

900 Long Base



900 Short Base

**DELTROL****controls** | 

DIVISION OF DELTROL CORP.

# 900 SERIES RELAY 30 AND 50 AMP HEAVY DUTY POWER RELAY

## FEATURES

- Class F Coil Insulation System for 155°C Total Temperature
- Coil Molded in DuPont Rynite® for Environmental Protection
- Rugged Construction Rivets Terminals to Base
- 900, 900D and 900E are UL and cUL Listed
- 900-1C, 900Q and 900R are UL and cUR Recognized

## CONTACT DATA

### CONFIGURATION:

Thru DPDT

### MATERIALS:

All Versions

5/16" Diameter Silver Cadmium Oxide

Fine Silver Available on Special Order – Min. Qty. Req'd.

## CONTACT RATINGS

MODEL	POLE CONFIGURATION	UL RATINGS
900		30 amp or 1-1/2 HP at 120 or 240VAC 2 HP at 240VAC 3600W at 120 or 240VAC (ballast)
900Q		30 amp at 240VAC, 100,000 cycle (resistive)
900-1C	SPST-NC short base	20 amp at 600VAC
	SPST-NO short base	30 amp at 28VDC
	SPST-NO-DM short base	
	SPST-NC-DB long base	Same as 900 with addition of auxiliary 1/4 HP at 125 or 250VAC
900D	SPDT short base	
	DPST-NO short base	
	DPST-NC long base	
900E	DPST-NC short base	Same as 900 with additional rating of 20 amp at 125VDC
	DPDT long base	
900R		50 amp at 277VAC resistive 100,000 cycles, 40 amp general use

### UL RECOGNIZED FILE NO.: E37066

900, 900D &amp; E are UL and cUL listed. Other versions are UR and cUR recognized.

(US and Canadian Recognition)

## EXPECTED LIFE

### Electrical At Rated Load (Minimum)

100,000 Operations

### Mechanical Life

1,000,000 Operations

## DIELECTRIC STRENGTH

2200 VRMS, 60 Hz Between Contacts

2200 VRMS, 60 Hz Between Other Elements

## MODELS

**900:** Fast Acting 30 Amp Power Relays**900-1C:** Same as 900 with Addition of SPDT Auxiliary Snap Switch Rated 10 Amp, 1/4 HP**900Q:** Same as 900 with .250" Quick-Connect Termination**900D:** Same as 900 with Addition of Blow Out Magnets for Switching DC Loads**900E:** Same as 900 with 50 Amp Rating and Box Lug Termination**900R:** Same as 900 with 50 Amp Rating and Standard Screw Terminals

## COIL DATA

	NOMINAL VOLTAGE	RESISTANCE IN OHMS ± 10%	NOMINAL COIL POWER
AC Coils	6VAC	.85	9.5VA
	12VAC	2.85	
	24VAC	11.5	
	120VAC	295	
	240VAC	1170	
DC Coils	480VAC	4860	2W
	6VDC	18	
	12VDC	72	
	24VDC	290	
	48VDC	1,150	
	110VDC	6,050	

**Coil Voltages:** AC: Up to 600 Volts/60 Hz

DC: Up to 125 Volts

**Coil Treatment:** Molded Rynite® Std. Class F**Insulation Resistance:** 100 Megohms Minimum**UL Insulation System File No.:** E74443

S155D 155°C Total Temperature Std.

(Covers S105 Class A and S130D Class B Requirements)

## OPERATE DATA

**Pick Up (at 25°C):** AC Volts 85% or Less of Nominal

DC Volts 75% or Less of Nominal

**Operate Time:** Approx. 30 Milliseconds**Release Time:** Approx. 30 Milliseconds

## ENVIRONMENTAL DATA

**Operating Ambient:** AC: -45° to 80°C @ 30 amps

AC: -45° to 70°C @ 50 amps

DC: -45° to 115°C @ 30 amps

DC: -45° to 105°C @ 50 amps

**Coil Temperature Rise:** (25°C Ambient – Continuous Duty)

AC: 70°C Approx. @ 60 Hz – Use at 50 Hz

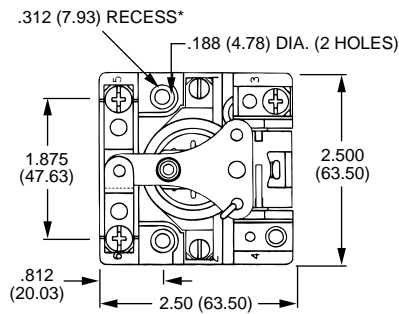
will Cause Slight Increase in Coil Rise

DC: 35°C Approx.

