GE IC609SJR100

Junior PLC Unit

GE IC609SJR100 is a Series One Junior basic programmable controller with fifteen inputs and nine relay-controlled AC outputs.

01	02	03	04
15 total inputs and 9 AC outputs	13 AC plus 2 DC input circuits	115 VAC input / 115 or 230 VAC output	Inputs 15 and 16 support high-speed count and reset

System position

Discrete switches and sensors	IC609SJR100 onboard inputs	Series One Junior ladder program	Nine AC field-output circuits

Evidence boundary

Only verified exact-model facts and explicitly identified family context are included. Similar codes are not treated as substitutes.

Model-specific release focus

- 15 total inputs and 9 AC outputs
- 13 AC plus 2 DC input circuits
- 115 VAC input / 115 or 230 VAC output
- Inputs 15 and 16 support high-speed count and reset

02 / CAPABILITY MAP

Engineering domains and architecture

Product family	Series One Junior
Unit type	Basic programmable controller
Total I/O	24 points
Input circuits	13 AC and 2 DC

Output circuits	9 AC
AC input rating	115 VAC
AC load rating	115 or 230 VAC
Special inputs	Inputs 15 and 16 for high-speed count and reset

Interface architecture

Onboard inputs

Receives fifteen discrete field states

Programmer connection

Supports Series One Junior programming and monitoring peripherals

Output terminals

Nine switched AC circuits for user loads

I/O LEDs

Shows the ON/OFF state of each input and output circuit

Interface evidence for acceptance

- Onboard inputs: Receives fifteen discrete field states
- Programmer connection: Supports Series One Junior programming and monitoring peripherals
- Output terminals: Nine switched AC circuits for user loads
- I/O LEDs: Shows the ON/OFF state of each input and output circuit

Use cases with controlled scope

Small machine sequencing

Runs compact relay-replacement ladder programs with onboard I/O.

Motor-starter control

Commands approved 115/230 VAC starter or interposing-relay coils.

Solenoid control

Operates discrete AC valves and actuators within circuit ratings.

Pulse counting

Uses the dedicated DC input pair for high-speed count and reset functions.

INTEGRATION CHECKPOINTS

Identity

GE IC609SJR100 is preserved in full.

Host system

Rack, slot and surrounding hardware are verified.

Configuration

Project, firmware and settings are recorded.

Acceptance

Functional evidence is captured before release.

System relationship

Discrete switches and sensors	IC609SJR100 onboard inputs	Series One Junior ladder program	Nine AC field-output circuits

Configuration-control record

- Output circuits: 9 AC
- AC input rating: 115 VAC
- AC load rating: 115 or 230 VAC
- Special inputs: Inputs 15 and 16 for high-speed count and reset

Decision matrix

Question	Answer
How many onboard I/O points does GE IC609SJR100 provide?	The basic unit contains twenty-four points: fifteen inputs and nine outputs.
What input arrangement is used by GE IC609SJR100?	It provides thirteen AC input circuits and two DC input circuits.
Which load voltages can GE IC609SJR100 outputs control?	The nine AC output circuits are designed for 115 or 230 VAC loads.
What are inputs 15 and 16 used for on GE IC609SJR100?	They can operate as a high-speed count input and reset pair or as normal DC sink inputs.

Eight release precautions

1

Lock out the 115/230 VAC sources before opening terminals or replacing IC609SJR100.

2

Record the ladder program and I/O references before removing the legacy controller.

3

Keep AC input circuits and the two DC high-speed circuits on their documented terminals.

4

Confirm whether inputs 15 and 16 are configured as normal inputs or the high-speed count/reset pair.

5

Provide external branch protection and suppression appropriate for every AC output load.

6

Do not rely on an I/O LED as proof that a field terminal is de-energized.

7

Verify the programmer, memory state and run mode before enabling machine outputs.

8

After service, test every input, all nine outputs, the high-speed function if used and the complete machine interlock chain.

Product verification and support

Apter Power verification record

Model identity	Keep the complete GE model code and every suffix in purchasing, installation and acceptance records.
Verification boundary	Confirm the physical nameplate, installed position and revision-controlled project documents before field work.
Apter Power support	Use the contact details and Apter Power website links in this document for product and sourcing support.

Related Apter Power references	Scope note
GE HE693SNP232A	Portfolio reference only; verify compatibility independently.
GE IC693CPU372	Portfolio reference only; verify compatibility independently.
GE IC693CHS391	Portfolio reference only; verify compatibility independently.

	Apter Power technical and sourcing support sales13@apterpower.com +86 180 3023 5313 www.apterpower.com Scan for the Apter Power contact page.	Model record GE IC609SJR100 Junior PLC Unit Verify the complete nameplate before installation.