

IC670MDL331

GE Fanuc eight-point 120 VAC isolated two-amp discrete output module

Eight commanded 120 VAC output circuits in four isolated groups

PRODUCT SNAPSHOT

BRAND

GE

FAMILY

GE Fanuc Field Control distributed I/O

PART

IC670MDL331

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PRODUCT OVERVIEW

Eight commanded 120 VAC output circuits in four isolated groups

1

Provides eight 120 VAC outputs

2

Separates outputs into four isolated pairs

3

Switches up to 2 A per point and per group

4

Uses a dedicated fuse-status indication for each group

SYSTEM COMPONENTS

Four isolated 120 VAC group supplies

Eight pilot-duty AC loads

Field Control terminal block

Compatible BIU or MFP

TECHNICAL NOTE

Keep each two-point group supply isolated, respect the 2 A group limit and verify all four fuse-status circuits before enabling outputs.

TECHNICAL DATA

PARAMETER	VALUE
Catalog number	IC670MDL331
Output points	8
Output grouping	Four isolated groups of two
Rated voltage	120 V AC
Output-voltage range	85 to 132 V AC; 47 to 63 Hz
Maximum point current	2 A
Maximum group current	2 A
Maximum module current	6 to 8 A with derating

PARAMETER	VALUE
Minimum load current	10 mA per point
Inrush current	20 A maximum for one 20 ms cycle
Output-voltage drop	3.0 V maximum
Leakage current	2 mA at 120 V AC
On response	1 ms maximum
Off response	One-half cycle maximum
BIU current	154 mA maximum

ENGINEERING NOTE

Keep each two-point group supply isolated, respect the 2 A group limit and verify all four fuse-status circuits before enabling outputs.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
IC695ACC412	Related GE product	View IC695ACC412 page
IC695ALG600	Related GE product	View IC695ALG600 page
IS210AEBIH3BEC	Related GE product	View IS210AEBIH3BEC page
IC695PSD040	Related GE product	View IC695PSD040 page
IC660BRD020	Related GE product	View IC660BRD020 page
IC693CBL316	Related GE product	View IC693CBL316 page
URRHH	Related GE product	View URRHH page
IC694MDL742	Related GE product	View IC694MDL742 page

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

isolated AC pilot-load switching field station

Provides eight 120 VAC outputs

Remote I/O cabinet integration

Separates outputs into four isolated pairs

Installed-base module renewal

Switches up to 2 A per point and per group

Controlled commissioning and diagnostics

Uses a dedicated fuse-status indication for each group

PRODUCT PRECAUTIONS

- 1 Verify the complete IC670MDL331 catalog marking and assigned Field Control position before work.
- 2 Place the connected isolated AC pilot-load switching process in its approved maintenance state before disturbing the station.
- 3 Isolate BIU and field power, then confirm a safe condition at the IC670MDL331 terminal block.
- 4 Label and record individual point conductors, group commons and field-power feeds before disconnecting any conductor from IC670MDL331.
- 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 IC670MDL331 match Four isolated 120 VAC group supplies in a isolated AC pilot-load switching field station installation?

Verify the complete IC670MDL331 marking, the documented GE Fanuc Field Control distributed I/O position and the installed Four isolated 120 VAC group supplies before fitting the assembly.

Q3 Which GE Fanuc Field Control distributed I/O records should be captured before removing IC670MDL331?

Record the as-found wiring, installed position, active configuration and diagnostic state associated with IC670MDL331 before disconnection.

Q5 Which Eight pilot-duty AC loads condition should be checked when IC670MDL331 reports an abnormal state?

Check the Eight pilot-duty AC loads supply, seating and connection first, then compare channel diagnostics with the recorded IC670MDL331 baseline.

Q7 What maintenance evidence is required after IC670MDL331 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 IC670MDL331.

Q2 How should IC670MDL331 be wired when it must provides eight 120 vac outputs?

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for IC670MDL331; then continuity-test the affected path.

Q4 What controlled test confirms that IC670MDL331 can separates outputs into four isolated pairs?

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 IC670MDL331 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 IC670MDL331 to that duty.

Q8 How should IC670MDL331 be returned to service in Controlled commissioning and diagnostics?

Restore power under control, verify switches up to 2 a per point and per group, exercise the intended signal path and release IC670MDL331 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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