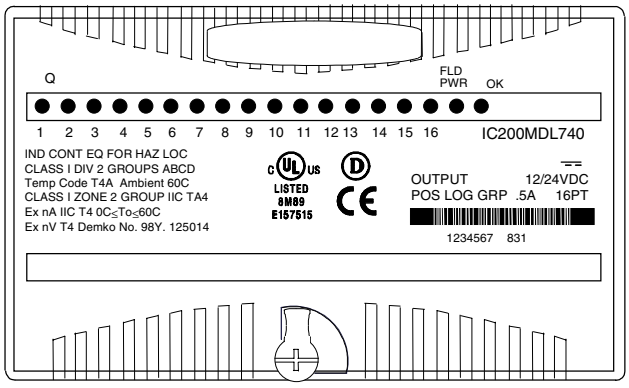
IC200MDL740
Output Module, 12/24VDC Positive Logic 0.5 Amp, 16 Points

Discrete output module IC200MDL740 provides one group of 16 discrete outputs. The outputs are positive or sourcing type outputs. They switch the loads to the positive side of the DC supply and thus supply current to the loads.



Note: 12V output functionality requires module version IC200MDL740B or higher.

An external DC power supply must be provided to switch power to the loads.

Intelligent processing for this module is performed by the CPU or NIU. The module receives 16 bits of discrete output data.

LED Indicators

Individual green LEDs indicate the on/off state of the output points. The LEDs are dependent on field power, but independent of load conditions.

The green FLD PWR LED is on when field power is applied to the module.

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

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Module Specifications

Module Characteristics	
Points	1 group of 16 outputs
Module ID	FFFF8080
Isolation: User input to logic (optical) and to frame ground Group to group Point to point	 250VAC continuous; 1500VAC for 1 minute Not applicable None
LED indicators	One LED per point shows individual point on/off state FLD PWR LED indicates field power is present OK LED indicates backplane power is present
Backplane current consumption	5V output: 45mA maximum
External power supply	+10.2 to +30VDC, +12/24VDC nominal
Thermal derating	See diagram
Output Characteristics	
Output voltage	+10.2 to +30VDC, +12/24VDC nominal
Output voltage drop	0.3V maximum
Load current	0.5A at 30VDC maximum (resistive) 2.0A inrush maximum for 100ms
Output leakage current	0.5mA at 30VDC maximum
On response time Off response time	0.2ms, maximum 1.0ms, maximum
Protection (each output)	No internal fuse

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Field Wiring

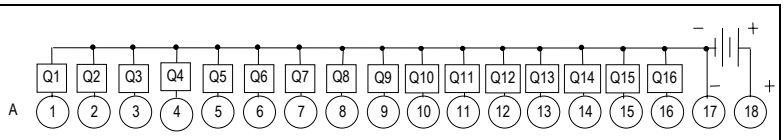
Terminal	Connection	Terminal	Connection
A1	Output 1	B1	No connection
A2	Output 2	B2	No connection
A3	Output 3	B3	No connection
A4	Output 4	B4	No connection
A5	Output 5	B5	No connection
A6	Output 6	B6	No connection
A7	Output 7	B7	No connection
A8	Output 8	B8	No connection
A9	Output 9	B9	No connection
A10	Output 10	B10	No connection
A11	Output 11	B11	No connection
A12	Output 12	B12	No connection
A13	Output 13	B13	No connection
A14	Output 14	B14	No connection
A15	Output 15	B15	No connection
A16	Output 16	B16	No connection
A17	DC -	B17	No connection
A18	DC +	B18	No connection

The 16 outputs form one group with a DC+ and a DC- terminal. 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 2A 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.

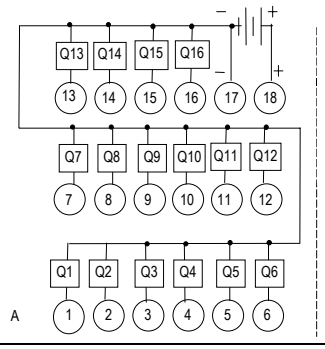
Wiring Connections for Carriers with Two Rows of Terminals

IC200CHS002, 005
IC200CHS012, 015



Wiring Connections for Carriers with Three Rows of Terminals

IC200CHS001, 022, 025
IC200CHS011



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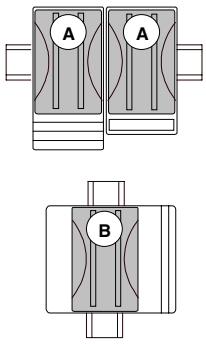
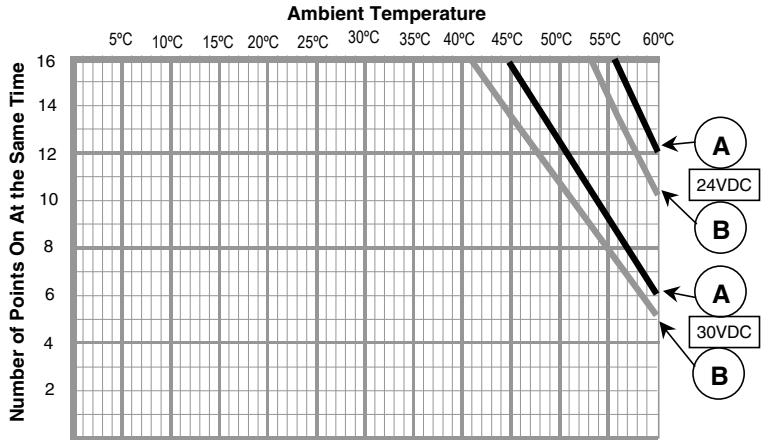
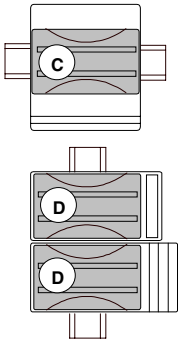
Thermal Derating

The number of points that can be on at the same time depends on the ambient temperature, the external voltage, and the orientation of the module and DIN rail. The charts below show thermal deratings for the module at 24VDC and 30VDC with the maximum output current per point.







No derating at 24VDC. Deratings at 30VDC shown below.