

IC670MDL642

125 VDC Positive/Negative Input Module

GE IC670MDL642 is a 125 VDC Positive/Negative Input Module for the Field Control distributed I/O. It provides the documented field interface or control function in the configured system.

BRAND	General Electric	FAMILY	Field Control distributed I/O
PART	IC670MDL642	SYSTEM ROLE	Provides the documented 125 vdc positive/negative input module function

APTER POWER SALES
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WHATSAPP / PHONE
+86 180 3023 5313
EMAIL sales13@apterp
ower.com
WEBSITE
www.apterpower.com



IC670MDL642

MANUFACTURER SOURCE RECORD

Field Control Distributed I/O and Control System I/O Modules User's Manual
GFK-0826J, June 2002

Product Overview

SYSTEM FUNCTION

GE IC670MDL642 is a 125 VDC Positive/Negative Input Module for the Field Control distributed I/O. It provides the documented field interface or control function in the configured system.

FUNCTION 1

Provides the documented 125 vdc positive/negative input module function

FUNCTION 2

Uses exact catalog identity IC670MDL642 for replacement control

FUNCTION 3

Integrates with the matched Field Control distributed I/O hardware

FUNCTION 4

Supports controlled connection checks and functional verification

System Components

COMPONENT	DOCUMENTED ROLE
Host / carrier	Field Control distributed I/O
Primary interface	Provides the documented 125 vdc positive/negative input module function
Engineering context	The component is used with the exact terminal assembly, carrier, power grouping and bus configuration identified for IC670MDL642. Commissioning preserves the installed point map and verifies controlled field response.
Commissioning duty	Complete a controlled signal or load test before returning the station to service.

TECHNICAL NOTE

Install IC670MDL642 only in the documented Field Control distributed I/O position. Preserve the as-found terminal mapping and configuration, then verify diagnostics and the affected field function under controlled conditions.

Technical Data

PARAMETER	VALUE	PARAMETER	VALUE
Input points	16	Input impedance	40 kohm minimum
Input grouping	One group	On response	6 ms typical; 10 ms maximum
Rated voltage	125 V DC	Off response	6 ms typical; 20 ms maximum
Input voltage range	0 to 150 V DC	BIU current draw	77 mA maximum
Input current	2.5 mA per point at 125 V DC		

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IC670ALG320	product page	View IC670ALG320 page
IC670ALG310	product page	View IC670ALG310 page

ENGINEERING BOUNDARY

Confirm IC670MDL642, Field Control distributed I/O host, hardware revision, terminal or connector type, power and signal ranges, wiring, grounding, bus configuration, companion accessories and controlled commissioning results before service release.

Applications and Precautions

Common Applications

Field Control distributed I/O station maintenance

Restores the documented 125 vdc positive/negative input module function in an engineered station.

Distributed I/O refurbishment

Uses exact IC670MDL642 identity when rebuilding the recorded field interface.

Control-panel modernization

Preserves the approved terminal, power and communications arrangement during migration work.

Controlled recommissioning

Verifies point mapping, diagnostics and field response before process release.

Product Precautions

- 1

Confirm the full IC670MDL642 catalog marking and installed Field Control distributed I/O position before work.
- 2

Isolate the station supply and connected field energy using the approved procedure.
- 3

Record every terminal, common, shield, connector and configured point before removal.
- 4

Use ESD controls and protect backplane, terminal and connector contacts from contamination.
- 5

Verify each documented value for IC670MDL642 against the installed host and field circuit.
- 6

Restore the approved terminal assembly, power grouping and configuration record.
- 7

Energize in the prescribed sequence and review module, bus and point diagnostics.
- 8

Complete a controlled signal or load test before returning the station to service.

IMPORTANT NOTICE

Confirm IC670MDL642, Field Control distributed I/O host, hardware revision, terminal or connector type, power and signal ranges, wiring, grounding, bus configuration, companion accessories and controlled commissioning results before service release.

ACCEPTANCE CHECK	REQUIRED EVIDENCE
Identity	IC670MDL642
Configuration	Energize in the prescribed sequence and review module, bus and point diagnostics.
Functional release	Complete a controlled signal or load test before returning the station to service.

Engineer FAQ

Q1 How is IC670MDL642 identified?

Match the complete catalog number and the 125 VDC Positive/Negative Input Module designation.

Q3 What records are retained before removing IC670MDL642?

Record terminals, commons, shields, connectors, point mapping and diagnostics.

Q5 Which official values govern IC670MDL642?

Input points: 16; Input grouping: One group; Rated voltage: 125 V DC; Input voltage range: 0 to 150 V DC.

Q7 Which diagnostics follow IC670MDL642 energization?

Review module, bus and channel status in the prescribed startup sequence.

Q2 Which system accepts IC670MDL642?

Use the documented Field Control distributed I/O carrier, terminal and bus arrangement.

Q4 How is IC670MDL642 isolated safely?

Isolate station and field supplies, prove the safe state and apply ESD controls.

Q6 How is IC670MDL642 configuration restored?

Restore the approved hardware execution, power grouping and point map.

Q8 What releases IC670MDL642 to service?

A controlled signal or load test with the expected field response and no active diagnostic.

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