

Leads are provided for connection to the circuit. The capsule is designed for use in a circuit with a maximum current of 2 amperes. The capsule is designed for use in a circuit with a maximum voltage of 100 volts. The capsule is designed for use in a circuit with a maximum power of 200 watts. The capsule is designed for use in a circuit with a maximum frequency of 100 kHz. The capsule is designed for use in a circuit with a maximum duty cycle of 100%.

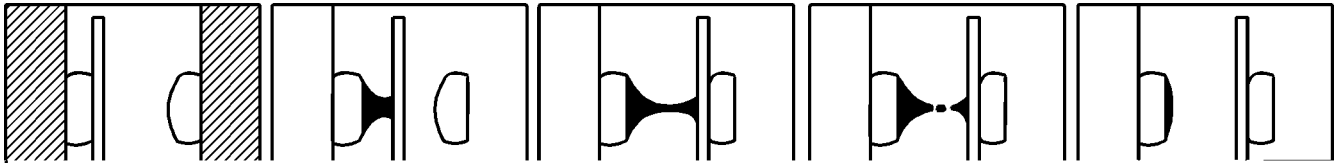
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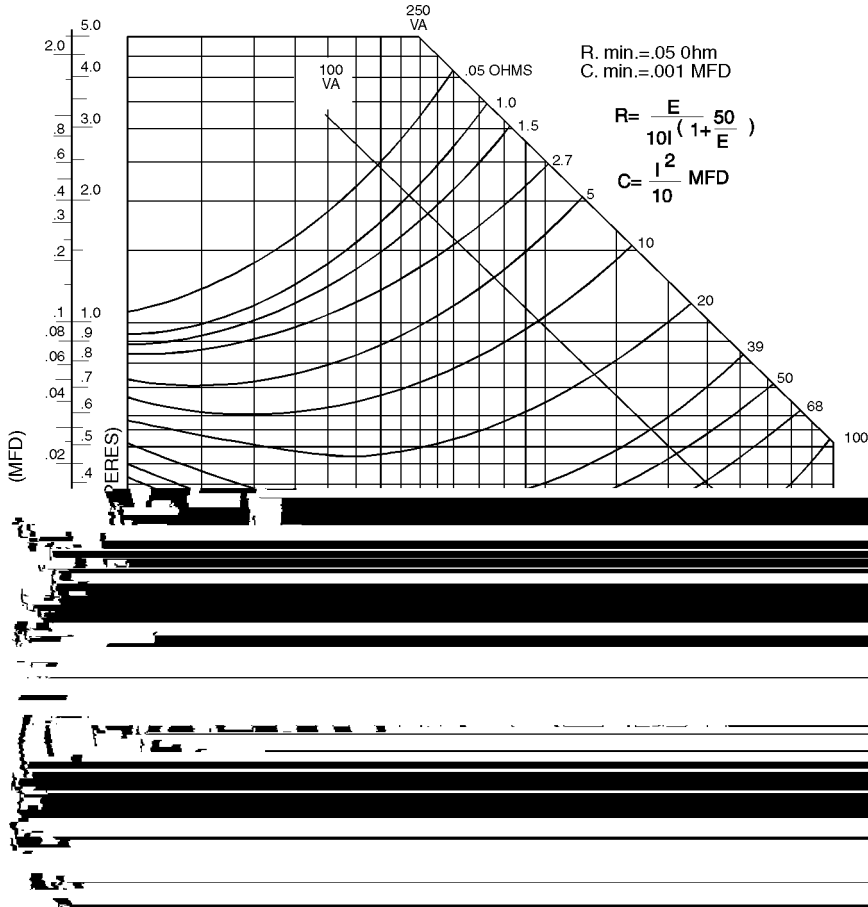
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## Mercury Wetted Relays Contact Protection

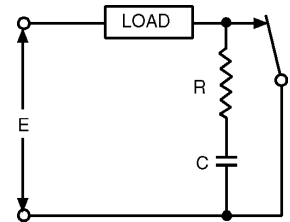


## Nomenclature

- 0.1 ohm  
 - 0.2 ohm  
 - 0.5 ohm  
 - 1.0 ohm  
 - 1.5 ohm  
 - 2.7 ohm  
 - 5 ohm  
 - 10 ohm  
 - 20 ohm  
 - 39 ohm  
 - 50 ohm  
 - 68 ohm  
 - 100 ohm

