

POTTER & BRUMFIELD W57 SERIES

COMPACT, PUSH TO RESET ONLY P&B THERMAL CIRCUIT BREAKER

FEATURES

- New, compact design.
- 3 to 20 amp ratings.
- Push button to reset breaker. Cannot be manually tripped.
- Button extends for visual trip indication.
- Numerous mounting and termination options.
- Optional bottom marking of amperage rating.



APPROVALS

- UL/cUL: Recognized with UL 1077 (Supplementary Protectors for Use in Electrical Equipment), File E69543.
- VDE: Approved to DIN EN IEC 60934/VDE 0642 (Circuit Breaker for Equipment), Certificate No. 40059503 and 40007874 (for AC loads only).
- CCC: Approved to GB/T 17701, Certificate No. 2024010307737424 and 2004010307123217 (for AC loads only)



ELECTRICAL DATA @ 25°C

	Will continuously carry 100% of	1000												Ove	rload		-	Trip T	imes	
Calibration	rating. May trip between 101% and	900	\rightarrow				+			_			++		0% 5%		Trir	No p in 1	b Trip	
	134%, but must trip at 135% of	800							Ш				Ш		0%			40.0		
	rating within one hour at +25°C.	000	N			N									0%			- 12.0		
Dielectric Strength	1,500VAC (60 seconds)	700 t				\wedge	+			_			++		0% 0%			- 5.0 - 2.8		
	100	a g				\square			Ш				Ш		0%			3 - 1.8		
nsulation Resistance	100 megohms	A Pero		$\langle $											0% 00%			- 0.9 - 0.7		
Maximum Operating	250VAC, 50/60Hz;	چ ² 500		X			\mathbb{N}	+	╢╢	_	_	+++	╢└		ŤĦ	Ηİ	10.12	ŤŤ	TH	Ħ
Voltages	50VDC (UL Only)	f Breaker F		V																
0	1000	Bre 400			N			h	Ш											11
Interrupt Capacity	1,000 amps in accordance	00 700					+	+++				$\left\{ + + + \right\}$	+#-					++	+++	H
interrupt capacity	with UL standard 1077	Load 300					Ы													11
Resettable Overload		200							Щ				#	_			1			ſĦ
	Ten times rated current	135- 10 0 1									-									m
Capacity		10 0																		i II
Reset Time	60 seconds	0				1			10	<u> </u>			100				000		10	ШШ . О
										-	In Co	econo		-			000		.0	Ŭ

Note: 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.

Thermal Circuit Breaker

TYPICAL RESISTANCE VS. CURRENT RATING @+25°C

Current Rating in Amps	Typical Resistance In Ohms	Current Rating In Amps	Typical Resistance 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	.250in (6.35mm) quick connects
Mounting Various options.	See Ordering Information and drawings
Approximate Weight	0.5 oz. (14.3g).

OUTLINE DIMENSIONS



AMBIENT COMPENSATION TABLE

Ambient	Rating Correction Factor									
Temperature 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.

OPTIONAL PROTECTIVE BOOT

Silicone rubber boot is bonded to integral metal nut.



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



.654

16.6]

-.787 [20.0] 1-1423696-6 Clear boot for W57 with M11 X 1.0 bushing.

1-1423000-1 Clear boot for W57 with M11 X 1.0 bushing.

MOUNTING BUSHINGS AND RECOMMENDED PANEL CUTOUTS



→ .378 (9.6)

Option 5 - M11 X 1.0 Thread



Option 2 & 6 - 3/8in - 24UNF Thread



Option 7 - M12 X 1.0 Thread



Option 4 - Snap In Option



Option 8 - 3/8in - 24UNF Thread

POTTER & BRUMFIELD W57 SERIES

Thermal Circuit Breaker



Integrated Plastic Dimension **Plastic Knurled Bushing Metal Knurled** Knurled Nut w/ **Metal Hex Nut** Lockwasher Diameter Code Nut Nut Holes 3/8in .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) А M12 _ .59 (15.0) .55 (14.0) .626 (15.9) _ 3/8in .126 (3.2) _ .079 (2.0) .079 (2.0) .02 (.5) .102 (2.6) В M11 .126 (3.2) .13 (3.3) .118 (3.0) .02 (.5) M12 _ _ .102 (2.6) .079 (2.0) .02 (.5)

