GE Series 90-70 Series Service Manual

IC697MDL750

1. Description

The IC697MDL750 is a Series 90-70 discrete output module. This module is formerly produced by GE Fanuc, now acquired by Emerson Automation. It features Sixteen (16) discrete output channels in Four (4) groups of Eight (8) channels. Each channel is configurable to deliver an output voltage range of 20 / 60 VDC with an output current of 0.5 Amperes per point and 2 Amperes per

2. Specifications

Specification	Value
Brand	**GE Fanuc**
Series	**Series 90-70**
Manufacturer	**GE Fanuc; Emerson Automation (Current)**
Series	**Series 90-70**
Part	**Number IC697MDL750**
Product	**Description Discrete output module**
Product	**Description Discrete output module**
Rated	**voltage 24 to 48 Volts DC**
No	**of Channels Thirty-Two (32)**
No.	**of output groups Four (4)**
Output	**current 0.5 Amps per point, 2 Amps per group**
No.	**of output groups Four (4)**
Channels	**per group Eight (8)**
Output	**voltage range 20 to 60 Volts DC**
No.	**of channels per group Eight (8)**
Isolation:	**1500 volts between field side and logic side; 50 Volts between groups**
Required	**current 0.25 Amps**
Wiring	**configuration Positive Logic**
Output	**voltage range 20-60 VDC**
Number	**of outputs 32**
Output	**signal range 20 - 60 VDC**
Output	**current 0.5 Amperes per point; 2 Amperes per module**
Isolation	**voltage 1500 Volts**
Nominal	**output voltage 24 / 48 VDC**
Maximum	**inrush current 10 A for 20 ms**
Inrush	**current 10 Amps (maximum) for 20 milliseconds**
Output	**current per channel 0.5 mA**
On	**response time, maximum 1**

3. Product Information

The IC697MDL750 is a Series 90-70 discrete output module. This module is formerly produced by GE Fanuc, now acquired by Emerson Automation. It features Sixteen (16) discrete output channels in Four (4) groups of Eight (8) channels. Each channel is configurable to deliver an output voltage range of 20 / 60 VDC with an output current of 0.5 Amperes per point and 2 Amperes per

Technical specifications for IC697MDL750

Brand GE Fanuc

Series Series 90-70

Manufacturer GE Fanuc; Emerson Automation (Current)

Series Series 90-70

Part Number IC697MDL750

Product Description Discrete output module

Product Description Discrete output module

Rated voltage 24 to 48 Volts DC

No of Channels Thirty-Two (32)

No. of output groups Four (4)

Output current 0.5 Amps per point, 2 Amps per group

No. of output groups Four (4)

Channels per group Eight (8)

Output voltage range 20 to 60 Volts DC

No. of channels per group Eight (8)

Isolation: 1500 volts between field side and logic side; 50 Volts between groups

Required current 0.25 Amps

Wiring configuration Positive Logic

Output voltage range 20-60 VDC

Number of outputs 32

Output signal range 20 - 60 VDC

Output current 0.5 Amperes per point; 2 Amperes per module

Isolation voltage 1500 Volts

Nominal output voltage 24 / 48 VDC

Maximum inrush current 10 A for 20 ms

Inrush current 10 Amps (maximum) for 20 milliseconds

Output current per channel 0.5 mA

On response time, maximum 1 ms

Response time-on 1 millisecond (maximum)

Output current per module 2:00 AM

Off response time, maximum 1 ms

Response time-off 1 millisecond (maximum)

Current draw 0.25 A

Output Voltage Drop 1.0 volt, maximum

Output voltage drop 1 Volt/2 Ohms (maximum)

Isolation, any output to Backplane (optical) 1500 VAC

Off-state Leakage 1 mA maximum

Isolation, Group to Group 500 VAC

Product Lifecycle Status Discontinued / Obsolete

The IC697MDL750 is a Digital output module that is part of the Series 9-70 Programmable Logic Controller (PLC), formerly manufactured by GE Fanuc now under Emerson Automation. This module is a single slot module that mounts to a vacant slot of the Series 90-70 baseplate. It supports local I/O operation or as part of a larger distributed I/O architecture. The IC697MDL750 mainly features Thirty-Two (32) discrete output channels that deliver an output voltage range of 20-60 VDC with a rated voltage of 24 / 48 VDC. It can be used to energize a variety of electrical loads, to implement a manual or automated operation. Compatible devices include motor starters, solenoid-actuated devices, and Pilot lamps. Each channel of the module delivers an output current of 0.5 Amperes with a 2.0 Ampere rating per output group. This output module has Four (4) groups of Eight (8) channels each group. Module isolation is provided up to group isolation only with an isolation rating of 5000 Volts between groups while each output channel has rated backplane isolation of 1500 Volts. This module has a maximum inrush current of 10 Amperes with a duration of 20 ms. The maximum output voltage drop is 1 Volt while individual channel response time is at a maximum delay of 1 ms. Each channel also exhibits a leakage current amounting to 1 mA. The IC697MDL750 has a current draw of 0.25 Ampere and is designed incompatibility with VME standard C.1. This module comes with a high-density removable terminal block ideally used with wire bundles. Each terminal of the removable terminal accepts a maximum of Two (2) wires with a size of #22 AWG (0.36 mm2) through #14 AWG (2.10 mm2).

The discrete output module that is known as the IC697MDL750 output module is designed and manufactured by GE Fanuc, a well-known producer of high-quality and robust industrial components. The module is part of GE Series 90-70 and it complies with the regulations set by standard C.1 of the VME standards. The module requires 0.25 Amps of current from the 5 Volts bus and it features 500 Volts of isolation voltage between output groups. Isolation voltage for the outputs on the backplane is 1500 Volts. The IC697MDL750 output module has a total of 32 outputs arranged in equal isolated groups. The module features 10 Amps of inrush current for 20 milliseconds and 1 millisecond of response time (on/off). The IC697MDL750 output module has only 1 Volt (2 Ohms) of rated voltage drop for its outputs and it has an output voltage range of 20 to 60 Volts DC. The operating voltage of the unit is 24 to 48 Volts DC. The installation process of the module is easy and the wiring process is simple as well. The design of the module allows for effortless maintenance and its

construction with a mechanical key leaves no room for error. Due to this key, any modules that are not the correct type of module will not fit into the slot reserved for the IC697MDL750 module. The module has a current rating of 0.5 Amps per point and the maximum current for the input group is 2 Amps. The module is protected from voltage surges and it operates perfectly with devices that have a steady-state current of 100 to 500 milliAmps. The repetition rate of these devices is up to 5 Hertz for the lowest current level of the steady-state