

W58-XC4C12A-10 Product Details

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W58-XC4C12A-10

TE Internal Number: 4-1393249-0

 **Active**

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Thermal Circuit Breakers

 **Converted to EU RoHS but not ELV
Compliant (Statement of Compliance)**

Product Highlights:

- Circuit Breaker
- W58 Series
- 1 Poles
- Actuator Style = Push to Reset
- Current Rating = 10 A

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Documentation & Additional Information

Product Drawings:

- None Available

Catalog Pages/Data Sheets:

- [W58 Push To Reset Only Thermal Circuit Breaker](#) (PDF, English)
- [Flyer - UL1500 Ignition Protected Circuit Breakers](#) (PDF, English)

Product Specifications:

- None Available

Application Specifications:

- None Available

Instruction Sheets:

- None Available

CAD Files: (CAD Format & Compression Information)

- [2D Drawing](#) (DXF, Version J)
- [3D Model](#) (IGES, Version J)
- [3D Model](#) (STEP, Version J)

[List all Documents](#)

Additional Information:

- [Product Line Information](#)

Related Products:

- [Tooling](#)

Product Features (Please use the Product Drawing for all design activity)

Product Type Features:

- Product Type = Circuit Breaker
- Actuator Style = Push to Reset

Mechanical Attachment:

- [Mounting Options](#) = Knurled Nut/Lockwasher
- [Mounting Bushing](#) = 15/32" x .300" [7.62 mm] Long, Black

Electrical Characteristics:

- [Current Rating \(A\)](#) = 10
- [Operating Voltage, Max.](#) = 250 VAC
- [Interrupt Capacity](#) = 2,000 A @ 50 VDC or 1,000 A @ 250 VAC

Termination Features:

- [Termination Type](#) = 6-32 Screws 90° (Screws Installed)

Contact Features:

- [Number of Poles](#) = 1
- [Trip Time at 200%](#) = 6 to 30 Seconds

Configuration Features:

- [Circuit Function](#) = Series Trip

Industry Standards:

- [RoHS/ELV Compliance](#) = RoHS/Not ELV Compliant
- [Lead Free Solder Processes](#) = Not relevant for lead free process
- RoHS/ELV Compliance History = Converted to comply with RoHS not ELV directives
- Approved Standards = CSA Certified

Packaging Features:

- [Mounting Hardware Packaging](#) = Assembled to Bushing

Body Features:

- [Button Color](#) = White with Black Rate Marking, Red Trip Band

Other:

- [Series](#) = W58
- Brand = Potter & Brumfield

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W58 series

P&B Push To Reset Only Thermal Circuit Breaker



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.

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

*No UL/CSA

Mechanical/Environmental Data

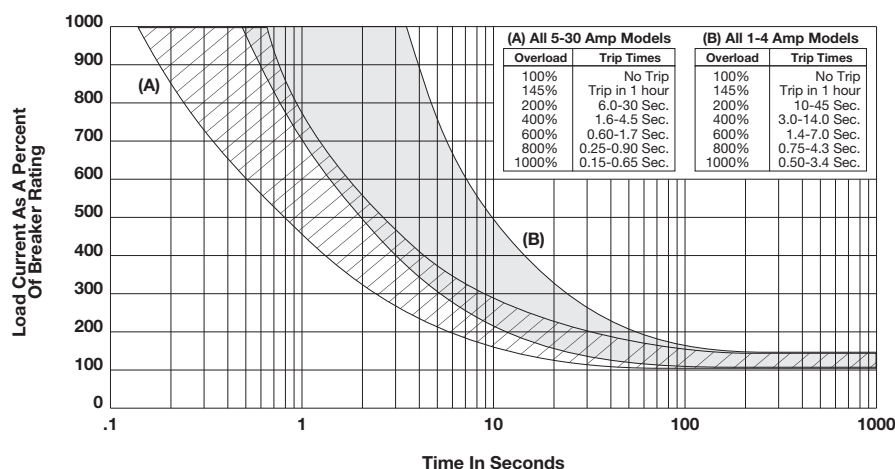
Shock: Withstands to 10g.

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

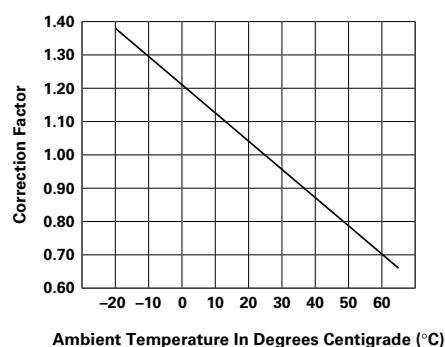
Vibration: Withstands to 10g at 10-55 Hz.

Weight: Less than 1 1/2 oz. (42.5g).

Time vs. Current Trip Curve @ +25°C



Ambient Compensation Chart



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.

