

#### **Features**

- 0.5 amp to 30 amp ratings.
- Cannot be manually tripped.
- Button extends for visual trip indication.
- Push button to reset breaker.
- Termination is screw or .250" QC.
- Bottom marked amperage rating optionally available.

#### **Agency Approvals**

W58 Series is UL 1077 Recognized as Supplementary Protectors, File E69543 and meets Ignition Protection requirements in accordance with UL 1500. W58 Series is also CSA Accepted as Supplementary Protectors (Appliance Component Protectors), File LR15734.

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: Breaker will continuously carry 100% of rated load. It may trip

between 101% and 145% of rated load, but must trip at

145% at 25°C.

**Dielectric Strength:** Over 1,500 volts RMS. **Maximum Operating Voltages:** 50VDC; 250VAC.

Interrupt Capacity: 2,000 amps at 50VDC (0.5 - 30 amp models).

1,000 amps at 250VAC (0.5 - 30 amp models).

Note: 30 amp model not UL or CSA.

Resettable Overload Capacity: Ten times rated current.

# W58 series

# P&B Push To Reset Only Thermal Circuit Breaker

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

Current Rating in Amps	Maximum Resistance in Ohms	Current Rating in Amps	Maximum Resistance in Ohms
0.5	5.0	8	0.020
1	1.35	9	0.020
2	0.32	10	0.014
3	0.18	12	0.010
4	0.10	15	0.010
5	0.026	20	0.005
6	0.026	25	0.006
7	0.020	30*	0.004

<sup>\*</sup>No UL/CSA

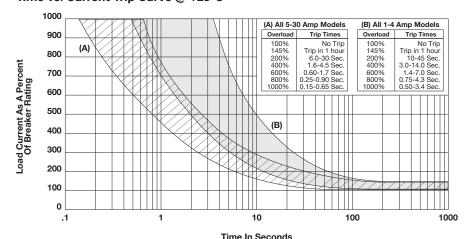
#### Mechanical/Environmental Data

Shock: Withstands to 10g.

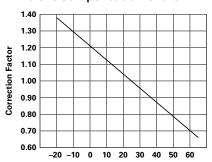
Endurance Cycling: Over 1,000 cycles at 200% of rated load.

**Vibration:** Withstands to 10g at 10-55 Hz. **Weight:** Less than 1 1/2 oz. (42.5g).

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



#### **Ambient Compensation Chart**

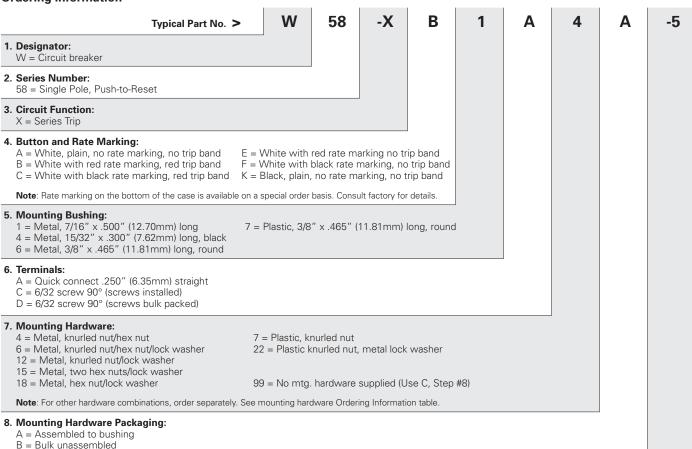


Ambient Temperature In Degrees Centigrade (°C)

**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.



#### **Ordering Information**



Stock Items - Authorized distributors are more likely to stock the following items.

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W58-XB1A4A-1	W58-XB1A4A-6	W58-XB1A4A-15	W58-XC4C12A-2	W58-XC4C12A-15
W58-XB1A4A-2	W58-XB1A4A-7	W58-XB1A4A-20	W58-XC4C12A-3	W58-XC4C12A-20
W58-XB1A4A-3	W58-XB1A4A-8	W58-XB1A4A-25	W58-XC4C12A-5	W58-XC4C12A-25
W58-XB1A4A-4	W58-XB1A4A-10	W58-XB1A4A-30	W58-XC4C12A-7	W58-XC4C12A-30
W58-XB1A4A-5	W58-XB1A4A-12	W58-XC4C12A-1	W58-XC4C12A-10	