MOUNTING HARDWARE ORDERING INFORMATION

Dimension Code	Bushing Diameter	Plastic Knurled Nut	Integrated Plastic Knurled Nut w/ Holes	Metal Knurled Nut	Metal Hex Nut	Lockwasher
Plastic	1 (M11)	1423696-8	2-1423696-2	1423696-8	-	-
Plastic	2 (3/8in)	1423696-2	-	-	-	-
	5 (M11)	-	-	1423696-4	1423696-6	1-1423696-2
Metal	6 (3/8in)	-	-	1-1423696-0	1423696-3	1-1423696-1
	7 (M12)	-	-	1423696-5	1423696-7	1-1423696-3

ORDERING NOTE:

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

			Тур	oical pr	oduct	code						
		W	57 ·	-X B 1	A 4	A 1 O -4						
esignat	tor						Speci	fy Ai	mp Rating			
W	Circuit breaker						_	3	6	10	20	
								4	7	12		
eries N	ries Number							5	8	15		
57 Compact, Single Pole, Push-to-Reset, Thermal Model							Name	plate	e			
	Thermal Model						0	-	None			
rcuit F	unction & Contact Material						1	_	Embossed alur	minum		
Х	Series trip						2	2 Silver color printing on black				
~	Selles trip						3		Black printing			
utton C	Color & Rate Marking:											
А	White, plain, no rate marking						Maxin	num	Operating Vol	tage		
в	White, red rate marking (vertical)						1		250VAC/50VD	C*		
С	White, black rate marking (vertical)						2	1	125VAC/50VD	C*		
D	Black, plain, no rate marking								*[DC rating ap	ply to UL o	
Е	Black, white rate marking (horizontal)						Moun	ting	Hardware Pac	kaging		
F	White, red rate marking (horizontal)						Α		Assembled to	buching		
G	White, black rate marking (horizontal)									-		
н	Black, white rate marking (vertical)						В		Bulk unassem	bled		
1	Red, plain, no rate marking						С	No mounting hardware				
	Black, no rate marking on button, white rate											
J	marking on bottom case between terminals.						Moun	ting	Hardware			
ountin	g Bushing									etal		
ounting							4		Knurled nut/he	ex nut		
	Plastic						6	_	Hex nut			
1	9.8mm (double D) X 9.6mm long, M11x1 threads, hex base						12		Knurled nut			
2	3/8in (single D) x 10.5mm long, 3/8inx24						15	2	2 metal hex nu	ts, metal loc	kwasher	
4	threads, hex base						18	F	Hex nut, metal			
4	Snap-in type Metal									astic		
	9.8mm (double D) X 9.6mm long, M11x1						7	_	Knurled nut			
5	threads, round base						8		Knurled nut wit			
	3/8in (single D) x 10.5mm long, 3/8inx24						22		Knurled nut, m	etal lockwas	her	
6	threads, hex base						99	1 1	None			
7	10.8mm (double D) x 9.6mm long, M12x1 threads, round base						Termi	inals	i			
8	3/8in (double D) x 10.0mm long, 3/8inx24						Α	Qui	ck connect .25	0in (6.35mn	n) straight	
8	threads, hex base						в	Qui	ck connect .25	0in (6.35mn	n), bent 90	
doc 1 am	nd 5 similar in size to 7/16in bushings (not exact equivalen	\ \					С	Qui	ck connect .25	0in (6.35mn	n), bent 45	
	similar in size to 7/161n bushings (not exact equivalent) similar in size to a 15/32in bushing (not exact equivalent)						D	Qui	ck connect .25	0in (6.35mn	n), bent 90	
		*					Е		ck connect .25 3 compatible	0in (6.35mn	n), bent 90	
							_		ck connect .25	0in (6.35mn	n), bent 90	
							F		3 compatible	-		

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07/25 ED





Same as F above, but amperage marking

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reversed.