GE Versamax Series Service Manual

IC200MDD840

1. Description

The IC200MDD840 is a 32-Point combination discrete I/O module from the VersaMax I/O series formerly produced by GE Intelligent Platforms, now under Emerson Automation. This module has Twenty (20) 24 VDC Positive Logic inputs and Twelve (12) Form A, 2.0 Ampere rated, relay contact outputs. This module has maximum backplane current consumption of 375 mA.

2. Specifications

Specification	Value
Brand	**GE Fanuc**
Series	**VersaMax I/O**
Manufacturer	**GE Fanuc**
Part	**Number IC200MDD840**
Part	**Number IC200MDD840**
Brand	**GE Intelligent Platforms/GE Fanuc**
Product	**Description Combination Discrete Input and Output Module**
No.	**of I/O channels Thirty-Two (32)**
Bulletin	**IC200**
No.	**of input channels Twenty (20)**
Product	**Type Discrete I/O Module**
Input	**signal, nominal 24 VDC**
Number	**of I/O Points 32**
Input	**signal, range 0-30 VDC**
Inputs	**20**
On	**state current 2.0-5.5 mA**
Outputs	**12**
No.	**of Output channels Six (6) Form A relay contacts**
Types	**of Input Points Positive-Logic/Sourcing**
Channel	**Isolation Two (2) groups of Six (6) outputs each**
Input	**Voltage 24 V DC**
Contact	**output rating 10mA per point minimum 2.0A for 5 to 265 VAC maximum (resistive) 2.0A for 5 to 30 VDC maximum (resistive) 0.2A for 31 to 125 VDC maximum (resistive)**
Output	**Voltage 0 to 125 V DC**
Output	**voltage 0-125 VDC, 5/24/125 VDC nominal; 0-265 VAC (47-63 Hz), 120/240 VAC nominal**
On-State	**Current 2.0 to 5.5 mA**
External	**Power supply 0-125 VDC, 5/24/125**

3. Product Information

The IC200MDD840 is a 32-Point combination discrete I/O module from the VersaMax I/O series formerly produced by GE Intelligent Platforms, now under Emerson Automation. This module has Twenty (20) 24 VDC Positive Logic inputs and Twelve (12) Form A, 2.0 Ampere rated, relay contact outputs. This module has maximum backplane current consumption of 375 mA.

Technical specifications for IC200MDD840

Brand GE Fanuc

Series VersaMax I/O

Manufacturer GE Fanuc

Part Number IC200MDD840

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Brand GE Intelligent Platforms/GE Fanuc

Product Description Combination Discrete Input and Output Module

No. of I/O channels Thirty-Two (32)

Bulletin IC200

No. of input channels Twenty (20)

Product Type Discrete I/O Module

Input signal, nominal 24 VDC

Number of I/O Points 32

Input signal, range 0-30 VDC

Inputs 20

On state current 2.0-5.5 mA

Outputs 12

No. of Output channels Six (6) Form A relay contacts

Types of Input Points Positive-Logic/Sourcing

Channel Isolation Two (2) groups of Six (6) outputs each

Input Voltage 24 V DC

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

Output Voltage 0 to 125 V DC

Output voltage 0-125 VDC, 5/24/125 VDC nominal; 0-265 VAC (47-63 Hz), 120/240 VAC nominal

On-State Current 2.0 to 5.5 mA

External Power supply 0-125 VDC, 5/24/125 VDC nominal; 0-265 VAC (47-63 Hz), 120/240 VAC nominal

Off-State Current 0-0.5 mA

Current Draw 375 mA, maximum

LED indicators Individual channel LED indicators; OK LED;

Dimensions 110 mm (4.3 in) x 66.8 mm (2.63 in) x 50 mm (1.956 in)

The IC200MDD840 is a component module that part of the VersaMax product family of Emerson Automation, formerly by GE Intelligent Platforms (GE IP). This module is specifically a combination I/O module that features embedded discrete input and output circuits such as Ten (10) Positive logic 24 VDC inputs and Twelve (12) Form A or Normally Open (N.O.) contact outputs. This module has maximum backplane current draw of 375 mA. The input channels are arranged in Two (2) groups of Ten (10) input channels each group. Input characteristics include input voltage compatibility of 0-30 VDC with 24 VDC nominal voltage; On state voltage of +15 to +30 VDC; Off-state voltage of 0 to 0.5 mA; Typical On and Off signal transition delay of 0.5 ms, maximum and input impedance of 10k Ohms, maximum. The input channels are provided with configurable filter time which can be used for electronically and mechanically noisy input channels, eliminating false positive and false negative signals. These filter times include 0 ms, 1.0 ms and 0.7 ms with 1.0 ms as the default configuration. The relay output channels are arranged in Two (2) groups of Six (6) channels each group. The contact outputs are rated 10mA per point minimum; 8.0A maximum per module; 2.0 Amps for 5 to 265VAC, maximum for resistive loads; 2.0 Amps for 5 to 30 VDC, maximum for resistive loads and 0.2 Amp for 31 to 125 VDC, maximum when used with resistive as well. The module’s relay type is a fixed coil, moving armature with silver alloy contact types.

The IC200MDD840 discrete I/O module is a product of the GE Intelligent Platforms/GE Fanuc, and it is a member of the Versamax product family and it provides 12 relay outputs and 20 discrete inputs. The GE Fanuc IC200MDD840 module has the inputs grouped into 2 rows with 10 inputs each. These input points are available in sourcing types and positive logic types, but they generally receive electric current from the connected devices then return the current on common. Also, the 12 relay outputs on this discrete I/O module are placed in 2 groups with 6 points each, and each group can sustain up to 8 Amps of current. This module has approximate dimensions of 4.3 x 2.63 x 1.956 inches, but these measurements are exclusive of the height of the carrier or the mating connections. The GE Fanuc IC200MDD840 discrete I/O module draws its power directly from the backplane that is mounted on the rack, but for all the output loads, an external power source required. It operates on 24 Volts DC input voltage and on an output voltage ranging between 0 and 125 Volts DC and 0 to 265 Volts AC. When the I/O are on, the current rating of the IC200MDD840 module is 2.0 to 5.5 milliamps, while it has a current rating of 0 to 0.5 milliamps when it is in the off state. This module performs processing through the network interface unit (NIU) and the central processing unit (CPU) in the PLC system. Nevertheless, the IC200MDD840 module does not come with protection measures like internal fuses, and it does not support the channel-to-channel isolation.