Time Delay Relays DELAY-ON-MAKE

PRLM Series

c¶Us cUus^{*}



Wiring Diagram



8-pin octal DPDT

Ordering Information

MODEL	INPUT VOLTAGE	ADJUSTMENT	TIME DELAY
PRLM41180	120 V ac	Fixed	180 s
PRLM423	120 V ac	Adjustable	1–60 s

Description

The PRLM series is designed for use in non-critical timing applications. It offers low cost, fixed or knob adjustable timing control, full 8 A relay output, and onboard LED indication. The onboard LED indicates whether or not the unit is timing (flashing LED) as well as the status of the output.

Operation (Delay-on-Make)

The time delay is initiated when input voltage is applied. LED flashes during timing. At the end of the delay period, the output contacts energize. LED is on steady after the unit times out.

Reset: Reset is accomplished by removal of input voltage. There is no false output when reset during timing.

Features & Benefits

FEATURES	BENEFITS	
Electronic circuitry with electromechanical relay	Repeat Accuracy +/- 2 %	
Knob adjustable time delay	Guaranteed time range of up to 60 sec.	
Isolated 8 A, DPDT output contacts	Allows control of loads with independent voltage sources	
LED indication	Provides relay status both during and after timing	
Industry standard octal plug connection	Eliminates need for special connectors	

Accessories



OT08PC 8-pin Octal Socket for UL listing*

8-pin 35 mm DIN-rail or surface mount. Rated at 10 A @ 600 V ac. Surface mounted with two #6 screws or snaps onto a 35 mm DIN rail.



P1011-6 Octal Socket for UL listing* 8-pin surface mount socket with binder head screw terminals. Rated 10 A @ 600 V ac.



C103PM (AL) DIN Rail 35 mm aluminum DIN rail available in a 36 in.

(91.4 cm) length.



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Specifications

Time Delay

Type Range Repeat Accuracy Fixed Time Tolerance & Setting Accuracy Reset Time Recycle Time

Time Delay vs Temp. & Voltage Input Voltage Tolerance 120 V ac AC Line Frequency Power Consumption Output Type Form Rating

Life

Protection

Surge Isolation Voltage Insulation Resistance Polarity Indication Type Operation

Mechanical Mounting

Dimensions

Termination

Environmental Operating/Storage Temperature Weight Safety Marks UL (socket required)* +/- 5 % $\leq 50 \text{ ms}$ After timing: $\leq 20 \text{ ms}$ During timing: 0.1% of max. time delay or 75 ms, whichever is greater $\leq \pm 5\%$ 120 V ac -20 %-10 % 50/60 Hz \leq 3.25W Electromechanical relay Isolated, DPDT 8 A resistive @ 120/240 V ac; 1/3 hp @ 120/240 V ac Mechanical - 1x107; Electrical - 1x106 IEEE C62.41-1991 Level A \geq 1500 V rms input to output $\geq 100 \ M\Omega$ Dc units are reverse polarity protected LED During timing - flashing Output energized - on steady

Digital circuitry

±2 %

See "Ordering Information" table

Plug-in socket **H** 44.45 mm (1.75"); **W** 60.33 mm (2.38"); **D** (with socket) 104.78 mm (4.13") Octal 8-pin plug-in

-20° to 65°C / -30° to 85°C ≅ 4 oz (113 g)

UL 508 (E57310)

*UL Listed when used with Part Number OT08-PC or RB08-PC manufactured by Custom Connector Corp.

Note: Manufacturer's recommended screw terminal torque for the OT series sockets is 12 in-lbs.

Function Diagram



V = Voltage NO = Normally Open Contact NC = Normally Closed Contact TD = Time Delay R = Reset $-\sqrt{-}$ = Undefined Time

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