GE RX3i PacSystem Series Service Manual

IC695ACC400

1. Description

The IC695ACC400 is an Energy pack unit that is part of the PACSystem RX3i, formerly by GE Intelligent Platforms (GE IP), now under Emerson Automation. This module is designed for use with RX3i CPUs such as CPE305 and CPE310. This module provides enough power for the CPU to transfer memory from the RAM to the non-volatile storage in the event of power loss. This energy has a typical life

2. Specifications

Specification	Value
Manufacturer	**GE Fanuc**
Series	**PACSystem RX3i**
Product	**Description Energy pack**
Manufacturer	**GE Intelligent Platforms (GE IP); Emerson Automation (Current)**
Part	**Number IC695ACC400**
Compatible	**Series PACSystem RX3i**
Series	**PACSystem RX3i**
Product	**Type CPU Energy Pack**
Compatible	**controllers CPE305 / CPE310**
Part	**Number IC695ACC400**
Purpose	**Saving CPU Data During Power Failures**
Operating	**life 4.5 years @ 60o ; 10+ years @ 0-50o**
Compatible	**controller CPE 305 and CPE 310**
Certification	**The EU RoHS Directive 2011/65/EU standards**
Dimensions,	**including mounting brackets and latch 140mm (5.5") H x 124mm (4.87") D x 25.4mm (1") W**
Compatible	**cable IC695CBL001**
CPE302	**CPU Supported**
Operating	**temperature 0 to 60°C (32°F to 140°F)**
Cable	**length 3 ft. (0.91m)**
CPE305	**CPU Supported**
Connecting	**cable IC695CBL001**
Dimensions	**140mm (5.5”) H x 124mm (4.87”) D x 25.4mm (1”) W**
CPE310	**CPU Supported**
Connector	**type: Samtec IPD1-04-D-K**
Life	**expectancy 0-50 Deg Celsius: 10 + years; 60 Deg Celsius: 4.5 years**
Mounting	**On the Lef**

3. Product Information

The IC695ACC400 is an Energy pack unit that is part of the PACSystem RX3i, formerly by GE Intelligent Platforms (GE IP), now under Emerson Automation. This module is designed for use with RX3i CPUs such as CPE305 and CPE310. This module provides enough power for the CPU to transfer memory from the RAM to the non-volatile storage in the event of power loss. This energy has a typical life

Technical specifications for IC695ACC400

Manufacturer GE Fanuc

Series PACSystem RX3i

Product Description Energy pack

Manufacturer GE Intelligent Platforms (GE IP); Emerson Automation (Current)

Part Number IC695ACC400

Compatible Series PACSystem RX3i

Series PACSystem RX3i

Product Type CPU Energy Pack

Compatible controllers CPE305 / CPE310

Part Number IC695ACC400

Purpose Saving CPU Data During Power Failures

Operating life 4.5 years @ 60o ; 10+ years @ 0-50o

Compatible controller CPE 305 and CPE 310

Certification The EU RoHS Directive 2011/65/EU standards

Dimensions, including mounting brackets and latch 140mm (5.5") H x 124mm (4.87") D x 25.4mm (1") W

Compatible cable IC695CBL001

CPE302 CPU Supported

Operating temperature 0 to 60°C (32°F to 140°F)

Cable length 3 ft. (0.91m)

CPE305 CPU Supported

Connecting cable IC695CBL001

Dimensions 140mm (5.5”) H x 124mm (4.87”) D x 25.4mm (1”) W

CPE310 CPU Supported

Connector type: Samtec IPD1-04-D-K

Life expectancy 0-50 Deg Celsius: 10 + years; 60 Deg Celsius: 4.5 years

Mounting On the Left Side of the Module

Cable Voltage rating 300 VAC

Connector type Samtec IPD1-04-D-K

Status indications: Charging; Fault; Low capacitance; Charged

Cables Insulation: PVC

Mounting location mounted on the module (usually power supply)

Conductors: TINNED COPPER

Compliance and certifications EU RoHS Directive 2002/95/EC

Voltage Rating: 300 VAC

Product Lifecycle Active

Compliance EU RoHS Directive 2002/95/EC using the following exemptions identified in the Annex: 7(a), 7(c)-I and III

The IC695ACC400 is an energy pack module from the PACSystem RX3i platform, current under Emerson AUtomation. This module is an optional module for controller modules such as CPE305 and CPE310. It is mainly used to provide power during power loss, sufficient enough to enable the CPU to transfer the contents of the Random Access Memory (RAM) to the Non-volatile (Flash) memory. This prevents unwanted erasure of the user program and data, increases system availability, and reduces downtime. This energy pack module is mounted to the side of the Power supply. A power cable with catalog number IC695CBL001 measuring 3 meters or 0.91 meters) connects the energy pack to the bottom of the CPU where the energy pack connector is embedded. This energy pack provides information regarding the charging status, fault, low capacitance, and charged status. It carries a certificate of compliance to the EU RoHS Directive 2002/95/EC. The IC695CBL001 is a straight-through end-to-end cable The connector type of this cable is Samtec PID1-040D-K while the cable itself is a 300 VAC rated, Tinned Copper conductor with PVC insulation. The crimp contacts are 3.8 Amperes Current rated at 95 Degree Celsius while the crimp housing is made of Nylon 66 or equivalent. The IC695ACC400 has a typical life expectancy of 10+ years when installed in an environment with an operating temperature of 0-50 Degree Celsius. At 60 Degree Celsius, the life expectancy drastically drops to 4.5 years only. This energy pack physically measures 140mm (5.5”) H x 124mm (4.87”) D x 25.4mm (1”) W.

The IC695ACC400 energy pack is manufactured by GE Fanuc to be an energy pack for select CPUs from the GE Fanuc RX3i PacSystems product series. The IC695ACC400 CPU energy pack is specifically designed to work with the GE RX3i CPE302 CPU, the GE RX3i CPE305 CPU, and the GE RX3i CPE310 CPU. This CPU energy pack is not compatible with any other CPU models from the GE RX3i PacSystems product line. The purpose of the IC695ACC400 CPU energy pack is to maintain the power in the compatible CPU long enough for the CPU to write all of the contents of its user memory to the flash memory or the non-volatile storage memory to avoid data loss in the case of a power failure. The GE Fanuc RX3i PacSystems IC695ACC400 CPU energy pack is installed by being mounted on the left side of the RX3I module that is going to host it and it is connected to the host module’s CPU with an RX3i cable that is known as the GE RX3i IC695CBL001 cable. The CPU, the module, and the CPU energy pack are all parts of a complete PLC system or Programmable Logic Controller system, and when the PLC is powered on, the IC695ACC400 CPU energy pack gets its energy by charging up with power that is provided by the RX3i PLC’s 24 Volts DC rail through the same IC695CBL001 cable that connects the energy pack to the CPU. This CPU energy pack meets the EU RoHS Directive 2011/65/EU standards.