

Features

- 0.5 amp to 30 amp ratings.
- Cannot be manually tripped.
- Button extends for visual trip indication.
- Push button to reset breaker.
- Termination is screw or .250" QC.
- · Bottom marked amperage rating optionally available.

Agency Approvals

W58 Series is UL 1077 Recognized as Supplementary Protectors, File E69543 and meets Ignition Protection requirements in accordance with UL 1500. W58 Series is also CSA Accepted as Supplementary Protectors (Appliance Component Protectors), File LR15734.

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: Breaker will continuously carry 100% of rated load. It may trip between 101% and 145% of rated load, but must trip at 145% at 25°C.
Dielectric Strength: Over 1,500 volts RMS.

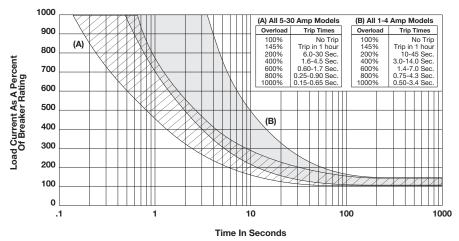
Maximum Operating Voltages: 50VDC; 250VAC.

Interrupt Capacity: 2,000 amps at 50VDC (0.5 - 30 amp models). 1,000 amps at 250VAC (0.5 - 30 amp models).

Note: 30 amp model not UL or CSA.

Resettable Overload Capacity: Ten times rated current.

Time vs. Current Trip Curve @ +25°C



W58 series

P&B Push To Reset Only Thermal Circuit Breaker

R

€₽_

Maximum Resistance vs. Current Rating @ +25°C

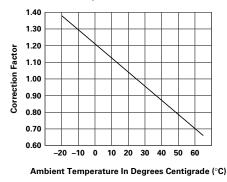
Current Rating in Amps	Maximum Resistance in Ohms	Current Rating in Amps	Maximum Resistance in Ohms	
0.5	5.0	8	0.020	
1	1.35	9	0.020	
2	0.32	10	0.014	
3	0.18	12	0.010	
4	0.10	15	0.010	
5	0.026	20	0.005	
6	0.026	25	0.006	
7	0.020	30*	0.004	

*No UL/CSA

Mechanical/Environmental Data

Shock: Withstands to 10g. Endurance Cycling: Over 1,000 cycles at 200% of rated load. Vibration: Withstands to 10g at 10-55 Hz. Weight: Less than 1 1/2 oz. (42.5g).

Ambient Compensation Chart



To use this chart: Read up from the ambient temperature to the curve, and across to find a correction factor. Multiply 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.

Revised 5-10 www.tycoelectronics.com Dimensions are in inches over (millimeters) unless otherwise specified.

Downloaded from <u>Elcodis.com</u> electronic components distributor

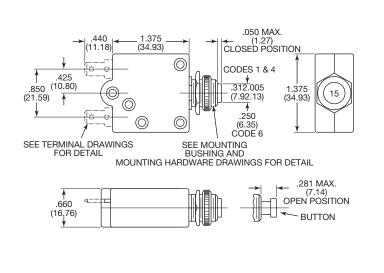
Dimensions are shown for reference purposes only. Specifications and availability subject to change. USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803

