GE Versamax Series Service Manual

IC200MDD845

1. Description

The IC200MDD845 is a 24-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 Sixteen (16) 24 VDC Positive Logic inputs and Eight (8) individually isolated Form A, 2.0 Amperes, relay contact outputs. This module has maximum backplane current consumption of 270 mA.

2. Specifications

Specification	Value
Brand	**GE Intelligent Platforms/GE Fanuc**
Series	**VersaMax I/O**
Manufacturer	**GE Fanuc**
Part	**Number IC200MDD845**
Part	**Number IC200MDD845**
Product	**Description Combination Discrete Input and Output Module**
No.	**of I/O channels Twenty-Four (24)**
Bulletin	**IC200**
No.	**of input channels Sixteen (16)**
Product	**Type Mixed Module**
Input	**signal, nominal 24 VDC**
I/O	**Points 24**
Input	**signal, range 18-30 VDC**
Inputs	**16**
On	**state current 2.0-5.5 mA**
Outputs	**8**
Off-state	**current 0-0.5 mA**
Output	**Logic 1**
No.	**of Output channels Eight (8) Form A relay contacts**
CPU	**Active**
Channel	**Isolation Output channels are individually isolated**
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 Range 0 to 125 V DC, 0 to 265 V AC**
Output	**voltage 0-125 VDC, 5/24/125 VDC nominal; 0-265 VAC (47-63 Hz), 120/240 VAC nominal**
Frequency	**47 to 63 Hz**
External	**Power supply 0-125 VDC, 5/24/125 VDC no**

3. Product Information

The IC200MDD845 is a 24-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 Sixteen (16) 24 VDC Positive Logic inputs and Eight (8) individually isolated Form A, 2.0 Amperes, relay contact outputs. This module has maximum backplane current consumption of 270 mA.

Technical specifications for IC200MDD845

Brand GE Intelligent Platforms/GE Fanuc

Series VersaMax I/O

Manufacturer GE Fanuc

Part Number IC200MDD845

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Product Description Combination Discrete Input and Output Module

No. of I/O channels Twenty-Four (24)

Bulletin IC200

No. of input channels Sixteen (16)

Product Type Mixed Module

Input signal, nominal 24 VDC

I/O Points 24

Input signal, range 18-30 VDC

Inputs 16

On state current 2.0-5.5 mA

Outputs 8

Off-state current 0-0.5 mA

Output Logic 1

No. of Output channels Eight (8) Form A relay contacts

CPU Active

Channel Isolation Output channels are individually isolated

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 Range 0 to 125 V DC, 0 to 265 V AC

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

Frequency 47 to 63 Hz

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

Current Draw 270 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 IC200MDD845 is a combination I/O module that is part of the VersaMax product family by Emerson Automation. This module is used as part of a VersaMax distributed I/O station or as part of a VersaMax control system utilizing native CPU modules. Being a combination I/O module, the IC200MDD845 has a total of 24 input and output channels which is specifically comprised of 16 input channels supporting positive logic wiring and accepts a nominal signal voltage of 24 VDC; 8 Form A or Normally Open (N.O.) contact outputs that are rated 2.0 Amperes and support conduction of 5/24/125 VDC and 120 / 240 VAC nominal voltages with allowable voltage range of 0-125 VDC and 0-265 VAC. The IC200MDD845 has backplane current consumption of 270 mA, maximum. Individual LED status indicators are assigned to each input and output channel allowing local monitoring of the actuation and energization state of each of the module's channels. An OK LED is also present to the module indicating that backplane power is continuously being supplied to the IC200MDD845. The input channels of the IC200MDD845 have an On-state current of 2.0-5.5 mA while the Off-state current is 0-0.5 mA. Conversely, the output load currents are minimum of 10 mA per point; maximum of 2.0 Amperes at 5-265 VAC, 2.0 Amperes at 5-30 VDC and 0.2 Amperes at 31-125 VDC, all for resistive loads. Both the input and output channels have typical response time of 0.5 ms for ON signal transition and 10 ms for Off signal changeover.

The GE Fanuc IC200MDD845 mixed module is a product of GE Fanuc and a member of the VersaMax series. This module supports discrete inputs and outputs and it provides 2 groups of 8 inputs each and another group of 8 outputs, for a total of 24 points. The IC200MDD845 module has Form A relay outputs, and they are individually isolated. The GE Fanuc IC200MDD845 module needs an IC200CHS series carrier base. It supports channel to channel isolation for the output points only. It does not support snubbers, internal fuses, or any other protection systems. There are multiple LED indicators showing the status of the device. The IC200MDD845 mixed module is supplied with power from the backplane, but any additional loads will require a second source of power. The total of power drawn by this module from the backplane power source depends on the amount of active I/O points, and it has a total of 270 milliamps of maximum current consumption. The total number of I/O points that can be concurrently active depends on many factors. The IC200MDD845 mixed module has an input point voltage of 24 Volts DC and an output voltage range of 0 to 125 Volts DC and 0 to 265 Volts AC at a frequency of 47 to 63 Hertz.