GE IC200MDD843

Official Technical Reference Excerpt

IC200MDD843 shares one compact carrier position between discrete sensing and isolated switching, with separate input and relay power connections defined by the field wiring diagram.

PRODUCT ROLE

Characteristic 1

Combines ten DC inputs and six relay outputs in one module.

Characteristic 2

Provides two-amp switching capability at each relay point.

Characteristic 3

Offers selectable input filtering for field-noise control.

Characteristic 4

Maps a fixed ten-input and six-output image to the VersaMax backplane.

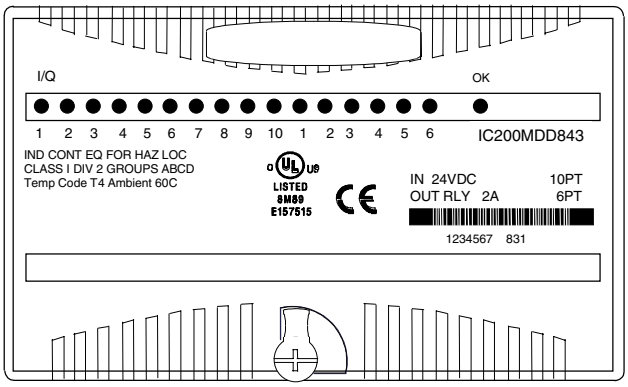
MANUFACTURER DOCUMENT

Manufacturer document	GE Fanuc VersaMax Modules, Power Supplies, and Carriers User's Manual GFK-1504K
Application scope	The values below apply to the identified product and its documented system relationship.
Selection rule	Use the complete ordering string and confirm the installed interfaces before selection.

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IC200MDD843
Mixed Module, 24VDC Positive Logic Input Grouped 10 Points / Output Relay 2.0A per Point Grouped 6 Points

Discrete input/output module IC200MDD843 provides 10 discrete inputs and 6 relay outputs. The inputs form one group of 10 points. Inputs are positive logic or sourcing-type inputs; they receive current from input devices and return the current on the common. The relay outputs form one group of 6 points. The output group can drive a maximum of 8 Amps.



Power for module operation comes from the backplane. Loads must be powered by an external source.

Intelligent processing for the module is performed by the CPU or NIU. The module provides 10 bits of discrete input data and receives 6 bits of discrete output data.

LED Indicators

Individual green LEDs indicate the on/off state of the output points and input points.

The output LEDs are logic-driven and independent of the load conditions.

The green OK LED is on when backplane power is present to the module.

Configuration Parameters

The module's basic input on/off response time is 0.5ms.

For some applications, it may be preferable to add additional filtering to compensate for conditions such as noise spikes or switch bounce. Input filter times of 0ms, 1.0ms, or 7.0ms are selectable via software configuration, for total response times of 0.5ms, 1.5ms, and 7.5ms respectively. The default is 1.0ms filter time total (response time is 1.5ms).

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Module Specifications

Module Characteristics	
Points	10 Positive DC Inputs, one group, 6 Form A Relay Outputs, one group
Module ID	FFFF8035
Isolation: User input/output to logic (optical) and frame ground Group to group Point to point	 250VAC continuous; 1500VAC for 1 minute 250VAC continuous; 1500VAC for 1 minute None
LED indicators	One LED per point shows individual point on/off state OK LED indicates backplane power is present
Backplane current consumption	5V output: 190mA maximum
External power supply	0 to 125VDC, 5/24/125VDC nominal 0 to 265VAC (47 to 63Hz), 120/240VAC nominal
Thermal derating	None
Configuration parameters	Input response time
Input Characteristics	
Input voltage	0 to +30VDC, +24VDC nominal
On state voltage	+15.0 to +30.0 VDC
Off state voltage	0 to +5.0 VDC
On state current Off state current	2.0 to 5.5mA 0 to 0.5mA
On response time Off response time	0.5ms maximum
Configurable filter time	0ms, 1.0ms (default), or 7.0ms
Input impedance	10kOhms maximum
Output Characteristics	
Output voltage	0 to 125VDC, 5/24/125VDC nominal 0 to 265VAC (47 to 63Hz), 120/240VAC nominal
Output voltage drop	0.3V maximum
Load current	10mA per point minimum, 8.0A maximum per module 2.0 Amps for 5 to 265VAC maximum (resistive) 2.0 Amps for 5 to 30 VDC maximum (resistive) 0.2 Amp for 31 to 125 VDC maximum (resistive)
Output leakage current	Not applicable (open contact)
On response time Off response time	10ms maximum 10ms maximum
Protection	No internal fuses or snubbers.
Switching frequency	20 cycles per minute (inductive load)
Relay type	Fixed coil, moving armature
Contact type	Silver alloy
Contact life	See appendix B

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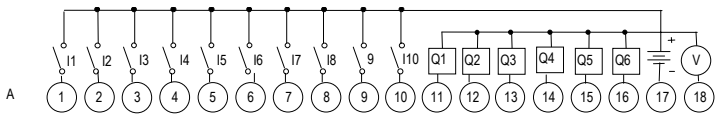
Field Wiring

Terminal	Connection	Terminal	Connection
A1	Input 1	B1	No connection
A2	Input 2	B2	No connection
A3	Input 3	B3	No connection
A4	Input 4	B4	No connection
A5	Input 5	B5	No connection
A6	Input 6	B6	No connection
A7	Input 7	B7	No connection
A8	Input 8	B8	No connection
A9	Input 9	B9	No connection
A10	Input 10	B10	No connection
A11	Output 1	B11	No connection
A12	Output 2	B12	No connection
A13	Output 3	B13	No connection
A14	Output 4	B14	No connection
A15	Output 5	B15	No connection
A16	Output 6	B16	No connection
A17	Inputs 1-10 Common	B17	No connection
A18	Outputs 1-6 Common	B18	No connection

If additional bussed terminals are needed, the B terminals can be made available by using a shorting bar. The shorting bar has a maximum current-carrying capacity of 2 Amps per point. See chapter 2 for additional information about using the shorting bar. When wiring outputs to inductive loads, use of external suppression circuits is recommended. See chapter 2, "Installing Wiring for I/O Devices-Wiring to Inductive Loads" for more information.

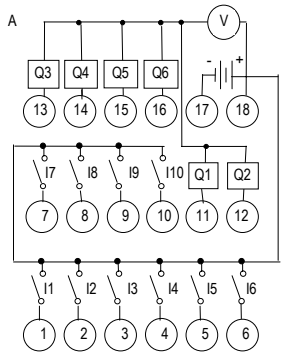
Wiring Connections for Carriers with Two Rows of Terminals

IC200CHS002, 005
IC200CHS012, 015



Wiring Connections for Carriers with Three Rows of Terminals

IC200CHS001, 022, 025
IC200CHS011



Related models and selection control

Use these live ApterPower pages for comparison. Verify each complete ordering string independently.

RELATED PRODUCT REFERENCES

GE IC200ALG240	Technical-reference companion. Review the complete ordering string before selection.
GE IC200ALG322	Technical-reference companion. Compare the required interface and system position.
GE IC200PWR002E	Technical-reference companion. Confirm the execution independently for the intended task.

EXACT-SELECTION CONTROLS

Product identity	Confirm the complete IC200MDD843 marking.
System interface	VersaMax I/O
Technical boundary	Record the complete IC200MDD843 identity, terminal assignments and channel response before removal, then prove the restored function before release.
Source	GE Fanuc VersaMax Modules, Power Supplies, and Carriers User's Manual GFK-1504K

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