GE Versamax Series Service Manual

IC200MDL940

1. Description

The IC200MDL940 is a 16-Point relay output module from the VersaMax I/O series formerly produced by GE Intelligent Platforms, now under Emerson Automation. This module has Sixteen (16) individually isolated Normally Open (N.O.) or Form A contacts, rated 0 to 125VDC, 5/24/125VDC nominal output voltage and 0 to 265VAC (47 to 63Hz),

2. Specifications

Specification	Value
Brand	**GE Fanuc**
Series	**Versamax**
Manufacturer	**GE Intelligent Platforms (Former); Emerson Automation (Current)**
Part	**Number IC200MDL940**
Series	**VersaMax**
Description	**PLC relay output**
Part	**Number IC200MDL940**
Voltage	**24 V DC/ 120-240 Volts AC**
Product	**Description Relay Output Module**
Current	**2 Amperes**
No.	**of channels Sixteen (16)**
Points	**16**
Output	**contact form Normally Open (Form A)**
Temperature	**0-60 degrees Celsius**
Switching	**frequency 20 cycles per minute**
Input	**to Logic Isolation 250 Volts AC**
Relay	**Type Fixed coil, moving armature**
Input	**to Frame Isolation 1500 Volts AC for 60 sec.**
Contact	**Type Silver alloy**
Output	**Voltage Drop 0.3 Volts maximum**
Output	**signal, nominal 5/24/125VDC; 120/240VAC**
Load	**Current 10 milliamperes**
Output	**signal, range 0 to 125VDC; 0 to 265VAC (47 to 63Hz)**
Contact	**current rating 10mA per point minimum; 2.0A for 5 to 265VAC maximum (resistive); 2.0A for 5 to 30 VDC maximum (resistive); 0.2A for 31 to 125 VDC maximum (resistive)**
Current	**Draw 490 mA, maximum**
Isolation	**User input**

3. Product Information

The IC200MDL940 is a 16-Point relay output module from the VersaMax I/O series formerly produced by GE Intelligent Platforms, now under Emerson Automation. This module has Sixteen (16) individually isolated Normally Open (N.O.) or Form A contacts, rated 0 to 125VDC, 5/24/125VDC nominal output voltage and 0 to 265VAC (47 to 63Hz),

Technical specifications for IC200MDL940

Brand GE Fanuc

Series Versamax

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

Part Number IC200MDL940

Series VersaMax

Description PLC relay output

Part Number IC200MDL940

Voltage 24 V DC/ 120-240 Volts AC

Product Description Relay Output Module

Current 2 Amperes

No. of channels Sixteen (16)

Points 16

Output contact form Normally Open (Form A)

Temperature 0-60 degrees Celsius

Switching frequency 20 cycles per minute

Input to Logic Isolation 250 Volts AC

Relay Type Fixed coil, moving armature

Input to Frame Isolation 1500 Volts AC for 60 sec.

Contact Type Silver alloy

Output Voltage Drop 0.3 Volts maximum

Output signal, nominal 5/24/125VDC; 120/240VAC

Load Current 10 milliamperes

Output signal, range 0 to 125VDC; 0 to 265VAC (47 to 63Hz)

Contact current rating 10mA per point minimum; 2.0A for 5 to 265VAC maximum (resistive); 2.0A for 5 to 30 VDC maximum (resistive); 0.2A for 31 to 125 VDC maximum (resistive)

Current Draw 490 mA, maximum

Isolation User input to logic (optical) and frame ground: 250VAC continuous; 1500VAC for 1 minute Group to group: 250VAC continuous; 1500VAC for 1 minute

Output grouping Individually isolated

Output response time 10 ms, maximum

The IC200MDL940 is a relay output module that is part of the VersaMax I/O platform of Emerson Automation, formerly by GE Fanuc. This module comes with Sixteen (16) individually isolated Normally Open (N.O.) of Form A relay output contacts rated 0 to 125VDC, 5/24/125VDC nominal output voltage and 0 to 265VAC (47 to 63Hz), 120/240VAC nominal output voltage with output contact rating of 2.0 Amperes. With the built-in channel to channel isolation, each contact outputs can be wired to different voltage sources to energize the corresponding electrical devices wired to an output channel. The module’s embedded relay is a fixed coil, moving armature type with contacts made of silver alloy. This module can be used to energize output devices such as relay coils, solenoid actuated instruments, pilot lamps and other instruments. It does not come with snubber circuits or internal protection fuses however, external protection may be installed accordingly by the user. This module does not exhibit an output leakage current as the contact output are at an Open state when not activated. In addition, the response time of each output channel are both 10 ms specifically for Open to Close and Close to Open contact changeover. The maximum switching frequency of each output contact is 20 cycle per minute when used with inductive loads. Each output channel are provided with individual channel status indicator for depicting the operational state of each. The IC200MDL940 has maximum backplane current draw of 490mA and requires an external power supply rated 0 to 125VDC, 5/24/125VDC nominal and 0 to 265VAC (47 to 63Hz), with 120/240VAC nominal supply voltage.

The IC200MDL940 module is a VersaMax PLC relay output module manufactured by GE Fanuc. It is equipped with 16 output points. This module has Form A contact outputs and compatible of being used in Class 1, Division 2 rated environment in a temperature range between 0 and 60 degrees Celsius. It meets different environmental and industrial standards, including the CE and cULus standards. These individual points are isolated from each other. The IC200MDL940 module has a voltage rating of 24 Volts DC and 120 to 240 Volts AC. It has a current rating of 2 Amps. The front section of the module has a lock/unlock lever. There are LED indicators for each individual point to indicate the activity on the point. The contacts in the module are in a closed state when the CPU logic bit is set to 1. The GE Fanuc VersaMax IC200MDL940 module is powered through the backplane. The load on the module should be powered through an external power source. An additional CPU is needed to process logical operation for the module. The user input to logic and frame ground isolation rating of the module is 250 Volts AC continuous, and 1500 Volts AC for a time period of up to 60 seconds. There is an output voltage drop of 0.3 Volts maximum. The load current of the IC200MDL940 module is 10 milliamps per point. The relay used in the module is a fixed coil relay with a moving armature. The contact type is made up of high-quality silver alloy.