GE Versamax Series Service Manual

IC200MDL750

1. Description

The IC200MDL750 is a 32-Point discrete output module from the VersaMax I/O series formerly produced by GE Intelligent Platforms, now under Emerson Automation. This module has Thirty-Two (32) output channels that supports positive logic wiring configuration, in Two (2) groups of Sixteen (16) channels per group.

2. Specifications

Specification	Value
Brand	GE Fanuc
Series	Versamax
Manufacturer	Emerson Automation / GE Fanuc (former)
Manufacturer	GE Intelligent Platforms (Former); Emerson Automation
Part	Number IC200MDL750
Series	VersaMax I/O
Part	Number IC200MDL750
Description	Output module
Product	type Discrete Output Module
Product	Description Discrete Output Module
Points	32
No	of Channels 32
No.	of channels Thirty-Two (32)
Current	per Point 0.5 Amperes
Output	Voltage Range +10.2 to +30VDC
No.	of input groups Two (2)
Backplane	Current 90 milliamperes
Output	voltage, nominal 12 / 24VDC
No.	of channel per group Sixteen (16)
Environment	Class I Division 2
Output	current per channel, min. 0.5 Amperes
Output	signal, nominal 12/24 VDC
Temperature	0-30 degrees Celsius
Inrush	current, max 2 Amperes
Output	signal, range 10.2-30 VDC
Mounting	DIN Rail
Response	time, ON transition 0.2 ms
Load	Current per Point 0.5 A per point
Weight	0.90 Kgs
Response	time, OFF transition 1.0 ms
Inrush	current 2.0 A inrush maximum for 100 ms
LED	indicators In

3. Product Information

The IC200MDL750 is a 32-Point discrete output module from the VersaMax I/O series formerly produced by GE Intelligent Platforms, now under Emerson Automation. This module has Thirty-Two (32) output channels that supports positive logic wiring configuration, in Two (2) groups of Sixteen (16) channels per group.

Technical specifications for IC200MDL750

Brand GE Fanuc

Series Versamax

Manufacturer Emerson Automation / GE Fanuc (former)

Manufacturer GE Intelligent Platforms (Former); Emerson Automation

Part Number IC200MDL750

Series VersaMax I/O

Part Number IC200MDL750

Description Output module

Product type Discrete Output Module

Product Description Discrete Output Module

Points 32

No of Channels 32

No. of channels Thirty-Two (32)

Current per Point 0.5 Amperes

Output Voltage Range +10.2 to +30VDC

No. of input groups Two (2)

Backplane Current 90 milliamperes

Output voltage, nominal 12 / 24VDC

No. of channel per group Sixteen (16)

Environment Class I Division 2

Output current per channel, min. 0.5 Amperes

Output signal, nominal 12/24 VDC

Temperature 0-30 degrees Celsius

Inrush current, max 2 Amperes

Output signal, range 10.2-30 VDC

Mounting DIN Rail

Response time, ON transition 0.2 ms

Load Current per Point 0.5 A per point

Weight 0.90 Kgs

Response time, OFF transition 1.0 ms

Inrush current 2.0 A inrush maximum for 100 ms

LED indicators Individual channel LED indicators; OK LED; FLD PWR LED

External Power supply 10.2-30 VDC, 12/24 VDC nominal

Internal fuses None

Current Draw 90 mA, maximum

External Power supply +10.2 to +30VDC

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

Isolation 250VAC continuous; 1500VAC for 1 minute

The IC200MDL750 is a high-density digital output module that is manufactured by Emerson Automation, formerly by GE Intelligent Platforms (GE IP). This module mainly features Thirty-Two (32) output channels in Two (2) groups of Sixteen (16) output channels each. This module is typically utilized to actuate or energize electrical loads such as solenoid actuated devices, relay coils, pilot lamps and other devices with dual-state operation only particularly, binary or On and Off. It is compatible for use with 24 VDC rated devices as the IC200MDL750's nominal voltage output is 12 / 24 VDC with an output voltage range of 10.2 - 30 VDC along an output current of 0.5 A per channel. The IC200MDL750 is part of the VersaMax I/O platform, designed to be used as a component module of a distributed I/O architecture. It requires use of a carrier base that hosts the wiring terminals intended for the module. With the carrier base, the module can be installed in horizontal or vertical orientation, onto a standard 35 mm DIN rail. The IC200MDL750 physical measurement is 110 mm (4.3 in) x 66.8 mm (2.63 in) x 50 mm (1.956 in), excluding the dimension of the carrier base. Similar to the other I/O modules, each output channel is provided with an individua LED status indicator that is used to locally monitor the activity of the module per channel. In addition, an OK LED is also provided, depicting the active supply of power from the backplane which is maximum of 90 mA.

The IC200MDL750 module is a Versamax output module. It is a 32-point output module and it runs with a voltage rating of 24 Volts DC. It comes with 0.5 Amps of rated current per point. It consumes a backplane current of 90 milliamps. It is compact in size and it has a weight of 0.90 kilograms. The IC200MDL750 module is a positive logic output module with 2 groups of 16 outputs. The 32 total outputs have a DC+ terminal and a DC- terminal. An external suppression circuit is used with the output module when the wiring is connected with inductive loads. The module is certified to be operated in a Class I Division 2 rated hazardous location. These module has channel LEDs that illuminate when the field power is present. The channels have an on response time of 0.2 milliseconds maximum, and an off response time of 1 millisecond maximum. The output leakage current of the IC200MDL750 module is 0.5 milliamps at 30 Volts DC. The output module can be easily mounted using a DIN rail. The temperature of the module should be maintained between 0 and 30 degrees Celsius to avoid thermal derating. The number of points that can be operated at a time depends on the ambient temperature and the orientation of the module.