

IC670MDL742

5/12/24 VDC Negative Logic Output Module

GE IC670MDL742 is the documented 5/12/24 VDC Negative Logic Output Module for the Field Control distributed I/O.

| IDENTITY      | VERIFIED VALUE                                                            |
|---------------|---------------------------------------------------------------------------|
| Manufacturer  | General Electric                                                          |
| System family | Field Control distributed I/O                                             |
| Part number   | IC670MDL742                                                               |
| Product role  | Provides the documented 5/12/24 vdc negative logic output 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 IC670MDL742 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.

APTER POWER SALES TEAM

WHATSAPP / PHONE +86 180 3023 5313

EMAIL sales13@apterpower.com

WEBSITE www.apterpower.com



IC670MDL742

# Technical Specifications

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

| PARAMETER          | VALUE                                  | PARAMETER      | VALUE                 |
|--------------------|----------------------------------------|----------------|-----------------------|
| Output points      | 16                                     | Module current | 8 A maximum           |
| Output logic       | Negative logic / current sinking       | Inrush current | 2 A for 100 ms        |
| User input         | 4.75 to 5.25 V DC or 10.5 to 28.5 V DC | Response time  | 200 us maximum on/off |
| Output voltage     | 4.5 to 28.25 V DC                      | Common fuse    | 10 A slow-blow        |
| Continuous current | 25 mA at 5 V; 0.5 A at 10.5 to 28.5 V  |                |                       |

## Verified Product Record

| DATA GROUP                 | VERIFIED VALUE                                                                                                                                                                                                                    |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Installed host / carrier   | Field Control distributed I/O                                                                                                                                                                                                     |
| Primary system role        | Provides the documented 5/12/24 vdc negative logic output module function                                                                                                                                                         |
| Connection boundary        | Install IC670MDL742 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 IC670MDL742, host, terminals, power grouping, point map and controlled test results before release.

## Pre-Installation Checks

|   |                                                                                                                |   |                                                                                             |
|---|----------------------------------------------------------------------------------------------------------------|---|---------------------------------------------------------------------------------------------|
| 1 | Confirm the full IC670MDL742 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   | IC670MDL742                      |
| Installed host     | Field Control distributed I/O    |
| Connection record  | Capture before removal           |
| Controlled release | Diagnostics and functional proof |

# System Role and Architecture

GE IC670MDL742 is the documented 5/12/24 VDC Negative Logic Output Module for the Field Control distributed I/O.

**FUNCTION 1**  
Provides the documented 5/12/24 vdc negative logic output module function

**FUNCTION 2**  
Uses exact catalog identity IC670MDL742 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   | Negative logic / current sinking                                                                                                                                                                                                  |
| 3   | Field Control distributed I/O station maintenance                                                                                                                                                                                 |
| 4   | Install IC670MDL742 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 5/12/24 vdc negative logic output module function                                                                                                                                                 |
| Field / power context  | The component is used with the exact terminal assembly, carrier, power grouping and bus configuration identified for IC670MDL742. 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 IC670MDL742 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 5/12/24 vdc negative logic output module function in an engineered station.

## Distributed I/O refurbishment

Uses exact IC670MDL742 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 IC670MDL742 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           | IC670MDL742 recorded                                                               |
| Host / carrier     | Field Control distributed I/O                                                      |
| Physical interface | Provides the documented 5/12/24 vdc negative logic output 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 IC670MDL742, host, terminals, power grouping, point map and controlled test results before release.

## Controlled Release Summary

| RELEASE ITEM     | MODEL-SPECIFIC CONDITION                                                           |
|------------------|------------------------------------------------------------------------------------|
| Article identity | IC670MDL742                                                                        |
| 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 IC670MDL742 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 IC670MDL742 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                              |
|---------------------|--------------|-----------------------------------------------|
| A06B-6087-H155      | product page | <a href="#">View A06B-6087-H155 page</a>      |
| HE693ADC415         | product page | <a href="#">View HE693ADC415 page</a>         |
| A06B-6102-H245-H520 | product page | <a href="#">View A06B-6102-H245-H520 page</a> |
| IS200WROBH1AAA      | product page | <a href="#">View IS200WROBH1AAA page</a>      |
| IS200STCIH2A        | product page | <a href="#">View IS200STCIH2A page</a>        |
| IC695PNS001         | product page | <a href="#">View IC695PNS001 page</a>         |
| UR9GH               | product page | <a href="#">View UR9GH page</a>               |
| IC693ACC302B        | product page | <a href="#">View IC693ACC302B page</a>        |

## MANUFACTURER SOURCE RECORD

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