

900 Series



900-1C



900R



Contact Data

Configuration	Thru DPDT
Materials	5/16" Diameter Silver Cadmium Oxide (Fine Silver available on special order, min. qty. required)

Contact Ratings

Movable Contact Size	Pole Configuration	UL Ratings
900 900Q	SPST-NC SPST-NO SPST-NO-DM SPST-NC-DB SPDT DPST-NO DPST-NC DPST-NC DPDT	30 Amp or 1 - 1/2 Hp at 120/240 VAC 2 Hp at 240 VAC, 3600 W at 120 or 240 VAC (ballast) 30 Amp at 240 VAC, 100,000 (cycle) resistive 20 Amp at 600 VAC 30 Amp at 28 VDC
900-1C		Same as 900 with addition of auxiliary 1/4 HP at 125 or 250 VAC switch
900D		Same as 900 with additional rating of 20 Amp at 125 VDC
900E 900R		50 Amp at 277 VAC resistive 100,000 cycles, 40 Amp general use (Inductive)

Expected Life	Electrical at Rated Load (Min) 100,000 Operations Mechanical Life 10,000,000 Operations
Dielectric Strength	2200 VRMS, 60 Hz Between Contacts 2200 VRMS, 60 Hz Between Other Elements
Agency Approvals	UL Recognized File No. E37066, 900, 900D and 900E are UL and cUL listed. Other versions are UR and cUR recognized (USA and Canadian Recognition)

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All dimensions in Inches

Specifications subject to change without notice

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Rev 10/10/25

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2740 South 20th Street Milwaukee, WI 53215 USA | P: 414.671.6800 | F: 414.671.6809 | www.deltrol-controls.com | sales@deltrol.com

900 Series



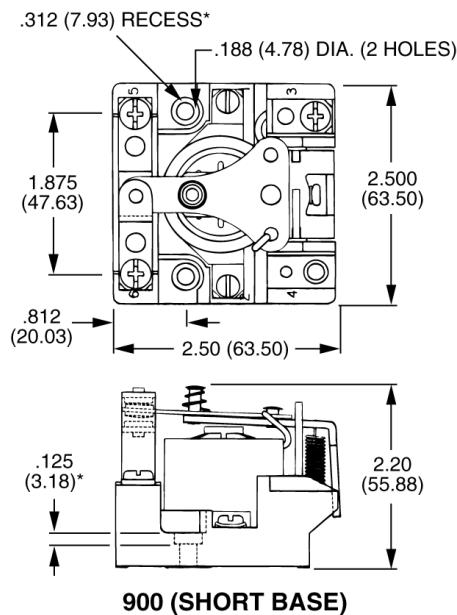
Coil Data				
	Nominal Voltage	Resistance In Ohms ± 10%	Nominal Coil Power	
AC Coils	6 VAC	.85	9.5 VA	
	12 VAC	2.85		
	24 VAC	11.5		
	120 VAC	295		
	240 VAC	1170		
	480 VAC	4860		
DC Coils	6 VDC	18	2 W	
	12 VDC	72		
	24 VDC	290		
	48 VDC	1150		
	110 VDC	6050		
Coil Voltages	AC: Up to 600 Volts/60 Hz DC: Up to 125 Volts			
Coil Treatment	Molded Rynite® PET Std. Class F			
Insulation Resistance	100 Megaohms 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. @ 60Hz - 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.)			

900 Series



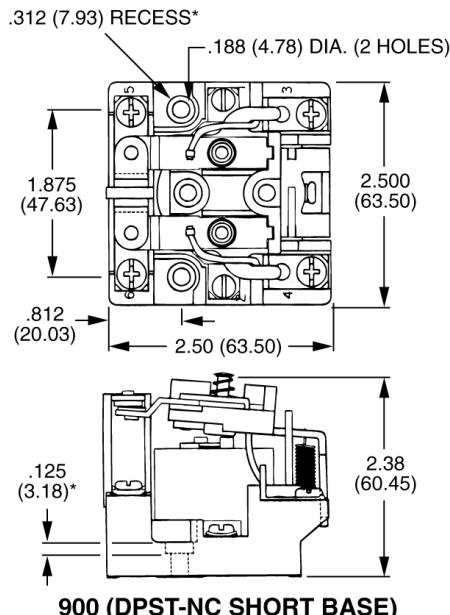
Dimensional View

Units: Inches [mm]



