



W57 series

Compact, Push To Reset Only P&B Thermal Circuit Breaker



Features

- New, compact design.
- 3 to 20 amp ratings.
- Cannot be manually tripped.
- Button extends for visual trip indication.
- Push button to reset breaker.
- Numerous mounting and termination options.
- Optional bottom marking of amperage rating.

Agency Approvals

W57 series is UL1077 Recognized as Supplementary Protectors, File E69543, for Canada and the United States. Available models meet Ignition Protection requirements in accordance with UL1500. Approved to VDE 0642/EN60934 (Circuit Breakers for Equipment) License Number 40007874 (excludes models rated 3-4A and >15A). CCC mark compliant, certificate 2004010307123217.

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.

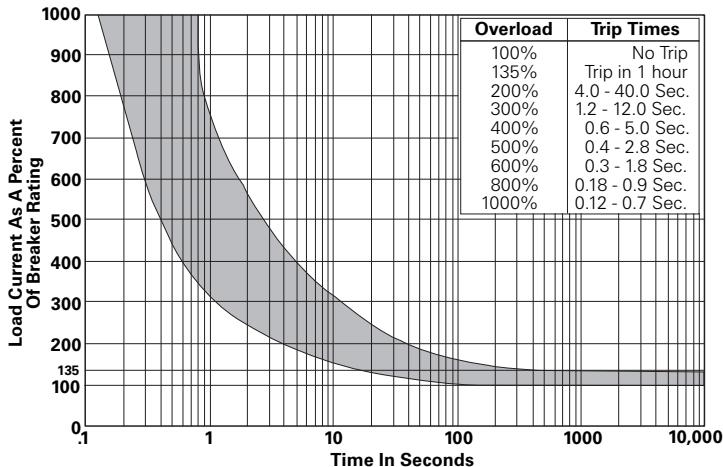
Electrical Data @ 25°C

Calibration: Will continuously carry 100% of rating.

May trip between 101% and 134%, but must trip at 135% of rating within one hour at +25°C.

Dielectric Strength: 1,500VAC (60 seconds).

Time vs. Current Trip Curve @ +25°C



Ambient Compensation Table

Ambient Temperature in °C	Rating Correction Factor	
	3-4A Models	5-20A Models
-10	.70	.77
0	.75	.85
10	.82	.90
20	.90	.95
25	1.00	1.00
30	1.10	1.05
40	1.25	1.15
50	1.61	1.25
60	2.15	1.40

To use this chart: Divide 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.

Compact, Push To Reset Only P&B Thermal Circuit Breaker

Insulation Resistance: 100 megohms.

Maximum Operating Voltages: 50VDC; 250VAC, 50/60 Hz.

Interrupt Capacity: 1,000 amps in accordance with UL standard 1077.

Resettable Overload Capacity: Ten times rated current.

Reset Time: 60 seconds.

Typical Resistance vs. Current Rating @ +25°C

Current Rating in Amps	Typical Resistance in Ohms	Current Rating in Amps	Typical Resistance in Ohms
3.0	0.083	8.0	0.031
4.0	0.062	10.0	0.025
5.0	0.050	12.0	0.021
6.0	0.042	15.0	0.017
7.0	0.036	20.0	0.012

Mechanical/Environmental Data

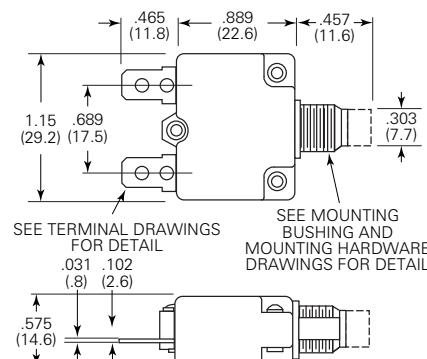
Operating Temperature Range: 0°C to +60°C.

Termination: .250" (6.35mm) quick connects.

Mounting: Various options. See Ordering Information and drawings.

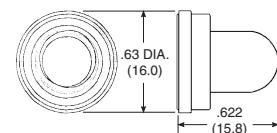
Approximate Weight: 0.5 oz. (14.3g).

Outline Dimensions



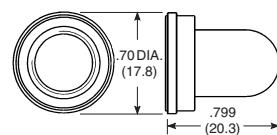
Optional Protective Boot

Silicone rubber boot is bonded to integral aluminum nut.



1-1423696-5

Black boot for W57 with 3/8"-24 bushing.



1-1423696-6

Clear boot for W57 with M11 X 1.0 bushing.

