

## ARP SERIES

### Alternating Relay



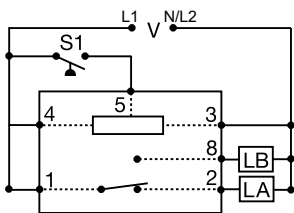
8-PIN



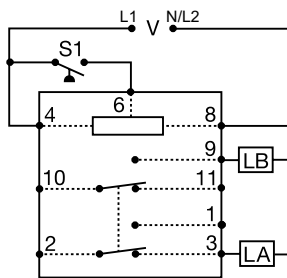
11-PIN

### Wiring Diagram

SPDT 8-PIN

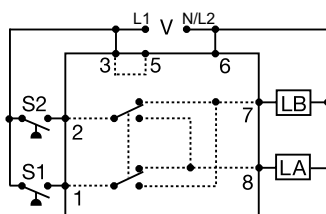


DPDT 11-PIN



Relay contacts in above are isolated.

DPDT 8-PIN CROSS-WIRED



V = VOLTAGE  
LA = LOAD A  
LB = LOAD B  
S1 = PRIMARY CONTROL SWITCH  
S2 = LAG LOAD SWITCH

### Description

The ARP Series is used in systems where equal run time for two motors is desirable. The selector switch allows selection of alternation or for continuous operation of either load. LED's indicate the status of the output relay. This versatile series may be front panel mounted (BZ1 accessory required) or 35 mm DIN-rail mounted with an accessory socket.

### Operation

**Alternating:** When the rotary switch is in the "alternate" position, alternating operation of Load A and Load B occurs upon the opening of the control switch S1. To terminate alternating operation and cause only the selected load to operate, rotate the switch to position "A" to lock Load A or position "B" to lock Load B. The LEDs indicate the status of the internal relay and which load is selected to operate.

**Note:** Input voltage must be applied at all times for proper alternation. The use of a solid-state control switch for S1 may not initiate alternation correctly. S1 voltage must be from the same supply as the unit's input voltage (see connection diagrams). Loss of input voltage resets the unit; Load A becomes the lead load for the next operation.

**Duplexing (Cross-Wired):** Duplexing models operate the same as alternating relays and when both the Control (S1) and Lag Load (S2) Switches are closed, Load A and Load B energize simultaneously.

The DPDT 8-pin, cross-wired option, allows extra system load capacity through simultaneous operation of both motors when needed. Relay contacts are not isolated.

### Features & Benefits

| FEATURES                                            | BENEFITS                                                                                                    |
|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| <b>Alternating or electrically locked operation</b> | Flexibility to run unit alternating between the two loads as normal or lock the relay to one specific load. |
| <b>Low profile selector switch</b>                  | Prevents accidental actuation                                                                               |
| <b>LED status indication</b>                        | Visual indication of which load is engaged                                                                  |
| <b>Industry standard base connection</b>            | Flexibility to use in many applications                                                                     |

### Ordering Information

| MODEL       | LINE VOLTAGE | OUTPUT FORM | DESCRIPTION                                                                                                          |
|-------------|--------------|-------------|----------------------------------------------------------------------------------------------------------------------|
| AR120A-3095 | 120VAC       | SPDT        | 8-pin for alternating applications. Rotary switch allows user to lock internal relay to one specific load.           |
| ARP23S      | 24VAC        | DPDT        | 8-pin cross-wired for duplexing applications. Rotary switch allows user to lock internal relay to one specific load. |
| ARP41       | 120VAC       | SPDT        | 8-pin for alternating applications.                                                                                  |
| ARP41S      | 120VAC       | SPDT        | 8-pin for alternating applications. Rotary switch allows user to lock internal relay to one specific load.           |
| ARP42S      | 120VAC       | DPDT        | 11-pin for alternating applications. Rotary switch allows user to lock internal relay to one specific load.          |
| ARP43       | 120VAC       | DPDT        | 8-pin cross-wired for duplexing applications.                                                                        |
| ARP43S      | 120VAC       | DPDT        | 8-pin cross-wired for duplexing applications. Rotary switch allows user to lock internal relay to one specific load. |
| ARP61S      | 230VAC       | SPDT        | 8-pin for alternating applications. Rotary switch allows user to lock internal relay to one specific load.           |
| ARP62S      | 230VAC       | DPDT        | 11-pin for alternating applications. Rotary switch allows user to lock internal relay to one specific load.          |
| ARP63S      | 230VAC       | DPDT        | 8-pin cross-wired for duplexing applications. Rotary switch allows user to lock internal relay to one specific load. |

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## ARP SERIES

### Accessories



#### BZ1 Front Panel Mount Kit

Provides an easy method of through-the-panel mounting of 8- or 11-pin plug-in timers, flashers, and other controls.



#### NDS-8 Octal 8-pin Socket

8-pin 35mm DIN rail or surface mount. Rated at 10A @ 300VAC. Surface mounted with two #6 (M 3.5 x 0.6) screws or snaps onto a 35 mm DIN rail. Uses PSC8 hold-down clips.



#### NDS-11 11-pin Socket

1-pin 35mm DIN rail or surface mount. Rated at 10A @ 300VAC. Surface mounted with two #6 (M 3.5 x 0.6) screws or snaps onto a 35 mm DIN rail. Uses PSC11 hold-down clips.



#### PSC8 or PSC11 Hold-down Clips

Securely mounts plug-in controls in any position. Provides protection against vibration. Use PSC8 with NDS-8 Octal Socket or PSC11 with NDS-11 Socket. Sold in pairs.



#### C103PM (AL) DIN Rail

35 mm aluminum DIN rail available in a 36 in. (91.4 cm) length.

### Specifications

#### Input

##### Tolerance

##### 24VAC

##### 120 & 230VAC

##### AC Line Frequency

-15% to 20%

-20% to 10%

50/60Hz

#### Output

##### Type

##### Form

##### Rating

Electromechanical relay

SPDT, DPDT, or cross-wired DPDT

10A resistive @ 120/240VAC & 28 VDC;

1/3 hp @ 120/240VAC

250VAC

Mechanical -  $1 \times 10^7$ ; Electrical -  $1 \times 10^6$

##### Maximum Voltage

##### Life

##### Protection

##### Isolation Voltage

$\geq 1500V$  RMS input to output

#### Mechanical

##### Mounting

##### Dimensions

Plug-in socket

**H** 60.7 mm (2.39"); **W** 45.2 mm (1.78");

**D** 81.3 mm (3.2")

Octal 8-pin or magnum 11-pin

##### Termination

#### Environmental

##### Operating/Storage

##### Temperature

##### Weight

-20° to 60°C / -30° to 85°C

5.6 oz (159 g) approx.

NOTE: Unit does not have debounce time delay.