

W28 series

Push to Reset Fuseholder-Type Thermal Circuit Breaker

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Note: VDE, Demko, Semko 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 60 seconds for 3 through 20 amp models.

Typical Resistance vs. Current Rating @ +25°C

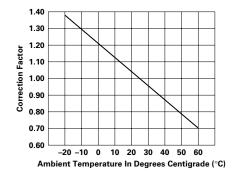
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Current Rating in Amps	Typical Resistance in Ohms	Current Rating in Amps	Typical Resistance in Ohms				
0.25	14.0	8.0	0.016				
0.50	3.55	9.0	0.014				
0.75	2.0	10.0	0.011				
1.0	0.89	11.0	0.01				
2.0	0.17	12.0	0.009				
3.0	0.069	13.0	0.009				
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 on-axis with circuit breaker body are standard. Right-angle quick connect terminals are available as a special order option. Consult the factory for availability of right-angle terminals. 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.

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 have been issued Certificate of Suitability CS2190N as supplementary Equipment Protectors by the Energy Authority of New South Wales, Australia. W28 breakers are also DEMKO (Denmark) and SEV (Switzerland) approved. VDE approved for use in office equipment (AC loads only) and provides 8mm isolation. 16 amp and 20 amp models do not have VDE, DEMKO and SEV 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 ensure the product meets the requirements for a given application.

Electrical Data @ 25°C

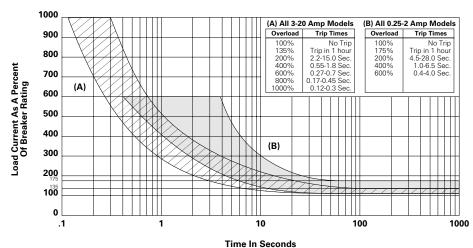
Calibration: Will continuously carry 100% of rating.

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.

Time vs. Current Trip Curve @ +25°C



Dimensions are shown for 110 reference purposes only. Dimensions are in inches over (millimeters) unless otherwise specified. Specifications and availability subject to change.

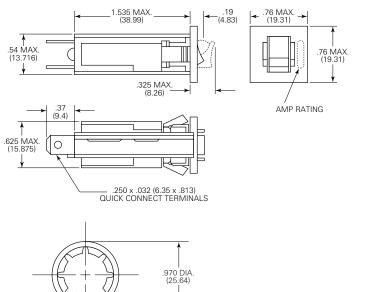
Electronics		Catalog 1308242 Issued 3-03 (PDF Rev. 7-06)											P&B		
Ordering	Inform	natior	า												
							Typical Pa	art Number	► W	28	-X	Q	1	Α	-5
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2. Series 28 = S	Number ingle Pol		holder	Туре						1					
3. Circuit X = Se	Functio ries Trip,		to-Res	et Butto	on						_				
	50" (6.3	5mm) (Connec				813mm – 1.5							
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Stock Items – Authorized distributors are more likely to stock the following items.

W28-XQ1A-0.25	W28-XQ1A-2	W28-XQ1A-6	W28-XQ1A-12	W28-XT1A-12	
W28-XQ1A-0.50	W28-XQ1A-3	W28-XQ1A-7	W28-XQ1A-15		
W28-XQ1A-0.75	W28-XQ1A-4	W28-XQ1A-8	W28-XQ1A-20		
W28-XQ1A-1	W28-XQ1A-5	W28-XQ1A-10	W28-XT1A-10		

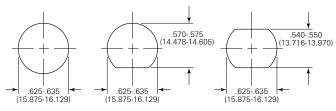
Outline Dimensions

Push-to-Reset Type



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

Recommended Panel Cutouts



 Soldering to terminals is not recommended.
Recommended Panel Thickness: Style Q: Note:

2. Recommended Panel Thickness: Style Q: .032" - .062" (.813 mm - 1.574 mm) Style T: .075" - .105" (1.905 mm - 2.667 mm) 3. Internal tooth push-on washer available for panel thickness not covered above. Part No. 55-025B.

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

Specifications and availability subject to change.