





105ML Series Magnetic Latching Relay 5 & 10 Amp Plug-In Octal Base

Magnetic Latching relay that controls electrical loads

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

Typical Applications

• Railroads • Public Transit

Models

105ML: Magnetic latching 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

Contact Data	
Configuration	Thru 5PDT
Materials	5 Amp: 1/8" Diameter Moveable Fine Silver 3/16" Diameter Stationary Fine Silver 10 Amp: 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	

Movable Contact Size		Pole Configuration	UL Ratings		
		SPDT			
1/8" Diameter		DPDT	5 Amp or 1/8 HP at 120 VAC		
		3PDT	5 Amp or 1/4 HP at 240 VAC		
		4PDT	5 Amp at 28 VDC		
		5PDT			
3/16" Diameter		SPDT			
		DPDT	10 Amp or 1/3 HP at 120 VAC		
		3PDT	10 Amp or 1/2 HP at 240 VAC		
		4PDT	10 Amp at 28 VDC		
		5PDT	-		
Expected Life	Electrical at Rated Load (Min) 100,000 Operations Mechanical Life 10,000,000 Operations				
Dielectric Strength	800 VRMS, 60 Hz Between Contacts 1500 VRMS, 60 Hz Between Other Elements				

All dimensions in Inches

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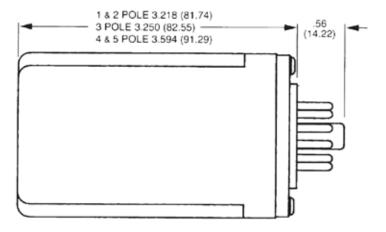


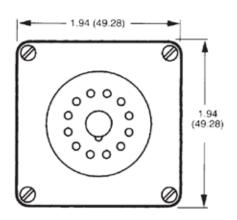
Coil Data						
	Nominal Voltage	Resistance In Ohms ± 10%	Nominal Coil Power			
AC Coils	6 VAC 12 VAC 24 VAC 120 VAC 240 VAC	4.5 18 72 1850 7200	3.5 VA			
DC Coils	6 VDC 20 12 VDC 80 24 VDC 315 110 VDC 6800		2 W			
Coil Voltages	AC: Up to 277 Volts/60 Hz DC: Up to 125 Volts					
Coil Treatment	Molded 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. 20 Milliseconds					
Release Time	Approx. 20 Milliseconds					
Enviromental Data						
Operating Ambient	AC: -45° to 70° DC: -45° to 85°C					
Coil Temperature Rise	(25°C Ambient - Continuous Duty) AC: 45°C Approx. @ 60Hz - 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	All Versions Approx. 8.6 oz. (244 g)					



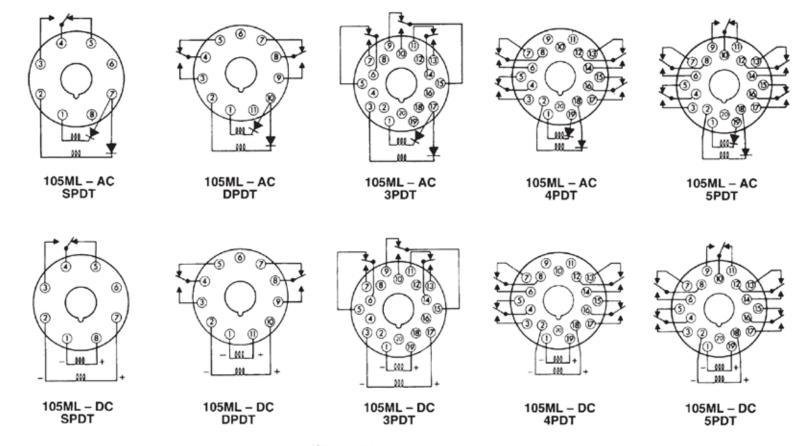
Dimensional View

Units: Inches [mm]





105ML WIRING DIAGRAMS



(Shown With Pin 1 Energized)



Ordering Information

	AC C	Coils	DC Coils			
Pole Config.	24 VAC	120 VAC	240 VAC	12 VDC	24 VDC	110 VDC
SPDT	20034-82	20034-83*	20034-84	20037-81	20037-82*	20037-84
DPDT	20035-82	20035-83*	20035-84	20038-81	20038-82*	20038-84
3PDT	20036-82	20036-83	20036-84	20039-81	20039-82	20039-84
4PDT	20263-82	20263-83	20263-84	20261-81	20261-82	20261-83
5PDT	20267-82	20267-83	20267-84	20265-81	20265-85	20265-83

(*) Normally Stocked

Non stocked items require a minimum order