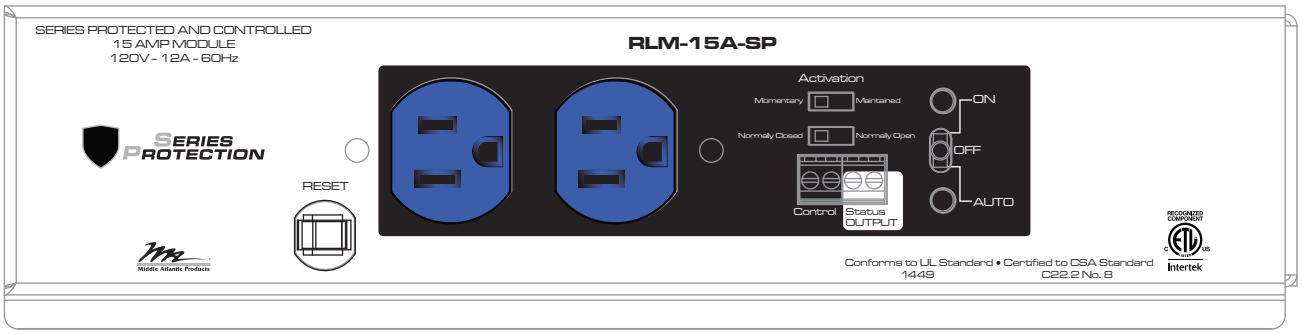
Instruction Sheet

MPR-A Series

Series Protection Modules

U.S. Patent No. 8,947,844



RLM-15A-SP SHOWN

Thank you for purchasing the MPR-A Series Protection Module. Please read these instructions thoroughly before installing this product.

- Non-sacrificial surge technology protects equipment without compromising system ground

- No MOVs or other degrading parts

- Thermal circuit breaker overload protection

- Advanced EMI/RFI filtering

Middle Atlantic Products

IMPORTANT SAFETY INSTRUCTIONS

READ AND SAVE THESE INSTRUCTIONS!
CONSERVER CES INSTRUCTIONS!

- To reduce risk of shock , disconnect the device from the power source before servicing any connected equipment

  Pour réduire les risques d'électrocution, débranchez l'appareil de la source d'alimentation avant l'entretien de tout équipement connecté

- Do not overload this device. Ensure the total load to this device does not exceed that which is listed in the specifications section of this manual

  Ne pas surcharger cette appareil. S'assurer que la charge totale à cet appareil ne dépasse pas celle qui est répertoriée dans la section des spécifictions de ce manuel

- To be used indoors in a dry location only

  Pour être utilisé en intérieur dans un endroit sec seulement

- Do not operate with a damaged cord or plug

  Ne pas faire fonctionner avec un cordon ou une prise endommagée

- Clean only with dry cloth

  Nettoyer avec un chiffon sec seulement



DANGER HAZARDOUS VOLTAGE/DANGER HAUTE TENSION
The lightning flash with the arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of uninsulated dangerous voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

L'éclair avec le symbole de flèche dans un triangle équilatéral est destiné à alerter l'utilisateur de la présence d'une tension dangereuse non isolée dans l'enceinte du produit qui peut être d'une ampleur suffisante pour constituer un risque de choc électrique pour les personnes.



CAUTION/ATTENTION
The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Le point d'exclamation dans un triangle équilatéral est destiné à alerter l'utilisateur de la présence d'importants instructions d'opération et de maintenance (entretien) dans la documentation accompagnant l'appareil.

REGULATORY COMPLIANCE

RECOGNIZED COMPONENT
ETL LISTED
Intertek

The product meets the requirements of the following standards:

- UL Standard 1449
- CSA-C22.2 No. 8

FCC CLASS A

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. Modifications not expressly approved by the manufacturer could void the user's authority to operated the equipment under FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

FUNCTIONALITY

THE RECEPTACLES RECEIVE POWER VIA THE CONTROL CIRCUITS UNDER THE FOLLOWING CONDITIONS:

A) The AUTO-OFF-ON switch is in the ON position.

B) The AUTO-OFF-ON switch is in the AUTO position with the NORMALLY OPEN/CLOSED control selector switch in the NORMALLY OPEN position and there is a contact closure on the remote control terminal block.

C) The AUTO-OFF-ON switch is in the AUTO position with the NORMALLY OPEN/CLOSED control selector switch in the NORMALLY CLOSED position and there is no contact closure on the remote control terminal block.

