

IC670MDL240

GE Fanuc sixteen-point 120 VAC grouped discrete input module

Sixteen grouped 120 VAC on/off input states

PRODUCT SNAPSHOT

BRAND

GE

FAMILY

GE Fanuc Field Control distributed I/O

PART

IC670MDL240

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PRODUCT OVERVIEW

Sixteen grouped 120 VAC on/off input states

1

Provides sixteen 120 VAC inputs

2

Arranges points in two common groups

3

Transfers two bytes of discrete input data

4

Displays point status through logic-side LEDs

SYSTEM COMPONENTS

Two 120 VAC input groups

Group common conductors

Field Control terminal block

Compatible BIU or MFP

TECHNICAL NOTE

Confirm both group commons, 47-63 Hz field supply and each point identity; never infer point-to-point isolation within a group.

TECHNICAL DATA

PARAMETER	VALUE
Catalog number	IC670MDL240
Input points	16
Input grouping	Two groups of eight
Rated voltage	120 V AC
Input-voltage range	0 to 132 V AC; 47 to 63 Hz
Typical input current	15 mA per point at 120 V AC
Input data	16 bits; 2 bytes

PARAMETER	VALUE
Input impedance	8.6 kohm typical; reactive
On-state voltage	70 to 120 V AC
Off-state voltage	0 to 20 V AC
On response	12 ms typical; 20 ms maximum
Off response	25 ms typical; 40 ms maximum
BIU current	77 mA maximum

ENGINEERING NOTE

Confirm both group commons, 47-63 Hz field supply and each point identity; never infer point-to-point isolation within a group.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
151X1235BC01SA41	Related GE product	View 151X1235BC01SA41 page
IC695CPE310	Related GE product	View IC695CPE310 page
IS210AEBIH1BEA	Related GE product	View IS210AEBIH1BEA page
IS410JPDHG1A-IS400JPDHG1ABB	Related GE product	View IS410JPDHG1A-IS400JPDHG1ABB page
IC694ALG221A	Related GE product	View IC694ALG221A page
IC694MDL645D	Related GE product	View IC694MDL645D page
IC694MDL645A	Related GE product	View IC694MDL645A page
IC693CMM321-KM	Related GE product	View IC693CMM321-KM page

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

grouped 120 VAC discrete-state acquisition field station

Provides sixteen 120 VAC inputs

Remote I/O cabinet integration

Arranges points in two common groups

Installed-base module renewal

Transfers two bytes of discrete input data

Controlled commissioning and diagnostics

Displays point status through logic-side LEDs

PRODUCT PRECAUTIONS

- 1 Verify the complete IC670MDL240 catalog marking and assigned Field Control position before work.
- 2 Place the connected grouped 120 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 IC670MDL240 terminal block.
- 4 Label and record individual point conductors, group commons and field-power feeds before disconnecting any conductor from IC670MDL240.
- 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 IC670MDL240 match Two 120 VAC input groups in a grouped 120 VAC discrete-state acquisition field station installation?

Verify the complete IC670MDL240 marking, the documented GE Fanuc Field Control distributed I/O position and the installed Two 120 VAC input groups before fitting the assembly.

Q3 Which GE Fanuc Field Control distributed I/O records should be captured before removing IC670MDL240?

Record the as-found wiring, installed position, active configuration and diagnostic state associated with IC670MDL240 before disconnection.

Q5 Which Group common conductors condition should be checked when IC670MDL240 reports an abnormal state?

Check the Group common conductors supply, seating and connection first, then compare channel diagnostics with the recorded IC670MDL240 baseline.

Q7 What maintenance evidence is required after IC670MDL240 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 IC670MDL240.

Q2 How should IC670MDL240 be wired when it must provides sixteen 120 vac inputs?

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for IC670MDL240; then continuity-test the affected path.

Q4 What controlled test confirms that IC670MDL240 can arranges points in two common groups?

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.

Q6 Can IC670MDL240 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 IC670MDL240 to that duty.

Q8 How should IC670MDL240 be returned to service in Controlled commissioning and diagnostics?

Restore power under control, verify transfers two bytes of discrete input data, exercise the intended signal path and release IC670MDL240 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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