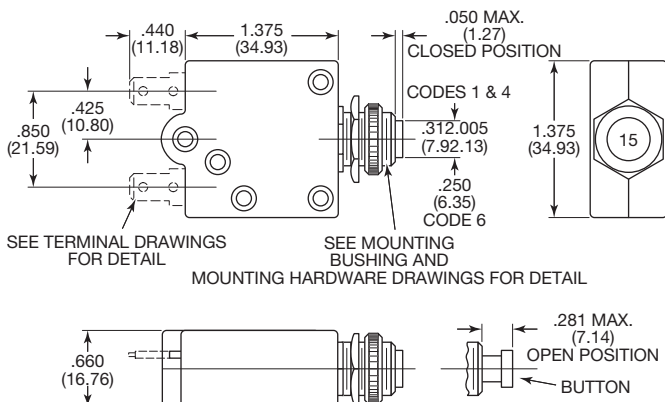
Ordering Information

Typical Part No. >	W	58	-X	B	1	A	4	A	-5																		
1. Designator: W = Circuit breaker																											
2. Series Number: 58 = Single Pole, Push-to-Reset																											
3. Circuit Function: X = Series Trip																											
4. Button and Rate Marking: A = White, plain, no rate marking, no trip band E = White with red rate marking no trip band B = White with red rate marking, red trip band F = White with black rate marking, no trip band C = White with black rate marking, red trip band K = Black, plain, no rate marking, no trip band Note: Rate marking on the bottom of the case is available on a special order basis. Consult factory for details.																											
5. Mounting Bushing: 1 = Metal, 7/16" x .500" (12.70mm) long 7 = Plastic, 3/8" x .465" (11.81mm) long, round 4 = Metal, 15/32" x .300" (7.62mm) long, black 6 = Metal, 3/8" x .465" (11.81mm) long, round																											
6. Terminals: A = Quick connect .250" (6.35mm) straight C = 6/32 screw 90° (screws installed) D = 6/32 screw 90° (screws bulk packed)																											
7. Mounting Hardware: 4 = Metal, knurled nut/hex nut 7 = Plastic, knurled nut 6 = Metal, knurled nut/hex nut/lock washer 22 = Plastic knurled nut, metal lock washer 12 = Metal, knurled nut/lock washer 15 = Metal, two hex nuts/lock washer 18 = Metal, hex nut/lock washer 99 = No mtg. hardware supplied (Use C, Step #8) Note: For other hardware combinations, order separately. See mounting hardware Ordering Information table.																											
8. Mounting Hardware Packaging: A = Assembled to bushing B = Bulk unassembled C = No mounting hardware																											
9. Specify Amp Rating: <table border="0"> <tr> <td>0.5</td> <td>3</td> <td>6</td> <td>9</td> <td>15</td> <td>30*</td> </tr> <tr> <td>1</td> <td>4</td> <td>7</td> <td>10</td> <td>20</td> <td></td> </tr> <tr> <td>2</td> <td>5</td> <td>8</td> <td>12</td> <td>25</td> <td></td> </tr> </table> <p style="text-align: right;">*Not UL or CSA</p>										0.5	3	6	9	15	30*	1	4	7	10	20		2	5	8	12	25	
0.5	3	6	9	15	30*																						
1	4	7	10	20																							
2	5	8	12	25																							

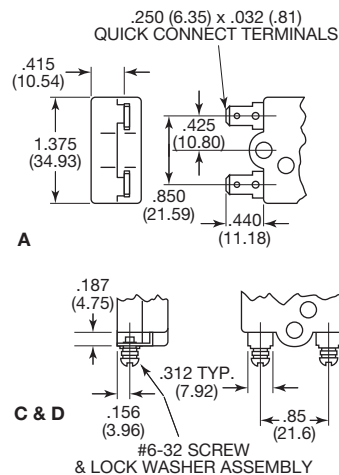
Stock Items – Authorized distributors are more likely to stock the following items.

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	

Outline Dimensions

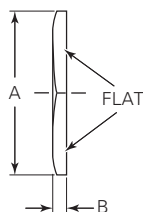


Terminal Options

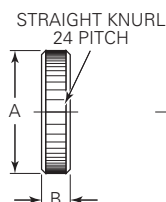


Mounting Hardware

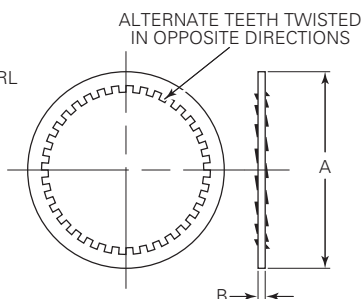
Hex Nut



Knurled Nut



Lockwasher



Mounting Hardware Dimensions

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

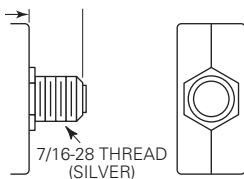
Mounting Hardware Ordering Information

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

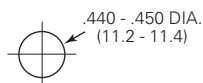
• 55-010B (silver) 55-010E (black)

Mounting Bushing

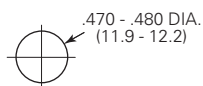
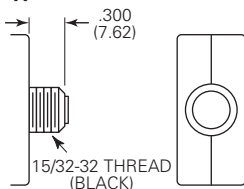
Type 1



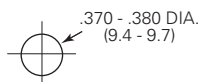
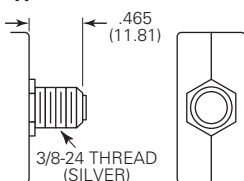
Recommended Cutout



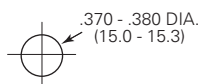
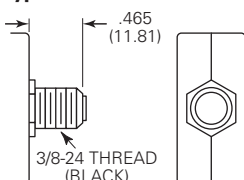
Type 4



Type 6

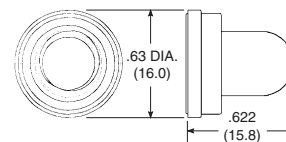


Type 7



Optional Protective Boot

Silicone rubber boot is bonded to integral aluminum 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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