## Resistor Tolerances

| E   | R   |
|-----|-----|
| 0   | 0%  |
| 100 | 10% |
| 1.0 | 1%  |

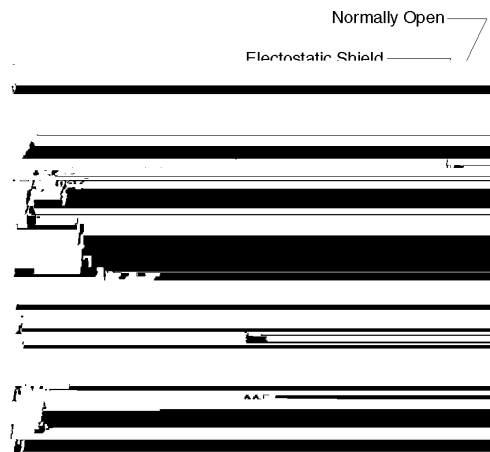
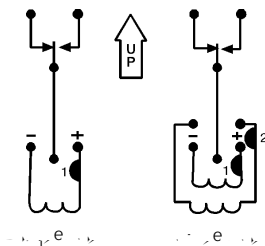


## Specifications

| Parameter               | Series | Series |
|-------------------------|--------|--------|
| Coils                   | .00    | .000   |
| Electric Breakdown      | 1,000  | 1,000  |
| Insulation Resistance   | 1,000  | 1,000  |
| Capacitance             | .0     | .0     |
| Electrostatic Shielding | re     | re     |
| Typical Operate Times   | 1-     | 1-     |
| Typical Release Times   | -      | -      |
| Contact Form Available  | re     | re     |
| Adjustments Available   | re     | re     |
| Temperature Range       | -      | -      |
| Weight                  | .0     | .0     |
| Encapsulant             | re     | re     |
| Mounting Method         | \      | \      |



$\frac{1}{2} \epsilon_{\alpha\beta\gamma\delta} \epsilon^{\alpha\beta\gamma\delta} = 1$



**Nte:** - E i m e m e / O e e  
e e

| Enclosure And Terminals                                                           | Contacts And Adjustment                                                                                                         | Coils                                                                                                              | Standard Or Special                           |
|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|
| 1. . . . . 1 . . .<br>. . . . . 1 . . .<br>. . . . . 1 . . .<br>. . . . . 0 . . . | 1. 1 . . . e . e . e<br>. 1 . . . e<br>. 1 . . . e . e . e<br>. 1 . . . e<br>. 1 . . . m (1%)<br>. . . e . . . e<br>Q . . e . . | 1 - 1/ . . . e . .<br>. . . . . e . .<br>. . . . .<br>. . . . .<br>g g . . . e . .<br>. . . . .<br>1 . . . . e . . | QO . . .<br>1g . . e . .<br>. . . e . . e . . |

$$-\frac{1}{\sqrt{\pi}} \int_0^{\infty} e^{-t} g(t) dt = -\frac{1}{\sqrt{\pi}} \int_0^{\infty} e^{-t} g(t) dt = -\frac{1}{\sqrt{\pi}} \int_0^{\infty} e^{-t} g(t) dt = -\frac{1}{\sqrt{\pi}} \int_0^{\infty} e^{-t} g(t) dt$$

## De Widing SingleSideState MilliWatts

[illegible]

