



#### **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/labora-tories 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).

## W57 series

## 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	Typical	Current	Typical
Rating	Resistance	Rating	Resistance
in Amps	in Ohms	in Amps	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

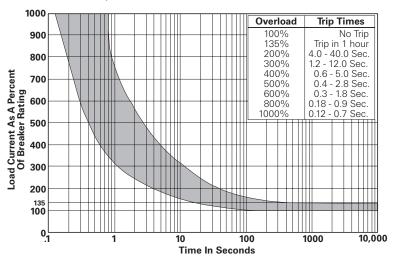
## Mechanical/Environmental Data

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).

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



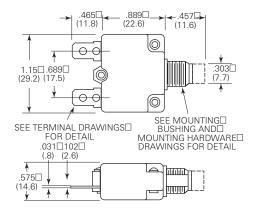
#### **Ambient Compensation Table**

Ambient Temperature	Rating Correction Factor		
in °C	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.

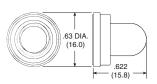
Do not use these devices outside their specified operating temperature

#### **Outline Dimensions**

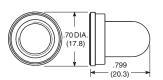


## **Optional Protective Boot**

Silicone rubber boot is bonded to integral alumimum nut.

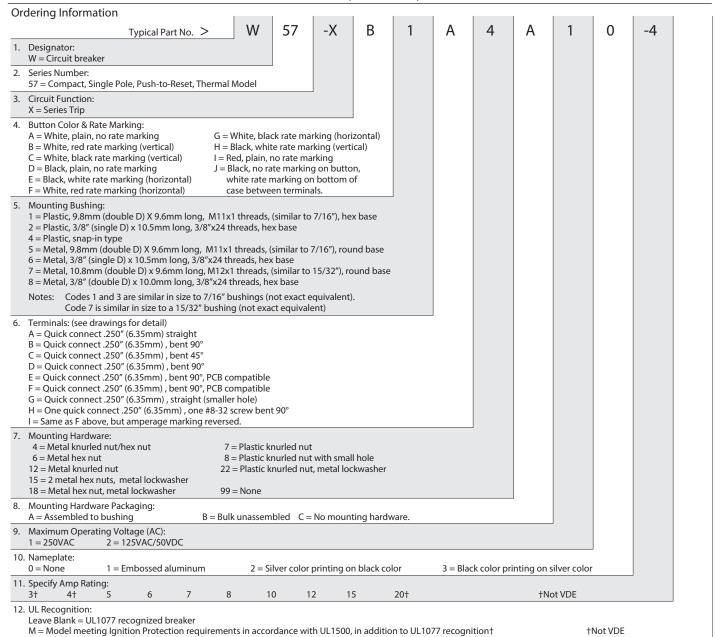


1-1423696-5 Black boot for W57 with 3/8"-24 bushing.



1-1423696-6 Clear boot for W57 with M11 X 1.0 bushing.



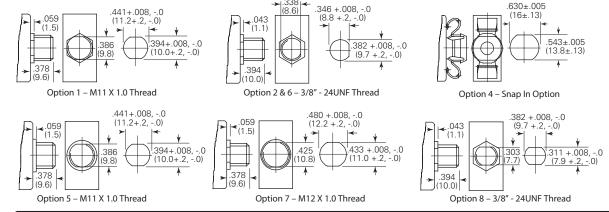


Our authorized distributors are more likely to stock the following items for immediate delivery.

W57-XB1A4A10-5 W57-XB1A4A10-15 W57-XB1A7A10-5 W57-XB1A7A10-15 W57-XB1A4A10-10 W57-XB1A4A10-20 W57-XB1A7A10-10 W57-XB1A7A10-20

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**

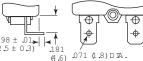














Option A .250 QC Straight

Option C .250 QC 45°

Option D .250 QC 90°

Option E .250 QC/PCB 270°

(4.6) Option B .250 QC 90°

Option F or I .250 QC/PCB 270°

Option G .250 QC Straight (small hole)

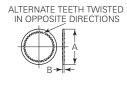
Option H .250 QC Straight with #8-32 Load Term. Bent 90°

## **Mounting Hardware Options**



A B

2 X .059 DIA. (1.5)





**Optional Bottom Marking of Rating** 

Knurled Nut

Hex Nut

Integrated Knurled Nut with Small Holes

Lockwasher

## **Mounting Hardware Dimensions**

Dimension Code	Bushing Diameter	Plastic Knurled Nut	Integrated Plastic Knurled Nut w/Holes	Metal Knurled Nut	Metal Hex Nut	Lockwasher
Α	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)
В	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



Embossed Aluminum



.016 (.4) THICK

Imprinted Aluminum (Either Silver on Black or Black on Silver)

# **Mouser Electronics**

**Authorized Distributor** 

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

TE Connectivity: W57-XB7A4A10-5