



#### **Features**

- 5 to 40 amp ratings.
- · Cannot be manually tripped.
- Button extends for visual trip indication.
- Push button to reset breaker.
- Numerous mounting and termination options.
- Choice of silver-cadmium oxide or silver-tin oxide contacts.
- · Optional bottom marking of amperage rating.

#### **Agency Approvals**

W54 series is UL 1077 Recognized as Supplementary Protectors, File E69543, for Canada and the United States. Available models meet Ignition Protection requirements in accordance with UL 1500 (excludes models rated >30A). CSA Accepted as Supplementary Protectors (Appliance Component Protectors), File 240027 (to 125VAC, excludes models rated >30A). Approved to VDE 0642/EN60934 (Circuit Breakers for Equipment) License Number 40007877 (excludes models rated >20A, models with screw terminals, models with silver-tin oxide contacts). 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.

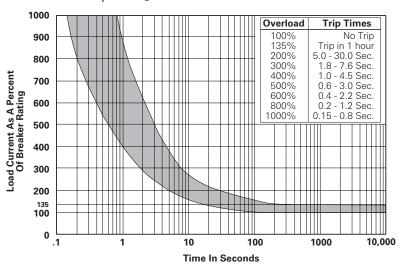
#### Electrical Data @ 25°C

Calibration: Will continuously carry 100% of rating.

May trip between 101% and 134%, but must trip at 135% of rating within one hour at  $+25^{\circ}$ C.

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

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



#### **Ambient Compensation Table**

Ambient Temperature	Rating Correction Factor		
in °C	5-8A Models	9-30A Models	
10	.90	.80	
20	.98	.90	
25	1.00	1.00	
30	1.10	1.05	
40	1.25	1.15	
50	1.61	1.31	
60	2.00	1.55	

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.

# W54 series

#### Push To Reset Only P&B Thermal Circuit Breaker









Insulation Resistance: 100 megohms.

Maximum Operating Voltages: 50VDC; 250VAC.

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
5.0	0.050	15.0	0.017
6.0	0.042	20.0	0.012
7.0	0.036	25.0	0.010
8.0	0.031	30.0	0.008
10.0	0.025	35.0	0.007
12.0	0.021	40.0	0.006

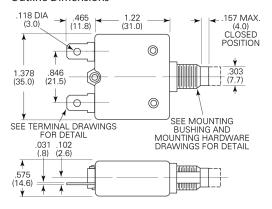
#### Mechanical/Environmental Data

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

Termination: .250" (6.35mm) quick connects or #8-32 screws. Mounting: Various options. See Ordering Information and drawings.

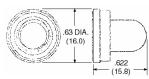
Approximate Weight: 0.9 oz. (25.0g).

#### **Outline Dimensions**

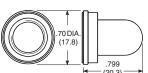


#### Optional Protective Boot

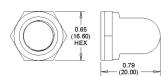
Silicone rubber boot is bonded to integral metal nut.



1-1423696-5 Black boot for W54 with 3/8"-24 bushing.



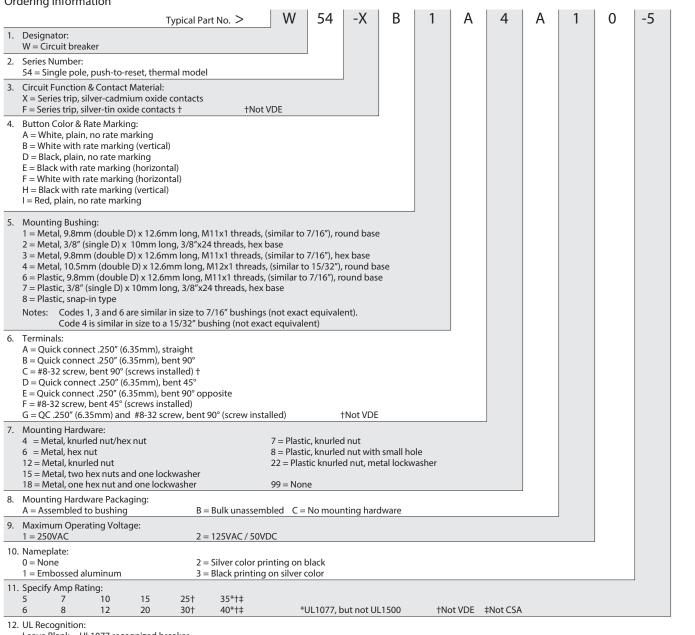
1-1423696-6 Clear boot for W54 with M11 X 1.0 bushing.



1-1423000-1 Clear boot for W54 with M11 X 1.0 bushing.



#### Ordering Information



Leave Blank = UL1077 recognized breaker

 $M = Model\ meeting\ Ignition\ Protection\ requirements\ in\ accordance\ with\ UL\ 1500,\ in\ addition\ to\ UL\ 1077\ recognition\ (not\ available\ with\ models\ > 30A\ rating.)$ Code M breakers are not VDE approved or CSA certified.

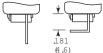
Our authorized distributors are more likely to stock the following items for immediate delivery.

W54-XB1A4A10-5 W54-XB1A4A10-15 W54-XB1A4A10-25 W54-XB1A4A10-10 W54-XB1A4A10-20 W54-XB1A4A10-30

#### ORDERING NOTE:

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

### **Termination Options**











PCB





Option A Standard .250 QC Straight

909

Option C #8-32 Screw 90

Option D Special .250 QC

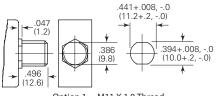
Option E .250 OC/

Option F #8-32 Screw 45°

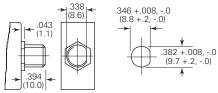
Option H .250 QC Straight with #8-32 Load Term. Bent 90°



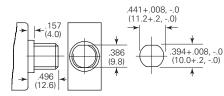
#### Mounting Bushings and Recommended Panel Cutouts



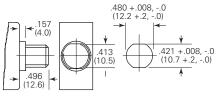
Option 1 - M11 X 1.0 Thread



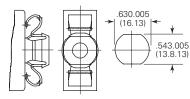
Option 2 & 7 - 3/8" - 24UNF Thread



Option 3 & 6 - M11 X 1.0 Thread



Option 4 - M12 X 1.0 Thread

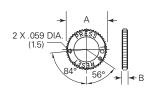


Option 8 - Snap In

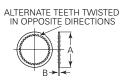
**Mounting Hardware Options** 



Knurled Nut Hex Nut



Integrated Knurled Nut with Small Holes



Lockwasher

# **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)
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
Metal	1 (M11)	_	_	6-1423730-3	6-1423730-7	1-1423696-2
	2 (3/8")	_	-	6-1423730-4	6-1423730-6	1-1423696-1
	3 (M11)	-	-	6-1423730-3	6-1423730-7	1-1423696-2
	4 (M12)	_	_	6-1423730-5	6-1423730-8	1-1423696-3
Plastic	6 (M11)	1423696-8	2-1423696-2	-	_	-
	8 (3/8")	1423696-2	-	_	-	_

#### **Nameplates**



**Embossed** Aluminum



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

#### Disclaimer

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