

IC670MDL642

125 VDC Positive/Negative Input Module

GE IC670MDL642 is the documented 125 VDC Positive/Negative Input Module for the Field Control distributed I/O.

IDENTITY	VERIFIED VALUE
Manufacturer	General Electric
System family	Field Control distributed I/O
Part number	IC670MDL642
Product role	Provides the documented 125 vdc positive/negative input module function
Lifecycle	Installed product record

DOCUMENT SCOPE

Exact-article identity, technical data, host role, installation checks, applications, precautions and engineering verification.

MODEL-SPECIFIC ENGINEERING 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.

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IC670MDL642

Technical Specifications

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

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		

Verified Product Record

DATA GROUP	VERIFIED VALUE
Installed host / carrier	Field Control distributed I/O
Primary system role	Provides the documented 125 vdc positive/negative input module function
Connection boundary	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.
Controlled acceptance duty	Field Control distributed I/O station maintenance

ENGINEERING BOUNDARY

Confirm IC670MDL642, host, terminals, power grouping, point map and controlled test results before release.

Pre-Installation Checks

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.

Documented Service Record

RECORD ITEM	REQUIRED ENTRY
As-found article	IC670MDL642
Installed host	Field Control distributed I/O
Connection record	Capture before removal
Controlled release	Diagnostics and functional proof

System Role and Architecture

GE IC670MDL642 is the documented 125 VDC Positive/Negative Input Module for the Field Control distributed I/O.

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

Matched System Components

NO.	DOCUMENTED COMPONENT / ROLE
1	Field Control distributed I/O
2	One group
3	Field Control distributed I/O station maintenance
4	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.

System Integration Record

INTEGRATION ITEM	DOCUMENTED ROLE
Host identity	Field Control distributed I/O
Interface role	Provides the documented 125 vdc positive/negative input module function
Field / power 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 evidence	Complete a controlled signal or load test before returning the station to service.

Installation and Connection Checks

1

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

2

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

3

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

4

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

MANUFACTURER SOURCE RECORD

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

Applications and Engineering Context

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.

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.

Model-Specific Acceptance Evidence

CHECK	ACCEPTANCE CONDITION
Identity	IC670MDL642 recorded
Host / carrier	Field Control distributed I/O
Physical interface	Provides the documented 125 vdc positive/negative input module function
Configuration	Energize in the prescribed sequence and review module, bus and point diagnostics.
Functional proof	Complete a controlled signal or load test before returning the station to service.

IMPORTANT NOTICE

Confirm IC670MDL642, host, terminals, power grouping, point map and controlled test results before release.

Controlled Release Summary

RELEASE ITEM	MODEL-SPECIFIC CONDITION
Article identity	IC670MDL642
Approved role	Field Control distributed I/O station maintenance
Final validation	Complete a controlled signal or load test before returning the station to service.

Engineering 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.

Related Products on Apter Power

MODEL	SYSTEM ROLE	APTER POWER PAGE
IC670ALG621	product page	View IC670ALG621 page
IC670ALG630	product page	View IC670ALG630 page
IC670ALG620	product page	View IC670ALG620 page
IC670ALG330	product page	View IC670ALG330 page
IC670ALG320	product page	View IC670ALG320 page
IC670ALG310	product page	View IC670ALG310 page
IC670ALG240	product page	View IC670ALG240 page
IC670ALG230	product page	View IC670ALG230 page

MANUFACTURER SOURCE RECORD

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