NASSAR® ELECTRONICS

SINCE 1973

User Manual

ALTERNATING RELAY
MODEL AS2





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Description

Duplex Alternating Relay AS2 is used in special applications where the optimization of load usage is required by equalizing the run time of two loads. A control switch initiates this alternating action. A control switch can be: a float, manual, or pressure switch, a timing relay, or any other isolated contact. Each time the initiating switch is closed, the output relay contacts will change state, thus alternating the two loads. Two LED indicators show the status of each output relay.

The AS2 relay can also be used where additional capacity is required in case of excess load requirements. Not only it will alternate between two loads, but it also allows both loads to run simultaneously when the lead and lag switches are closed, thus providing a way for both loads to operate when running just one does not provide enough capacity.

This version has a three-position selector switch that allows the unit to alternate the two loads normally, or omit the relay to one load or the other. By locking the Alternating Relay to one load, the other load can be removed for service without rewiring the first load, allowing continuous operation.

Features

- **Alternating and Duplexing.**
- **Isolated 10A output contacts.**
- **Isolated input control, intrisically safe.**
- **Isolated input voltage.**
- **Omit switch.**
- **LEDs indicate operation.**
- **Dual Voltage 120/220 VAC.**
- **Surface mounting or 35 mm DIN rail.**

Control switch inputs are low voltage / low current and are electronically isolated from the input voltage and output contacts.

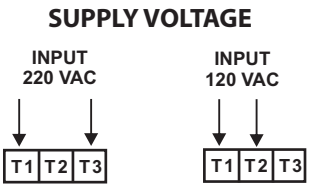
The dual input voltage 120/220 VAC and the output relays are also isolated.

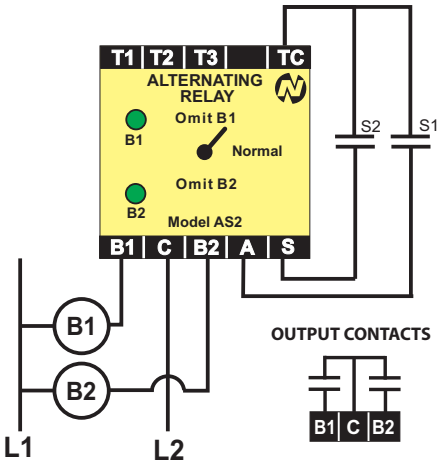
Operation

Alternating: When the switch is in the "Normal" position, alternating operation of Load B1 and Load B2 ocure each time the contact S1 LEAD is closed. The LEDs indicate which load is operating.

Simultaneous operation: When the switch is in the "Normal" position, both loads run simultaneously when the S1 and S2 LAG switches are closed.

To operate only one load, place the switch on position "Omit B1" in order to lock Load B2 or "Omit B2" in order to lock Load B1.

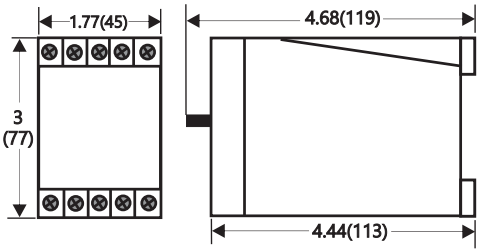




DO NOT APPLY VOLTAGE BETWEEN TERMINALS TC, A, AND S SINCE THE ALTERNATING RELAY CAN BE DAMAGED

Dimensions

In. (mm)



DANGER!

Potentially hazardous voltages are present. Electrical shock can cause death or serious injury. Installation should be done by qualified personnel following all National, State & Local Codes.

BE SURE TO REMOVE ALL POWER SUPPLYING THIS EQUIPMENT BEFORE CONNECTING OR DISCONNECTING THE WIRING.
READ THE INSTRUCTIONS BEFORE INSTALLING OR OPERATING THIS DEVICE.
KEEP THIS MANUAL FOR FUTURE REFERENCE.

Specifications

VOLTAGE ON TERMINALS ***A***, ***S*** , ***TC***	5 V.D.C. max. 0.15 mA
INSOLATION	2500 V Input to Output
INPUT SUPPLY VOLTAGE	120 / 220 V.A.C. ± 10 % , 50/60 Hz
POWER REQUIRED	3 Watts
CONTACT RATING	10 Amp. Max. @ 220 V.A.C. Resistive load
LIFE	Mechanical - 1 x 10^7 Electrical - 1 x 10^6
STORAGE TEMPERATURE	-4 to + 158 °F (-20 to + 70 °C)
OPERATION TEMPERATURE	14 to + 122 °F (-10 to + 50 °C)
WEIGHT	11 Oz. (390 g)
LED INDICATORS	2 operation indicators, one for each load

*Specifications subject to change without notice.

WARRANTY

These products are warranted to be free from defects in workmanship or material under normal service and use for a period of one (1) year from date of manufacture. Nassar Electronics shall, at its option, repair or replace F.O.B. point of manufacture the portion of the product found by Nassar Electronics to be defective. All replacements or repairs necessitated by inadequate maintenance, normal wear and usage, unsuitable power sources or environmental conditions, accident, misuse, improper installation, modification, repair, use of unauthorized replacement parts, storage or handling, or any other cause not the fault of Nassar Electronics are not covered by this limited warranty, and shall be at the buyer's expense. All costs of dismantling, reinstallation and freight, and the time and expenses shall be borne by the buyer.

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