



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

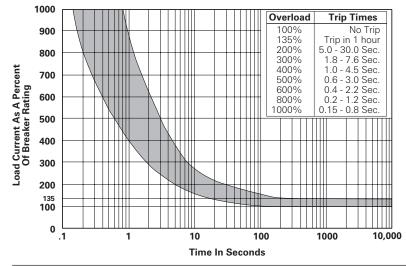
W54 series is UL 1077 Recognized as Supplementary Protectors, File E69543, for Canada and the United States. Available models meet Ignition Protection requirements in accordance with UL 1500 (excludes models rated >30Å). CSA Accepted as Supplementary Protectors (Appliance Component Protectors), File 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).





Ambient Compensation Table

Ambient	Rating Correction Factor					
Temperature						
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.

Revised 01-21 www.te.com

Dimensionsareininchesover (millimeters)unlessotherwise specified.

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

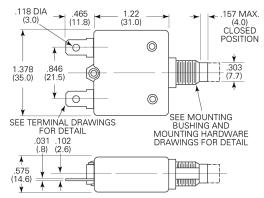
Current	Typical	Current	Typical
Rating	Resistance	Rating	Resistance
in Amps	in Ohms	in Amps	in Ohms
5.0	0.050	15.0	0.017
6.0	0.042	20.0	0.012
7.0	0.036	25.0	0.010
8.0	0.031	30.0	0.008
10.0	0.025	35.0	0.007
12.0	0.021	40.0	0.006

Mechanical/Environmental Data

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

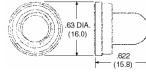
Termination: .250" (6.35mm) guick connects or #8-32 screws. Mounting: Various options. See Ordering Information and drawings. Approximate Weight: 0.9 oz. (25.0g).

Outline Dimensions

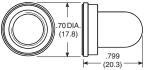


Optional Protective Boot

Silicone rubber boot is bonded to integral metal nut.



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



0.65 (16.60) HEX

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.

SouthAmerica:55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 1 UK: 44-8706-080208



Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803

0.79 (20.00)

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Ordering Information		•	4	•	1		
Typical Part No. > W 54 -X	B 1	A	4	A	1	0	-5
2. Series Number: 54 = Single pole, push-to-reset, thermal model							
3. Circuit Function & Contact Material: X = Series trip, silver-cadmium oxide contacts F = Series trip, silver-tin oxide contacts † †Not VDE							
 Button Color & Rate Marking: A = White, plain, no rate marking B = White with rate marking (vertical) D = Black, plain, no rate marking E = Black with rate marking (horizontal) F = White with rate marking (vertical) H = Black with rate marking (vertical) I = Red, plain, no rate marking 							
5. Mounting Bushing: 1 = Metal, 9.8mm (double D) x 12.6mm long, M11x1 threads, (similar to 7/16"), round base 2 = Metal, 3/8" (single D) x 10mm long, 3/8"x24 threads, hex base 3 = Metal, 9.8mm (double D) x 12.6mm long, M11x1 threads, (similar to 7/16"), hex base 4 = Metal, 10.5mm (double D) x 12.6mm long, M12x1 threads, (similar to 15/32"), round base 6 = Plastic, 9.8mm (double D) x 12.6mm long, M11x1 threads, (similar to 7/16"), round base 7 = Plastic, 3/8" (single D) x 10mm long, 3/8"x24 threads, hex base 8 = Plastic, snap-in type							
Notes: Codes 1, 3 and 6 are similar in size to 7/16" bushings (not exact equivalent). Code 4 is similar in size to a 15/32" bushing (not exact equivalent)							
5. Terminals: A = Quick connect .250" (6.35mm), straight B = Quick connect .250" (6.35mm), bent 90° C = #8-32 screw, bent 90° (screws installed) \dagger D = Quick connect .250" (6.35mm), bent 45° E = Quick connect .250" (6.35mm), bent 90° opposite F = #8-32 screw, bent 45° (screws installed) G = QC .250" (6.35mm) and #8-32 screw, bent 90° (screw installed) \dagger Not VDE		_					
7. Mounting Hardware: 7 = Plastic, knurled nut 4 = Metal, knurled nut/hex nut 7 = Plastic, knurled nut 6 = Metal, hex nut 8 = Plastic, knurled nut with sm 12 = Metal, knurled nut 22 = Plastic knurled nut, metal 15 = Metal, two hex nuts and one lockwasher 99 = None							
 Mounting Hardware Packaging: A = Assembled to bushing B = Bulk unassembled C = No mounting hardware 	re			-			
 Maximum Operating Voltage: 1 = 250VAC 2 = 125VAC / 50VDC 							
10. Nameplate: 0 = None 2 = Silver color printing on black 1 = Embossed aluminum 3 = Black printing on silver color						-	
11. Specify Amp Rating: 5 7 10 15 25† 35*†‡ 6 8 12 20 30† 40*†‡ *UL1077, but not UL15(1† 00	Not VDE	‡Not CSA				
 12. UL Recognition: Leave Blank = UL1077 recognized breaker M = Model meeting Ignition Protection requirements in accordance with UL 1500, in addition Code M breakers are not VDE approved or CSA certified. 					h models	>30A rat	ing.)

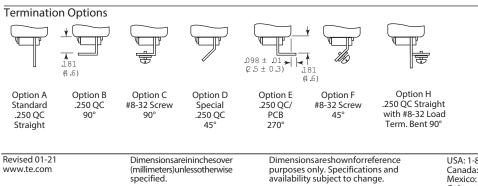
Our authorized distributors are more likely to stock the following items for immediate delivery.

W54-XB1A4A10-5	W54-XB1A4A10-15
W54-XB1A4A10-10	W54-XB1A4A10-20

W54-XB1A4A10-25 W54-XB1A4A10-30

ORDERING NOTE:

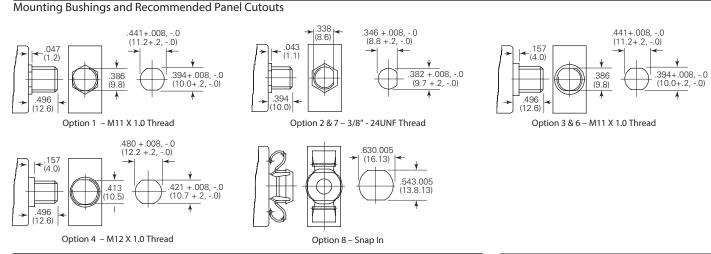
Mounting hardware can be ordered separately. Some options are subject to extended leadtimes and significant minimum order quantities.



USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803

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Mounting Hardware Options



Knurled Nut



Hex Nut





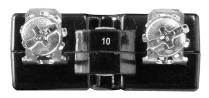
Integrated Knurled Nut with Small Holes

I ← B

Lockwasher

ALTERNATE TEETH TWISTED

Optional Bottom Marking of Rating



Mounting Hardware Dimensions

Dimension Code	Bushing Diameter	Plastic Knurled Nut	Integrated Plastic Knurled Nut w/Holes	Metal Knurled Nut		
	3/8″	.74 (18.8)	-	.56 (14.2)	.55 (14.0)	.49 (12.5)
A	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)
	3/8″	.126 (3.2)	-	.079 (2.0)	.079 (2.0)	.02 (.5)
В	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
	1 (M11)	_	-	6-1423730-3	6-1423730-7	1-1423696-2
Metal	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)

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