



W28 series

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



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

Features

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

Agency Approvals

2004010307135992.

requirements for a given application.

Electrical Data @ 25°C

• Button extends for visual trip indication.

2 amp models. Ten times rated current for 3 through 20 amp models. 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	Typical	Current	Typical
Rating	Resistance	Rating	Resistance
in Amps	in Ohms	in Amps	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

Calibration: Will continuously carry 100% of rating.

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 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

- 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.

Time vs. Current Trip Curve @ +25°C

Interrupt Capacity: 1,000 amps at 250VAC, 50/60 Hz. and 32VDC in accordance with UL standard 1077.

Mechanical/Environmental Data

Trip Times

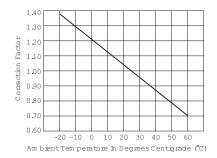
Trip in 1 hour 4.5-28.0 Sec. 1.0-6.5 Sec. 0.4-4.0 Sec.

No Trip

1000

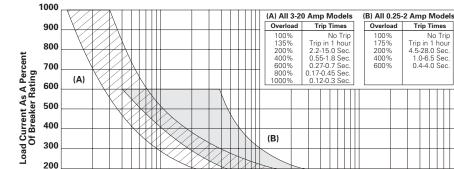
Termination: .250" (6.35mm) quick connects. Soldering to terminals is not recommended. Mounting: Snaps into panel from front. See Recommended Panel Cutouts. Approximate Weight: 0.35 oz. (10g).

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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135 100

110

0

.1

Dimensions are in inches over (millimeters) unless otherwise specified

10

Time In Seconds

1

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

100

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 1: connectivity Issued 3-03 (PD		Potter & Brumfiel
Ordering Information Typical Part Number >	W 28 -X Q 1 A	-5
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 = .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 – 2.667mn For panel thicknesses other than above, order "Q" type and 55-025B Internal Too	n) thick panel.	
5. Bezel Color: 1 = Black with White Rate Marking 2 = Red with Black Rate Marking B = Black with White "Reset" Marked On Bezel (No Rate Marking)	Rate 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 follow W28-X01A-0.25 W28-X01A-1 W28-X01A-4 W28-X01A-7	-	
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-1	W28-XQ1A-15 W28-XT1A-12	
Outline Dimensions	Optional Protective Boot	
Push-to-Reset Type $ \underbrace{ \stackrel{1.535 \text{ MAX}}{(8.99)}} \underbrace{ \stackrel{.19}{(4.83)}} \underbrace{ \stackrel{.76 \text{ MAX}}{(9.31)}} $	Clear Silicone Rubber Boot 23-019A	
54 M AX. (3.716) 325 M AX.		
37 0.25 M AX. (15.875) ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	350 (8,89) (19,05) (19,05)	
QUICK CONNECT TERM INALS Notes: 1. Soldering to terminals is not recommended.	Optional Internal Tooth Push-On Lockwasher For panels greater than .105 (2.67) thickness 55-	-025B
 Recommended Panel Thickness: Style Q: .032"062" (.813 mm - 1.574 mm) Style T: .075"105" (1.905 mm - 2.667 mm) Internal tooth push-on washer available for panel thickness not covered above. Part No. 55-025B. 	55-025E 970 DIA. (25.64) PUSH-ON LOCC	OOTH WASHER
Recommended Panel Cutouts	For panels greater than .10	J5" (2.67) thickness
570-575 (14.478-14.605) (13.716-13.970) (13.716-13.970) (13.716-13.970) (13.716-13.970) (13.716-13.970) (13.716-13.970) (15.875-16.129) (15.875-16.129)	Disclaimer While TE has made every reasonable effort to ensure the ac mation in this document, TE does not guarantee that it is en TE make any other representation, warranty or guarantee th accurate, correct, reliable or current.	rror-free, nor does
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