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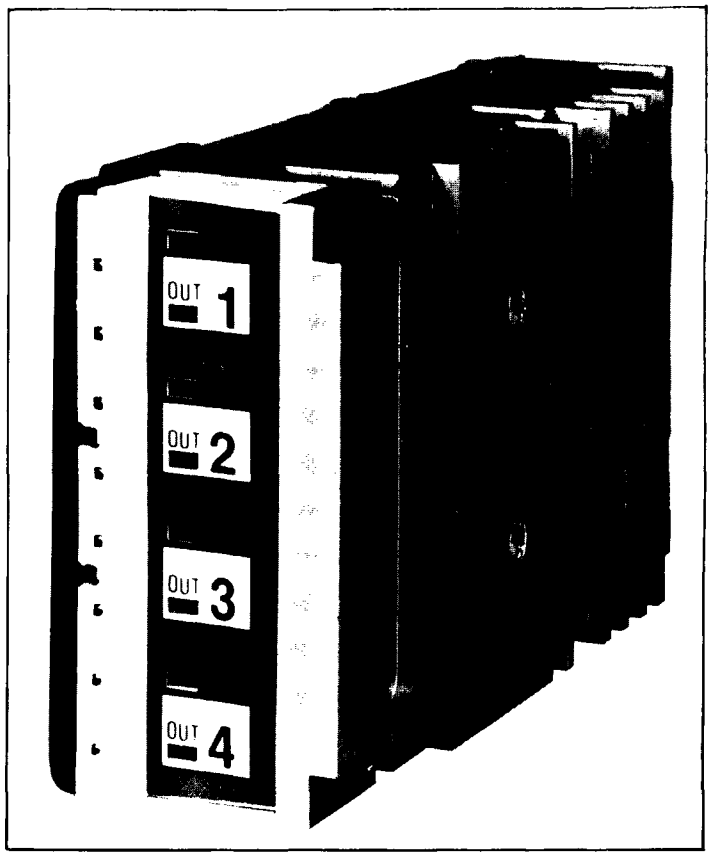
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B550-001 / 115 VAC Output Module
DATA SHEET

FEATURES

- Four 115 VAC output circuits per module
- 2 Amp current rating per output
- Circuits optically isolated from logic
- Zero-crossover switching
- Output status indicators
- Blown fuse indicators
- Simple fuse replacement
- Transient protection
- Easy installation
- Removed and replaced without disturbance to field wiring
- May be mounted in full length, 8 module housing (B545) or half-high, 4 module housing (B546)
- UL rated and approved
- Operates at 0 to 60°C
- Operates from 0 to 95% relative humidity (non-condensing)



GENERAL DESCRIPTION

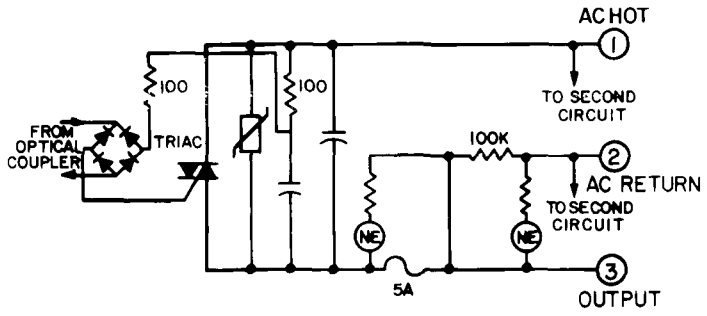
The MODICON B550-001, 115 VAC Output Module converts logic signals used within the MODICON 184/384, 484, and 584 Controller into four independent 115 VAC outputs. Each output is capable of driving a variety of loads up to two amperes. When using the 484 Controller, the 500 series modules are attached directly; an interface assembly (J540) is required with the 184/384 and 584 Controllers.

An output status indicator and blown fuse indicator lamp accompanies each output circuit. The appropriate indicator lights when either the circuit is ON, or a fuse has blown. All output circuits are optically isolated from the controller's logic. This prevents any damage resulting from severe voltage transients prevalent in an industrial environment. Self-contained damping networks and voltage limiting varistors suppress line voltage spikes and prevent false triggering.

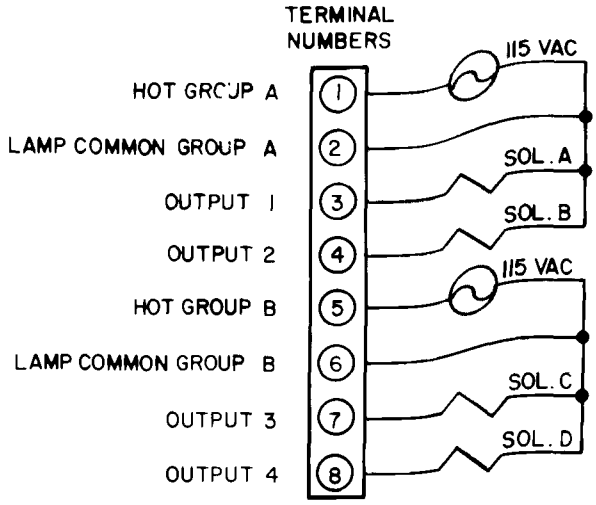
The four output circuits are divided into two groups. Each group, containing two circuits, can be driven by different 115 VAC sources. The module uses four triac devices to switch the loads of the user supplied AC line.

The MODICON B550 Output Module measures 4.44 cm x 8.38 cm x 16.51 cm and weighs about .45 kg. User connections are made to standard barrier strips on the B545 or B546 I/O housing. The module is then secured to the housing via a sliding latch mechanism. This configuration allows a quick replacement of modules without disturbing field wiring.

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B550 115 VAC Output Module
Simplified Schematic



B550 115 VAC Output Module
Terminal Numbering and Connections

SPECIFICATIONS

Load Ratings

ON Current	10mA to 2A continuous per output
Inrush Current	15A (max) for 10ms 5A (max) for 100ms
Working Voltage	80 to 130 VAC 40 to 70 Hz
Transient Voltage	200 VAC for one cycle 150 VAC per 10 sec
On Voltage Drop	Approx 1 VAC at 2A
Off Load Current	5mA (max)

Circuit Characteristics

Topology	4 outputs per module 2 outputs per AC supply
Common Mode Voltage	1500 V (peak) for 10ms 200 VAC continuous
Response Time	ON to OFF, 8.3ms (max) OFF to ON, 10.0ms (max)
Fusing	One 5A fuse per output
Output Status Indicator	One neon lamp per output Lamp ON when output ON
Fuse Indicator	One neon lamp per output Lamp ON when fuse blown

NOTES

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Telephone (617) 475-4700
10M 12/83NP Printed in USA

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