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.

Agency Approvals
W28 series is UL 1077 Recognized as Supplementary Protectors, File E69543, and 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. 16 amp and 20 amp models do not have VDE approvals at present. CCC mark compliant, certificate 2004010307135992.

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.

Electrical Data @ 25°C
Calibration: Will continuously carry 100% of rating.
3-20 amp models – may trip between 101% and 134%, but musttrip at 135% of rating within one hour at +25°C.
0.25-2 amp models – may trip between 101% and 174%, but must trip at 175% of rating within one hour at +25°C.
Dielectric Strength: Over 1,500 volts RMS.
Maximum Operating Voltages: 32VDC; 250VAC, 50/60 Hz.
Interrupt Capacity: 1,000 amps at 250VAC, 50/60 Hz and 32VDC in accordance with UL standard 1077.

Typical Resistance vs. Current Rating @ +25°C

<table>
<thead>
<tr>
<th>Current Rating in Amps</th>
<th>Typical Resistance in Ohms</th>
<th>Current Rating in Amps</th>
<th>Typical Resistance in Ohms</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.25</td>
<td>14.0</td>
<td>0.25</td>
<td>0.016</td>
</tr>
<tr>
<td>0.50</td>
<td>5.5</td>
<td>0.50</td>
<td>0.014</td>
</tr>
<tr>
<td>0.75</td>
<td>2.0</td>
<td>0.75</td>
<td>0.011</td>
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<tr>
<td>1.0</td>
<td>0.89</td>
<td>1.0</td>
<td>0.01</td>
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<tr>
<td>2.0</td>
<td>0.17</td>
<td>2.0</td>
<td>0.009</td>
</tr>
<tr>
<td>3.0</td>
<td>0.069</td>
<td>3.0</td>
<td>0.009</td>
</tr>
<tr>
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<tr>
<td>7.0</td>
<td>0.017</td>
<td>7.0</td>
<td>0.006</td>
</tr>
</tbody>
</table>

Mechanical/Environmental Data
Termination: .250” (6.35mm) quick connects. Soldering to terminals is not recommended.
Mounting: Snaps into panel from front. See Recommended Panel Cutouts.
Approximate Weight: 0.35 oz. (10g).

Time vs. Current Trip Curve @ +25°C

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.
Ordering Information

1. Designator:
   W = Circuit breaker

2. Series Number:
   28 = Single Pole Fuseholder Type

3. Circuit Function:
   X = Series Trip, Push-to-Reset Button

4. Terminal Type and Mounting:
   Q = 0.25" (6.35mm) Quick Connect will mount in 0.032"-0.062" (0.813mm – 1.574mm) thick panel.
   T = 0.25" (6.35mm) Quick Connect will mount in 0.075"-0.105" (1.905mm – 2.667mm) thick panel.
   For panel thicknesses other than above, order "Q" type and 55-025B Internal Tooth Push-On Lockwasher.

5. Bezel Color:
   1 = Black with White Rate Marking
   2 = Red with Black Rate Marking
   11 = Black with No Rate Marking
   21 = Red with No Rate Marking
   B = Black with White "Reset" Marked On Bezel (No Rate Marking)

6. Button Color:
   A = Black
   B = Red
   Consult factory for other button colors.

7. Amp Rating:
   0.25 0.75 2 4 6 8 10 12 14 20
   0.50 1 3 5 7 9 11 13 16

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

Outline Dimensions

Push-to-Reset Type

Optional Internal Tooth Push-On Lockwasher

For panels greater than 0.105 (2.67) thickness         55-025B

Recommended Panel Cutouts

Disclaimer

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