

DELTROL **CONTIPOLS** DIVISION OF DELTROL CORP.

105 ML SERIES MAGNETIC LATCHING RELAY 5 & 10 AMP PLUG-IN OCTAL BASE

105 ML

FEATURES

- Snap-action, One Piece Armature Eliminates Interconnections
- Molded Class F Coils Handle High Ambient Temperatures, Resist Moisture and Dust
- High Impact Polycarbonate Dust Cover

CONTACT DATA

Configuration:

Thru 5PDT

Materials:

5 AMP:

1/8" Diameter Moveable Fine Silver 3/16" Diameter Stationary Fine Silver

3/16" Diameter Moveable Silver Cadmium Oxide 3/16" Diameter Stationary Fine Silver

Gold Flash is Standard on All Contacts Gold Diffused Available on Special Order - Min. Qty. Req'd.

CONTACT RATINGS

MOVEABLE CONTACT SIZE	POLE CONFIGURATION	RATINGS
1/8" Diameter	SPDT DPDT 3PDT 4PDT 5PDT	5 amp or 1/8 HP at 120VAC 5 amp or 1/4 HP at 240VAC 5 amp at 28VDC
3/16" Diameter	SPDT DPDT 3PDT 4PDT 5PDT	10 amp or 1/3 HP at 120VAC 10 amp or 1/2 HP at 240VAC 10 amp at 28VDC

EXPECTED LIFE

Electrical At Rated Load (Minimum)

100,000 Cycles

Mechanical Life

10,000,000 Cycles

DIELECTRIC STRENGTH

800 VRMS, 60 Hz Between Contacts 1500 VRMS, 60 Hz Between Other Elements

MODEL

105ML: General Purpose Relay Terminates to Standard Pin Type Octal Receptacles, Deltrol Type 105 Sockets for SPDT and DPDT, Conxall Type 77-20 Sockets

for 3PDT, 4PDT and 5PDT

COIL DATA

	NOMINAL VOLTAGE	RESISTANCE IN OHMS ± 10%	NOMINAL COIL POWER	
AC Coils	6VAC	4.5		
	12VAC	18	3.5VA	
	24VAC	72		
	120VAC	1850		
	240VAC	7200		
DC Coils	6VDC	20	2W	
	12VDC	80		
	24VDC	315		
	110VDC	6800		

Coil Voltages: AC: Up to 277 Volts/60 Hz

DC: Up to 125 Volts

Coil Treatment: Molded Rvnite® 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. 20 Milliseconds Release Time: Approx. 20 Milliseconds

ENVIRONMENTAL DATA

Operating Ambient: AC: -45° to 70°C

DC: -45° to 85°C

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: 45°C Approx.

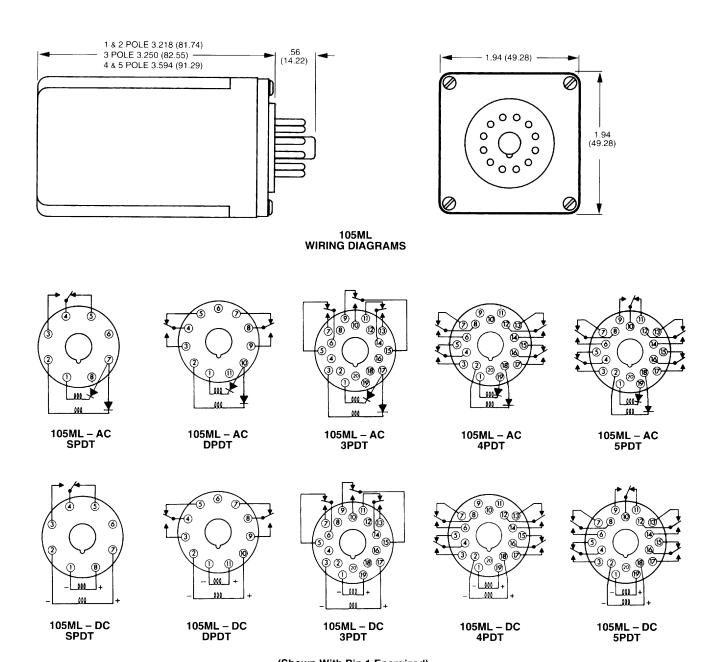
MECHANICAL DATA

Terminals: Octal Type with 8, 11, 20 pins

Cover: Polycarbonate - Flammability Rating 94V2

Weight: Approx. 8.6 oz. (244 g)

DIMENSIONS [Unit Inch (mm)]



(Shown With Pin 1 Energized)

ORDERING INFORMATION

10 AMP Part Numbers

AC Coils			DC Coils						
Pole Configuration	24VAC	120VAC	240VAC	12VDC	24VDC	110VDC			
SPDT DPDT	20034-82 20035-82	20034-83* 20035-83*	20034-84 20035-84	20037-81 20038-81	20037-82* 20038-82*	20037-84 20038-84			
3PDT 4PDT 5PDT	20036-82 20263-82 20267-82	20036-83 20263-83 20267-83	20036-84 20263-84 20267-84	20039-81 20261-81 20265-81	20039-82 20261-82 20265-82	20039-84 20261-83 20265-83			

^{*}Black Items Are Normally Stocked.

Blue Items Are Non Stock. Minimum Quantity May Be Required.