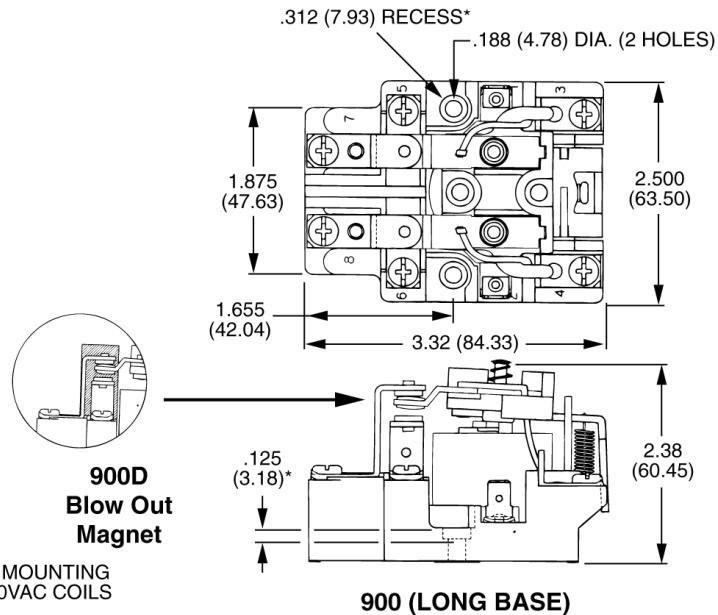
900 (SHORT BASE)

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



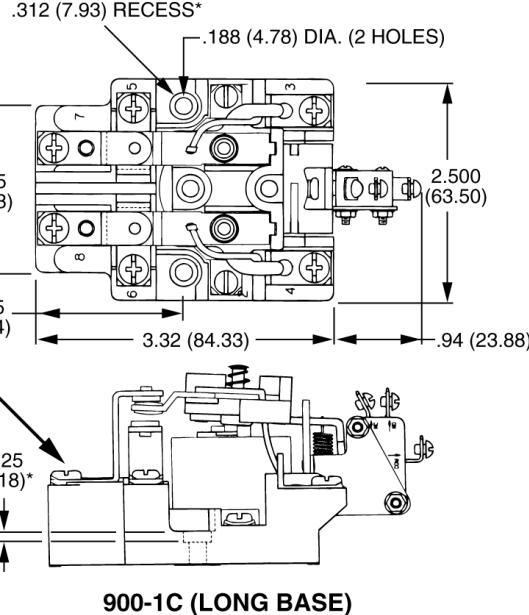
900 (DPST-NC SHORT BASE)

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



900D
Blow Out
Magnet

900 (LONG BASE)



900E
Box Lug
Terminals

900-1C (LONG BASE)

900 Series



Ordering Information

Model 900 30 Amp Part Numbers

AC Coils				DC Coils		
Pole Config.	24 VAC	120 VAC	240 VAC	12 VDC	24 VDC	110 VDC
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

(*) Normally Stocked

Non stocked items require a minimum order

Part Number	Description
20257-80	OPTIONAL B-5 DUST COVER FOR SERIES 900 RELAY

• Sealed knock-out holes for standard conduit fittings.
 • Relay mounts on pre-drilled base.
 • Aluminum construction
 • Snap action cover release.
 • Size: 5" W x 3" H x 4" D



Application Advisory:

The 900 Series relay is supplied as an open-frame design, without a protective cover over the contacts and other internal components. The installation must prevent exposure to dust, debris, liquids, or other contaminants that could impair performance, create safety hazards, or cause any fires, sparks, or other combustible events. It is the responsibility of the equipment designer or installer to ensure adequate environmental protection.