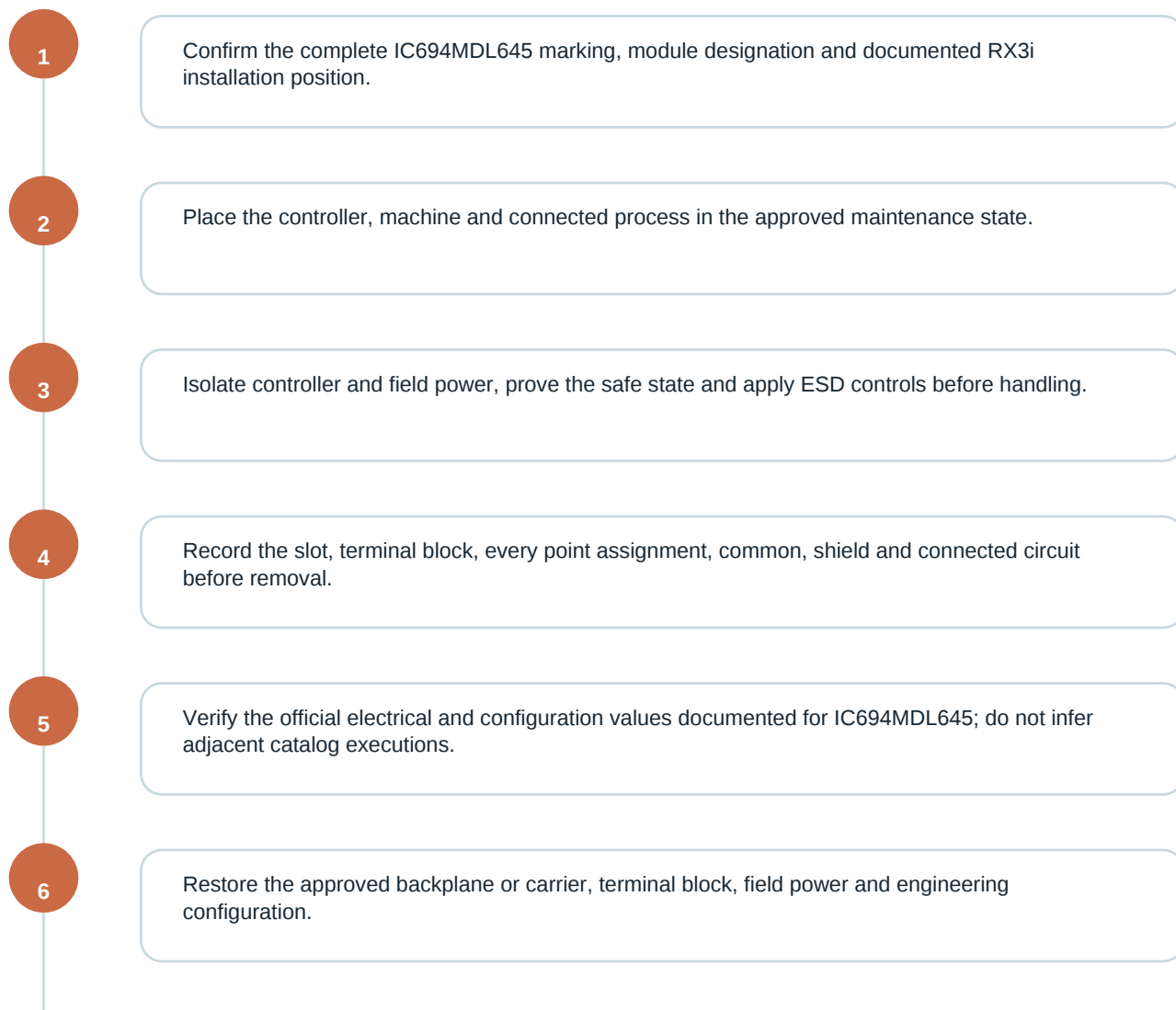
8 General Electric IS200VCMIH2CAA-IS215VCMIH2CA

9 General Electric IC200UDR005-DJ

### FIELD NOTE

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

## 03 COMMISSIONING WORKFLOW



### COMMISSIONING ACCEPTANCE EVIDENCE

| EVIDENCE ITEM      | ACCEPTANCE CONDITION                                                                          |
|--------------------|-----------------------------------------------------------------------------------------------|
| Identity           | IC694MDL645                                                                                   |
| 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           |

# 04 RETURN-TO-SERVICE RECORD

- ☐ Verify the official electrical and configuration values documented for IC694MDL645; do not infer adjacent catalog executions.
- ☐ Restore the approved backplane or carrier, terminal block, field power and engineering configuration.
- ☐ Energize in the manufacturer sequence and review CPU, bus, module and channel diagnostics.
- ☐ Complete a controlled signal, output or controller-response test before service release.

## VERIFICATION RECORD

|                     |                                                                     |
|---------------------|---------------------------------------------------------------------|
| PRODUCT IDENTITY    | IC694MDL645                                                         |
| INSTALLED POSITION  | Documented PACSystems RX3i slot or distributed-I/O carrier position |
| VERIFICATION METHOD | Controlled inspection and functional test                           |
| RELEASE RECORD      | Final diagnostic state retained before service                      |

## FUNCTIONAL ACCEPTANCE CHECKLIST

- ☐ Verify the official electrical and configuration values documented for IC694MDL645; do not infer adjacent catalog executions.
- ☐ Restore the approved backplane or carrier, terminal block, field power and engineering configuration.
- ☐ Energize in the manufacturer sequence and review CPU, bus, module and channel diagnostics.
- ☐ Complete a controlled signal, output or controller-response test before service release.

## SOURCE IDENTIFIERS

Emerson IC694MDL645 product record and RX3i CEP Manual | Emerson official product and PACSystems documentation, accessed 24 September 2026