# mail

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

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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

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

## W28 series

## Push to Reset Fuseholder-Type Thermal P&B Circuit Breaker



Note: VDE not available on 16A and 20A W28 only.

2 amp models. Ten times rated current

for 3 through 20 amp models.

#### Features

- Push to reset.
- · Approved to many international standards.
- Replaces slow blow glass cartridge fuse.
- · Labor-saving snap-in mounting.

Agency Approvals

2004010307135992.

• Button extends for visual trip indication.

## Reset Time: 180 seconds max. for 0.25 through 2 amp models. 5 to 30 seconds for 3 through 20 amp models.

Resettable Overload Capacity: Six times rated current for 0.25 through

### 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	0.01
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	15.0	0.007
6.0	0.026	16.0	0.007
7.0	0.017	20.0	0.006

## Electrical Data @ 25°C Calibration: Will continuously carry 100% of rating.

requirements for a given application.

- 3-20 amp models may trip between 101% and 134%, but must trip 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.

## 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).

### **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.



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Dimensions are in inches over (millimeters) unless otherwise specified

Dimensions are shown for reference purposes only. Specifications and avail-ability subject to change.

USA: 1-800-522-675 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803 South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 44-8706-080208

Catalog 13 Catalog 13 Issued 3-03 (PDF	:08242 <sup>-</sup> Rev. 11-15)	Potter & Brumfield
Ordering Information	W 28 -X O 1	Δ_5
1. Designator: W = Circuit breaker		
<ol> <li>Series Number:</li> <li>28 = Single Pole Fuseholder Type</li> </ol>		
3. Circuit Function: X = Series Trip, Push-to-Reset Button		
<ul> <li>4. Terminal Type and Mounting: Q = .250" (6.35mm) Quick Connect will mount in .032"062" (.813mm – 1.574mm) T = .250" (6.35mm) Quick Connect will mount in .075"105" (1.905mm – 2.667mm For panel thicknesses other than above, order "Q" type and 55-025B Internal Toot</li> <li>5. Bezel Color:</li> <li>1. Dealer with With the Out Multiple</li> </ul>	thick panel. ) thick panel. h Push-On Lockwasher.	
1 = Black with White Kate Marking  2 = Red with Black Rate Marking  B = Black with White "Reset" Marked On Bezel (No Rate Marking)  11 = Black with No I	Kate Marking Consult factory for other bezel colors.	
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 followin	ng items.	
W28-XQ1A-0.25         W28-XQ1A-1         W28-XQ1A-4         W28-XQ1A-7           W28-XQ1A-0.50         W28-XQ1A-2         W28-XQ1A-5         W28-XQ1A-8           W28-XQ1A-0.75         W28-XQ1A-3         W28-XQ1A-6         W28-XQ1A-10	W28-XQ1A-12 W28-XT1A-10 W28-XQ1A-15 W28-XT1A-12 W28-XQ1A-20	
Outline Dimensions		
Push-to-Reset Type		
68.99) (8.93) (9.31) 54 M AX. (3.716) 325 M AX. (9.26) AM P RATING		
0.4) 6.25 M AX. (5.875) 0.0 EK CONNECT TERM NALS		
Notes: 1. Soldering to terminals is not recommended.	For panels greater than .105 (2.67) thickness 55-025B	
<ol> <li>Recommended Panel Thickness: Style Q: .032"062" (.813 mm - 1.574 mm) Style T: .075"105" (1.905 mm - 2.667 mm)</li> <li>Internal tooth push-on washer available for panel thickness not covered above. Part No. 55-025B.</li> </ol>	55-025B 1.970 DIA. INTERNAL TOOTH PUSH-ON LOCKWASHER (25.64) For each of the 100° (10° CT) Hild area	
Recommended Panel Cutouts	For panels greater than . Too	5 (2.67) INICKNESS
.570-575 (14.478-14.605) (13.716-13.970)	Disclaimer While TE has made every reasonable effort to ensure the acc mation in this document, TE does not guarantee that it is err	uracy of the infor- or-free, nor does
$\rightarrow   \begin{array}{c} 625 \\ 625 \\ 635 \\ (15.875 \\ -16.129) \end{array}   \begin{array}{c} \bullet \\ 625 \\ -635 \\ (15.875 \\ -16.129) \end{array}   \begin{array}{c} \bullet \\ 625 \\ -635 \\ (15.875 \\ -16.129) \end{array}   \begin{array}{c} \bullet \\ 625 \\ -635 \\ (15.875 \\ -16.129) \end{array}   \begin{array}{c} \bullet \\ 625 \\ -635 \\ (15.875 \\ -16.129) \end{array}   \begin{array}{c} \bullet \\ 625 \\ -635 \\ (15.875 \\ -16.129) \end{array}   \begin{array}{c} \bullet \\ 625 \\ -635 \\ (15.875 \\ -16.129) \end{array}   \begin{array}{c} \bullet \\ 625 \\ -635 \\ (15.875 \\ -16.129) \end{array}   \begin{array}{c} \bullet \\ 625 \\ -635 \\ (15.875 \\ -16.129) \end{array}   \begin{array}{c} \bullet \\ 625 \\ -635 \\ (15.875 \\ -16.129) \end{array}   \begin{array}{c} \bullet \\ 625 \\ -635 \\$	TE make any other representation, warranty or guarantee the accurate, correct, reliable or current.	at the information is
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