

# W28 series

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

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

Resettable Overload Capacity: Six times rated current for 0.25 through 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.

**Features** 

• Push to reset.

#### **Agency Approvals**

· Approved to many international standards.

• Replaces slow blow glass cartridge fuse. • Labor-saving snap-in mounting.

• Button extends for visual trip indication.

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.

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 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.

### Typical Resistance vs. Current Rating @ +25°C

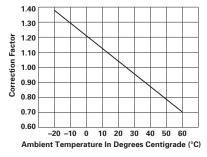
Current Rating in Amps	Typical Resistance in Ohms	Current Rating in Amps	Typical Resistance in Ohms
0.25	14.0	8.0	0.016
0.50	3.55	9.0	0.014
0.75	2.0	10.0	0.011
1.0	0.89	11.0	0.01
2.0	0.17	12.0	0.009
3.0	0.069	13.0	0.009
4.0	0.043	14.0	0.007
5.0	0.030	15.0	0.007
6.0	0.026	16.0	0.007
7.0	0.017	20.0	0.006

#### Mechanical/Environmental Data

Termination: .250" (6.35mm) quick connects. Soldering to terminals is not recommended. Mounting: Snaps into panel from front. See Recommended

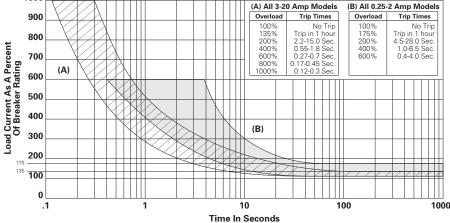
Panel Cutouts. Approximate Weight: 0.35 oz. (10g).

#### **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.

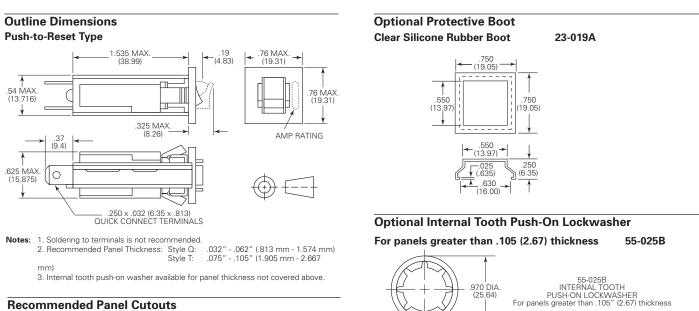
## Time vs. Current Trip Curve @ +25°C 1000 900

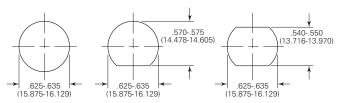


₹ Tyco Electronics				lss	Catalog 130824 sued 3-03 (PDF Rev							
Ordering Information												
			Тур	oical P	art Number >	W	28	-X	Q	1	Α	-5
<b>1. Designator:</b> W = Circuit breaker						-						
<b>2. Series Number:</b> 28 = Single Pole Fuseholde	er Type											
<b>3. Circuit Function:</b> X = Series Trip, Push-to-Re	set Button							-				
4. Terminal Type and Mounti Q = .250" (6.35mm) Quick T = .250" (6.35mm) Quick For panel thicknesses othe	Connect will r Connect will n	nount in .	.075"1	05" (1	.905mm – 2.667	mm) thic	k panel.	vasher.				
5. Bezel Color: 1 = Black with White Rate 2 = Red with Black Rate M B = Black with White "Res	larking	n Bezel (	No Rate	21 =	Black with No Ra Red with No Rate ing)		9	ult factory for	other bezel co	lors.		
6. Button Color: A = Black B = Re Consult factory for other button co	C.											
7. Amp Rating:   0.25 0.75 2 4   0.50 1 3 5	6 8 7 9	10 11	12 13	14 16	20							
Note: All standard part numbers	s in this series	are RoH	S com	liant.								

#### Stock Items – Authorized distributors are more likely to stock the following items

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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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The dimensions in this catalog are for reference purposes only and are subject to change without notice. Specifications are subject to change without notice. Consult Tyco Electronics for the latest dimensions and design specifications.

Dimensions are in inches over (millimeters) unless otherwise specified.