



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

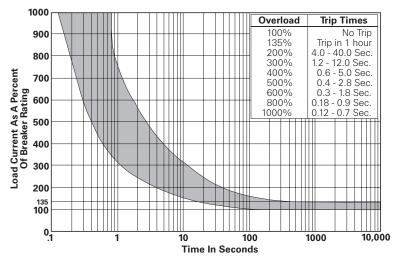
W57 series is UL1077 Recognized as Supplementary Protectors, File E69543, for Canada and the United States. Available models meet Ignition Protection requirements in accordance with UL1500. Approved to VDE 0642/EN60934 (Circuit Breakers for Equipment) License Number 40007874 (excludes models rated 3-4A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

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 ranges.

Revised 04-15 www.te.com Dimensionsareininchesover (millimeters)unlessotherwise specified. Dimensionsareshownforreference purposes only. Specifications and availability subject to change.

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

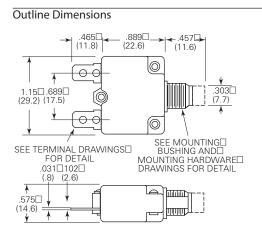
Current	Typical	Current	Typical
Rating	Resistance	Rating	Resistance
in Amps	in Ohms	in Amps	in Ohms
3.0	0.083	8.0	0.031
4.0	0.062	10.0	0.025
5.0	0.050	12.0	0.021
6.0	0.042	15.0	0.017
7.0	0.036	20.0	0.012

Mechanical/Environmental Data

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

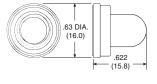
Termination: .250" (6.35mm) quick connects.

Mounting: Various options. See Ordering Information and drawings. Approximate Weight: 0.5 oz. (14.3g).

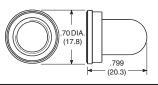


Optional Protective Boot

Silicone rubber boot is bonded to integral alumimum nut.



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



USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803 1-1423696-6 Clear boot for W57 with

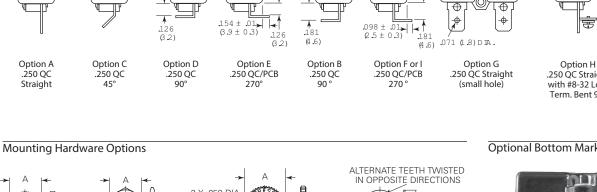
M11 X 1.0 bushing.

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

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	Issued 4-15 (PDF Rev. 04-15)	
Or	rdering Information Typical Part No. > W 57 -X B 1 A 4 A	1 0 -4
1	Typical Part No. > W 57 -X B 1 A 4 A	1 0 -4
	W = Circuit breaker	
2.	Series Number: 57 = Compact, Single Pole, Push-to-Reset, Thermal Model	
3.	Circuit Function: X = Series Trip	
4.	Button Color & Rate Marking: A = White, plain, no rate marking G = White, black rate marking (horizontal) B = White, red rate marking (vertical) H = Black, white rate marking (vertical) C = White, black rate marking (vertical) I = Red, plain, no rate marking D = Black, plain, no rate marking (horizontal) J = Black, no rate marking on button, E = Black, white rate marking (horizontal) white rate marking on bottom of F = White, red rate marking (horizontal) case between terminals.	
5.	Mounting Bushing: 1 = Plastic, 9.8mm (double D) X 9.6mm long, M11x1 threads, (similar to 7/16"), hex base 2 = Plastic, 3/8" (single D) x 10.5mm long, 3/8"x24 threads, hex base 4 = Plastic, snap-in type 5 = Metal, 9.8mm (double D) X 9.6mm long, M11x1 threads, (similar to 7/16"), round base 6 = Metal, 3/8" (single D) x 10.5mm long, 3/8"x24 threads, hex base 7 = Metal, 10.8mm (double D) x 9.6mm long, M12x1 threads, (similar to 15/32"), round base 8 = Metal, 3/8" (double D) x 10.0mm long, 3/8"x24 threads, hex base Notes: Codes 1 and 3 are similar in size to 7/16" bushings (not exact equivalent). Code 7 is similar in size to a 15/32" bushing (not exact equivalent)	
6.	Terminals: (see drawings for detail) A = Quick connect .250" (6.35mm) straight B = Quick connect .250" (6.35mm), bent 90° C = Quick connect .250" (6.35mm), bent 45° D = Quick connect .250" (6.35mm), bent 90°, PCB compatible F = Quick connect .250" (6.35mm), bent 90°, PCB compatible G = Quick connect .250" (6.35mm), bent 90°, PCB compatible H = One quick connect .250" (6.35mm), one #8-32 screw bent 90° I = Same as F above, but amperage marking reversed.	
7.	Mounting Hardware:4 = Metal knurled nut/hex nut7 = Plastic knurled nut6 = Metal hex nut8 = Plastic knurled nut with small hole12 = Metal knurled nut22 = Plastic knurled nut, metal lockwasher15 = 2 metal hex nuts, metal lockwasher99 = None	
_	Mounting Hardware Packaging: A = Assembled to bushing B = Bulk unassembled C = No mounting hardware.	
	Maximum Operating Voltage (AC): 1 = 250VAC 2 = 125VAC/50VDC	
_	0. Nameplate: 0 = None 1 = Embossed aluminum 2 = Silver color printing on black color 3 = Black color printing on si	ilver color
11.	. Specify Amp Rating: 3† 4† 5 6 7 8 10 12 15 20† †No	t VDE
12.	r. UL Recognition: Leave Blank = UL1077 recognized breaker M = Model meeting Ignition Protection requirements in accordance with UL1500, in addition to UL1077 recognition†	†Not VDE
W5 W5	ur authorized distributors are more likely to stock the following items for immediate delivery. 57-XB1A4A10-5 W57-XB1A4A10-15 W57-XB1A7A10-5 W57-XB1A7A10-15 57-XB1A4A10-10 W57-XB1A4A10-20 W57-XB1A7A10-10 W57-XB1A7A10-20 IDERING NOTE: Mounting hardware can be ordered separately. Some options are subject to extended leadtimes and significant minim	ium order quantities.
Mc	ounting Bushings and Recommended Panel Cutouts	
		 8±.005 8±.13)
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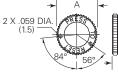
∈B



Knurled Nut



Hex Nut



Integrated Knurled Nut with Small Holes

Lockwasher



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

Optional Bottom Marking of Rating



Dimension Code	Bushing Diameter	Plastic Knurled Nut	Integrated Plastic Knurled Nut w/Holes	Metal Knurled Nut	Metal Hex Nut	Lockwasher
	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
Plastic	1 (M11)	_	1423696-8	2-1423696-2	_	-
	2 (3/8″)	-	1423696-2	-	-	-
	5 (M11)	-	-	1423696-4	1423696-6	1-1423696-2
Metal	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



.016 (.4) THICK Embossed Aluminum



.016 (.4) THICK Imprinted Aluminum

(Either Silver on Black or Black on Silver)

Revised 04-15 www.te.com

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