



270



275F

# DELTROL

## controls



DIVISION OF DELTROL CORP.

# 270 & 275 SERIES 35 AMP POWER RELAY

### FEATURES

- 35 Amps Switching on all Contacts thru a DPDT Configuration (25 Amps in Europe)
- Coil Molded in DuPont Rynite®, Providing Class F Temperature Insulation
- Low Cost Alternative to Small Contactors

### CONTACT DATA

#### CONFIGURATION:

Thru DPDT, Including SPST-NO-DM, SPST-NC-DB and DMDB

#### MATERIALS:

All Contacts 1/4" Silver Cadmium Oxide

### CONTACT RATINGS

MODEL	POLE CONFIG.	UL RATINGS
270/275	SPST-NO SPST-NC SPDT DPST-NO DPST-NC DPDT	35 amp at 277VAC 15 amp at 600VAC 25 amp at 28VDC 1 HP at 120VAC 2 HP at 240/277VAC 3 HP at 480VAC 17 FLA, 60 LRA at 300VAC 25 FLA, 125 LRA at 240/277 VAC 35 FLA, 100 LRA at 240/277 VAC Heavy Pilot Duty, 600VAC 20 amp at 277VAC Ballast 20 amp at 480VAC Ballast
	SPST-NO-DM SPST-NC-DB SPDT-DM-DB	35 amp at 300VAC 15 amp at 600VAC 35 amp at 28VDC 5 amp at 125VDC 1 HP at 120VAC 2 HP at 240/277VAC 3 HP at 480VAC 17 FLA, 60 LRA at 300VAC 25 FLA, 125 LRA at 240/277 VAC 35 FLA, 100 LRA at 240/277 VAC Heavy Pilot Duty, 600VAC 20 amp at 277VAC Ballast 20 amp at 480VAC Ballast
<b>SEMKO RATINGS</b>		
275F 275P 275T	SPST-NO SPST-NC SPDT DPST-NO DPST-NC DPDT	25 amp at 250VAC, 50 Hz AC-1 25 amp at 28VDC DC-1 12 amp at 240VAC 50 Hz AC-3
	SPST-NO-DM SPST-NC-DB SPDT-DM-DB	35 amp at 250VAC 50 Hz AC-1 35 amp at 28VDC DC-1 12 amp at 240VAC 50 Hz AC-3

**UL RECOGNIZED FILE NO.:** E37066

US and Canadian Recognition

**SEMKO CERTIFICATE NO.:** 9648100/01\* Model 275 F,P, T

\* Double Pole units may require 150°C load wire for some applications.

### MODELS

- 270S:** Open Frame w/Stud & Locator Tab
- 275F:** Flange Cover
- 275T:** Top Mount Cover, Other Suffixes Available  
B-Bracket Provided, L-Tap & Locator,  
P-Printed Circuit Pins



Model 275 F, P, T

### COIL DATA

	NOMINAL VOLTAGE	RESISTANCE IN OHMS ± 10%	NOMINAL COIL POWER
AC Coils	6VAC	3.5	2.4VA
	12VAC	14	
	24VAC	56	
	48VAC	230	
	120VAC	1500	
DC Coils	240VAC	6000	1.8W
	6VDC	20	
	12VDC	80	
	24VDC	315	
	48VDC	1300	
	110VDC	6800	

**Coil Voltages:** USA/Canada European

AC: Up to 277 Volts/60 Hz Up to 250 Volts 50/60 Hz

DC: Up to 125 Volts Up to 125 Volts

**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:** 60°C max. @ full load continuous operation. Consult factory for information on higher operating ambients.

**Coil Temperature Rise:** (25°C Ambient – Continuous Duty)

AC: 45°C Approx. @ 60 Hz – Use at 50 Hz

will Cause Slight Increase in Coil Rise

DC: 40°C Approx.

