

| Type                                                 |                    | Standard Cartridge                                                 |         |       |         |        |       | Master Cartridge                                                                                                                                                 |          |       |         |        |       | Heavy duty                                                                                                                                                            |         |       |         |        |       |  |
|------------------------------------------------------|--------------------|--------------------------------------------------------------------|---------|-------|---------|--------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------|---------|--------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-------|---------|--------|-------|--|
| Bulletin No.                                         |                    | 700-P                                                              |         |       |         |        |       | 700-PMKIT                                                                                                                                                        |          |       |         |        |       | 700-PHDKIT                                                                                                                                                            |         |       |         |        |       |  |
| Electrical                                           |                    |                                                                    |         |       |         |        |       |                                                                                                                                                                  |          |       |         |        |       |                                                                                                                                                                       |         |       |         |        |       |  |
| Contact Rating Continuous                            |                    | 10 A @ 600V AC<br>5 A @ 600V DC                                    |         |       |         |        |       | 20 A @ 600V AC<br>10 A @ 600V DC                                                                                                                                 |          |       |         |        |       | 35 A @ 600V AC<br>20 A @ 600V DC                                                                                                                                      |         |       |         |        |       |  |
| Ratings                                              | AC                 | NEMA A600                                                          |         |       |         |        |       | 2 x NEMA A600                                                                                                                                                    |          |       |         |        |       | 2 x NEMA A600                                                                                                                                                         |         |       |         |        |       |  |
| Make/Break                                           | DC                 | NEMA P600                                                          |         |       |         |        |       | N150 P600                                                                                                                                                        |          |       |         |        |       | N150 P600                                                                                                                                                             |         |       |         |        |       |  |
| Additional Contact Ratings for AC single-phase loads |                    | —                                                                  |         |       |         |        |       | 3 Hp @ 240V AC - N.O.<br>2 Hp @ 240V AC - N.O./N.C.<br>1 Hp @ 120V AC - N.O./N.C.<br>20 A Resistive Heating to 600V AC<br>20 A Tungsten Lighting Load to 480V AC |          |       |         |        |       | 5 Hp @ 240V AC - N.O.<br>3 Hp @ 240V AC - N.O./N.C.<br>2 Hp @ 120V AC - N.O./N.C.<br>35 A General Use At 0.75 PF to 600V AC<br>35 A Tungsten Lighting Load to 480V AC |         |       |         |        |       |  |
| DC Current Ratings Make/Break                        |                    | Cartridge Cat. No. 700-CP1                                         |         |       |         |        |       | Cartridge Cat. No. 700-CPM                                                                                                                                       |          |       |         |        |       | Cartridge Cat. No. 700-CPH                                                                                                                                            |         |       |         |        |       |  |
| DC Switching Inductive Load                          | Contacts in Series | Volts DC                                                           |         |       |         |        |       |                                                                                                                                                                  |          |       |         |        |       |                                                                                                                                                                       |         |       |         |        |       |  |
|                                                      |                    | 24                                                                 | 64      | 125   | 250     | 500    | 600   | 24                                                                                                                                                               | 64       | 125   | 250     | 500    | 600   | 24                                                                                                                                                                    | 64      | 125   | 250     | 500    | 600   |  |
|                                                      | 1                  | 5 A                                                                | 2.2 A   | 1.1 A | .55 A   | .24 A  | .2 A  | 10 A                                                                                                                                                             | 5 A      | 2.2 A | .55 A   | .24 A  | .2 A  | 10 A                                                                                                                                                                  | 5 A     | 2.2 A | .55 A   | .24 A  | .2 A  |  |
|                                                      | 2                  | 10 A                                                               | 10 A    | 5 A   | 2 A     | .7 A   | .5 A  | 20 A                                                                                                                                                             | 10 A     | 5 A   | 2 A     | .7 A   | .5 A  | 20 A                                                                                                                                                                  | 10 A    | 5 A   | 2 A     | .7 A   | .5 A  |  |
|                                                      | 3                  | —                                                                  | —       | 7 A   | 3 A     | 1.5 A  | 1.0 A | —                                                                                                                                                                | 15 A     | 7 A   | 3 A     | 1.5 A  | 1.0 A | —                                                                                                                                                                     | 15 A    | 7 A   | 3 A     | 1.5 A  | 1.0 A |  |
|                                                      | 4                  | —                                                                  | —       | 10 A  | 5 A     | 2.5 A  | 1.5 A | —                                                                                                                                                                | 20 A     | 10 A  | 5 A     | 2.5 A  | 1.5 A | —                                                                                                                                                                     | 20 A    | 10 A  | 5 A     | 2.5 A  | 1.5 A |  |