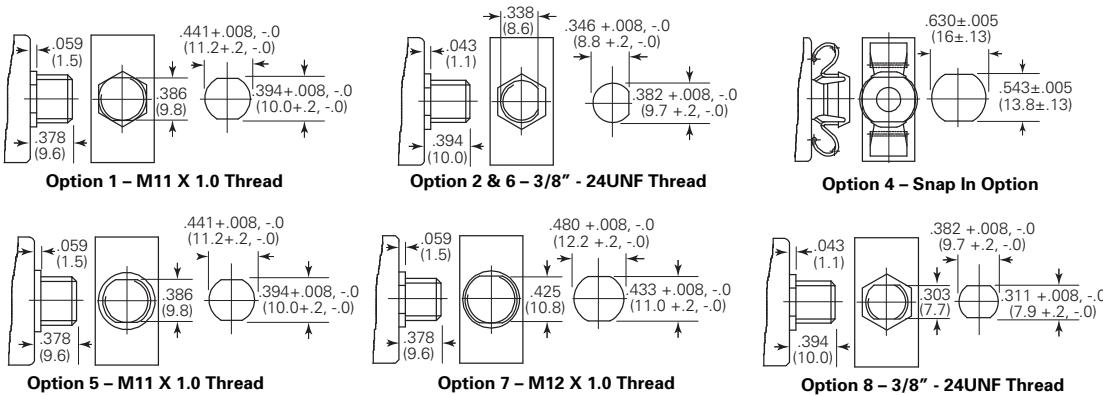
Ordering Information

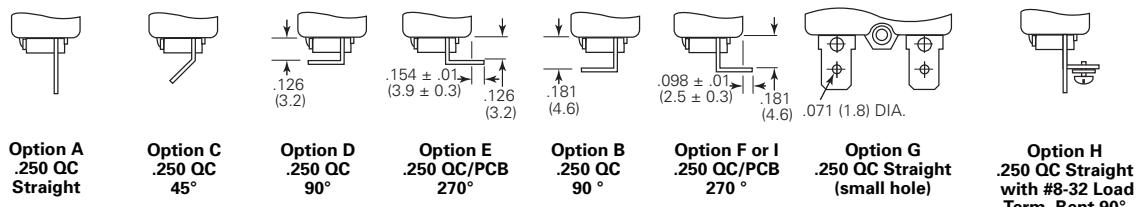
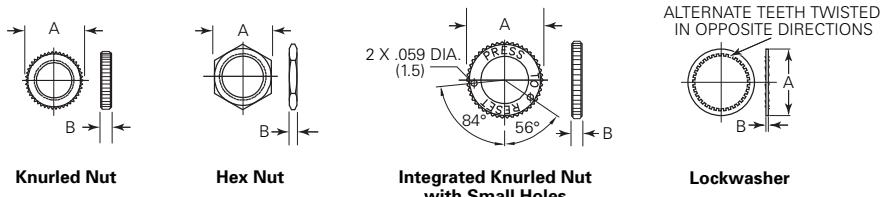
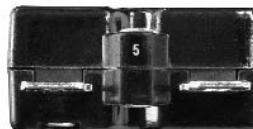
Our authorized distributors are more likely to stock the following items for immediate delivery.

W57-XB1A4A10-5 W57-XB1A4A10-15 W57-XB1A5A10-5 W57-XB1A5A10-15
W57-XB1A4A10-10 W57-XB1A4A10-20 W57-XB1A5A10-10 W57-XB1A5A10-20

ORDERING NOTE: Mounting hardware can be ordered separately. Some options are subject to extended leadtimes and significant minimum order quantities.

Mounting Bushings and Recommended Panel Cutouts

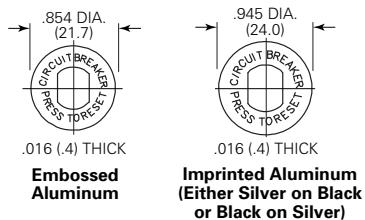


Termination Options

Mounting Hardware Options

Optional Bottom Marking of Rating

Mounting Hardware Dimensions

Dimension Code	Bushing Diameter	Plastic Knurled Nut	Integrated Plastic Knurled Nut w/Holes	Metal Knurled Nut	Metal Hex Nut	Lockwasher
A	3/8"	.74 (18.8)	—	.56 (14.2)	.55 (14.0)	.49 (12.5)
	M11	.74 (18.8)	.74 (18.8)	.59 (15.0)	.55 (14.0)	.587 (14.9)
	M12	—	—	.59 (15.0)	.55 (14.0)	.626 (15.9)
B	3/8"	.126 (3.2)	—	.079 (2.0)	.079 (2.0)	.02 (.5)
	M11	.126 (3.2)	.13 (3.3)	.102 (2.6)	.118 (3.0)	.02 (.5)
	M12	—	—	.102 (2.6)	.079 (2.0)	.02 (.5)

Mounting Hardware Ordering Information

Mounting Bushing Material	Mounting Bushing Code	Plastic Knurled Nut	Integrated Plastic Knurled Nut w/Holes	Metal Knurled Nut	Metal Hex Nut	Lockwasher
Plastic	1 (M11)	—	1423696-8	2-1423696-2	—	—
	2 (3/8")	—	1423696-2	—	—	—
Metal	5 (M11)	—	—	1423696-4	1423696-6	1-1423696-2
	6 (3/8")	—	—	1-1423696-0	1423696-3	1-1423696-1
	7 (M12)	—	—	1423696-5	1423696-7	1-1423696-3
	8 (3/8")	—	—	1-1423696-0	1423696-3	1-1423696-1

Nameplates


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Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

TE Connectivity:

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