



100ML Series General Purpose Magnetic Latching Relays

Magnetic latching relay that controls electrical loads

Features

- Inexpensive, magnetic latching relays
- Pole configurations up to 6PDT
- Molded Class F coils handle high ambient temperatures, resist moisture and dust
- Snap action, one piece armature eliminates interconnections
- No power required to maintain contact status - only a pulse to charge

Typical Applications

- Railroads • Public Transit • Pump Controllers

Models

- 100ML:** 5 Amp Latching Relay
- 101ML:** 10 Amp Latching Relay
- 102ML:** 5 & 10 Amp latching relay, no UL or CSA recognition
- 103ML:** 5 & 10 Amp latching relay polarized for applications requiring rejection of wrong signals, responds to external change in operations polarity, no UL or CSA recognition



Contact Data	
Configuration	Thru 6PDT
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
1/8" Diameter	SPDT DPDT 3PDT 4PDT 5PDT 6PDT
3/16" Diameter	SPDT DPDT 3PDT 4PDT 5PDT 6PDT
	UL Ratings**
	5 Amp or 1/8 HP at 120 VAC 5 Amp or 1/4 HP at 277 VAC 5 Amp at 28 VDC
	10 Amp or 1/3 HP at 120 VAC* 10 Amp or 1/2 HP at 277 VAC 10 Amp at 28 VDC
Expected Life	Electrical at Rated Load (Min.) 100,000 Operations Mechanical Life 10,000,000 Operations
Dielectric Strength	800 VRMS, 60 Hz Between Contacts 2200 VRMS, 60 Hz Between Other Elements
Agency Approvals	UL Recognized File No. E37066 CSA Certified File No. LR20690

* 3 Pole and 6 Pole rated at 6-2/3 Amp when switching greater than 150 VAC unless polarity is the same on all poles.

** UL and CSA on Model 100ML and 101ML only

All dimensions in Inches

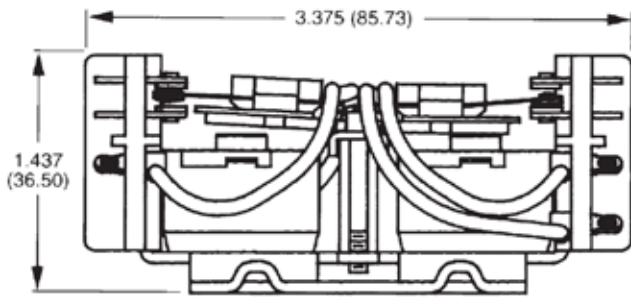
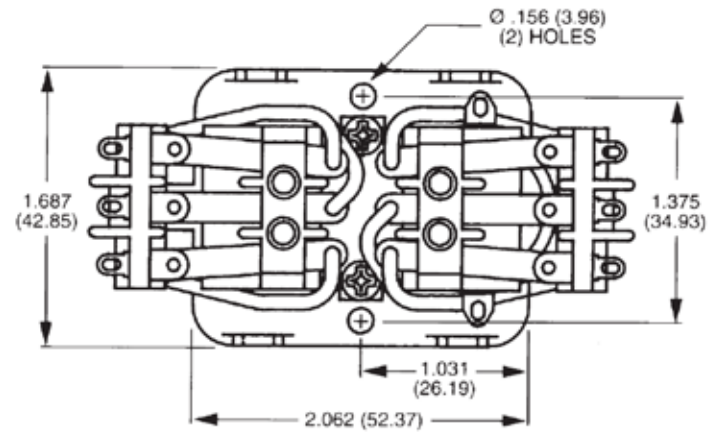
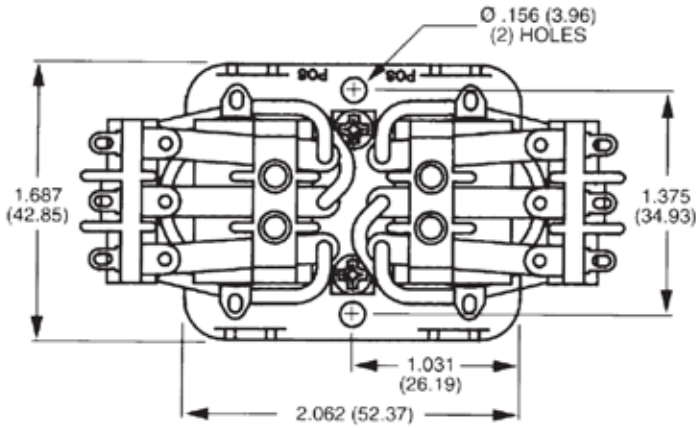
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Coil Data			
	Nominal Voltage	Resistance In Ohms ± 10%	Nominal Coil Power
AC Coils	6 VAC	4.5	3.5 VA
	12 VAC	18	
	24 VAC	72	
	120 VAC	1850	
	240 VAC	7200	
DC Coils	6 VDC	20	2 W
	12 VDC	80	
	24 VDC	315	
	110 VDC	6800	
Coil Voltages	AC: Up to 277 Volts/60 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		
Environmental Data			
Operating Ambient	AC: -45° to 85° DC: -45° to 100°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	All versions pierced solder lugs		
Weight	All Versions Approx. 5.0 oz. (142 g)		

