



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°C

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

W54 series

Push To Reset Only P&B Thermal Circuit Breaker

r.**PL**°us







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

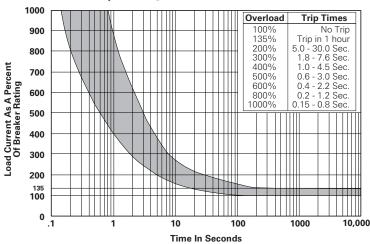
Mechanical/Environmental Data

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).

Time vs. Current Trip Curve @ +25°C



Ambient Compensation Table

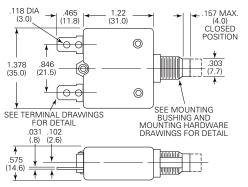
Ambient Temperature	Rating Correction Factor		
in °C	5-8A Models	9-30A Models	
10	.90	.80	
20	.98	.90	
25	1.00	1.00	
30	1.10	1.05	
40	1.25	1.15	
50	1.61	1.31	
60	2 00	1.55	

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

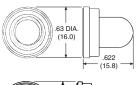
ranges

Outline Dimensions



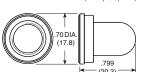
Optional Protective Boot

Silicone rubber boot is bonded to integral alumimum nut.



1-1423696-5

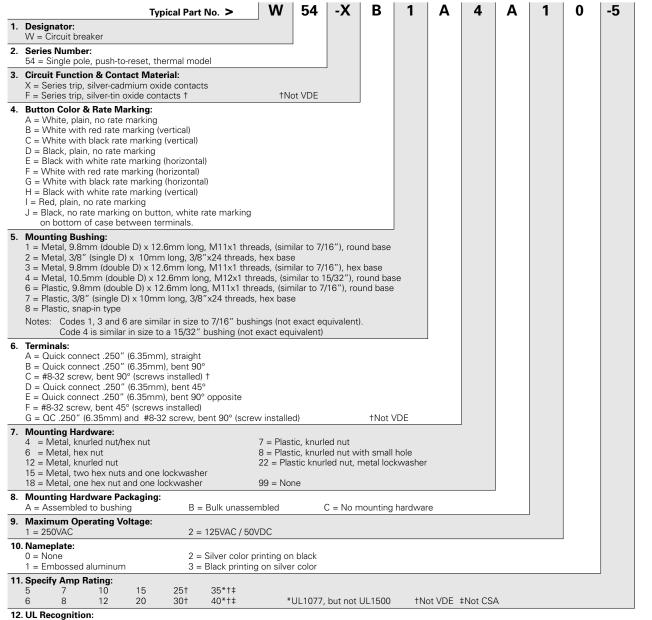
Black boot for W54 with 3/8"-24 bushing.



1-1423696-6

Clear boot for W54 with M11 X 1.0 bushing.

Ordering Information



Leave Blank = UL1077 recognized breaker

M = Model meeting Ignition Protection requirements in accordance with UL 1500, in addition to UL1077 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-XB1A4A10-20 W54-XB1A4A10-30

ORDERING NOTE:

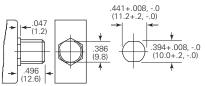
Mounting hardware can be ordered separately. Some options are subject to extended leadtimes and significant minimum order quantities.

Termination Options

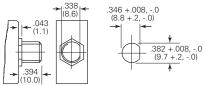


Option H .250 QC Straight Option C Option A Option B Option D Option E Option F Standard .250 QC #8-32 Screw Special .250 #8-32 Screw QC/PCB with #8-32 Load .250 QC 90 90 45 .250 QC Straight 270° Term. Bent 90°

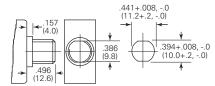
Mounting Bushings and Recommended Panel Cutouts



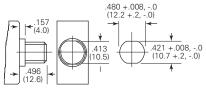
Option 1 - M11 X 1.0 Thread



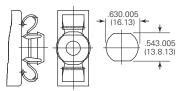
Option 2 & 7 - 3/8" - 24UNF Thread



Option 3 & 6 - M11 X 1.0 Thread



Option 4 - M12 X 1.0 Thread

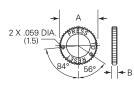


Option 8 - Snap In

Mounting Hardware Options



A B-



ALTERNATE TEETH TWISTED IN OPPOSITE DIRECTIONS



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
А	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)	_	-	1423696-4	1423696-6	1-1423696-2
	2 (3/8")	-	-	1-1423696-0	1423696-3	1-1423696-1
	3 (M11)	_	-	1423696-4	1423696-6	1-1423696-2
	4 (M12)	-	-	1423696-5	1423696-7	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)

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Mouser Electronics

Authorized Distributor

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

TE Connectivity: W54-XB1A4A10-20