

177 Series



177 Series 15 and 30 Amp Compact Industrial Control Relay

General purpose relay that controls electrical loads

Features

- Compact design that handles 30 amps or 1 HP at 120 VAC
- Coil molded in Rynite® PET for Environmental Protection
- Up Stop Provides contact protection on SPST-NO-DM
- 1/4" Diameter silver cadmium oxide contacts

Typical Applications

- Motor Control
- Lighting Control
- Surge Protection



Contact Data	
Configuration	Thru SPDT including SPST-NO-DM
Materials	1/4" Diameter all contacts Silver Cadmium Oxide (Std.)
Contact Ratings	
Model	Pole Configuration
177	SPST-NO SPST-NC SPDT
	SPST-NO-DM SPST-NC-DB*
UL Ratings*	
15 Amp or 3/4 HP at 120 VAC 15 Amp or 1 HP at 240 VAC 15 Amp at 28 VDC	
30 Amp or 1 HP at 120 VAC 20 Amp or 1-1/2 HP at 240 VAC 30 Amp at 28 VDC 20 Amp at 480 VAC (resistive) 30 Amp at 12 VDC (Tungsten)	
Expected Life	Electrical at Rated Load (Min.) 100,000 Operations Mechanical Life 10,000,000 Operations
Dielectric Strength	1200 VRMS, 60 Hz Between Contacts 2200 VRMS, 60 Hz Between Other Elements
Agency Approvals	UL Recognized File No. E37066 CSA Certified File No. LR20690 (Not applicable to 105T)

* SPST-NC-DB Not Presently Available

All dimensions in Inches

Rynite® is a registered trademark of DuPont

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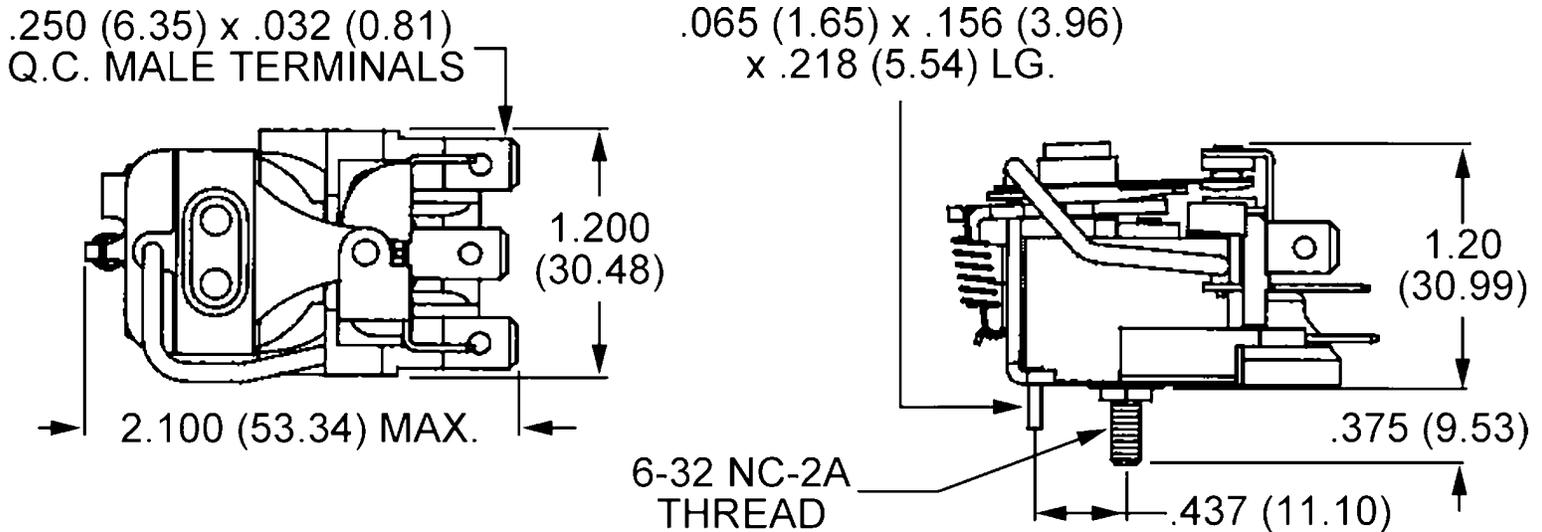


Coil Data			
	Nominal Voltage	Resistance In Ohms \pm 10%	Nominal Coil Power
AC Coils	6 VAC	2.7	4.7 VA
	12 VAC	11	
	24 VAC	42	
	120 VAC	1100	
	240 VAC	4400	
DC Coils	6 VDC	18	2 W
	12 VDC	72	
	24 VDC	285	
	110 VDC	6000	
Coil Voltages	AC: Up to 277 Volts/60 Hz DC: Up to 125 Volts		
Coil Treatment	Molded 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 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. @ 60Hz - Use at 50 Hz will cause slight increase in Coil Rise DC: 45°C Approx.		
Mechanical Data			
Terminals	.250" x .032" Quick Connect/Solder Type (All Versions)		
Weight	All Versions Approx. 2.5 oz. (70 g.)		

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Dimensional View

Units: Inches [mm]



Standard with Stud Shown - Optional Without Stud

Ordering Information

15 Amp Part Numbers

Model	Pole Config.	AC Coils			DC Coils		
		24 VAC	120 VAC	240 VAC	12 VDC	24 VDC	110 VDC
177	SPST-NO	20952-82	20952-83	20952-84	20953-81	20953-82	20953-83
	SPST-NC	20954-82	20954-83	20954-84	20955-81	20955-82	20955-83
	SPDT	20950-82	20950-83	20950-84	20951-81	20951-82	20951-83

30 Amp Part Numbers

177	SPST-NO-DM	20935-82*	20935-83*	20935-84	20936-81*	20936-82*	20936-83
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(*) Normally Stocked
Non stocked items require a minimum order