Contact Data





900 Series Relay 30 and 50 Amp **Heavy Duty Power Relay**

General purpose relay that controls electrical loads

Features

- Class F coil insulation system for 155°C Total Temperature
- Coil Molded in Dupont Rynite® PET 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

Typical Applications

• Motor Control • Control Panel Switching • Spa Controls

Models

900: Fast acting 30 Amp Power Relay

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 blowout magnets for

switching DC loads

900E: Same as 900 with 50 Amp rating with box lug termination

900R: Same as 900 with 50 Amp rating and standard screw

terminals

UL Recognized File No. E37066, 900, 900D and 900E are UL and cUL listed. Other versions are UR and

Configuration	Thru DPDT	Thru DPDT				
Materials	5/16" Diameter	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 short base SPST-NO short base SPST-NO-DM short base SPST-NC-DB long base	30 Amp or 1 - 1/2 Hp at 120/240 VAC 2 Hp at 240 VAC, 3600 W at 120 or 240 VA (ballast) 30 Amp at 240 VAC, 100,000 (cycle) resist 20 Amp at 600 VAC 30 Amp at 28 VDC			
900-1C 900D 900E 900R		SPDT short base DPST-NO short base DPST-NC long base DPST-NC short base DPDT long base	Same as 900 with addition of auxillary 1/4 HP at 125 or 250 VAC switch			
			Same as 900 with additional rating of 20 Amp at 125 VDC			
		J	50 Amp at 277 VAC resistive 100,000 cycles 40 Amp general use (Inductive)			
Expected Life	Electrical at Rat	Electrical at Rated Load (Min) 100,000 Operations Mechanical Life 10,000,000 Operations				
Dielectric Strength	2200 VRMS, 60	2200 VRMS, 60 Hz Between Contacts 2200 VRMS, 60 Hz Between Other Elements				

Rynite® is a registered trademark of DuPont

All dimensions in Inches

Agency Approvals

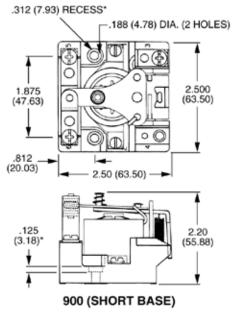
cUR recognized (USA and Canadian Recognition)

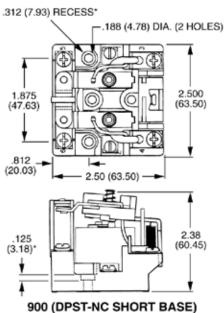


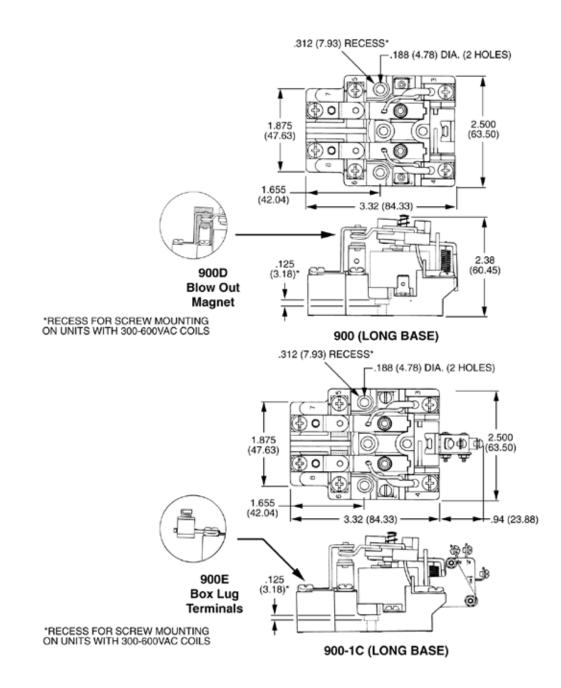
Coil Data				
	Nominal Voltage	Resistance In Ohms ± 10%	Nominal Coil Power	
	6 VAC 12 VAC 24 VAC	.85 2.85 11.5		
AC Coils	120 VAC 240 VAC 480 VAC	295 1170 4860	9.5 VA	
DC Coils	6 VDC 12 VDC 24 VDC 48 VDC 110 VDC	18 72 290 1150 6050	2 W	
Coil Voltages	AC: Up to 600 Volts/60 Hz DC: Up to 125 Volts			
Coil Treatment	Molded Rynite® PET Std. Class F			
Insulation Resistance	100 Megohms Minimum			
UL Insulation System File No.	E74443 S155D 155°C Total Temperature Std. (Covers S105 Class A and S130D Class B Requiremen			
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.)			



Dimensional View







sales@lvelectronics.com



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