CONTACT CLOSURE OPERATION

The customer provided contact closure connected to remote control terminal block, can be either momentary or maintained. The MOMENTARY/MAINTAINED selector switch must be in the proper position. The terminal block control closure is ignored when the AUTO-OFF-ON switch is in the ON or OFF position.

MOMENTARY OPERATION

A contact closure is required for the control PCB to process the control signal. Each subsequent closure will alternately turn off and on the power to the controlled receptacles.

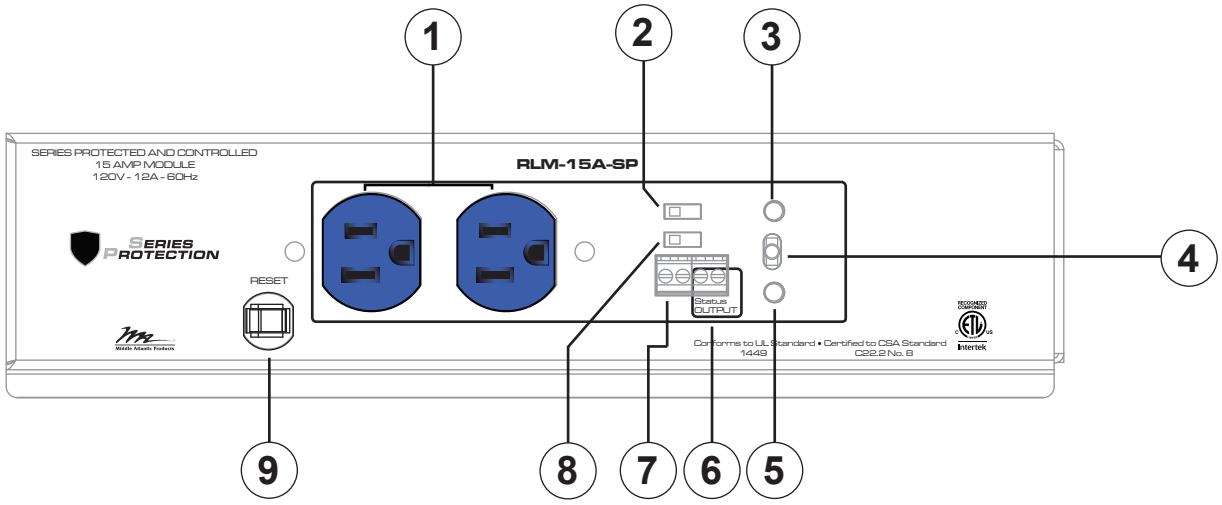
MAINTAINED OPERATION

With the NORMALLY OPEN/CLOSED switch in the NORMALLY OPEN position, a maintained contact closure will energize the receptacles. When this maintained contact is removed, the receptacles will become de-energized. With the NORMALLY OPEN/CLOSED switch in the NORMALLY CLOSED position, a maintained contact closure will de-energize the receptacles. When this maintained contact is removed, the receptacles will become energized.

CONTROLLED OUTLET TERMINAL BLOCK

The Controlled Outlet Terminal Block provides status of outlets via a dry contact. The CLOSED position indicates the receptacles are energized, while the OPEN position indicates that the receptacles are de-energized.

CONNECTIONS, CONTROLS AND INDICATORS (RLM SERIES)



RLM-15A-SP SHOWN

1. **DUPLEX RECEPTACLE:** All Modules contain one duplex receptacle.
   15A Models - (NEMA 5-15R)
   20A Models - (NEMA 5-20R)

2. **'MOMENTARY'** or **'MAINTAINED'** control selection switch.

3. **CONTROL STATUS LED:** Green LED indicates receptacles are ON.

4. **CONTROL SWITCH:** 'AUTO-OFF-ON' (Factory Position OFF).

5. **CONTROL STATUS LED:** Yellow LED indicates control switch is on AUTO.

