imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China







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

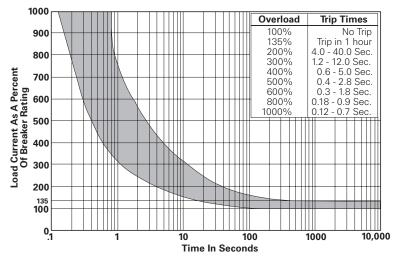
W57 series is UL1077 Recognized as Supplementary Protectors, File E69543, for Canada and the United States. Available models meet Ignition Protection requirements in accordance with UL1500. Approved to VDE 0642/EN60934 (Circuit Breakers for Equipment) License Number 40007874 (excludes models rated 3-4A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

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

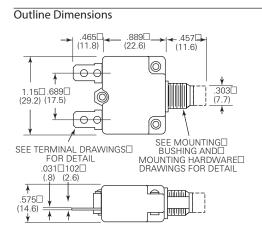
Current	Typical	Current	Typical
Rating	Resistance	Rating	Resistance
in Amps	in Ohms	in Amps	in Ohms
3.0	0.083	8.0	0.031
4.0	0.062	10.0	0.025
5.0	0.050	12.0	0.021
6.0	0.042	15.0	0.017
7.0	0.036	20.0	0.012

Mechanical/Environmental Data

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

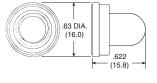
Termination: .250" (6.35mm) quick connects.

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

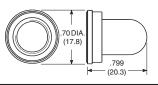


Optional Protective Boot

Silicone rubber boot is bonded to integral alumimum nut.



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



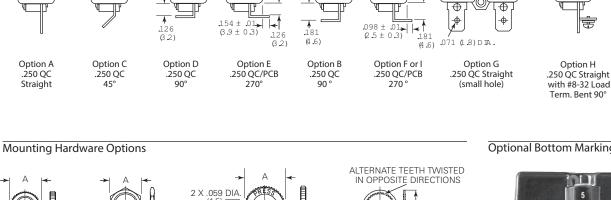
USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803 1-1423696-6

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 1 UK: 44-8706-080208

					PDF Rev.	- · · - /							
Ordering Information Typical Part	No >	W	57	-X	В	1	А	4	А	1	0	-4	
 Designator: W = Circuit breaker 	110. 2] ••									Ŭ		
2. Series Number:	and Thomas I	Madal											
57 = Compact, Single Pole, Push-to-R3. Circuit Function:	eset, merman	viodei											
X = Series Trip 4. Button Color & Rate Marking:													
A = White, plain, no rate marking B = White, red rate marking (vertical) C = White, black rate marking (vertica D = Black, plain, no rate marking E = Black, white rate marking (horizon F = White, red rate marking (horizonta		Black, whi ed, plain, lack, no ra hite rate i	te rate ma no rate m ate markir	ng on butto n bottom	tical) on,								
 Mounting Bushing: 1 = Plastic, 9.8mm (double D) X 9.6mr 	n long, M11x1	I threads.	(similar to	o 7/16"), he	ex base								
2 = Plastic, 3/8" (single D) x 10.5mm k 4 = Plastic, snap-in type 5 = Metal, 9.8mm (double D) X 9.6mn 6 = Metal, 3/8" (single D) x 10.5mm lo 7 = Metal, 3/8" (double D) x 10.0mm l 8 = Metal, 3/8" (double D) x 10.0mm l Notes: Codes 1 and 3 are similar in Code 7 is similar in size to a	ong, 378"x24 th n long, M11x1 ng, 3/8"x24 th m long, M12x1 ong, 3/8"x24 th size to 7/16" bi	threads, he threads, he reads, he threads, he hreads, he ushings (i	ex base (similar to x base (similar to ex base not exact	97/16"), rou 9 15/32"), r equivalent	und base ound base								
6. Terminals: (see drawings for detail)				,			1						
A = Quick connect .250" (6.35mm) str B = Quick connect .250" (6.35mm), br C = Quick connect .250" (6.35mm), br D = Quick connect .250" (6.35mm), br F = Quick connect .250" (6.35mm), br G = Quick connect .250" (6.35mm), str H = One quick connect .250" (6.35mm) H = Same as F above, but amperage m	ent 90° ent 45° ent 90° ent 90°, PCB co ent 90°, PCB co rraight (smaller n) , one #8-32 s	mpatible hole) crew ben											
7. Mounting Hardware:			nurled nu	+									
4 = Metal knurled nut/hex nut 6 = Metal hex nut 12 = Metal knurled nut 15 = 2 metal hex nuts, metal lockwasi 18 = Metal hex nut, metal lockwasher	8 = 22 : her	= Plastic k	nurled nu	it with sma it, metal lo									
8. Mounting Hardware Packaging:			blad C	Nemer	tin a la cual c								
A = Assembled to bushing 9. Maximum Operating Voltage (AC): 1 = 250VAC 2 = 125VAC/50VD		unassen		= NO MOUI	iting hardw	are.							
10. Nameplate: 0 = None 1 = Embossed alu	minum	2 = 5	ilver color	r printing c	on black col	or	3 = Blac	k color pri	ntina on «	silver color			
11. Specify Amp Rating: 3† 4† 5 6	7 8			·		20†				ot VDE			
12. UL Recognition:			0	12	5	201			1110				
Leave Blank = UL1077 recognized bre M = Model meeting Ignition Protection		ts in acco	rdance w	ith UL1500	, in additio	n to UL10	77 recogni	tion†		+1	Not VDE		
Our authorized distributors are m	ore likely to	stock t	he follo	wina ite	ms for im	mediat	o deliver	V					
W57-XB1A4A10-5 W57-XB1A4A10)-15 W57	-XB1A7A	10-5	W57-XB	1A7A10-15	i	e deliver	у.					
W57-XB1A4A10-10 W57-XB1A4A10 ORDERING NOTE: Mounting hardware		-XB1A7A d separate			1A7A10-20 subject to		leadtimes	and signifi	cant minir	num order	quantities.		
Mounting Bushings and Recomm	ended Pane	el Cutou	ıts										
.441+.008,0 (11.2+.2,0)		→ _→ .043	.338 -	.346 +.008 (8.8 +.2, -					0±.005 6±.13)				
Option 1 – M11 X 1.0 Thread		(1.1) .394 (10.0)	& 6 - 3/8'		¥ 182 +.008, - 19.7 +.2,0 ▲		Optic	n 4 – Snap	(13	/ 3±.005 .8±.13)			
441+.008,0 (11.2+.2,0) (11.2+.		6)	(1 ↓ → .425 (10.8) ↓)) 		 .043 .1.1) .394 .394 	(9 * .303 (7.7)	<u> </u>) <u> </u>)		
Option 5 – M11 X 1.0 Thread Revised 04-15 Dimension	sareininchesov			X 1.0 Thre	ad wnforrefere	nce		8 – 3/8" - 2		Dbs	SouthAme	erica:55-11-2	2103-6000
	s)unlessotherwis		purpose	s only. Spe	cifications a to change.		Cana Mexi	da: 1-905- co: 01-800 nerica: 52-	470-4425 -733-8926		Hong Kor Japan: 81	inca:55-11-2 ng: 852-273 -44-844-80 06-080208	85-1628 13





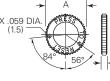
- B



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
	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)

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