

# POTTER & BRUMFIELD W28 SERIES

## PUSH TO RESET, FUSEHOLDER-TYPE THERMAL P&B CIRCUIT BREAKER

### FEATURES

- Push to reset.
- Approved to many international standards.
- Replaces slow blow glass cartridge fuse.
- Labor-saving snap-in mounting.
- Button extends for visual trip indication.



### APPROVALS

- W28 series is UL 1077 Recognized as Supplementary Protectors, File E69543, CSA Accepted as Supplementary Protectors (Appliance Component Protectors), File LR15734.
- W28 breakers are VDE approved for use in office equipment (AC loads only) and provides 8mm isolation.
- 20 amp models do not have VDE approvals at present.
- CCC mark compliant certificate 2024010307685413 & 20240100307696168

**Note:** VDE not available on 20A W28 only.



Technical data of approved types on request

Users should thoroughly review the technical data before selecting a product part number. It is recommended that users also seek out the pertinent approvals files of the agencies/laboratories and review them to confirm the product meets the requirements for a given application.

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### ELECTRICAL DATA @ 25°C

|                              |                                                                                                                        |
|------------------------------|------------------------------------------------------------------------------------------------------------------------|
| Calibration                  | Will continuously carry 100% of rating                                                                                 |
|                              | 3-20 amp models :<br>May trip between 101% and 134%,<br>but must trip at 135% of rating<br>within one hour at +25°C.   |
|                              | 0.25-2 amp models :<br>May trip between 101% and 174%,<br>but must trip at 175% of rating<br>within one hour at +25°C. |
| Dielectric Strength          | Over 1,500 volts RMS.                                                                                                  |
| Maximum Operating Voltages   | 32VDC; 250VAC, 50/60Hz.                                                                                                |
| Interrupt Capacity           | 1,000 amps at 250VAC, 50/60Hz.<br>and 32VDC in accordance<br>with UL standard 1077.                                    |
| Resettable Overload Capacity | 0.25 - 2 amp models :<br>Six times rated current                                                                       |
|                              | 3 - 20 amp models :<br>Ten times rated current                                                                         |
| Reset Time                   | 0.25 - 2 amp models :<br>180 seconds max                                                                               |
|                              | 3 - 20 amp models :<br>30 seconds max                                                                                  |

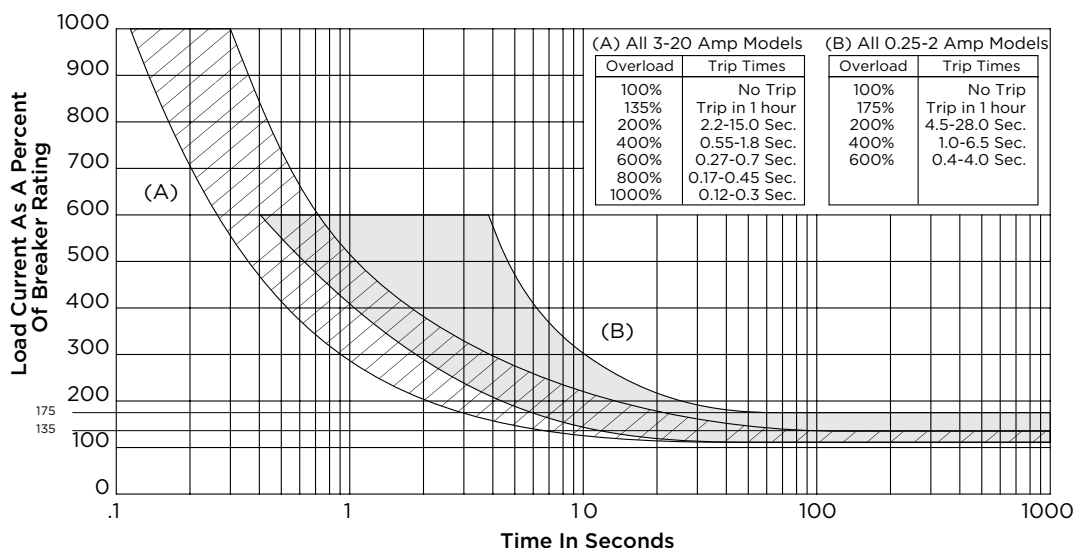
### TYPICAL RESISTANCE VS. CURRENT RATING @ +25°C

