



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

Contact Data				
Configuration	Thru DPDT	Thru DPDT		
Materials	5/16" Diamet	5/16" Diameter Silver Cadmium Oxide (Fine Silver available on special order, min. qty. required)		
Contact Ratings				
Manable Canta at Cia		D-1- C	III D-4'	

Contact natings						
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 VAC (ballast) 30 Amp at 240 VAC, 100,000 (cycle) resistin 20 Amp at 600 VAC 30 Amp at 28 VDC		
900-1C		DPST-NO short	short base short base	Same as 900 with addition of auxillary 1/4 HP at 125 or 250 VAC switch		
900D 900E 900R		DPST-NC long base DPST-NC short base DPDT long base	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 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)					

Rynite® is a registered trademark of DuPont

All dimensions in Inches

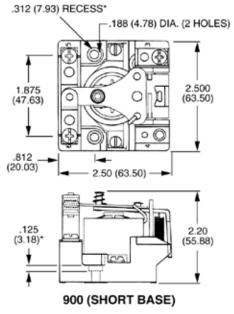


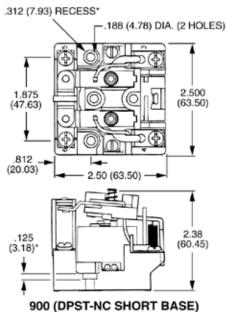
Coil Data			
	Nominal Voltage	Resistance In Ohms ± 10%	Nominal Coil Power
	6 VAC 12 VAC	.85 2.85	
AC Coils	24 VAC 120 VAC 240 VAC 480 VAC	11.5 295 1170 4860	9.5 VA
DC Coils	6 VDC 12 VDC 24 VDC 48 VDC 110 VDC	18 72 290 1150 6050	2 W
Coil Voltages	AC: Up to 600 Volts/60 Hz DC: Up to 125 Volts		
Coil Treatment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

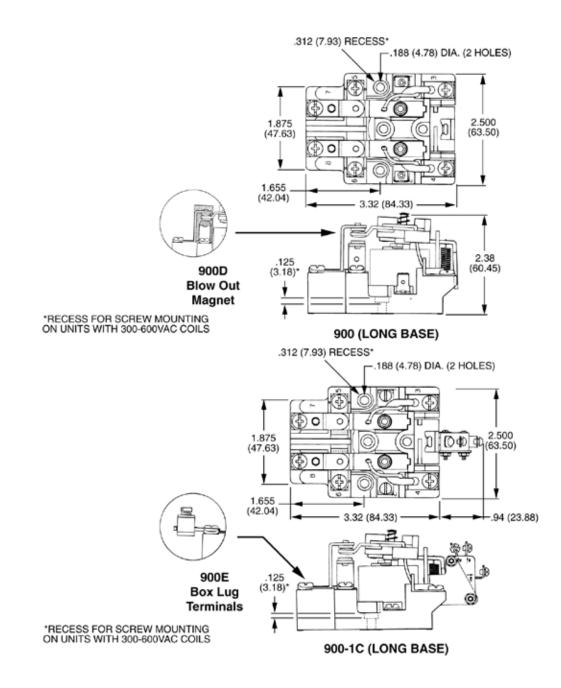


Dimensional View

Units: Inches [mm]









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