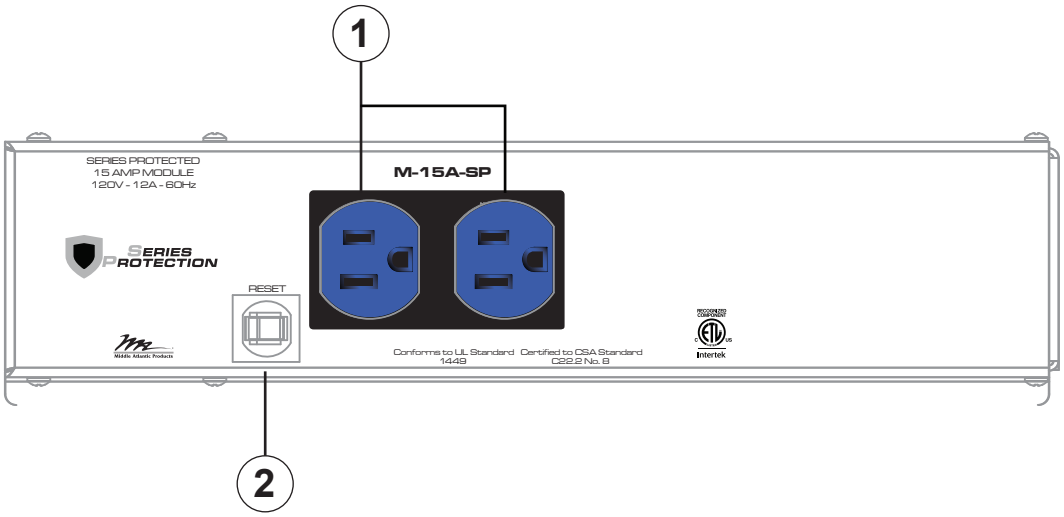
6. **SURGE STATUS:** Provides remote notification of surge status (customer provided closure).

7. **REMOTE CONTROL TERMINAL BLOCK:** This terminal block will activate the receptacle with a dry contact closure (customer provided closure). The control power is provided by the modules' internal 12V DC power supply.

8. **'NORMALLY OPEN'** or **'NORMALLY CLOSED'** control selection switch.

9. **CIRCUIT BREAKER:** Press to reset if the circuit breaker trips.

CONNECTIONS, CONTROLS AND INDICATORS (M SERIES)



M-15A-SP SHOWN

1 **DUPLEX RECEPTACLE:** All Modules contain one duplex receptacle.
15A Models - (NEMA 5-15R)
20A Models - (NEMA 5-20R)

2 **CIRCUIT BREAKER:** Press to reset if the circuit breaker trips.

INSTALLATION OF MODULE TO RACEWAY

1) Insert the flange on the module into the raceway. (FIGURE A)

2) Place the module into raceway. (FIGURE B)

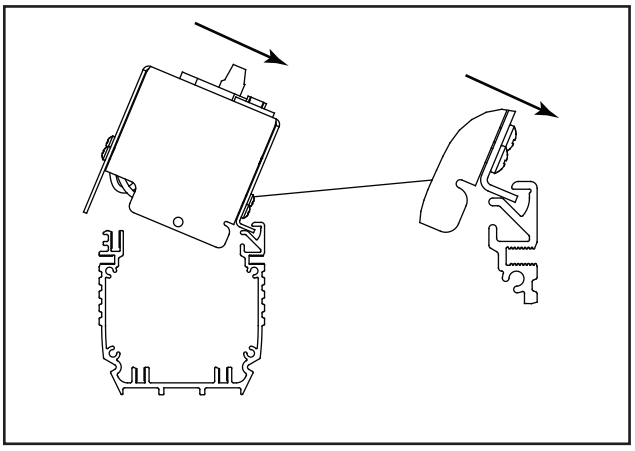


FIGURE A

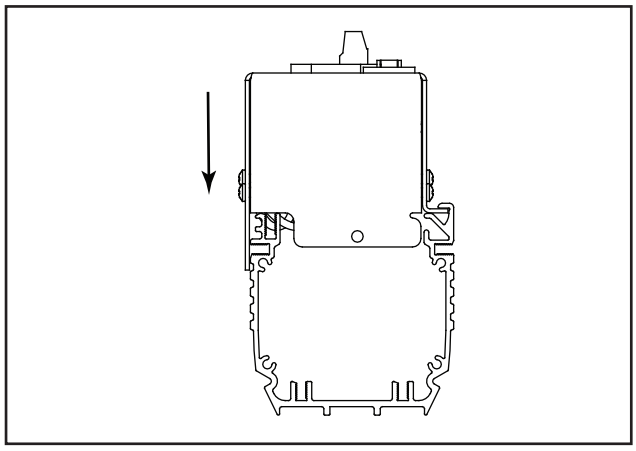


FIGURE B

3) Screw the module to the raceway (FIGURE C).