| Coil Voltage Range                                   | AC                 | 85...110%                                                          |         |       |         |        |       | 85...110%                                                                                                                                                        |          |       |         |        |       | 85...110%                                                                                                                                                             |         |       |         |        |       |  |
|                                                      | DC                 | 80...110%                                                          |         |       |         |        |       | 80...110%                                                                                                                                                        |          |       |         |        |       | 80...110%                                                                                                                                                             |         |       |         |        |       |  |
|                                                      | Battery Charging   | 85...115%                                                          |         |       |         |        |       | 85...115%                                                                                                                                                        |          |       |         |        |       | 85...115%                                                                                                                                                             |         |       |         |        |       |  |
| Coil Consumption                                     |                    | 50 Hz                                                              |         |       | 60 Hz   |        |       | 50 Hz                                                                                                                                                            |          |       | 60 Hz   |        |       | 50 Hz                                                                                                                                                                 |         |       | 60 Hz   |        |       |  |
|                                                      | A                  | Inrush                                                             | 132VA±  |       |         | 138VA± |       |                                                                                                                                                                  | 132VA±   |       |         | 138VA± |       |                                                                                                                                                                       | 132VA±  |       |         | 138VA± |       |  |
|                                                      | C                  | Sealed                                                             | 19.3VA± |       |         | 19VA±  |       |                                                                                                                                                                  | 19.3 VA± |       |         | 19VA±  |       |                                                                                                                                                                       | 19.3VA± |       |         | 19VA±  |       |  |
|                                                      | D                  | Inrush                                                             | 12.7VA± |       |         |        |       |                                                                                                                                                                  | 12.7VA±  |       |         |        |       |                                                                                                                                                                       | 12.7VA± |       |         |        |       |  |
|                                                      | C                  | Sealed                                                             | 12.7VA± |       |         |        |       |                                                                                                                                                                  | 12.7VA±  |       |         |        |       |                                                                                                                                                                       | 12.7VA± |       |         |        |       |  |
| PLL - PKLL AC Latch Unit                             | Inrush             | 15VA±                                                              |         |       | 15.6VA± |        |       | 5VA±                                                                                                                                                             |          |       | 15.6VA± |        |       | 15VA±                                                                                                                                                                 |         |       | 15.6VA± |        |       |  |
|                                                      | Sealed             | 5.4VA±                                                             |         |       | 5.5VA±  |        |       | 5.4VA±                                                                                                                                                           |          |       | 5.5VA±  |        |       | 5.4VA±                                                                                                                                                                |         |       | 5.5VA±  |        |       |  |
| PLL - PKLL DC Latch Unit                             | Unlatch            | 35VA±                                                              |         |       |         |        |       | 35VA±                                                                                                                                                            |          |       |         |        |       | —                                                                                                                                                                     |         |       |         |        |       |  |
|                                                      | Intermittent       | 35 W±                                                              |         |       |         |        |       | 35 W±                                                                                                                                                            |          |       |         |        |       | —                                                                                                                                                                     |         |       |         |        |       |  |
| Reset Time                                           | PT – PKT           | 75 ms                                                              |         |       |         |        |       | 75 ms                                                                                                                                                            |          |       |         |        |       | —                                                                                                                                                                     |         |       |         |        |       |  |
| Minimum Pulse                                        | PLL–PKLL           | 75 ms                                                              |         |       |         |        |       | 75 ms                                                                                                                                                            |          |       |         |        |       | —                                                                                                                                                                     |         |       |         |        |       |  |
