IC693MAR590

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Table 8-1. Specifications for IC693MAR590

Inputs	
Rated Voltage	120 volts AC
Input Voltage range	0 to 132 volts AC
Inputs per Module	8 (one group of eight inputs)
Isolation	1500 volts RMS between field and logic side
	500 volts RMS between inputs
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 typical
Off Response Time	45 ms typical
Outputs	
Rated Voltage	24 VDC, 120/240 VAC
Operating Voltage	5 to 30 volts DC
	5 to 250 volts AC, 50/60 Hz
Outputs per Module	8 (two groups of four outputs each)
Isolation	1500 volts RMS between field and logic side
	500 volts RMS between groups
Maximum Load ‡	2 amps maximum per output
	4 amps maximum per common
Minimum Load	10 mA
Maximum Inrush	5 amps
On Response Time	15 ms maximum
Off Response Time	15 ms maximum
Internal Power Consumption	80 mA (all I/O on) from +5V backplane bus
	70 mA (all outputs on) from relay +24V backplane bus

† Maximum load current is dependent on operating voltage as shown in the following table.

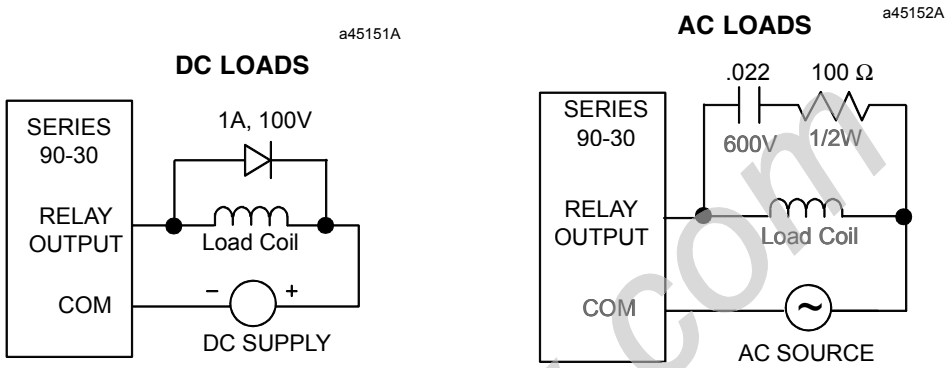
Refer to Appendix B for product standards and general specifications.

Table 8-2. Load Current Limitations for IC693MAR590

Operating Voltage	Maximum Current for Load Type		Typical Contact Life (number of Operations)
	Resistive	Lamp or Solenoid †	
240 VAC, 120 VAC, 24 VDC	2 amps	.6 amps	200,000
240 VAC, 120 VAC, 24 VDC	1 amp	.3 amps	400,000
240 VAC, 120 VAC, 24 VDC	.5 amps	.1 amp	800,000

† For inductive loads

Relay contact life, when switching inductive loads, will approach resistive load contact life if suppression circuits are used. The following figures are examples of typical suppression circuits for AC and DC loads. The 1A, 100V diode shown in the DC load typical suppression circuit is an industry standard 1N4934. The resistor and capacitor shown for AC load suppression are standard components, available from most electronics distributors.



Field Wiring Information

The following figure provides wiring information for connecting user supplied input and load devices, and power source(s) to the 120 Volt Input/Relay Output module.

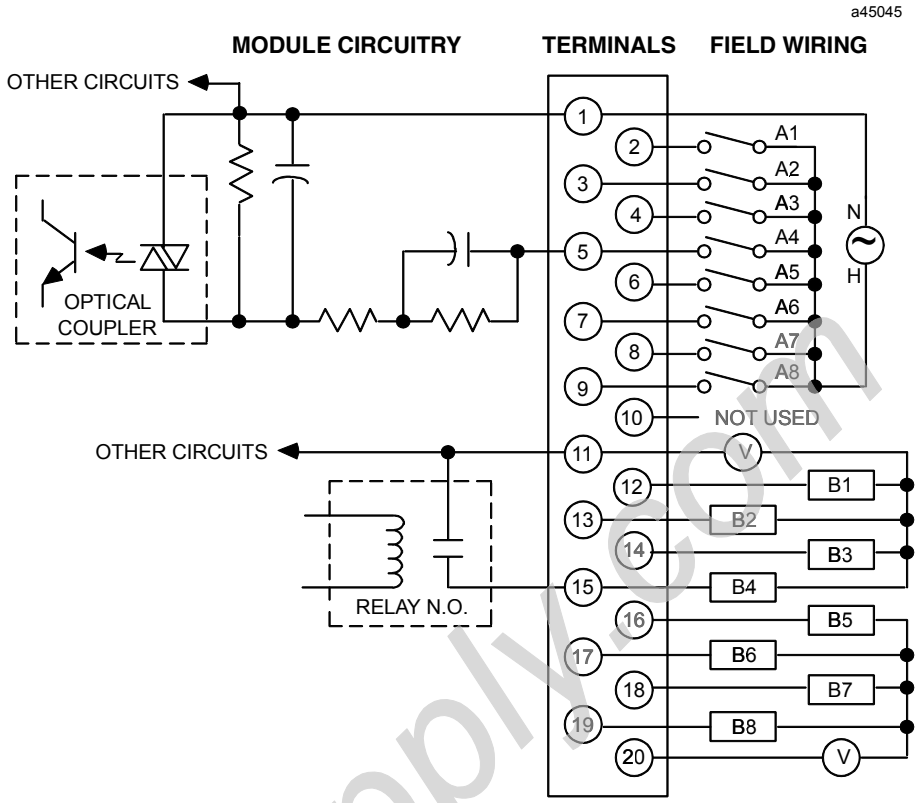


Figure 8-1. Field Wiring 120 VAC Input/Relay Output Module - IC693MAR590