



Solving your relay requirements since 1922

Amperite Co.  
567 52nd Street  
P.O. Box 329  
West New York, NJ 07093  
(800) 752-2329  
[www.Amperite.com](http://www.Amperite.com)

## HDOD Series Delay-On-Dropout Time Delay Relay

Solid state CMOS digital circuitry  
True delay on dropout: Timing cycle after power removal  
DPDT (2 form C) isolated 4 ampere relay contacts  
Built-in timing adjust potentiometer  
Numerous models from 0.1 seconds to hours



### Timing Mode

Upon the application of input voltage the relay immediately energizes. The timing cycle begins when input voltage is removed. When the timing cycle is complete, the relay will de-energize



### TIMING DIAGRAM:



### CONTACT INFORMATION

Arrangement: 2 form C (DPDT)  
Contact material: Gold Clad Silver Alloy  
Rating: Maximum Switching Power - 1000 VA, 90W  
(Resistive); Maximum Switching Voltage - 250V AC, 48V DC  
Maximum Switching Current - 4 Amperes  
Nominal Switching Capacity - 4A 250V AC, 3A 30V DC  
UL/CSA Rating - 4 A 1/20 HP 125, 250V AC, 3A 30V DC  
Expected Life @ 25°C  
Mechanical: 100 Million operations  
Electrical 100,000 operation at 4A 250V AC  
200,000 operations at 3A 30V DC

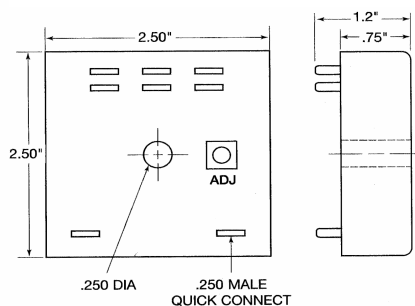


### ENVIRONMENTAL INFORMATION

temperature Range: Ambient: - 40°C to 65°C (-40° to +149°F)



### OUTLINE DIMENSIONS





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### Timing Specifications

Fixed timing: 0.1 seconds to hour, tolerance 5%

consult factory for availability.

Adjustable Timing Ranges: .1 to 1 sec; 1 to 10 sec;

10 to 100 sec; 1 to 10 min; 10 to 100 min.

Availability of long delay time depends upon voltage;

consult factory for details.



### INITIAL DIELECTRIC STRENGTH:

Between open contacts: 750V RMS

Between adjacent contacts: 1000V RMS

Between contacts & coil: 1500V RMS



### INPUT INFORMATION

Voltage: 12, 24, 48, 120 volts AC or DC

Custom voltages are available

Power requirements: 2 VA or Watts

Transient: protection: 1 Joule MOV

Polarity protection DC units

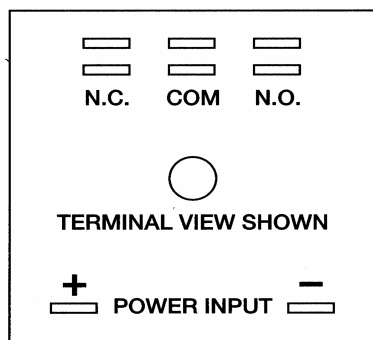


### INPUT VOLTAGES & LIMITS:

Nominal	Minimum	Maximum
10V	11V	15V
24V	20V	28V
48V	20V	28V
110V	41V	55V
120V	95V	125V



### WIRING DIAGRAM



### MECHANICAL INFORMATION

Termination: 1/4 inch quick-connect male terminals

Enclosure: 2 1/2 by 3/4 inch, epoxy sealed

Single 1/4 inch hole flat panel mounting.



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### Ordering Information

Definition of a part number for the Amperite

HDOD Series Time Delay Relay

Example:

120 A 1 - 10 M HDOD  
↑    ↑    ↑    ↑    ↑    ↑  
A    B    C    D    E    F

- A: Denotes nominal input voltage. Voltages: 12, 24 and 120V AC;  
12, 24, 48, and 110V DC.
- B: Denotes type of input power: A = AC, D = DC
- C & D: Denotes timing range if knob adjustability. See Standard ranges.  
For fixed units specify a single number. Custom timing available.
- E: Denotes unit of time delay: S = seconds; M = minutes  
H = hours
- F: Denotes Amperite HDOD Series DPDT 4 ampere  
delay-on-dropout TDR.