| Mechanical                                           |                    |                                                                    |         |       |         |        |       |                                                                                                                                                                  |          |       |         |        |       |                                                                                                                                                                       |         |       |         |        |       |  |
| Operating Time                                       | Pickup             | AC – 10...20 ms<br>DC – 30...50 ms                                 |         |       |         |        |       | AC – 10...20 ms<br>DC – 30...50 ms                                                                                                                               |          |       |         |        |       | AC – 10...20 ms<br>DC – 30...50 ms                                                                                                                                    |         |       |         |        |       |  |
|                                                      | Dropout            | AC – 10...20 ms<br>DC – 20...33 ms                                 |         |       |         |        |       | AC – 10...20 ms<br>DC – 20...33 ms                                                                                                                               |          |       |         |        |       | AC – 10...20 ms<br>DC – 20...33 ms                                                                                                                                    |         |       |         |        |       |  |
| Mechanical Life                                      |                    | 10 million operations                                              |         |       |         |        |       |                                                                                                                                                                  |          |       |         |        |       |                                                                                                                                                                       |         |       |         |        |       |  |
| Construction                                         |                    |                                                                    |         |       |         |        |       |                                                                                                                                                                  |          |       |         |        |       |                                                                                                                                                                       |         |       |         |        |       |  |
| Contact Arrangement                                  |                    | Up to 12 Poles, Convertible to N.O. or N.C. (8 N.C. Maximum)       |         |       |         |        |       | Up to 12 Poles, Convertible to N.O. or N.C. (8 N.C. Maximum)                                                                                                     |          |       |         |        |       | Up to 6 Poles, Convertible to N.O. or N.C. (4 N.C. Maximum)                                                                                                           |         |       |         |        |       |  |
| Contact Material                                     |                    | Silver Nickel                                                      |         |       |         |        |       | Silver Cadmium Oxide                                                                                                                                             |          |       |         |        |       | Silver Cadmium Oxide                                                                                                                                                  |         |       |         |        |       |  |
| Mounting                                             |                    | Panel, Strip Mount, or DIN Rail<br>Horizontal Mounting Recommended |         |       |         |        |       | Panel, Strip Mount, or DIN Rail<br>Horizontal Mounting Recommended                                                                                               |          |       |         |        |       | Panel, Strip Mount, or DIN Rail<br>Horizontal Mounting Recommended                                                                                                    |         |       |         |        |       |  |
| Environmental                                        |                    |                                                                    |         |       |         |        |       |                                                                                                                                                                  |          |       |         |        |       |                                                                                                                                                                       |         |       |         |        |       |  |
| Temperature                                          | Operating★         | –20...+65 °C (–4...149 °F)                                         |         |       |         |        |       | –20...+65 °C (–4...149 °F)                                                                                                                                       |          |       |         |        |       | –20...+65 °C (–4...149 °F)                                                                                                                                            |         |       |         |        |       |  |
|                                                      | Storage            | –40...+65 °C (–40...149 °F)                                        |         |       |         |        |       | –40...+65 °C (–40...149 °F)                                                                                                                                      |          |       |         |        |       | –40...+65 °C (–40...149 °F)                                                                                                                                           |         |       |         |        |       |  |
| Wire Terminations                                    |                    |                                                                    |         |       |         |        |       |                                                                                                                                                                  |          |       |         |        |       |                                                                                                                                                                       |         |       |         |        |       |  |
| Wire size per UL/CSA                                 |                    | #18 AWG...(2) #12 AWG                                              |         |       |         |        |       |                                                                                                                                                                  |          |       |         |        |       |                                                                                                                                                                       |         |       |         |        |       |  |
| Tightening Torque                                    |                    | 8...12 lb•in (0.9...1.4 N•m)                                       |         |       |         |        |       |                                                                                                                                                                  |          |       |         |        |       |                                                                                                                                                                       |         |       |         |        |       |  |