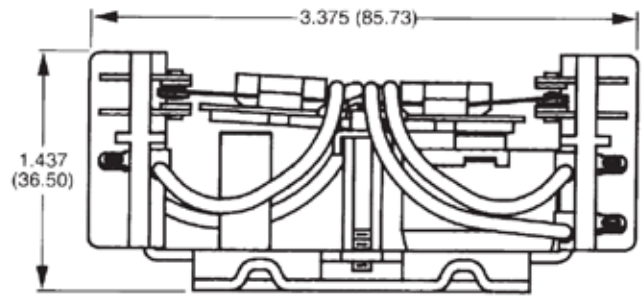
100ML

Dimensional View

Units: Inches [mm]

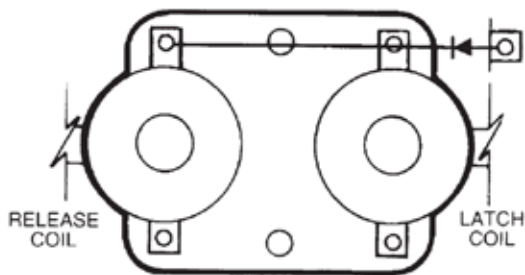


100ML/101ML

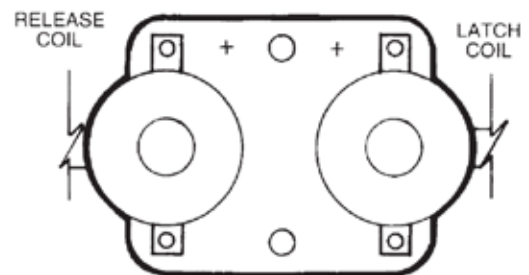


103ML

(102ML Dimensions Same as 103ML, but with Second Coil Added)



A.C. Relay



D.C. Relay

Note: Polarity Indicated Must be Observed

Ordering Information

5 Amp Part Numbers

Model	Pole Config.	AC Coils			DC Coils		
		24 VAC	120 VAC	240 VAC	12 VDC	24 VDC	110 VDC
100ML	4PDT	20351-82	20351-83	20351-84	20024-81	20024-82	20024-83
	6PDT	20355-82	20355-83	20355-84	20026-81	20026-82	20026-83
102ML	4PDT	20028-82	20028-83	20028-84	---	---	---
	6PDT	20030-82	20030-83	20030-84	---	---	---

10 Amp Part Numbers

101ML	4PDT	20352-82	20352-83	20352-84	20025-81	20025-82	20025-83
	6PDT	20356-82	20356-83	20356-84	20027-81	20027-82	20027-83
102ML	4PDT	20029-82	20029-83	20029-84	---	---	---
	6PDT	20031-82	20031-83	20031-84	---	---	---

(*) Normally Stocked

Non stocked items require a minimum order