USE A HAND-HELD SCREWDRIVER AND DO NOT OVERTIGHTEN

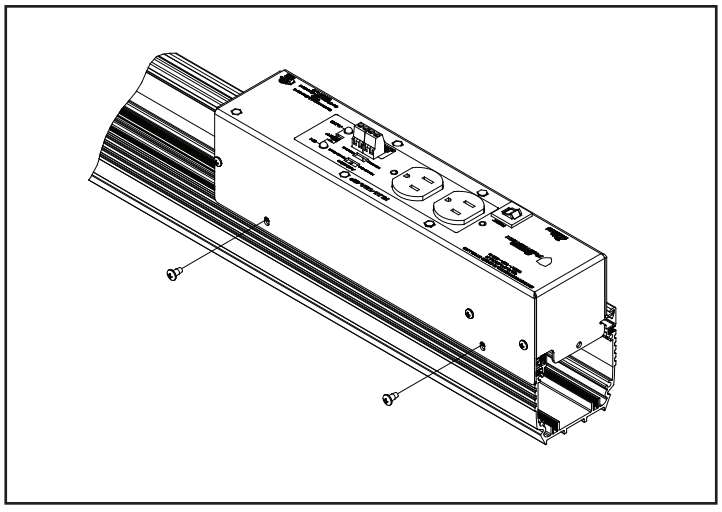
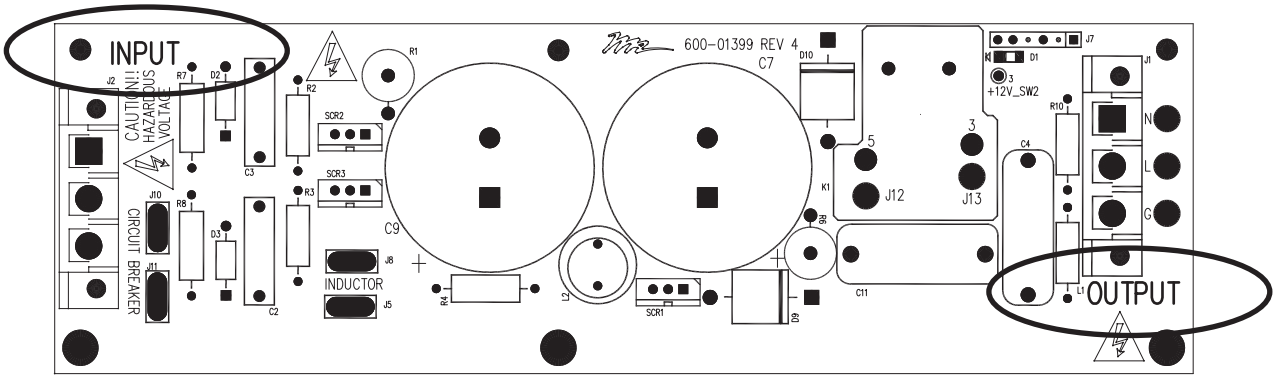


FIGURE C

INSTALLATION OF MODULE TO RACEWAY

Please note that there is a separate input and output for this module. The bottom of the circuit board is shown below denotes the input/output.





WARRANTY

WARRANTY

Middle Atlantic Products (the "Company") warrants the Series Protection Module to be free from defects in material or workmanship under normal use and conditions for a period of three (3) years from the date of shipment by the company.

The Company's entire liability to the purchaser, and the purchaser's (or any other party's) sole and exclusive remedy, under this warranty shall be limited, at the Company's option, to either (a) return of and refund of the price paid for, or (b) repair or replacement at the Company's factory of the products purchased, or any part or parts thereof, which the Company has determined to be defective after inspection thereof at the Company's factory.

This warranty does not cover damage due to acts of God, accident, misuse, abuse or negligence by parties other than the Company, or any modification or alteration of the products. In addition, this warranty does not cover damage due to improper handling, assembly, installation or maintenance.

THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, IN NO EVENT SHALL THE COMPANY BE LIABLE FOR ANY SPECIAL, INCIDENTAL, INDIRECT, OR CONSEQUENTIAL DAMAGES WHATSOEVER (INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOSS OF BUSINESS PROFITS, BUSINESS INTERRUPTION OR ANY OTHER PECUNIARY LOSS) ARISING OUT OF THE USE OF THE PRODUCTS PURCHASED, EVEN IF THE COMPANY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. THE COMPANY'S LIABILITY TO THE PURCHASER (OR ANY OTHER PARTY) HEREUNDER, IF ANY, SHALL IN NO EVENT EXCEED THE PURCHASE PRICE OF THE PRODUCTS PAID TO THE COMPANY.

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