

120 Volt AC Input, 16 Point IC693MDL240

The **120 volt AC Input** module for the Series 90-30 Programmable Logic Controller provides 16 input points with one common power input terminal. The input circuits are reactive (resistor/capacitor) inputs. Current into an input point results in a logic 1 in the input status table (%I). Input characteristics are compatible with a wide range of user-supplied input devices, such as pushbuttons, limit switches, and electronic proximity switches. Power to operate the field devices must be supplied by the user. This module requires an AC power source, *it cannot be used with a DC power source*.

LED indicators which provide the ON/OFF status of each point are located at the top of the module. This LED block has two horizontal rows with eight green LEDs in each row; the top row labeled A1 through 8 (points 1 through 8) and the bottom row labeled B1 through 8 (points 9 through 16). An insert goes between the inside and outside surface of the hinged door. The surface towards the inside of the module (when the hinged door is closed) has circuit wiring information, and circuit identification information can be recorded on the outside surface. The outside left edge of the insert is color-coded red to indicate a high-voltage module. This module can be installed in any I/O slot of a 5 or 10-slot baseplate in a Series 90-30 PLC system.

Table 6-3. Specifications for IC693MDL240

Rated Voltage	120 volts AC
Input Voltage Range	0 to 132 volts AC, 50/60 Hz
Inputs per Module†	16 (one group with a single common)
Isolation	1500 volts RMS between field side and logic side
Input Current	12 mA (typical) at rated voltage
Input Characteristics:	
On-state Voltage	74 to 132 volts AC
Off-state Voltage	0 to 20 volts AC
On-state Current	6 mA minimum
Off-state Current	2.2 mA maximum
On response Time	30 ms maximum
Off response Time	45 ms maximum
Consumption	90 mA (all inputs on) from 5 volt bus on backplane

† Number of inputs on is dependent upon ambient temperature as shown in figure 6-7.

Refer to Appendix B for product standards and general specifications.

IC693MDL240 Input Module Field Wiring Information

The following figure provides wiring information for connecting user supplied input devices and power source to the 120 volt AC input module.

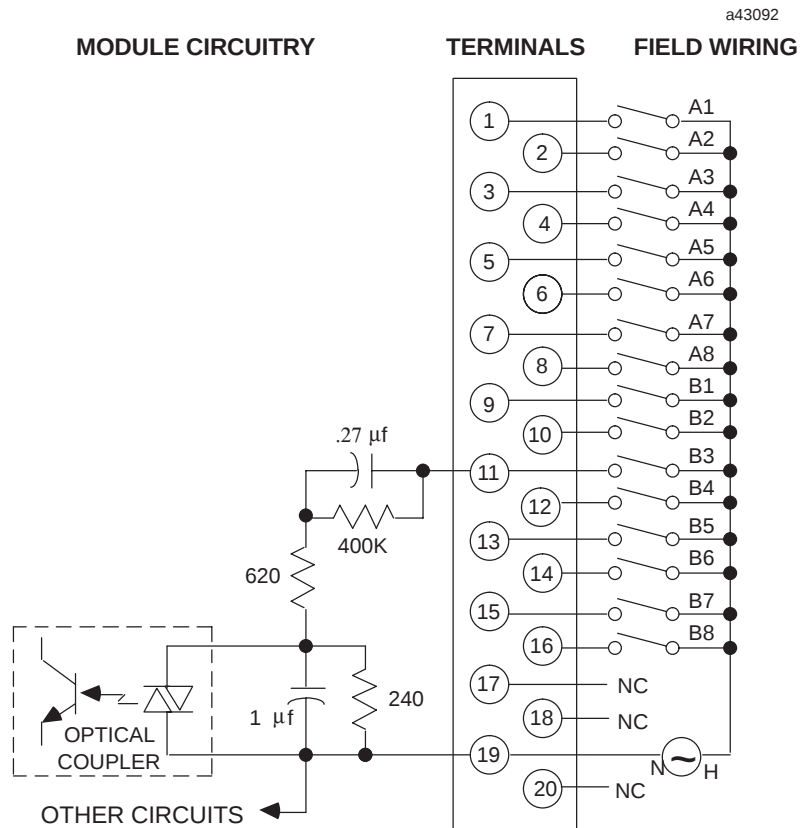


Figure 6-3. Field Wiring - 120 Volt AC Input Module - IC693MDL240

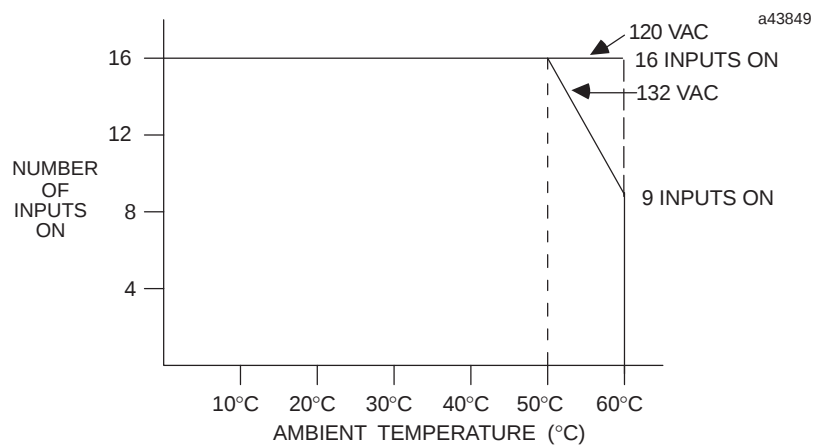


Figure 6-4. Input Points vs. Temperature for IC693MDL240