

# 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.

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.

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					

Resettable Overload Capacity: Six times rated current for 0.25 through

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

seconds for 3 through 20 amp models.

2 amp models. Ten times rated current

for 3 through 20 amp models.

### 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.

Dimensions are shown for 110 reference purposes only.

Dimensions are in inches over (millimeters) unless otherwise specified. Specifications and availability subject to change.

Tyco Electronics							ls	Catalog 130824 sued 3-03 (PDF Rev							
Ordering Inform	atio	n					Туріса	l Part Number >	W	28	-X	Q	1	Α	-5
<b>1. Designator:</b> W = Circuit brea	aker														
<b>2. Series Number:</b> 28 = Single Pole		eholde	r Type												
<b>3. Circuit Function</b> X = Series Trip,		-to-Res	set Butte	on							_				
T = .250" (6.35)	imm) mm) (	Quick Quick (	Connec Connect	t will m	nount ir	.075 <i>"</i> ו	105″	(.813mm – 1.574r (1.905mm – 2.667 5-025B Internal Too	mm) thio	ck panel.	washer.				
5. Bezel Color: 1 = Black with V 2 = Red with Bl B = Black with V	lack F	Rate Ma	arking		n Bezel	(No R	21 =	= Black with No Ra = Red with No Rate rking)		g	sult factory for	other bezel c	olors.		
6. Button Color: A = Black Consult factory for a	other b		8 = Red												
<b>7. Amp Rating:</b> 0.25 0.75 0.50 1	2 3	4 5	6 7	8 9	10 11	12 13	14 16	20							
Note: All standard p	art nu	umbers	in this	series	are Ro	HS cor	npliant								

#### 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				



Style T: mm)

3. Internal tooth push-on washer available for panel thickness not covered above

### **Recommended Panel Cutouts**



### Disclaimer

While Tyco Electronics has made every reasonable effort to ensure the accuracy of the information in this document, Tyco Electronics does not guarantee that it is error-free, nor does Tyco Electronics make any other representation, warranty or guarantee that the information is accurate, correct, reliable or current.

970 DIA (25.64)

55-025B INTERNAL TOOTH PUSH-ON LOCKWASHER For panels greater than .105" (2.67) thickness

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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.