GE Series 90-30 Series Service Manual

IC693ACC301

1. Description

The GE Fanuc IC693ACC301 is a Lithium battery. This battery is used to retain the contents of the volatile memory of Series 90-30 PLCs. It has a shelf life of 10 years with a maximum operating life of 1 year with output power of 3VDC and capacity of 1200 mAh.

2. Specifications

Specification	Value
Brand	**GE Fanuc**
Series	**Series 90-30**
Part	**Number IC693ACC301**
Chemistry	**Lithium**
Type	**Backup battery**
Mounting	**Plastic clip on the inside of the cover**
Supported	**component PLC**
Voltage	**3 Volts**
Capacity	**1200 milliAmps per hour**
Contacts	**Wire leads connector**
Shelf	**life 10 years**
Storage	**temperature range -40 to 85 degrees Celsius (-40 to 185 degrees Fahrenheit)**
Dimensions	**(diameter x height) 17.2 x 33.5 millimeters (0.68 x 1.32 inches)**
Product	**Lifecycle Status* Discontinued/Obsolete**
Operating	**life 1 year, typical (depending on the CPU used)**
Quantity	**per pack Two (2) batteries per pack**
The	**IC693ACC301 is a replacement battery, that is composed of Two (2) Lithium battery units in one package. These batteries are installed to retain the contents of the volatile memory or Random Access Memory (RAM) of the CPU. Only a single battery is needed by any Series 90-30 CPU.**

3. Product Information

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Technical specifications for IC693ACC301

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Series Series 90-30

Part Number IC693ACC301

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Type Backup battery

Mounting Plastic clip on the inside of the cover

Supported component PLC

Voltage 3 Volts

Capacity 1200 milliAmps per hour

Contacts Wire leads connector

Shelf life 10 years

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Quantity per pack Two (2) batteries per pack

The IC693ACC301 is a replacement battery, that is composed of Two (2) Lithium battery units in one package. These batteries are installed to retain the contents of the volatile memory or Random Access Memory (RAM) of the CPU. Only a single battery is needed by any Series 90-30 CPU.

This Lithium battery has an output voltage of 3VDC and capacity of 2000 mAh. It has a shelf life of 10 years and rated operating life of 1 year, depending on the CPU used and utilization of the IC693ACC301 battery.

The IC693ACC301 performs a critical role of maintaining the contents of the Random Access Memory (RAM) including the user program. This battery increases uptime and decreases the risk of unwanted stoppage of the controller and loss of user program. When battery charge is low, the CPU that hosts the power supply will trigger the BATT LED to activate. This LED activation indicates that installed battery will lose charge within a short period of time.

When installing this battery, ensure that the power supply is actively supplying providing power to the baseplate. Shutting down the power supply with the battery uninstalled, deletes the contents of the RAM. Similarly, when removing this the existing battery and installing the IC693ACC301 replacement battery, use an appropriate amount of force when removing and inserting the connector clip. Sudden movement and excessive force may damage nearby modules and may eventually lead to unplanned stoppage.

The IC693ACC301 must be operated at a temperature of 32 to 77 degrees Fahrenheit and stored to an environment with Temperature of -40 to 185 degrees Fahrenheit.

The main purpose of such a battery is to help in preserving the contents of the CMOS RAM. The installation location of this battery is found under the cover located at the bottom of the plate of the power supply. To be more exact, the battery is mounted on the plastic clip that is located on the inside of the cover of the power supply. The IC693ACC301 backup battery has a lithium composition and it features a long operating life. The battery has a voltage rating of 3 Volts and a current capacity of 1200 milliAmps per hour. The IC693ACC301 battery comes with a wire leads connector and it has a temperature range of -40 to 85 degrees Celsius (-40 to 185 degrees Fahrenheit) for storage. The room temperature in the area where the battery is used should be from 0 to 25 degrees Celsius (32 to 77 degrees Fahrenheit). The shelf life guaranteed by the manufacturer is 10 years. For operating life, the battery can last a year of more, depending on the CPU that is used in, the ambient temperature, and other factors that have some impact on battery life. Note that the IC693ACC301 battery pack includes a set of 2 lithium batteries for backup. The status of the IC693ACC301 battery’s power is shown on the programmable logic controller. The diameter of the battery is 17.2 millimeters (0.68 inches) and the height of the battery is 33.5 millimeters (1.32 inches).