GE Versamax Series Service Manual

IC200MDL930

1. Description

The IC200MDL930 is an 8-Point relay output module from the VersaMax I/O series formerly produced by GE Intelligent Platforms, now under Emerson Automation. This module has Eight (8) 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 IC200MDL930**
Series	**VersaMax**
Description	**Output module**
Part	**Number IC200MDL930**
Point	**8**
Product	**Description Relay Output Module**
Backplane	**Current 243 milliamperes**
No.	**of channels Sixteen (16)**
Standards	**CE, cULus**
Output	**contact form Normally Open (Form A)**
Switching	**Frequency 20 cycles per minute**
Relay	**Type Fixed coil, moving armature**
Temperature	**0-30 degrees Celsius**
Contact	**Type Silver alloy**
Response	**Time On/Off 10 milliseconds**
Output	**signal, nominal 5/24/125VDC; 120/240VAC**
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 435 mA, maximum**
Isolation	**User input to logic (optical) and frame ground: 250VAC continuous; 1500VAC for 1 minute Group to group: 250VAC continuous; 1500VAC f**

3. Product Information

The IC200MDL930 is an 8-Point relay output module from the VersaMax I/O series formerly produced by GE Intelligent Platforms, now under Emerson Automation. This module has Eight (8) 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 IC200MDL930

Brand GE Fanuc

Series Versamax

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Part Number IC200MDL930

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Description Output module

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Point 8

Product Description Relay Output Module

Backplane Current 243 milliamperes

No. of channels Sixteen (16)

Standards CE, cULus

Output contact form Normally Open (Form A)

Switching Frequency 20 cycles per minute

Relay Type Fixed coil, moving armature

Temperature 0-30 degrees Celsius

Contact Type Silver alloy

Response Time On/Off 10 milliseconds

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

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 435 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 IC200MDL930 is an Eight (8) channel output module that belongs to the VersaMax I/O platform, formerly by GE Intelligent Platforms (GE IP), currently under Emerson Automation. This module comes with individually isolated relay output channels in Normally Open (N.O.) or Form A contact position. The module's built-in relay are of Fixed coil, moving armature type with relay contacts made of silver alloy. These contact outputs are applicable in energizing electrical loads operating at different voltage categories specifically, 0 to 125VDC and 0 to 265VAC at 47 to 63Hz AC voltage frequency. The IC200MDL930 contact outputs are essentially dry contact outputs. It requires an external supply voltage source to conduct the appropriate voltage to the connected electrical load. It may be used with resistive or conductive loads however, with conductive loads, external protection or suppression circuits such as fuse is recommended for installation. The current rating of the output contacts are minimum of 10mA per point; 2.0A for 5 to 265VAC, maximum; 2.0A for 5 to 30 VDC, maximum and 0.2A for 31 to 125 VDC, maximum. All current ratings are rated for resistive loads. In addition, the nominal external supply voltage ratings of the contact outputs are 5/24/125VDC and 120/240VAC. The IC200MDL930 has a maximum backplane current draw of 245 mA when all outputs energized. This module is provided with individual channel indicators to depict the energization state of each output channel. It also has a single module OK LED to indicate the active supply of backplane power received by the module.

The IC200MDL930 module is an 8-point output module manufactured by GE Fanuc. It is part of the Versamax family. The output points of the module are isolated individually. The output module draws 245 milliamps power from the backplane with all outputs activated. The IC200MDL930 module is fully compatible with both AC and DC loads. The 8 points of the module have their own LED indicators to indicate the presence of field power through the points. The module contact point is by default closed during the active period of the module. The output bit is set to 1 at this point. The installation of the module is easy when using the rack mounting method on the backplane. The output module is certified with the CE, cULus, and other industrial standards. It is made for use in global settings. The IC200MDL930 output module is an intelligent device and it can perform faster processing than other similar modules. This output module is free from output leakage current. The relays of each point are designed with a fixed coil and an armature. The response time for on/off is slower than it is other Versamax modules, at a time period of 10 milliseconds. The module comes with a switching frequency of 20 cycles per minute for inductive loads. No internal fuse or snubber are present in this output module variant. The IC200MDL930 module is cooled with forced air cooling to keep its ambient temperature in a range between 0 and 30 degrees Celsius. Thermal derating starts when the ambient temperature exceeds the maximum temperature rating.