30\*

\*Not UL or CSA

#### **Outline Dimensions**

C = No mounting hardware

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9. Specify Amp Rating:

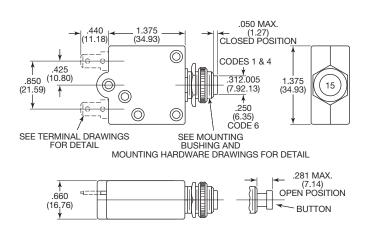
3

4

5

0.5

2

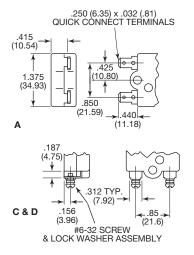


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## Terminal Options





**Hex Nut** 

#### **Mounting Hardware**

B

ALTERNATE TEETH TWISTED IN OPPOSITE DIRECTIONS Samorare STRAIGHT KNURL 24 PITCH Town or the second В

Lockwasher

В

**Knurled Nut** 

#### **Mounting Hardware Dimensions**

	Dimension	Metal Hex Nut	Metal Knurled Nut	Plastic Knurled Nut	Metal Lockwasher
	3/8"	.556 (14.12)	.562 (14.27)	.74 (18.8)	.562 (14.27)
A.	7/16"	.625 (15.88)	.625 (15.88)	-	.540 (13.72)
	15/32"	.556 (14.12)	.625 (15.88)	-	.600 (15.24)
	3/8"	.085 (2.16)	.078 (1.98)	.126 (3.2)	.018 (.457)
B.	7/16"	.111 (2.82)	.125 (3.18)	_	.022 (.559)
	15/32"	.078 (1.98)	.125 (3.18)	-	.018 (.457)

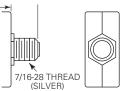
#### **Mounting Hardware Ordering Information**

Mounting Bushing Code	Metal Knurled Nut	Plastic Knurled Nut	Metal Hex Nut	Metal Lock Washer
1	55-010A	-	55-011A	88-021B
4	•	_	55-001B	88-002A
6	55-008A	_	55-001D	88-006K
7	55-008A	1423696-2	55-001D	88-006K

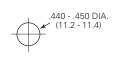
• 55-010B (silver) 55-010E (black)

#### Mounting Bushing

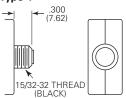
Type 1



#### Recommended Cutout

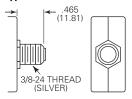


#### Type 4



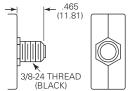


#### Type 6





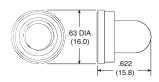
#### Type 7





#### **Optional Protective Boot**

Silicone rubber boot is bonded to integral alumimum nut.



#### 1-1423696-5

Black boot for W58 with 3/8"-24 bushing.

#### **Optional Bottom Marking of Rating**

This is available on a special order basis. Consult factory for details.



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# **Mouser Electronics**

**Authorized Distributor** 

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## TE Connectivity:

W58-XB1A4A-25 W58-XB1A4A-20 W58-XC4C12A-10 W58-XC4C12A-20 W58-XC4C12A-15 W58-XC4C12A-25 W58-XC4C12A-30 W58-XC4C12A-7 W58-XC4C12A-3 W58-XC4C12A-2 W58-XC4C12A-1 W58-XC4C12A-5 W58-XB1A4A-30 W58-XB1A4A-12 W58-XB1A4A-10 W58-XB1A4A-15 W58-XB1A4A-4 W58-XB1A4A-3 W58-XB1A4A-8 W58-XB1A4A-7 W58-XB1A4A-5 W58-XB1A4A-1 W58-XB1A4A-2 W58-XB1A4A-6 W58-XC1C4A-10 W58-XC1C4A-15 W58-XC1C4A-20 W58-XC1C4A-5 W58-XB1A4A-3.5 W58-XC1A4A-16 W58-XB1A6A-20 W58-XC4C12A-4 W58-XB1A6B-15 W58-XC1C18A-20 W58-XB1A4A-1.50 W58-XD1A4A-6 W58-XC1A4A-15 W58-XC4C12A-8 W58-XB1A6A-4 W58-X1101-2.5 W58-XB1A4A-18 6-1423695-0 4-1423695-9 W58-XB1C4A-25