

W28 series

Push to Reset Fuseholder-Type Thermal Circuit Breaker

FL (1) (2) (3) (4) (4) (4)





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

Features

- Approved to many international standards.
- Replaces slow blow glass cartridge fuse.
- · Labor-saving snap-in mounting.
- Button extends for visual trip indication.

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. 10 to 60

seconds for 3 through 20 amp models.

Agency Approvals

W28 series is UL 1077 Recognized as Supplementary Protectors, File E69543, and CSA Certified as 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 and provides 8mm isolation. 16 amp and 20 amp models do not have VDE, DEMKO and SEV approvals at present.

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.

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

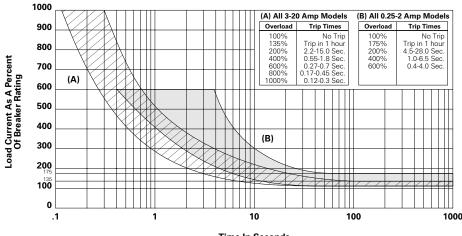
Operating Temperature Range: -20°C to +60°C.

Termination: .250" (6.35mm) quick connects. Soldering to terminals is not recommended.

Mounting: Snaps into panel from front. See Recommended Panel Cutouts.

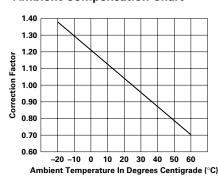
Approximate Weight: 0.35 oz. (10g).

Time vs. Current Trip Curve @ +25°C



Time In Seconds

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.



Ordering Information



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) thick panel. T = .250'' (6.35mm) Quick Connect will mount in .075''-.105'' (1.905mm - 2.667mm) thick panel. For panel thicknesses other than above, order "Q" type and 55-025B Internal Tooth Push-On Lockwasher.

5. Bezel Color:

1 = Black with White Rate Marking

11 = Black with No Rate Marking

2 = Red with Black Rate Marking

21 = Red with No Rate Marking

B = Black with White "Reset" Marked On Bezel (No Rate Marking)

Consult factory for other bezel colors.

6. Button Color:

A = Black

B = Red

Consult factory for other button colors

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0.25	1	4	7	10	13	16	
0.50	2	5	8	11	14	20*	
0.75	3	6	9	12	15		* Contact factor

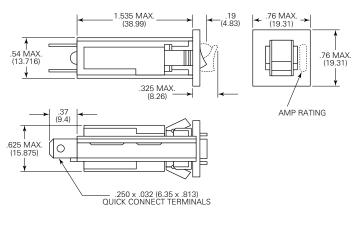
* Contact factory for availability.

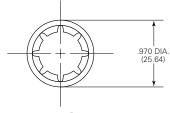
Stock Items - We recommend that our authorized distributors stock the following items for immediate delivery.

W28-XQ1A-0.25 W28-XQ1A-2 W28-XQ1A-6 W28-XQ1A-12 W28-XQ1A-3 W28-XQ1A-7 W28-XQ1A-15 W28-XQ1A-15

W28-XQ1A-0.50 W28-XQ1A-15 W28-XQ1A-16 W28-XQ1A-16 W28-XQ1A-20 W28-XQ1A-1 W28-XQ1A-10 W28-XQ1A-10 W28-XQ1A-10

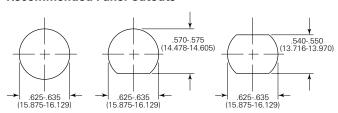
Outline Dimensions





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

Recommended Panel Cutouts



lote: 1. Soldering to terminals is not recommended.

2. 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.

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