GE RX3i PacSystem Series Service Manual

IC694APU300

1. Description

The GE Fanuc IC694APU300 High-Speed Counter Module is made for processing pulse train signals in the shortest possible amount of time with very high levels of precision. It allows the users to distribute their processing power for fast and accurate responses to control variables with no need to connect to a remote processing unit.

2. Specifications

Specification	Value
Brand	**GE Fanuc**
Series	**RX3i PacSystem**
Part	**Number IC694APU300**
Power	**Consumption 250 mA (1.25 Watts)**
Points	**Maximum Count Rate 1 MHz, (Duty Cycle 25% to 87%)**
Input	**Voltage Range 5V DC (TSEL jumpered to INCOM), 10 to 30V DC (TSEL open)**
Positive	**Logic Inputs 12 (Single Ended) or 6 (Differential)**
Input	**Thresholds (I1 to I12) 5 V DC, 10 to 30 V DC**
Output	**Voltage Range 4.7 to 40 V DC at 1.5A maximum resistive load, 0.5A maximum pilot duty**
Positive	**Logic Outputs Four**
Inrush	**Current 1.6A without ESCP tripping**
The	**GE Fanuc IC694APU300 High-Speed Counter Module has been designed as a quick and effective solution for using high-speed pulse signals to control dynamic application processes such as flowrate measurement and speed control. It works as an integral process controller that receives pulse train signals with frequencies as high as 1 MHz, it performs complex mathematical calculations in fractions of a second, and then it sends out responses through its output port without needing to connect**

3. Product Information

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Technical specifications for IC694APU300

Brand GE Fanuc

Series RX3i PacSystem

Part Number IC694APU300

Power Consumption 250 mA (1.25 Watts)

Points Maximum Count Rate 1 MHz, (Duty Cycle 25% to 87%)

Input Voltage Range 5V DC (TSEL jumpered to INCOM), 10 to 30V DC (TSEL open)

Positive Logic Inputs 12 (Single Ended) or 6 (Differential)

Input Thresholds (I1 to I12) 5 V DC, 10 to 30 V DC

Output Voltage Range 4.7 to 40 V DC at 1.5A maximum resistive load, 0.5A maximum pilot duty

Positive Logic Outputs Four

Inrush Current 1.6A without ESCP tripping

The GE Fanuc IC694APU300 High-Speed Counter Module has been designed as a quick and effective solution for using high-speed pulse signals to control dynamic application processes such as flowrate measurement and speed control. It works as an integral process controller that receives pulse train signals with frequencies as high as 1 MHz, it performs complex mathematical calculations in fractions of a second, and then it sends out responses through its output port without needing to connect with a central processing unit (CPU) or programmable logic controller (PLC). The GE Fanuc IC694APU300 High-Speed Counter Module can operate at 5 Volts DC power. There are 2 configurable input voltages of 5 Volts DC or 10 to 30 Volts DC. The output voltage range is also customizable by the user, ranging from 10 to 30 Volts DC at a current rating of 500 milliamps or from 4.75 to 6 Volts DC at a current of 20 milliamps.

The regular power consumption rating of the GE Fanuc IC694APU300 High-Speed Counter Module is 250 milliamps, and its processing speed is 80 kHz. The high-speed counter is able to monitor and control several pulse signals at the same time, working according to pre-set parameters that allow for the selection of several operation modes, such as the classic mode and the enhanced mode. Up to 12 logical inputs can be received by the GE Fanuc IC694APU300 High-Speed Counter Module and processed by the electronics inside the module. The response signals can be sent through 4 different positive logic outputs that are connected to the actuators in the field. Each actuator connected to the high-speed counter should be powered externally by independent power sources.