| Coils  | Coil Resistance (Ωms) | Must Operate Current (MAD) (Either Winding) | Must Operate Voltage (V) (Either Winding) | Must Release Voltage (V) (Either Winding) | Maximum Voltage (V) (Either Winding) | Electric Standoff Between Coils (V) | Art. Number   |               |
|--------|-----------------------|---------------------------------------------|-------------------------------------------|-------------------------------------------|--------------------------------------|-------------------------------------|---------------|---------------|
|        |                       |                                             |                                           |                                           |                                      |                                     | 5mm C         | 5mm D         |
| L<br>N | 0/ 0<br>11. /11.      | 0                                           | .                                         | .                                         | 1                                    | .00                                 | 1 9 -1. .00   | 1 9 -11 .00   |
|        | 1 0/1 0               | 1                                           | .0                                        | .0                                        | 1.                                   | .00                                 | 1 9 -1. .00   | 1 9 -11 .00   |
|        | 9 0/9 0               | 1                                           | .                                         | 1.0                                       | 9                                    | .00                                 | 1 9 -1. L .00 | 1 9 -11 L .00 |
|        | 9 0/9 0               | 1                                           | .0                                        | 1.                                        | 1                                    | .00                                 | 1 9 -1. N .00 | 1 9 -11 N .00 |
| N      | 0/ 0<br>1 0/1 0       | 9 .                                         | 10                                        | 1.                                        | .0                                   | .00                                 | 1 9 -1. .00   | 1 9 -11 .00   |
|        | 1 0/1 0               | .                                           | 1                                         | .                                         | 1                                    | .00                                 | 1 9 -1. .00   | 1 9 -11 .00   |
|        | 0/ 0                  | .0                                          | 1.                                        | .0                                        | .                                    | .00                                 | 1 9 -1. N .00 | 1 9 -11 N .00 |
|        | 9 0/9 0               | 9                                           | 1                                         | .                                         | 9                                    | .00                                 | 1 9 -1. .00   | 1 9 -11 .00   |
| L<br>N | 0/ 0<br>11. /11.      | 1.                                          | .0                                        | 1.                                        | 1                                    | .00                                 | 1 9 -1 .00    | 1 9 -1 .00    |
|        | 1 0/1 0               | 1                                           | .                                         | 1.                                        | 1.                                   | .00                                 | 1 9 -1 .00    | 1 9 -1 .00    |
|        | 9 0/9 0               | 9 .0                                        | .                                         | 9                                         | 9                                    | .00                                 | 1 9 -1 L .00  | 1 9 -1 L .00  |
|        | 9 0/9 0               | .0                                          | .                                         | .1                                        | 1                                    | .00                                 | 1 9 -1 N .00  | 1 9 -1 N .00  |
| N      | 0/ 0<br>1 0/1 0       | .                                           | 9                                         | 9                                         | .0                                   | .00                                 | 1 9 -1 .00    | 1 9 -1 .00    |
|        | 1 0/1 0               | .0                                          | 1.                                        | .0                                        | 1                                    | .00                                 | 1 9 -1 .00    | 1 9 -1 .00    |
|        | 0/ 0                  | .0                                          | 1.                                        | .                                         | .                                    | .00                                 | 1 9 -1 N .00  | 1 9 -1 N .00  |
|        | 9 0/9 0               | .0                                          | .                                         | 9                                         | 9                                    | .00                                 | 1 9 -1 .00    | 1 9 -1 .00    |
| N      | 1 . /1 .<br>1 0/1 0   | 1                                           | .                                         | .                                         | 1 .                                  | .00                                 |               |               |
|        | 00/ 00                | 1 .                                         | .                                         | 9                                         | 1 .                                  | .00                                 |               |               |
|        | 10/ 10                | 1 9                                         | .                                         | 9 .1                                      | 9                                    | .00                                 |               |               |
|        | 0/ 0                  | .                                           | .0                                        | .0                                        | 0.                                   | .00                                 |               |               |
| N      | 9 0/9 0               | .                                           | 9                                         | .                                         | .                                    | .00                                 |               |               |
|        | 10/ 10                | .                                           | 1.                                        | .1                                        | 0.                                   | .00                                 |               |               |
|        | 1000/1000             | .                                           | 1.                                        | .                                         | .                                    | .00                                 |               |               |
|        | 1 0/1 0               | .                                           | 1.                                        | .0                                        | 9                                    | .00                                 |               |               |
| N      | 00/ 00                | .                                           | 9                                         | 9                                         | .                                    | .00                                 |               |               |
|        | 10/ 10                | .                                           | 1.                                        | .1                                        | 0.                                   | .00                                 |               |               |
|        | 1000/1000             | .                                           | 1.                                        | .                                         | .                                    | .00                                 |               |               |
|        | 1 0/1 0               | .                                           | 1.                                        | .0                                        | 9                                    | .00                                 |               |               |

## Mercury Wet Reed Relays



**Note:**

Technical drawing of a mechanical part with dimensions and tolerances. The drawing includes a top view and a side view. The top view shows a rectangular part with a central slot. The dimensions are as follows:

- Top view:
  - Overall width: 400 Max. (10.16)
  - Slot width: .090 or .125 (2.29) (3.18)
  - Slot depth: .535 Max. (13.59)
  - Overall height: .555 Max. (14.097)
  - Bottom edge: .095 (2.41)
- Side view:
  - Top edge: Normally open
  - Bottom edge: Normally closed

The drawing also includes a note: "Def (1.78)".