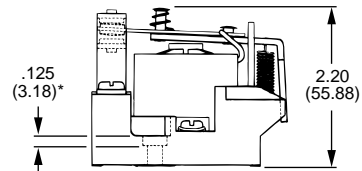
## MECHANICAL DATA

**Terminals:** Screw Type on all but SERIES 900Q which has Quick Connect, .250"**Weight:** Short Base Versions 8 oz. Approx. (227 g)  
Long Base Versions 10 oz. Approx. (283 g)

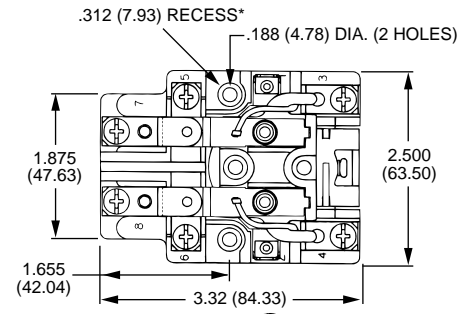
## DIMENSIONS [Unit Inch (mm)]



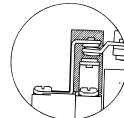
**900 (SHORT BASE)**



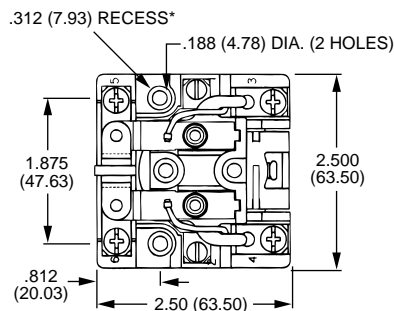
\*RECESS FOR SCREW MOUNTING  
ON UNITS WITH 300-600VAC COILS



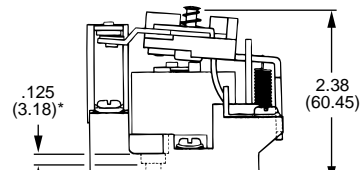
**900 (LONG BASE)**



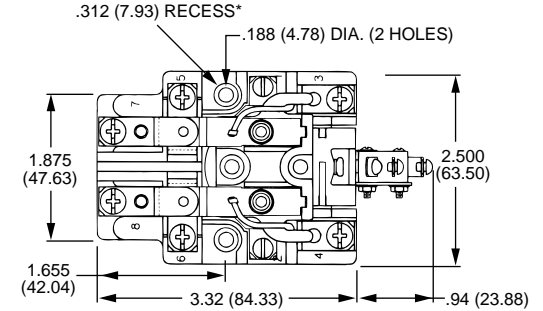
**900D  
Blow Out  
Magnet**



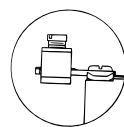
**900 (DPST-NC SHORT BASE)**



\*RECESS FOR SCREW MOUNTING  
ON UNITS WITH 300-600VAC COILS



**900-1C (LONG BASE)**



**900E  
Box Lug  
Terminals**

## ORDERING INFORMATION

### MODEL 900 30 AMP Part Numbers

Pole Configuration	AC Coils			DC Coils		
	24VAC	120VAC	240VAC	12VDC	24VDC	110VDC
SPST-NO	20237-82*	20237-83*	20237-84	20333-81	20333-82	20333-84
SPST-NC	20330-82	20330-83	20330-84	20334-81	20334-82	20334-84
SPST-NO-DM	20238-82*	20238-83*	20238-84	20242-81	20242-82	20242-84
SPST-NC-DB	20332-82	20332-83	20332-84	20336-81	20336-82	20336-84
SPDT	20239-82*	20239-83*	20239-84	20243-81*	20243-82*	20243-84
DPST-NO	20240-82*	20240-83*	20240-84*	20244-81*	20244-82*	20244-84
DPST-NC	20331-82	20331-83	20331-84	20335-81	20335-82	20335-84
DPDT	20241-82*	20241-83*	20241-84*	20245-81*	20245-82*	20245-84*

### MODEL 900-1C 30 AMP Part Numbers

DPST-NC	20361-82	20361-83	20361-84	20367-81	20367-82	20367-84
DPST-NO	20248-82	20248-83	20248-84	20249-81	20249-82*	20249-84
DPDT	20246-82	20246-83*	20246-84	20247-81	20247-82	20247-84

\*Black Items Are Normally Stocked.

Blue Items Are Non Stock. Minimum Quantity May Be Required.



### OPTIONAL DUST COVER B-5 DUST COVER FOR SERIES 900

Sealed knock-out holes for standard conduit fittings. Relay mounts on pre-drilled base. Constructed of Aluminum. Snap action cover release.

SIZE: 5" W x 3" H x 4" D. P/N 20257-80\*