★ Temperature inside the panel.

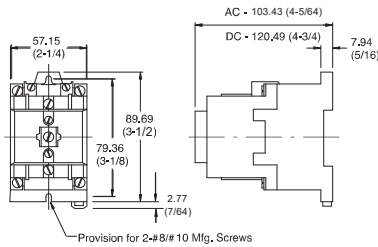
† Average value for all coils within range. For values on a specific coil voltage, contact your local Rockwell Automation sales office or Allen-Bradley distributor.

International Symbol for Mechanically Linked Contacts



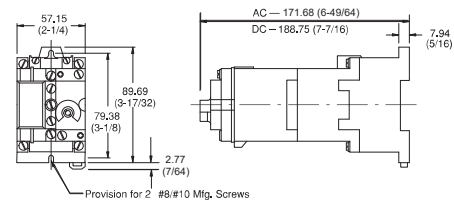
Dimensions are shown in millimeters (inches). Dimensions are not intended to be used for manufacturing purposes.

### Bulletin 700-P Relays with standard, master contact, or heavy-duty contact cartridge

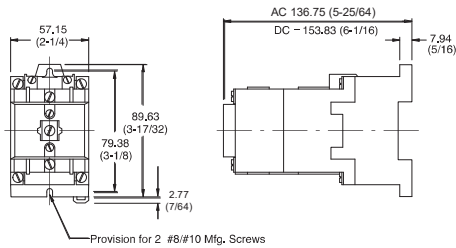


**2- and 4-pole Bulletin 700-P Relay**

**Approximate Shipping Weight: AC – 0.68 kg (1.5 lb), DC – 1.34 kg (2.95 lb)**

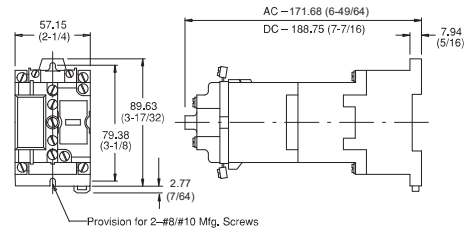


**2- and 4-pole Bulletin 700-P with Pneumatic Time Delay Attachment**  
**Approximate Shipping Weight: AC – 0.85 kg (1.88 lb), DC – 1.5 kg (3.33 lb)**

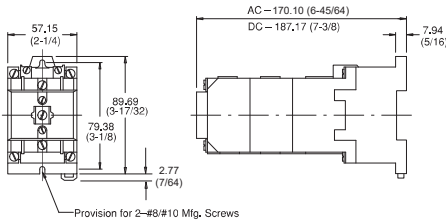


**6- and 8-pole Bulletin 700-P Relay with one -PB adder deck**

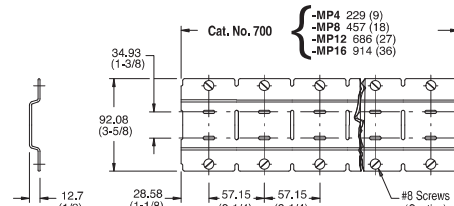
**Approximate Shipping Weight:**  
**AC – 0.79 kg (1.75 lb), DC – 1.45 kg (3.20 lb)**



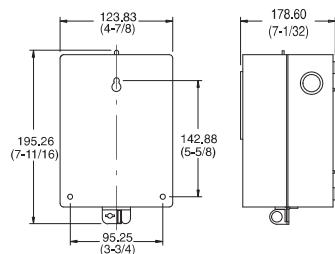
**Bulletin 700-P Relay with Mechanical Latch Attachment**  
**Approximate Shipping Weight:**  
**AC – 0.97 kg (2.13 lb), DC – 1.62 kg (3.58 lb)**



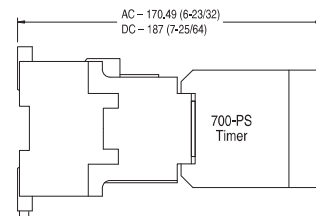
**Bulletin 700-P Relay, up to 12 poles with -PB and -PC adder decks**  
**Approximate Shipping Weight: AC – 1.02 kg (2.25 lb), DC – 1.68 kg (3.7 lb)**



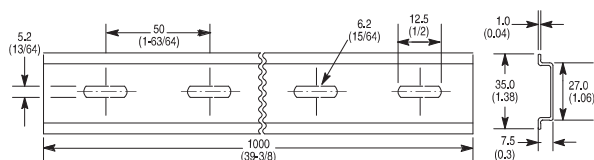
**Relay Rail for Bulletin 700-P, -N, -NM, -R, -RM, -RT, -RTA Relays**  
**Secure the mounting strip with two screws at each end relay position.**  
**Use a minimum of one screw at the 3rd, 5th, 7th, etc., relay positions.**  
**Alternate between upper and lower horizontal slots.**



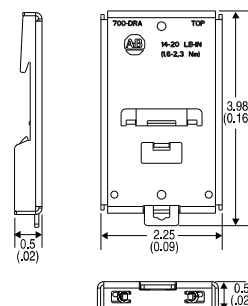
**Cat. No. 700-N31, Type 1 Enclosure for Bulletin 700-P, -RTC Relays**  
**Approximate Shipping Weight: 1.26 kg (2.8 lb)**



**Bulletin 700-PS Timer Mounted on a Bulletin 700-P Relay**  
**Approximate Shipping Weight: AC – 0.68 kg (1.5 lb) without 700-PS, DC – 1.34 kg (2.9 lb) without 700-PS**