| Current Rating in Amps | Typical Resistance in Ohms | Current Rating in Amps | Typical Resistance in Ohms |
|------------------------|----------------------------|------------------------|----------------------------|
| 0.25                   | 14.0                       | 8.0                    | 0.016                      |
| 0.50                   | 3.55                       | 9.0                    | 0.014                      |
| 0.75                   | 2.0                        | 10.0                   | 0.011                      |
| 1.0                    | 0.89                       | 11.0                   | 0.011                      |
| 2.0                    | 0.17                       | 12.0                   | 0.009                      |
| 3.0                    | 0.069                      | 13.0                   | 0.009                      |
| 4.0                    | 0.043                      | 14.0                   | 0.007                      |
| 5.0                    | 0.030                      | 16.0                   | 0.007                      |
| 6.0                    | 0.026                      | 20.0                   | 0.006                      |
| 7.0                    | 0.017                      |                        |                            |

### MECHANICAL/ENVIRONMENTAL DATA

|                    |                                                                                 |
|--------------------|---------------------------------------------------------------------------------|
| Termination        | .250" (6.35mm) quick connects.<br>Soldering to terminals is<br>not recommended. |
| Mounting           | Snaps into panel from front. See<br>Recommended Panel Cutouts.                  |
| Approximate Weight | 0.35 oz. (10g).                                                                 |

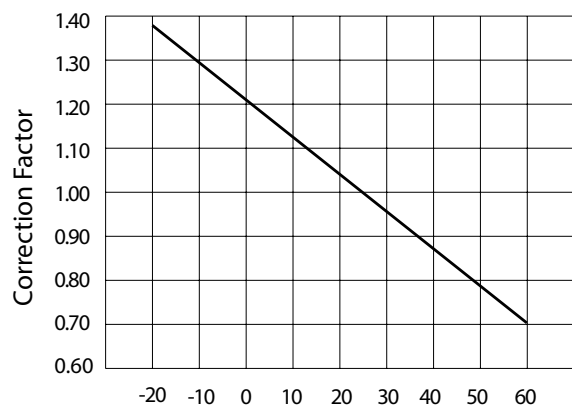
### TIME VS. CURRENT TRIP CURVE @ +25°C



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### AMBIENT COMPENSATION CHART



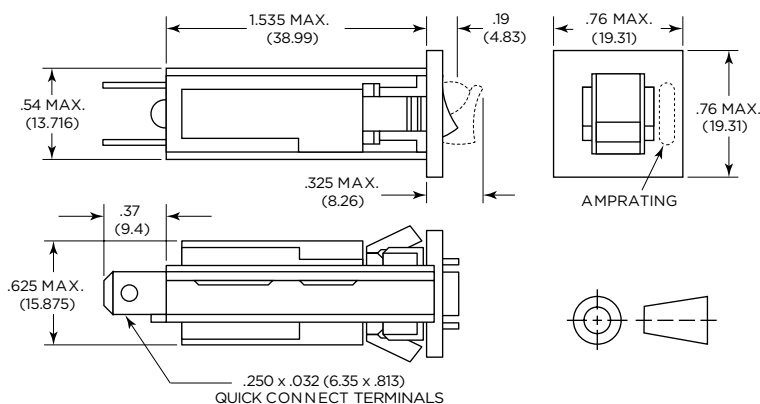
To use this chart: Read up from the ambient temperature to the curve, and across to find a correction factor. Multiply the breaker rating by the correction factor to determine the compensated rating. Calculate the overloads in terms of the compensated rating to use the published trip curve.

Do not use these devices outside their specified operating temperature ranges.

Ambient Temperature In Degrees Centigrade (°C)

