

# IC670MFP100

## GE Fanuc Series 90 Micro Field Processor

Local control program, discrete and analog I/O data, and serial programming traffic

### PRODUCT SNAPSHOT

**BRAND**

GE

**FAMILY**

GE Fanuc Field Control distributed I/O

**PART**

IC670MFP100

**ORIGIN / HS**

USA / 8537101190

### APTER POWER SALES TEAM

**WHATSAPP / PHONE**

+86 180 3023 5313

**EMAIL**

sales13@apterpower.com

**WEBSITE**

www.apterpower.com



# PRODUCT OVERVIEW

Local control program, discrete and analog I/O data, and serial programming traffic

1

Executes Boolean logic at 1 ms per K

2

Provides 6 K words of user memory

3

Maintains local discrete and analog data tables

4

Mounts in any station slot except the BIU position

## SYSTEM COMPONENTS

Field Control terminal block

Compatible Field Control I/O modules

Handheld programmer or host configuration

6.5 V DC backplane supply

### TECHNICAL NOTE

Confirm the IC670MFP100 station position, program checksum, memory references and I/O assignment before transfer; prove output defaults and serial communication before release.

## TECHNICAL DATA

| PARAMETER                           | VALUE               |
|-------------------------------------|---------------------|
| Catalog number                      | IC670MFP100         |
| Boolean scan rate                   | 1 ms per K of logic |
| Backplane power                     | 6.5 V DC            |
| Current with handheld programmer    | 300 mA typical      |
| Current without handheld programmer | 110 mA typical      |
| User memory                         | 6 K words           |
| %R memory                           | 2048 words          |
| %AI memory                          | 128 words           |

| PARAMETER  | VALUE       |
|------------|-------------|
| %AQ memory | 128 words   |
| %I memory  | 512 bits    |
| %Q memory  | 512 bits    |
| %G memory  | 1280 bits   |
| %M memory  | 1024 bits   |
| %T memory  | 256 bits    |
| %S memory  | 128 bits    |
| DIN rail   | 35 x 7.5 mm |

### ENGINEERING NOTE

Confirm the IC670MFP100 station position, program checksum, memory references and I/O assignment before transfer; prove output defaults and serial communication before release.

### RELATED PRODUCTS ON APTER POWER

| MODEL       | SYSTEM ROLE        | APTER POWER PAGE                      |
|-------------|--------------------|---------------------------------------|
| IC693CPU364 | Related GE product | <a href="#">View IC693CPU364 page</a> |
| IC693CBL305 | Related GE product | <a href="#">View IC693CBL305 page</a> |
| IC693CBL300 | Related GE product | <a href="#">View IC693CBL300 page</a> |
| IC693ACC310 | Related GE product | <a href="#">View IC693ACC310 page</a> |
| IC670PBI001 | Related GE product | <a href="#">View IC670PBI001 page</a> |
| IC670MDL740 | Related GE product | <a href="#">View IC670MDL740 page</a> |
| IC660BBD025 | Related GE product | <a href="#">View IC660BBD025 page</a> |
| IC693MDL741 | Related GE product | <a href="#">View IC693MDL741 page</a> |

# APPLICATIONS & PRECAUTIONS

## COMMON APPLICATIONS

### local sequence and distributed I/O control field station

Executes Boolean logic at 1 ms per K

### Remote I/O cabinet integration

Provides 6 K words of user memory

### Installed-base module renewal

Maintains local discrete and analog data tables

### Controlled commissioning and diagnostics

Mounts in any station slot except the BIU position

## PRODUCT PRECAUTIONS

- 1 Verify the complete IC670MFP100 catalog marking and assigned Field Control position before work.
- 2 Place the connected locally controlled process in its approved maintenance state before disturbing the station.
- 3 Isolate BIU and field power, then confirm a safe condition at the IC670MFP100 terminal block.
- 4 Label and record I/O assignments, serial-port wiring and output-state records before disconnecting any conductor from IC670MFP100.
- 5 Use ESD controls and protect the module connector, terminal block keying and exposed electronics.
- 6 Restore only the documented logic program, data references and default states; do not copy settings from an adjacent module.
- 7 Energize in a controlled sequence and review PWR, channel, module and network diagnostics.
- 8 Complete program checksum, scan, I/O diagnostics and controlled output tests and retain the final result before returning the process to service.

# ENGINEER FAQ

## Q1 Does IC670MFP100 match Field Control terminal block in a local sequence and distributed I/O control field station installation?

Verify the complete IC670MFP100 marking, the documented GE Fanuc Field Control distributed I/O position and the installed Field Control terminal block before fitting the assembly.

## Q3 Which GE Fanuc Field Control distributed I/O records should be captured before removing IC670MFP100?

Record the as-found wiring, installed position, active configuration and diagnostic state associated with IC670MFP100 before disconnection.

## Q5 Which Compatible Field Control I/O modules condition should be checked when IC670MFP100 reports an abnormal state?

Check the Compatible Field Control I/O modules supply, seating and connection first, then compare channel diagnostics with the recorded IC670MFP100 baseline.

## Q7 What maintenance evidence is required after IC670MFP100 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 IC670MFP100.

## Q2 How should IC670MFP100 be wired when it must executes boolean logic at 1 ms per k?

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for IC670MFP100; then continuity-test the affected path.

## Q4 What controlled test confirms that IC670MFP100 can provides 6 k words of user memory?

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 IC670MFP100 be moved directly into Remote I/O cabinet integration without validating 6.5 V DC backplane supply?

No. Confirm the 6.5 V DC backplane supply, revision, connection scheme and GE Fanuc Field Control distributed I/O configuration before transferring IC670MFP100 to that duty.

## Q8 How should IC670MFP100 be returned to service in Controlled commissioning and diagnostics?

Restore power under control, verify maintains local discrete and analog data tables, exercise the intended signal path and release IC670MFP100 only after the GE Fanuc Field Control distributed I/O remains in its approved operating state.

**SOURCE** GE Fanuc Series 90 Micro Field Processor User's Manual | GFK-1171, March 1996

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