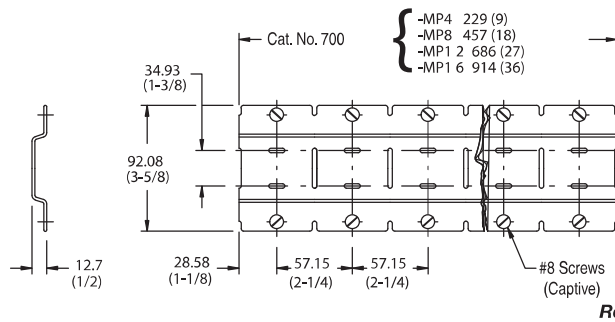
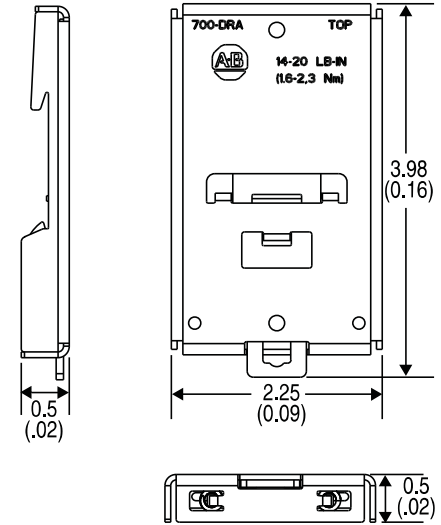
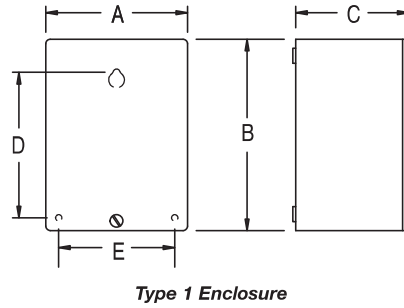
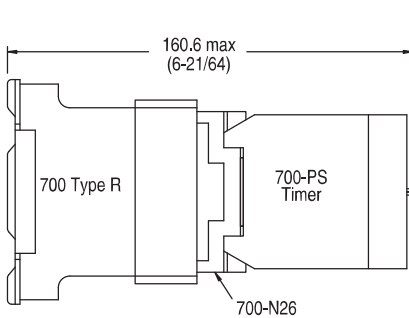
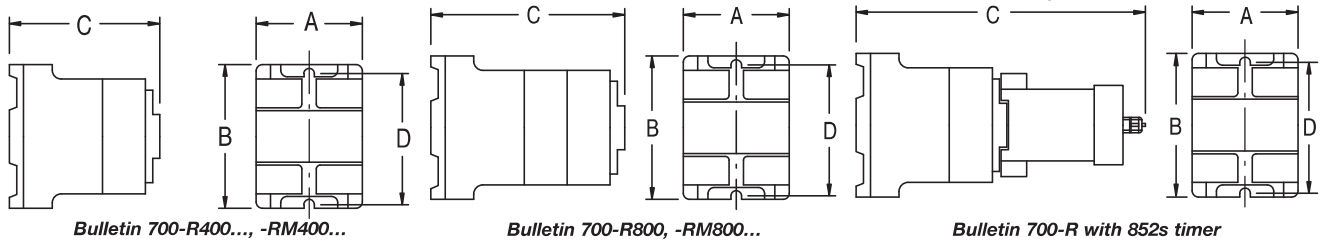


**Cat. No. 199-DR1 DIN Mounting Rail Series B**  
**Cat. No. 199-DR4 DIN Mounting Rail Series B Has No Mounting Holes**

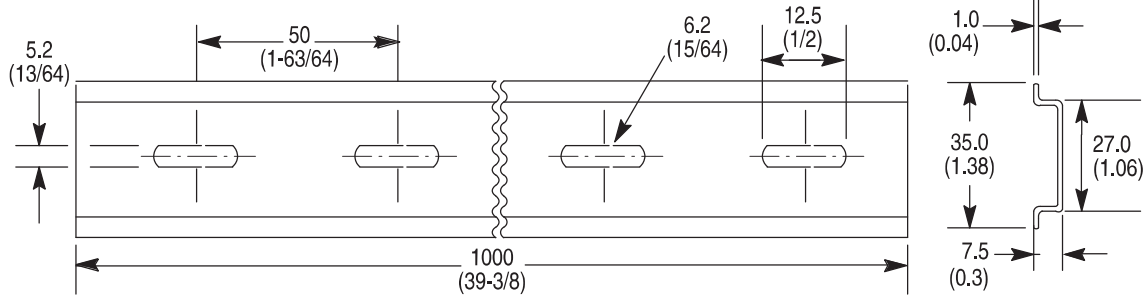


**DIN Rail Adapter**

Dimensions are shown in millimeters (inches) shown. Dimensions are not intended to be used for manufacturing purposes.



