

Alternating Relay ARP Series Motor Duplexor



- Provides Equal Run Time for Two Motors
- Alternating or Electrically Locked Operation
- Low Profile Selection Switch
- 10 A Relay Contacts
- LED Status Indication
- Industry Standard Base Connection

Description

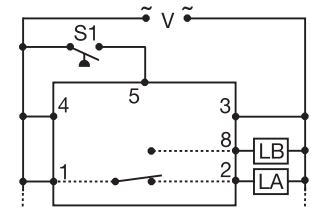
The ARP Series is used in systems where equal run time for two motors is desirable. The selector switch allows selection of alternation or either load for continuous operation. LED's indicate the status of the output relay. This versatile series may be front panel mounted or 35 mm DIN rail mounted.

Operation

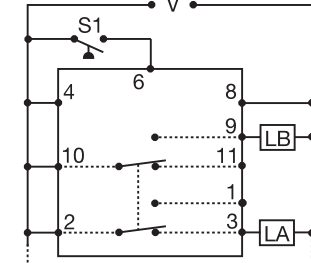
Alternating: When the rotary switch is in the "alternate" position, alternating operation of Load A and Load B occurs upon the opening of the control switch. To terminate alternating operation and cause only the selected load to operate, rotate the switch to position "A" to lock Load A or position "B" to lock Load B.

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

- Approvals:

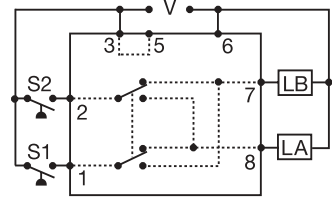


SPDT
8 Pin



DPDT
11 Pin

Relay contacts in above are isolated.



DPDT
8 Pin
Cross
Wired

Dashed lines are internal connections.

V = Voltage S1 = Primary Control Switch
S2 = Lag Load Switch LA = Load A LB = Load B

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.

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.

Ordering Table

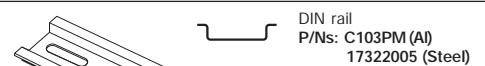
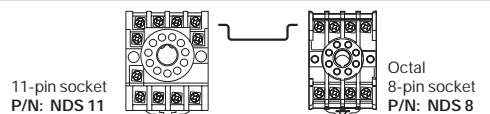
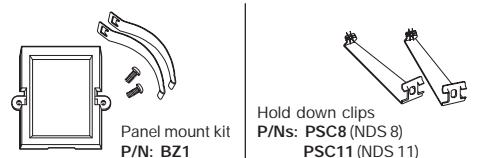
ARP Series	X Input	X Output Form	X Switch Option
	2 - 24 V AC	1 - SPDT, 8 Pin	S - Rotary Switch
	4 - 120 V AC	2 - DPDT, 11 Pin	Blank - No Switch
	6 - 230 V AC	3 - DPDT, 8 Pin Cross Wired	

Example P/N: **ARP41S**

Technical Data

Input	
Voltage	24, 120, or 230 V AC
Tolerance	24 V AC: -15% ... +20% 120 & 230 V AC: -20% ... +10%
Line Frequency	50 ... 60 Hz
Output	
Type	Electromechanical relay
Form	SPDT, or DPDT, or cross wired DPDT
Rating	10 A resistive at 240 V AC 7 A inductive at 120 V AC
Maximum Voltage	250 V AC
Life	Mechanical -- 1 x 10 ⁷ Full Load -- 1 x 10 ⁶
Protection	
Isolation Voltage	≥ 1500 V RMS input to output
Mechanical	
Mounting	Plug-in socket
Package	3.2 x 2.39 x 1.78 in. (81.3 x 60.7 x 45.2 mm)
Termination	8 Pin octal or 11 Pin magnal
Environmental	
Operating Temperature	-20°C ... +60°C
Storage Temperature	-30°C ... +85°C
Weight	≅ 5.6 oz (159 g)

Accessories



See accessory page at the end of this section.