[illegible]

| Two Windings Bistable 20 Milliwatts Per Winding |                       |                                              |                                               |                                           |                                       |                                     |             |            |
|-------------------------------------------------|-----------------------|----------------------------------------------|-----------------------------------------------|-------------------------------------------|---------------------------------------|-------------------------------------|-------------|------------|
| Coil                                            | Coil Resistance (Ωms) | Must Operate Current (MA/D) (Batter Winding) | Must Not Operate Voltage (V) (Batter Winding) | Must Operate Voltage (V) (Batter Winding) | Maximum Voltage (V) (On Winding Only) | Electric Standoff Between Coils (V) | Part Number |            |
|                                                 |                       |                                              |                                               |                                           |                                       |                                     | Form C      | Form D     |
| L                                               | 0/ 0                  | 1                                            | 5                                             | 1.1                                       | 10                                    | . 00                                | 1 0-1 00    | 1 0-1 00   |
|                                                 | 5 0/ 0                | 1.                                           | 5                                             | 1.                                        | 1                                     | . 00                                | 1 0-1 00    | 1 0-1 00   |
|                                                 | 1. . . / 1. . .       | 11                                           | 5                                             | 5                                         | 1                                     | . 00                                | 1 0-1 L 00  | 1 0-1 L 00 |
|                                                 | 0. / 0.               | 10                                           | . 1                                           | .                                         | 5                                     | . 00                                | 1 0-1 .00   | 1 0-1 .00  |
|                                                 | 0/ 0                  | .                                            | .                                             | .                                         | 5                                     | . 00                                | 1 0-1 .00   | 1 0-1 .00  |
| D                                               | . 0/ . 0              | .0                                           | 5                                             | .                                         | 1                                     | . 00                                | 1 0-1 00    | 1 0-1 00   |
|                                                 | 0/ 0                  | .                                            | 1.                                            | .                                         | 5                                     | . 00                                | 1 0-1 .00   | 1 0-1 .00  |
|                                                 | 1 0/ 1 0              | .                                            | 1.                                            | .                                         | 5                                     | . 00                                | 1 0-1 .00   | 1 0-1 .00  |
|                                                 | 0/ 5 0                | .                                            | 1.                                            | .0                                        | 5                                     | . 00                                | 1 0-1 .00   | 1 0-1 .00  |
|                                                 | .000/ .000            | .                                            | .                                             | 5 .0                                      | 5                                     | . 00                                | 1 0-1 .00   | 1 0-1 .00  |
| /                                               | . 00/ . 00            | .1                                           | .                                             | 11.0                                      | 5                                     | . 00                                | 1 0-1 / 00  | 1 0-1 / 00 |

**Note:** The average rate of return on the market portfolio is 10%. Let  $r_M$  denote the return on the market portfolio.

