GE RX3i PacSystem Series Service Manual

IC694PSM001

1. Description

The IC694PSM001 replacement PSM module from the GE Fanuc RX3i PacSystem series can monitor 2 indpendent power grids in an RX3i PLC. It can be hot-swapped in the CPU rack on the PLC.

2. Specifications

Specification	Value
Manufacturer	**GE Fanuc**
Series	**RX3i PacSystems**
Part	**Number IC694PSM001**
Product	**Type PSM Module**
Hot	**Swapping Supported**
Purpose	**Monitoring 2 Independent Power Grids**
DSP	**Technology Supported**
Single-Phase	**Power Systems Supported**
Wye	**and Delta 3-Phase Power Systems Supported**
The	**GE Fanuc IC694PSM001 module is a replacement PSM module, also known as a Power Sync and Measurement module. It is made by GE Fanuc to be a replacement PSM module for the GE RX3i PacSystems. The purpose of the IC694PSM001 PSM module is to monitor 2 different 3-phase power grids that are independent. It can continuously process 4 current inputs and 3 voltage inputs on each grid through the use of its DSP or Digital Signal Processor technology. This power sync and measurement module measures the RMS power, the RMS voltage, the RMS current, the frequency, and the phase relationships between the phase voltages on both of the power grids. The IC694PSM001 PSM module is compatible with single-phase power systems and with wye-**

3. Product Information

The IC694PSM001 replacement PSM module from the GE Fanuc RX3i PacSystem series can monitor 2 indpendent power grids in an RX3i PLC. It can be hot-swapped in the CPU rack on the PLC.

Technical specifications for IC694PSM001

Manufacturer GE Fanuc

Series RX3i PacSystems

Part Number IC694PSM001

Product Type PSM Module

Hot Swapping Supported

Purpose Monitoring 2 Independent Power Grids

DSP Technology Supported

Single-Phase Power Systems Supported

Wye and Delta 3-Phase Power Systems Supported

The GE Fanuc IC694PSM001 module is a replacement PSM module, also known as a Power Sync and Measurement module. It is made by GE Fanuc to be a replacement PSM module for the GE RX3i PacSystems. The purpose of the IC694PSM001 PSM module is to monitor 2 different 3-phase power grids that are independent. It can continuously process 4 current inputs and 3 voltage inputs on each grid through the use of its DSP or Digital Signal Processor technology. This power sync and measurement module measures the RMS power, the RMS voltage, the RMS current, the frequency, and the phase relationships between the phase voltages on both of the power grids. The IC694PSM001 PSM module is compatible with single-phase power systems and with wye-type 3-phase and delta-type 3-phase power systems.

The GE Fanuc RX3i PacSystems IC694PSM001 replacement PSM module is well-suited for applications such as fault monitoring, generator control for synchronizing the power grids and a generator, monitoring and reporting the electrical power consumption, and reducing loads and demand penalty costs. This PSM module connects to a terminal assembly and interface cables to form a complete PSM system. The IC694PSM001 PSM module should always be installed in the main CPU rack or backplane in an RX3i PLC. It supports hot-swapping in an RX3i backplane, that is, this module can be installed in or removed from the backplane while power is applied to the backplane without damaging the module or backplane or injuring the users. RX3i CPUs with firmware version 7.70 or newer are compatible with this PSM module.