APTER■POWER

PRODUCT TECHNICAL REFERENCE

INDUSTRIAL AUTOMATION PRODUCT

IC670MDL331

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

Eight commanded 120 VAC output circuits in four isolated groups

IDENTITY	VERIFIED VALUE
Manufacturer	GE
System family	GE Fanuc Field Control distributed I/O
Part number	IC670MDL331
Country	USA
HS code	8537101190

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2 Technical Specifications

Technical values below are limited to the named GE product record.

PARAMETER	TECHNICAL 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
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

3 System Role and Architecture

Eight commanded 120 VAC output circuits in four isolated groups

FUNCTION 1

Provides eight 120 VAC outputs

FUNCTION 2

Separates outputs into four isolated pairs

FUNCTION 3

Switches up to 2 A per point and per group

FUNCTION 4

Uses a dedicated fuse-status indication for each group

Matched system components

- Four isolated 120 VAC group supplies
- Eight pilot-duty AC loads
- Field Control terminal block
- Compatible BIU or MFP

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Installed host / carrier	Four isolated 120 VAC group supplies
Companion hardware	Eight pilot-duty AC loads
Field connection	Field Control terminal block
Primary system function	Provides eight 120 VAC outputs
Controlled acceptance duty	isolated AC pilot-load switching field station

4 Applications and Engineering Context

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

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.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	IC670MDL331 / IC670MDL331 recorded
Physical interface	Four isolated 120 VAC group supplies
Companion check	Eight pilot-duty AC loads
Functional proof	Provides eight 120 VAC outputs
Application test	isolated AC pilot-load switching field station

5 Engineering 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.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
IC694MDL930	Related GE product	View IC694MDL930 page
8021-CE-LH	Related GE product	View 8021-CE-LH page
HE693PBS106	Related GE product	View HE693PBS106 page
IC200UEO116	Related GE product	View IC200UEO116 page
IC200UDD104	Related GE product	View IC200UDD104 page
8810-HI-TX-01	Related GE product	View 8810-HI-TX-01 page
IS220PRTDH1A	Related GE product	View IS220PRTDH1A page
IS220PTCCH1A	Related GE product	View IS220PTCCH1A page

MANUFACTURER SOURCE RECORD

GE Fanuc Field Control Distributed I/O and Control System I/O Modules User's Manual

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