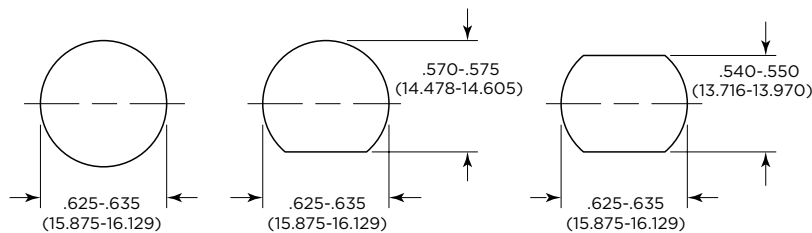
### OUTLINE DIMENSIONS

#### PUSH-TO-RESET TYPE

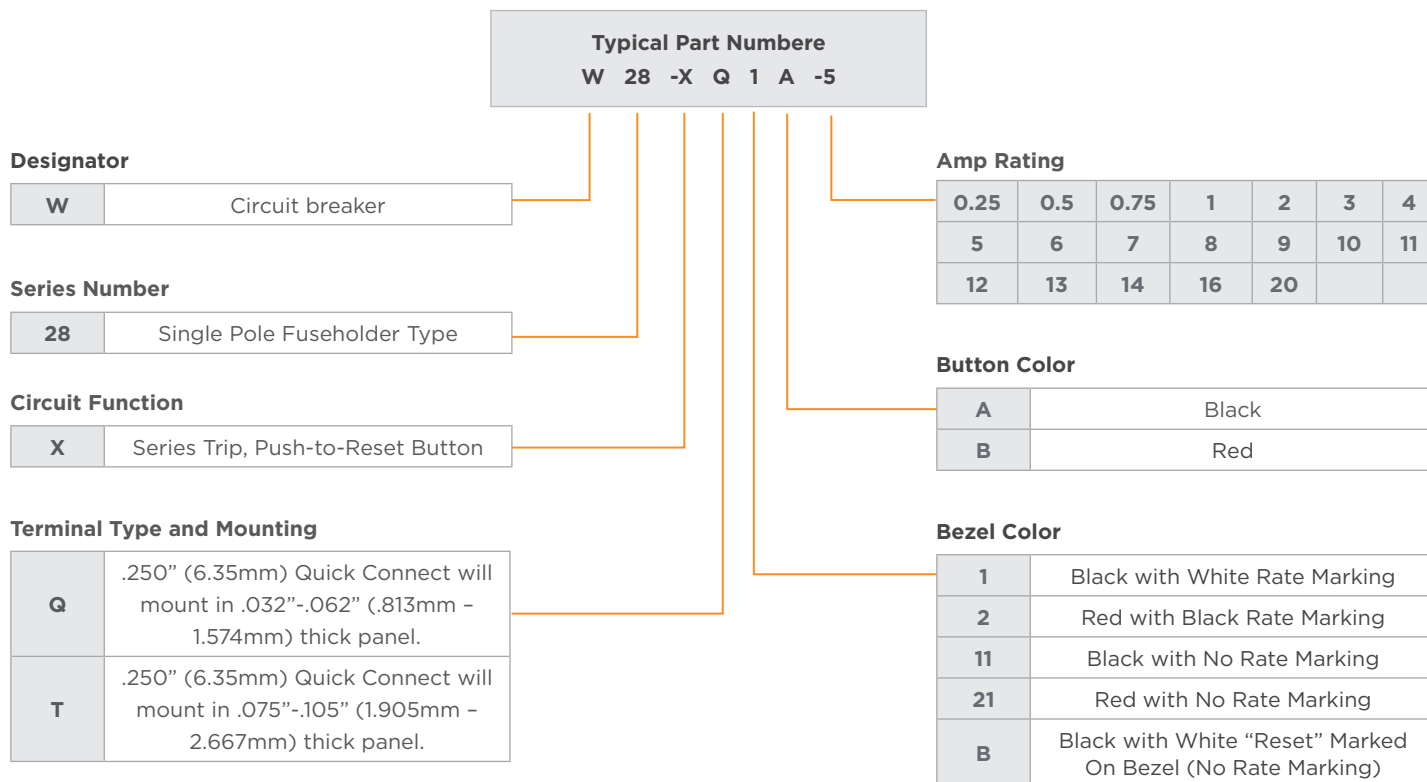


- Notes:**
1. Soldering to terminals is not recommended.
  2. Recommended Panel Thickness:  
 Style Q: .032" - .062" (.813 mm - 1.574 mm)  
 Style T: .075" - .105" (1.905 mm - 2.667 mm)

### RECOMMENDED PANEL CUTOUTS



## ORDERING INFORMATION



**Note:** All standard part numbers in this series are RoHS compliant.

## STOCK ITEMS - AUTHORIZED DISTRIBUTORS ARE MORE LIKELY TO STOCK THE FOLLOWING ITEMS.

|               |            |            |             |             |             |
|---------------|------------|------------|-------------|-------------|-------------|
| W28-XQ1A-0.25 | W28-XQ1A-1 | W28-XQ1A-4 | W28-XQ1A-7  | W28-XQ1A-12 | W28-XT1A-10 |
| W28-XQ1A-0.50 | W28-XQ1A-2 | W28-XQ1A-5 | W28-XQ1A-8  | W28-XQ1A-15 | W28-XT1A-12 |
| W28-XQ1A-0.75 | W28-XQ1A-3 | W28-XQ1A-6 | W28-XQ1A-10 | W28-XQ1A-20 |             |

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 [TE Connectivity](#) Information

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-  Cost Control Management
-  Shortage Management
-  Alternative Solution
-  Excess Inventory Management