

Relay Output, 2 Amp - 16 Circuits IC655MDL580

This module provides 16 normally-open relay circuits for controlling user output loads. Output switching capacity is two amps, resistive load. 16 LEDs on the module provide a dual function. They provide a visual indication of the status of each output circuit; each LED reflects the ON or OFF state of the corresponding circuit. When commanded through programming, the module's starting I/O address is displayed. Circuit connections are made to the removable terminal block on the front of the module. The output circuits are divided into two groups of eight. On the terminal block, they are labeled A and B, with each terminal in the group labeled 1 to 8. Each group of eight has a single common connection, labeled H. This terminal serves as the hot or common terminal for AC loads or DC loads. The user must supply the AC or DC source of power for loads connected to the module's output circuits, and 24 VDC to power the module's output circuitry.

Table 24. Specifications for Relay Output, 2 Amp - 16 Circuits

Output Circuit Type	Relay Contact, Normally Open
Number of Circuits	16
Internal Circuit Grouping	Two groups, eight circuits per group
Operating Voltage	5 to 30 VDC or 5 to 265 VAC
Peak Voltage	265 VAC
Maximum Operating Current (see following table)	5.0 amps resistive load; any rated AC voltage 8 amps/common; 16 amps/module
Maximum Leakage Current	0.1 mA at 265 VAC, 60 Hz
Smallest Recommended Load	5.0 mA at 5 VAC/DC
Maximum Inrush current	5 amps
OFF to ON Response	< 12 ms
ON to OFF Response	< 12 ms
Status Indicator Location	Logic side
Fuses Rating and Type, Internal	8 amps (1 for each group, fast blow)
Internal Power Consumption, (5 VDC)	Total; 152 mA (typ), 180 mA (max) Each On Point; 9.5 mA
External Power Supply Requirements	Voltage: 24 VDC, 10%; Current: 160 mA at 26.4 VDC
Weight	60 oz (920 g)

Table 25. Load Current Limitations

Operating Voltage	Maximum Current for Load Type		Typical Contact Life (number of Operations)
	Resistive	Lamp or Solenoid †	
24 to 120 VAC	5 amps	1 amp	200,000
24 to 120 VAC	1 amp	.2 amps	400,000
24 to 120 VAC	.1 amps	.02 amps	1,000,000
240 VAC	5 amps	1 amp	100,000
240 VAC	1 amp	.2 amps	300,000
240 VAC	.1 amps	.02 amps	900,000
24 VDC	-	3 amps	100,000
24 VDC	5 amps	1 amp	200,000
24 VDC	1 amp	.2 amps	1,000,000
24 VDC	.1 amps	.02 amps	1,000,000
110 VDC	.4 amps	.1 amps	200,000

† Assumes a 15 ms time constant

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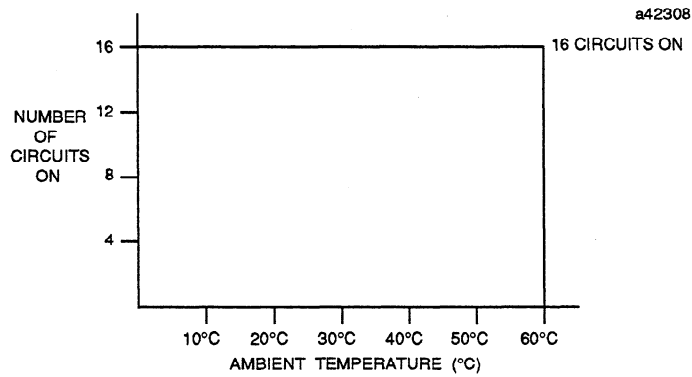


Figure 41. Output Points vs. Temperature for IC655MDL580

Wiring Information - IC655MDL580

The following figure provides the information required for connecting field devices to this module.

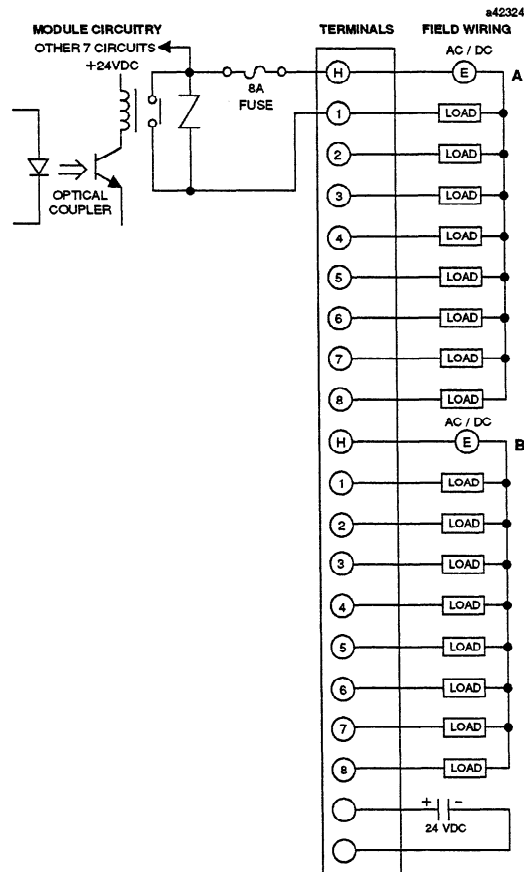


Figure 42. Field Wiring and Typical Circuit for IC655MDL580