Secure the mounting strip with 2 screws at each end relay position. Use a minimum of one screw at the 3rd, 5th, 7th, etc., relay positions. Alternate between upper and lower horizontal slots.



| Bulletin 700-R, -RM Relays        |                                       |              |                                 |                   |                  |                   |                                  |                                     |                    |                    |                    |                   |                                  |             |
|-----------------------------------|---------------------------------------|--------------|---------------------------------|-------------------|------------------|-------------------|----------------------------------|-------------------------------------|--------------------|--------------------|--------------------|-------------------|----------------------------------|-------------|
| Type of Relay                     |                                       | No. of Poles | Open Type<br>Without Enclosures |                   |                  |                   | Approx.<br>Ship Wt.<br>[kg (lb)] | Type 1<br>General Purpose Enclosure |                    |                    |                    |                   | Approx.<br>Ship Wt.<br>[kg (lb)] |             |
|                                   |                                       |              | Drawing<br>Number               | A<br>Wide         | B<br>High        | C<br>Deep         |                                  | D                                   | A<br>Wide          | B<br>High          | C<br>Deep          | D                 |                                  | E           |
| R                                 | Bulletin 700<br>and<br>Bulletin 700DC | 2...4        | 1                               | 55.56<br>(2-3/16) | 88.90<br>(3-1/2) | 92.25<br>(3-3/8)  | 79.38<br>(3-1/8)                 | 0.91<br>(2)                         | 104.78<br>(4-1/8)  | 185.74<br>(7-5/16) | 103.19<br>(4-1/16) | 146.05<br>(5-3/4) | 85.73<br>(3-3/8)                 | 1.81<br>(4) |
|                                   |                                       | 5...8        | 2                               | 55.56<br>(2-3/16) | 88.90<br>(3-1/2) | 111.13<br>(4-3/8) | 79.38<br>(3-1/8)                 | 1.02<br>(2-1/4)                     | 112.71<br>(4-7/16) | 228.60<br>(9)      | 120.65<br>(4-3/4)  | 206.38<br>(8-1/8) | 92.08<br>(3-5/8)                 | 2.49<br>(5) |
| R with<br>Bulletin 852S<br>Timer  | Bulletin 700<br>and<br>Bulletin 700DC | 2...4        | 3                               | 55.56<br>(2-3/16) | 88.90<br>(3-1/2) | 165.1<br>(6-1/2)  | 79.38<br>(3-1/8)                 | 1.25<br>(2-3/4)                     | —                  | —                  | —                  | —                 | —                                | —           |
| RM                                | Bulletin 700<br>and<br>Bulletin 700DC | 2...4        | 1                               | 55.56<br>(2-3/16) | 88.90<br>(3-1/2) | 95.25<br>(3-3/8)  | 79.38<br>(3-1/8)                 | 0.91<br>(2)                         | 104.78<br>(4-1/8)  | 185.74<br>(7-5/16) | 103.19<br>(4-1/16) | 146.05<br>(5-3/4) | 85.73<br>(3-3/8)                 | 1.81<br>(4) |
|                                   |                                       | 5...8        | 2                               | 55.56<br>(2-3/16) | 89.90<br>(3-1/2) | 111.13<br>(4-3/8) | 79.38<br>(3-1/8)                 | 1.02<br>(2-1/4)                     | 112.71<br>(4-7/16) | 228.60<br>(9)      | 120.65<br>(4-3/4)  | 206.38<br>(8-1/8) | 92.08<br>(3-5/8)                 | 2.49<br>(5) |
| RM with<br>Bulletin 852S<br>Timer | Bulletin 700<br>and<br>Bulletin 700DC | 2...4        | 3                               | 55.56<br>(2-3/16) | 88.90<br>(3-1/2) | 165.1<br>(6-1/2)  | 79.38<br>(3-1/8)                 | 1.25<br>(2-3/4)                     | —                  | —                  | —                  | —                 | —                                | —           |