### EXPECTED LIFE

**Electrical At Rated Load (Minimum)**

100,000 Operations

**Mechanical Life**

10,000,000 Operations

### DIELECTRIC STRENGTH

1200 VRMS, 60 Hz Between Contacts

2200 VRMS, 60 Hz Between Other Elements

### MECHANICAL DATA

**Terminals:** All Versions (Except P Suffix)

.250" x .032" Quick Connect/Solder

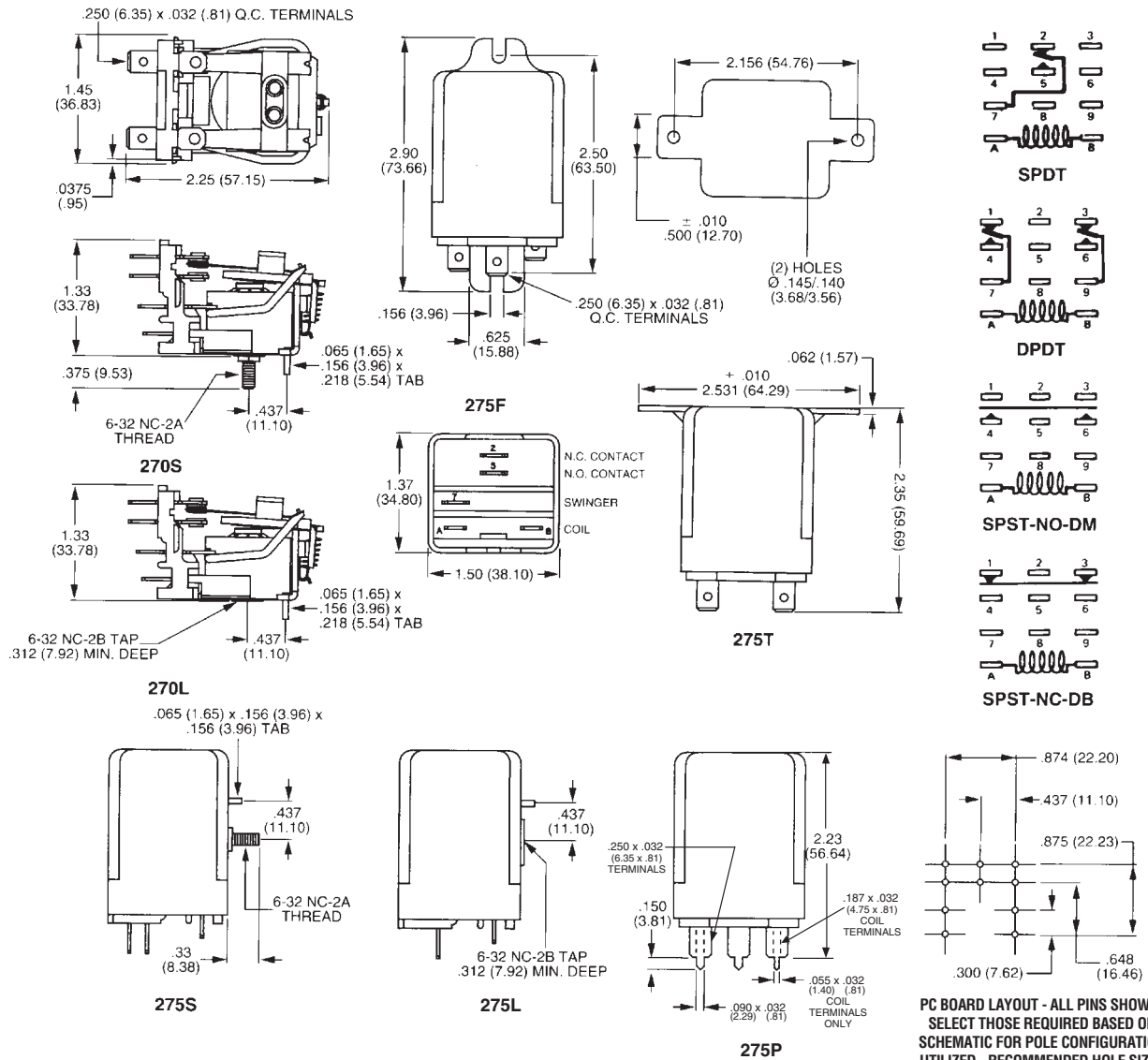
P Suffix Version Printed Circuit Pins

**Cover:** Clear Polycarbonate - Flammability Rating 94V2

**Weight:** Approx. 3 oz. (85 g)

# DIMENSIONS [Unit Inch (mm)]

# SCHEMATICS



## ORDERING INFORMATION

### 35 AMP Part Numbers

MODEL	POLE CONFIG.	AC Coils			DC Coils		
		24VAC	120VAC	240VAC	12VDC	24VDC	110VDC
275F	SPST-NO	20837-82	20837-84	20837-85	20845-81	20845-82	20845-84
	SPST-NC	20838-82	20838-84	20838-85	20846-81	20846-82	20846-84
	SPDT	20839-82	20839-84	20839-85	20847-81	20847-82	20847-84
	DPST-NO	20842-82	20842-84	20842-85	20850-81	20850-82	20850-84
	DPST-NC	20843-82	20843-84	20843-85	20851-81	20851-82	20851-84
	DPDT	20844-82*	20844-84*	20844-85	20852-81	20852-82*	20852-84
275P	SPST-NO	20973-82	20973-84	20973-85	20970-81	20970-82	20970-84
	SPST-NC	21058-82	21058-84	21058-85	21059-81	21059-82	21059-84
	SPDT	21057-82	21057-84	21057-85	21016-81	21016-82	21016-84
	DPST-NO	21044-82	21044-84	21044-85	21023-81	21023-82	21023-84
	DPST-NC	20976-82	20976-84	20976-85	20934-81	20934-82	20934-84
	DPDT	20931-82	20931-84	20931-85	20930-81	20930-82	20930-84
275T	SPST-NO	20993-82	20993-84	20993-85	21001-81	21001-82	21001-84
	SPST-NC	20994-82	20994-84	20994-85	21002-81	21002-82	21002-84
	SPDT	20995-82	20995-84	20995-85	21003-81	21003-82	21003-84
	DPST-NO	20998-82	20998-84	20998-85	21006-81	21006-82	21006-84
	DPST-NC	20999-82	20999-84	20999-85	21007-81	21007-82	21007-84
	DPDT	21000-82	21000-84	21000-85	21008-81	21008-82	21008-84

### 35 AMP Part Numbers

275F	SPST-NO-DM	20840-82	20840-84	20840-85	20848-81	20848-82*	20848-84
	SPST-NC-DB	20841-82	20841-84	20841-85	20849-81	20849-82	20849-84
275T	SPST-NO-DM	20996-82	20996-84	20996-85	21004-81	21004-82	21004-84
	SPST-NC-DB	20997-82	20997-84	20997-85	21005-81	21005-82	21005-84

\* Shaded Items Are Normally Stocked.

All Other Items Are Non Stock. Minimum Quantity May Be Required.