



#### 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

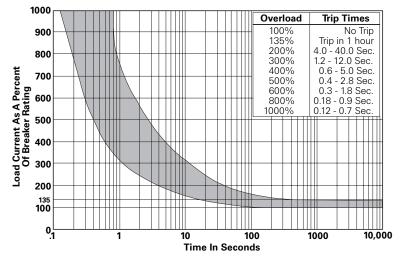
W57 series is UL1077 Recognized as Supplementary Protectors, File E69543, for Canada and the United States. Available models meet Ignition Protection requirements in accordance with UL1500. Approved to VDE 0642/EN60934 (Circuit Breakers for Equipment) License Number 40007874 (excludes models rated 3-4A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





#### **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

Dimensionsareshownforreference

purposes only. Specifications and availability subject to change.

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Dimensionsareininchesover (millimeters)unlessotherwise specified. W57 series

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



Insulation Resistance: 100 megohms. Maximum Operating Voltages: 250VAC, 50/60Hz; 50VDC (UL Only) Interrupt Capacity: 1,000 amps in accordance with UL standard 1077. Resettable Overload Capacity: Ten times rated current. Reset Time: 60 seconds.

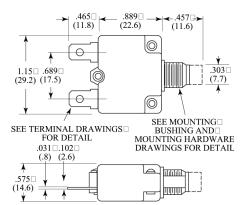
#### Typical Resistance vs. Current Rating @ +25°C

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

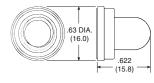
Operating Temperature Range: 0°C to +60°C. Termination: .250" (6.35mm) quick connects. Mounting: Various options. See Ordering Information and drawings. Approximate Weight: 0.5 oz. (14.3g).

#### **Outline Dimensions**



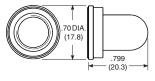
## **Optional Protective Boot**

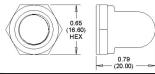
Silicone rubber boot is bonded to integral metal nut.



3/8"-24 bushing.

1-1423696-5





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

Black boot for W57 with

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

1-1423000-1 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 1 UK: 44-8706-080208



Ord	lering Information	W	57	-X	В	1	٨	Л	^	1	0	1	
	Typical Part No. > Designator: W = Circuit breaker	VV	7	-~	U I	I	A	4	A		0	-4	
2.	Series Number:	-1.041-1											
3.	57 = Compact, Single Pole, Push-to-Reset, Therm Circuit Function: X = Series Trip	al Model											
4.	Button Color & Rate Marking: A = White, plain, no rate marking G B = White, red rate marking (vertical) H C = White, black rate marking (vertical) I =	= White, blac = Black, white Red, plain, n = Black, no rat white rate m case betwee	e rate ma o rate ma te markin narking o	rking (vert arking ig on butto n bottom	ical) on,								
	Mounting Bushing: 1 = Plastic, 9.8mm (double D) X 9.6mm long, M1 2 = Plastic, 3/8" (single D) x 10.5mm long, 3/8"x24 4 = Plastic, snap-in type 5 = Metal, 9.8mm (double D) X 9.6mm long, M11 6 = Metal, 3/8" (single D) x 10.5mm long, 3/8"x24 7 = Metal, 10.8mm (double D) x 9.6mm long, M12 8 = Metal, 3/8" (double D) x 10.0mm long, 3/8"x24 Notes: Codes 1 and 3 are similar in size to 7/16'	threads, hey x1 threads, (s threads, hex x1 threads, he threads, he	k base similar to base similar to x base	7/16"), rou 15/32"), ro	ind base ound base								
	Code 7 is similar in size to a 15/32" bush 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 F = Quick connect .250" (6.35mm), bent 90°, PCB G = Quick connect .250" (6.35mm), straight (sma H = One quick connect .250" (6.35mm), one #8-3 I = Same as F above, but amperage marking rever	compatible compatible ller hole) 2 screw bent		ent)									
	6 = Metal hex nut 12 = Metal knurled nut 15 = 2 metal hex nuts, metal lockwasher	7 = Plastic kr 8 = Plastic kr 22 = Plastic kr 99 = None	nurled nu	t with sma									
8.	Mounting Hardware Packaging:	ulkupaccom	alad C-	- No mour	ting hardu	240			1				
9.	A = Assembled to bushingB = BMaximum Operating Voltage:1 = 250VAC/50VDC2 = 125VAC/50VE	ulk unasseml			-	are.				]			
	Nameplate: 0 = None 1 = Embossed aluminum	2 = Sil	ver color	printing o	n black col	or	3 = Blac	k color pri	nting on :	silver color			
	Specify Amp Rating: 3† 4† 5 6 7	8 10	) 1	12 1	5	20†			+N/	ot VDE	,		
12.	UL Recognition: Leave Blank = UL1077 recognized breaker								110				
	M = Model meeting Ignition Protection requirem	ents in accor	dance wi	th UL1500	, in additioi	n to UL10.	// recogni	tion†		1†	Not VDE		
W57 W57		57-XB1A7A1 57-XB1A7A1	0-5 0-10	W57-XB W57-XB	IA7A10-15 IA7A10-20				cant minir	num order	quantities		
Мо	unting Bushings and Recommended Pa	nel Cutou	ts										
	<ul> <li>.059 (1.5)</li> <li>.0</li> <li>.0</li> <li>.0</li> <li>.0</li> <li>.0</li> <li>.0</li> <li>.0</li> <li>.386</li> <li>.394+.008,0</li> <li>.0</li> <li>.0</li></ul>	043 (1.1) 394 (10.0)	.338		.0) 		Optio		(13	2±.005 8±.13)			
	$\begin{array}{c} .059 \\ (1.5) \\ .378 \\ (9.6) \\ (9.6) \\ \end{array}$	<.059 (1.5) 378 9.6)	(1: ↓ → .425 (10.8) ↓		) <u>↓</u> 33 +.008,( 1.0 +.2,0) ↓		<.043 (1.1) 394 10.0)		Ψ7	) <u>↓</u> 1 +.008,( <u>.9 +.2, -</u> .0) ↓	)		

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Option 5 – M11 X 1.0 Thread

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Option 7 – M12 X 1.0 Thread

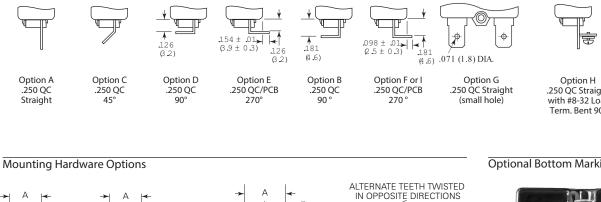
USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803

Option 8 – 3/8" - 24UNF Thread

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







< B



Knurled Nut



Hex Nut



Integrated Knurled Nut with Small Holes

Lockwasher



.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)	_	2-1423696-2	1423696-8	_	-
	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)

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