## Specifications

### Bulletin 700-PS

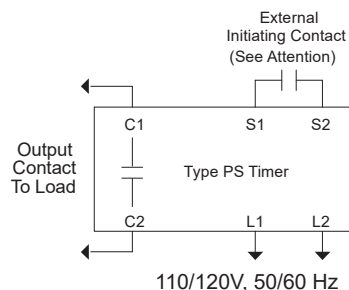
#### Operation

The timer must be energized continuously (L1-L2). ON-Delay: When the initiating contact closes, timing begins. At time-out, the output contact closes. OFF-Delay: When the initiating contact closes, the output contact closes instantly. When the initiating contact re-opens, timing begins. At time-out, the output contact re-opens.

#### Typical Wiring Diagram§

**Attention** — To avoid damage to timer, do not switch any load in addition to timing relay at terminals S1–S2. Do not apply an external voltage to terminals S1–S2.

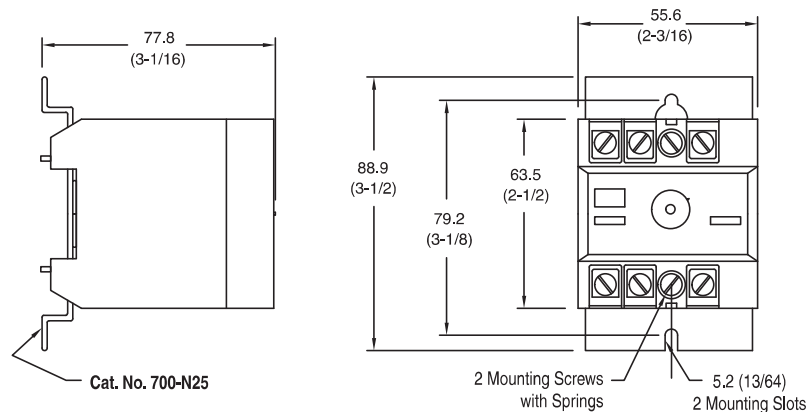
§ External Potentiometer units have R1, R2 terminals for connecting the potentiometer.



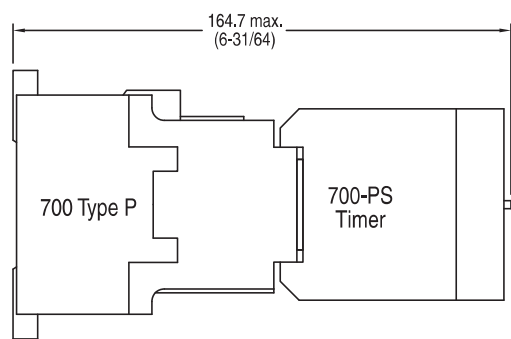
#### Approximate Dimensions

Dimensions are shown in millimeters (inches). Dimensions are not intended to be used for manufacturing purposes.

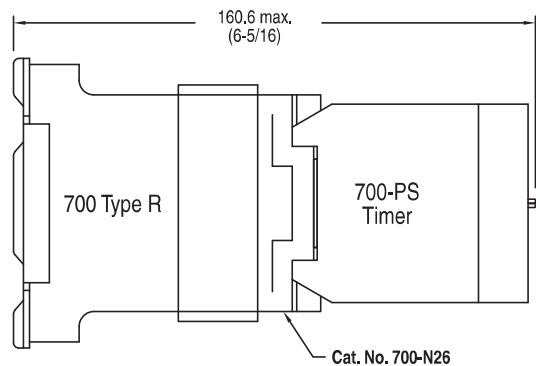
### Bulletin 700-PS



**Bulletin 700-PS Timer Mounted on the Adapter Plate**  
**Cat. No. 700-N25**  
**Approximate Shipping Wt. 0.45 kg (1 lb)**



*Bulletin 700-PS Timer Mounted on a 4-Pole  
Bulletin 700-P or -PK, or 2-Pole Bulletin 700-PH Relay  
Approximate Shipping Wt. 1.02 kg (2.3 lb)*



*Bulletin 700-PS Timer Mounted on a 4-Pole  
Bulletin 700-R or -RM Relay  
Approximate Shipping Wt. 1.25 kg (2.8 lb)*