

# IC670CHS003

## I/O Terminal Block with Wire-to-Board Connectors

GE IC670CHS003 is the documented I/O Terminal Block with Wire-to-Board Connectors for the Field Control distributed I/O.

| IDENTITY      | VERIFIED VALUE                                                                    |
|---------------|-----------------------------------------------------------------------------------|
| Manufacturer  | General Electric                                                                  |
| System family | Field Control distributed I/O                                                     |
| Part number   | IC670CHS003                                                                       |
| Product role  | Provides the documented i/o terminal block with wire-to-board connectors 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 IC670CHS003 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



IC670CHS003

# Technical Specifications

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

| PARAMETER       | VALUE         | PARAMETER             | VALUE                        |
|-----------------|---------------|-----------------------|------------------------------|
| Connector style | Wire-to-board | Mating connector      | AMP 178289-8                 |
| Connector count | Two           | Mating connector kit  | IC670ACC003                  |
| Connector size  | 20-pin male   | Hot insertion/removal | Not supported by IC670CHS003 |

## Verified Product Record

| DATA GROUP                 | VERIFIED VALUE                                                                                                                                                                                                                    |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Installed host / carrier   | Field Control distributed I/O                                                                                                                                                                                                     |
| Primary system role        | Provides the documented i/o terminal block with wire-to-board connectors function                                                                                                                                                 |
| Connection boundary        | Install IC670CHS003 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 IC670CHS003, host, terminals, power grouping, point map and controlled test results before release.

## Pre-Installation Checks

- 1

Confirm the full IC670CHS003 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   | IC670CHS003                      |
| Installed host     | Field Control distributed I/O    |
| Connection record  | Capture before removal           |
| Controlled release | Diagnostics and functional proof |

# System Role and Architecture

GE IC670CHS003 is the documented I/O Terminal Block with Wire-to-Board Connectors for the Field Control distributed I/O.

**FUNCTION 1**  
  
Provides the documented i/o terminal block with wire-to-board connectors function

**FUNCTION 2**  
  
Uses exact catalog identity IC670CHS003 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   | Two                                                                                                                                                                                                                               |
| 3   | Field Control distributed I/O station maintenance                                                                                                                                                                                 |
| 4   | Install IC670CHS003 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 i/o terminal block with wire-to-board connectors function                                                                                                                                         |
| Field / power context  | The component is used with the exact terminal assembly, carrier, power grouping and bus configuration identified for IC670CHS003. 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 IC670CHS003 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 i/o terminal block with wire-to-board connectors function in an engineered station.

## Distributed I/O refurbishment

Uses exact IC670CHS003 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 IC670CHS003 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           | IC670CHS003 recorded                                                               |
| Host / carrier     | Field Control distributed I/O                                                      |
| Physical interface | Provides the documented i/o terminal block with wire-to-board connectors 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 IC670CHS003, host, terminals, power grouping, point map and controlled test results before release.

## Controlled Release Summary

| RELEASE ITEM     | MODEL-SPECIFIC CONDITION                                                           |
|------------------|------------------------------------------------------------------------------------|
| Article identity | IC670CHS003                                                                        |
| 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 IC670CHS003 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 IC670CHS003 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                                        |
|--------------------------------|--------------|---------------------------------------------------------|
| MVTP31V1CB0751E                | product page | <a href="#">View MVTP31V1CB0751E page</a>               |
| DS215TCCAG1BZZ01               | product page | <a href="#">View DS215TCCAG1BZZ01 page</a>              |
| IS210AEAAH2BJE                 | product page | <a href="#">View IS210AEAAH2BJE page</a>                |
| IS200HSLAH1ADE                 | product page | <a href="#">View IS200HSLAH1ADE page</a>                |
| IS210MVR AH2A-IS200MVR AH2A FC | product page | <a href="#">View IS210MVR AH2A-IS200MVR AH2AFC page</a> |
| IS200BPPBH2CAA                 | product page | <a href="#">View IS200BPPBH2CAA page</a>                |
| IS215PMVPH1AA-IS200MVREH1 ABB  | product page | <a href="#">View IS215PMVPH1AA-IS200MVREH1ABB page</a>  |
| IC693MDR390                    | product page | <a href="#">View IC693MDR390 page</a>                   |

## MANUFACTURER SOURCE RECORD

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