

IC670MDL241

GE Fanuc sixteen-point 240 VAC grouped discrete input module

Sixteen grouped 240 VAC on/off input states

PRODUCT SNAPSHOT

BRAND

GE

FAMILY

GE Fanuc Field Control distributed I/O

PART

IC670MDL241

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PRODUCT OVERVIEW

Sixteen grouped 240 VAC on/off input states

1

Provides sixteen 240 VAC inputs

2

Accepts 47-63 Hz field signals

3

Uses a single common input group

4

Limits on/off response to 20 ms maximum

SYSTEM COMPONENTS

Sixteen 240 VAC field contacts

Single group common

Field Control terminal block

Compatible BIU or MFP

TECHNICAL NOTE

Isolate the 240 VAC source, verify the single group common and maintain required creepage and wiring practices before point-by-point testing.

TECHNICAL DATA

PARAMETER	VALUE
Catalog number	IC670MDL241
Input points	16
Input grouping	Single group
Rated voltage	240 V AC
Input-voltage range	0 to 265 V AC; 47 to 63 Hz
Typical input current	8.2 mA per point at 240 V AC
Input impedance at 60 Hz	38.5 kohm

PARAMETER	VALUE
Input impedance at 50 Hz	46.3 kohm
On-state voltage	155 to 265 V AC
Off-state voltage	0 to 40 V AC
On-state current	4 to 10 mA
Off-state current	0 to 1.5 mA
On/off response	20 ms maximum

ENGINEERING NOTE

Isolate the 240 VAC source, verify the single group common and maintain required creepage and wiring practices before point-by-point testing.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
IS200STCIH2AED	Related GE product	View IS200STCIH2AED page
IC693PWR331D	Related GE product	View IC693PWR331D page
IC200ALG620	Related GE product	View IC200ALG620 page
IS215WETAH1A	Related GE product	View IS215WETAH1A page
MIVII1000E00HI00	Related GE product	View MIVII1000E00HI00 page
ICRXIBN7M000A-BA	Related GE product	View ICRXIBN7M000A-BA page
IS200TBAIH1CCC	Related GE product	View IS200TBAIH1CCC page
IS200EMIOH1AFB	Related GE product	View IS200EMIOH1AFB page

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

grouped 240 VAC discrete-state acquisition field station

Provides sixteen 240 VAC inputs

Remote I/O cabinet integration

Accepts 47-63 Hz field signals

Installed-base module renewal

Uses a single common input group

Controlled commissioning and diagnostics

Limits on/off response to 20 ms maximum

PRODUCT PRECAUTIONS

- 1 Verify the complete IC670MDL241 catalog marking and assigned Field Control position before work.
- 2 Place the connected grouped 240 VAC discrete-state acquisition process in its approved maintenance state before disturbing the station.
- 3 Isolate BIU and field power, then confirm a safe condition at the IC670MDL241 terminal block.
- 4 Label and record individual point conductors, group commons and field-power feeds before disconnecting any conductor from IC670MDL241.
- 5 Use ESD controls and protect the module connector, terminal block keying and exposed electronics.
- 6 Restore only the documented input/output defaults, data reference and fault reporting; do not copy settings from an adjacent module.
- 7 Energize in a controlled sequence and review PWR, channel, module and network diagnostics.
- 8 Complete point-by-point state, response-time and diagnostic checks and retain the final result before returning the process to service.

ENGINEER FAQ

Q1 Does IC670MDL241 match Sixteen 240 VAC field contacts in a grouped 240 VAC discrete-state acquisition field station installation?

Verify the complete IC670MDL241 marking, the documented GE Fanuc Field Control distributed I/O position and the installed Sixteen 240 VAC field contacts before fitting the assembly.

Q2 How should IC670MDL241 be wired when it must provides sixteen 240 vac inputs?

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for IC670MDL241; then continuity-test the affected path.

Q3 Which GE Fanuc Field Control distributed I/O records should be captured before removing IC670MDL241?

Record the as-found wiring, installed position, active configuration and diagnostic state associated with IC670MDL241 before disconnection.

Q4 What controlled test confirms that IC670MDL241 can accepts 47-63 hz field signals?

Apply the approved field or simulated stimulus, observe the GE Fanuc Field Control distributed I/O indication and confirm the intended response without bypassing the normal interlocks.

Q5 Which Single group common condition should be checked when IC670MDL241 reports an abnormal state?

Check the Single group common supply, seating and connection first, then compare channel diagnostics with the recorded IC670MDL241 baseline.

Q6 Can IC670MDL241 be moved directly into Remote I/O cabinet integration without validating Compatible BIU or MFP?

No. Confirm the Compatible BIU or MFP, revision, connection scheme and GE Fanuc Field Control distributed I/O configuration before transferring IC670MDL241 to that duty.

Q7 What maintenance evidence is required after IC670MDL241 is used for Installed-base module renewal?

Retain the nameplate record, corrective action, final diagnostics and a controlled installed-base module renewal functional-test result for IC670MDL241.

Q8 How should IC670MDL241 be returned to service in Controlled commissioning and diagnostics?

Restore power under control, verify uses a single common input group, exercise the intended signal path and release IC670MDL241 only after the GE Fanuc Field Control distributed I/O remains in its approved operating state.

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

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