**Series (continued) -Coil Characteristics and Part Numbers**

| <b>One Winding Single Side State Milliwatts</b>       |                                        |                                  |                                          |                                        |                                                                                                                       |                                                                                                               |
|-------------------------------------------------------|----------------------------------------|----------------------------------|------------------------------------------|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| Coil Resistance<br>(Ωms)                              | Must Operate<br>Current (MAD)          | Must Operate<br>Voltage (V)      | Must Release<br>Voltage (V)              | Maximum<br>Voltage (V)                 | Part Number                                                                                                           |                                                                                                               |
|                                                       |                                        |                                  |                                          |                                        | Form C                                                                                                                | Form D                                                                                                        |
| .<br>.1<br>.<br>.<br>1.0<br>1.                        | 11<br>10<br>9.0<br>9.0<br>9.           | .<br>.1<br>.<br>.<br>.1<br>.     | .0.<br>.0<br>.0<br>.10<br>.1<br>.1       | .0<br>.<br>.<br>.<br>.<br>.            | 1 0-1. 1 00<br>1 0-1. 1 00<br>1 0-1. 1 00<br>1 0-1. 1 00<br>1 0-1. 1 00<br>1 0-1. 1-00                                | 1 0-111 00<br>1 0-111 00<br>1 0-111 00<br>1 0-111 00<br>1 0-111 00<br>1 0-111-00                              |
| .<br>.0<br>0<br>1.<br>1.<br>.<br>.                    | .<br>.<br>1<br>1<br>11<br>10           | 1.1<br>1.<br>1.<br>.<br>9.<br>.  | .<br>.<br>.<br>.<br>.0<br>9.             | .0<br>9.<br>11<br>1.<br>1<br>.<br>.    | 1 0-1. 1- 00<br>1 0-1. 1 00<br>1 0-1. 1 00<br>1 0-1. 1 00<br>1 0-1. 1 00<br>1 0-1. 1L 00<br>1 0-1. 1 00               | 1 0-111- 00<br>1 0-111 00<br>1 0-111 00<br>1 0-111 00<br>1 0-111 00<br>1 0-111L 00<br>1 0-111 00              |
| 0<br>1.1 0<br>1. 0<br>.<br>.<br>9.00<br>.100<br>9.000 | .<br>9.<br>.<br>.<br>.<br>.<br>.<br>.1 | .<br>.<br>.<br>11<br>1<br>1<br>1 | 1.1<br>1.<br>1.<br>.<br>.<br>.<br>.<br>. | .<br>.<br>.<br>.<br>.<br>.<br>10<br>1. | 1 0-1. 1 00<br>1 0-1. 1 00<br>1 0-1. 1 00<br>1 0-1. 1 00<br>1 0-1. 1 00<br>1 0-1. 1 00<br>1 0-1. 1 00<br>1 0-1. 1/ 00 | 1 0-111 00<br>1 0-111 00<br>1 0-111 00<br>1 0-111 00<br>1 0-111 00<br>1 0-111 00<br>1 0-111 00<br>1 0-111/ 00 |

| <b>Two Windings Single Side State Milliwatts Per Winding</b>       |                                                |                                              |                                              |                                              |                                           |                                                                              |                                                                              |
|--------------------------------------------------------------------|------------------------------------------------|----------------------------------------------|----------------------------------------------|----------------------------------------------|-------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| Coil Resistance<br>(Ωms)                                           | Must Operate<br>Current (MAD)<br>(Per Winding) | Must Operate<br>Voltage (V)<br>(Per Winding) | Must Release<br>Voltage (V)<br>(Per Winding) | Maximum<br>Voltage (V)<br>(Per Winding Only) | Electric Standoff<br>Between Coils<br>(V) | Part Number                                                                  |                                                                              |
|                                                                    |                                                |                                              |                                              |                                              |                                           | Form C                                                                       | Form D                                                                       |
| 0/ 0<br>9.0/ 0<br>1. / 1.<br>0. / 0.<br>0/ 0                       | .<br>9.<br>0<br>1.                             | .<br>9.<br>.<br>.<br>.                       | .<br>.<br>.<br>9.1<br>.                      | 10<br>1<br>1<br>9.<br>.                      | . 00<br>00<br>00<br>00<br>00              | 1 0-1. 1 00<br>1 0-1. 00<br>1 0-1. L 00<br>1 0-1. 00<br>1 0-1. 00            | 1 0-11 1 00<br>1 0-11 00<br>1 0-11 L 00<br>1 0-11 00<br>1 0-11 00            |
| . 0/ 0<br>0/ 0<br>1. 0/ 1. 0<br>9.0/ 9.0<br>.000/ .000<br>.00/ .00 | 10.<br>9.<br>.<br>.<br>.<br>.                  | 9.<br>9.0<br>11.0<br>1.0<br>1.0<br>1.0       | 1.<br>1.<br>.<br>.<br>.<br>.                 | 1<br>9.<br>.<br>9.<br>.<br>9.                | 00<br>00<br>00<br>00<br>00<br>00          | 1 0-1. 00<br>1 0-1. 00<br>1 0-1. 00<br>1 0-1. 00<br>1 0-1. 00<br>1 0-1. / 00 | 1 0-11 00<br>1 0-11 00<br>1 0-11 00<br>1 0-11 00<br>1 0-11 00<br>1 0-11 / 00 |