# DELTROL









# SERIES COMPACT INDUSTRIAL CONTROL RELAY

177 SPDT

177 SPST-NO-DM

#### **FEATURES**

- Compact Design Yet Handles 30 Amps or 1 HP at 120VAC
- Molded Rynite® Coil Provides Class F Insulation
- Up Stop Provides Contact Protection on SPST-NO-DM
- 1/4" Diameter Silver Cadmium Oxide Contacts

#### **CONTACT DATA**

## **CONFIGURATION:**

Thru SPDT Including SPST-NO-DM

#### **MATERIALS:**

1/4" Diameter All Contacts Silver Cadmium Oxide (Std.)

#### **CONTACT RATINGS**

MODEL	POLE CONFIGURATION	UL RATINGS*
177	SPST-NO SPST-NC SPDT	15 amp or 3/4 HP at 120VAC 15 amp or 1 HP at 240VAC 15 amp at 28VDC
	SPST-NO-DM SPST-NC-DB*	30 amp or 1 HP at 120VAC 20 amp or 1-1/2 HP at 240VAC 30 amp at 28VDC 20 amp at 480VAC (resistive) 30 amp at 12VDC (Tungsten)

\* SPST-NC-DB Not Presently Available

**UL RECOGNIZED FILE NO.:** E37066 **CSA CERTIFIED FILE NO.:** LR20690

# **EXPECTED LIFE**

**Electrical At Rated Load (Minimum)** 

100,000 Operations Except as Noted

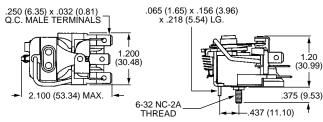
**Mechanical Life** 

10,000,000 Operations

# DIELECTRIC STRENGTH

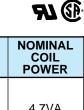
1200 VRMS, 60 Hz Between Contacts 2200 VRMS, 60 Hz Between Other Elements

# **DIMENSIONS** [Unit Inch (mm)]



STANDARD WITH STUD SHOWN - OPTIONAL WITHOUT STUD

# **COIL DATA**



	NOMINAL VOLTAGE	RESISTANCE IN OHMS ± 10%	NOMINAL COIL POWER
AC Coils	6VAC 12VAC 24VAC 120VAC 240VAC	2.7 11 42 1100 4400	4.7VA
DC Coils	6VDC 12VDC 24VDC 110VDC	18 72 285 6000	2W

AC: Up to 277 Volts/60 Hz DC: Up to 125 Volts **Coil Voltages:** 

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. 15 Milliseconds Release Time: Approx. 15 Milliseconds

## **ENVIRONMENTAL DATA**

Operating Ambient: AC: -45° to 70°C DC: -45° to 100°C

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: 45°C Approx.

# **MECHANICAL DATA**

Terminals: All Versions

.250" x .032" Quick Connect/Solder Type

Weight: Approx. 2.5 oz. (87 g)

### ORDERING INFORMATION

AC Coils						
	Pole Config.	24VAC	120VAC	240VAC		
15 Amp Rating	SPST-NO SPST-NC SPDT	20952-82 20954-82 20950-82	20952-83 20954-83 20950-83	20952-84 20954-84 20950-84		
30 Amp Rating	SPST-NO-DM	20935-82*	20935-83*	20935-84		
DC Coils						
	Pole Config.	12VDC	24VDC	110VDC		
15 Amp Rating	SPST-NO SPST-NC SPDT	20953-81 20955-81 20951-81	20953-82 20955-82 20951-82	20953-83 20955-83 20951-83		
30 Amp Rating	SPST-NO-DM	20936-81*	20936-82*	20936-83		

\*Black Items are Normally Stocked.

Blue Items are Non Stock. Minimum May Be Required.