Tyco Electro					lssu	Catalog 13 ed 3-03 (PD	308242)F Rev. 5-10)	1					
Orderin	g Informa	ation	Typical	Part No. >	W	58	-X	В	1	Α	4	A	-5
1. Desig W = C	nator: Circuit breake	er											
	Single Pole , I	Push-to-R	leset			-							
	t Function: eries Trip						_						
A = W $B = W$ $C = W$	n and Rate /hite, plain, r /hite with re /hite with bla	no rate ma d rate ma ack rate n	arking, no tr arking, red tr narking, red	rip band F trip band K	= White with = White with = Black, plain	black rate , no rate m	marking, no harking, no t	trip band trip band					
5. Moun 1 = M 4 = M	ting Bushir etal, 7/16" > etal, 15/32" etal, 3/8" x	ig: (.500" (1 (x.300" (2.70mm) lo (7.62mm) lo	ng ng, black	n a special order 7 = Plastic, 3/8		,]					
C = 6/	nals: uick connec '32 screw 90 '32 screw 90)° (screws	s installed)	0									
4 = M 6 = M 12 = N	ting Hardw etal, knurled etal, knurled Metal, knurle Metal, two h	l nut/hex r l nut/hex r d nut/lock	nut/lock was k washer	sher	7 = Plastic, k 22 = Plastic			washer					
	Metal, hex n				99 = No mtg	. hardware	supplied (L	Jse C, Step	#8)				
Note: I	For other hard	ware comb	pinations, orde	er separately. S	ee mounting har	dware Ordei	ring Informat	ion table.					
A = As B = Bs	ting Hardw ssembled to ulk unassem o mounting	bushing bled											
9. Speci 0.5 1	fy Amp Rat 3 4	ing: 6 7	9 10	15 20	30*								,

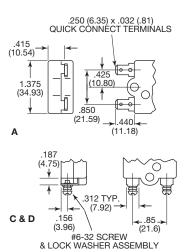
Stock Items - Authorized distributors are more likely to stock the following items.

W58-XB1A4A-1 W58-XB1A4A-2 W58-XB1A4A-3 W58-XB1A4A-4 W58-XB1A4A-5	W58-XB1A4A-6 W58-XB1A4A-7 W58-XB1A4A-8 W58-XB1A4A-10 W58-XB1A4A-12	W58-XB1A4A-15 W58-XB1A4A-20 W58-XB1A4A-25 W58-XB1A4A-30 W58-XC4C12A-1	W58-XC4C12A-2 W58-XC4C12A-3 W58-XC4C12A-5 W58-XC4C12A-7 W58-XC4C12A-7	W58-XC4C12A-15 W58-XC4C12A-20 W58-XC4C12A-25 W58-XC4C12A-30
--	--	---	---	--

Outline Dimensions



Terminal Options



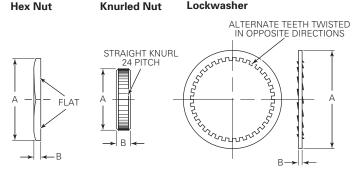
Downloaded from Elcodis.com electronic components distributor

Dimensions are in inches over (millimeters) unless otherwise specified. Dimensions are shown for reference purposes only. Specifications and availability subject to change. USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803

≣ _{Tyco} Electronics

Mounting Hardware

Knurled Nut Lockwasher



Mounting Hardware Dimensions

Catalog 1308242 Issued 3-03 (PDF Rev. 5-10)

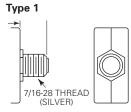
	Dimension	Metal Hex Nut	Metal Knurled Nut	Plastic Knurled Nut	Metal Lockwasher
	3/8″	.556 (14.12)	.562 (14.27)	.74 (18.8)	.562 (14.27)
Α.	7/16″	.625 (15.88)	.625 (15.88)	-	.540 (13.72)
	15/32″	.556 (14.12)	.625 (15.88)	-	.600 (15.24)
	3/8″	.085 (2.16)	.078 (1.98)	.126 (3.2)	.018 (.457)
В.	7/16″	.111 (2.82)	.125 (3.18)	-	.022 (.559)
	15/32″	.078 (1.98)	.125 (3.18)	-	.018 (.457)

Mounting Hardware Ordering Information

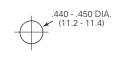
Mounting Bushing Code	Metal Knurled Nut	Plastic Knurled Nut	Metal Hex Nut	Metal Lock Washer
1	55-010A	_	55-011A	88-021B
4	•	_	55-001B	88-002A
6	55-008A	_	55-001D	88-006K
7	55-008A	1423696-2	55-001D	88-006K

55-010B (silver) 55-010E (black)

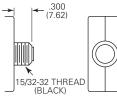
Mounting Bushing



Recommended Cutout

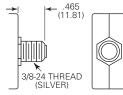


Type 4



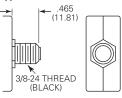


Type 6





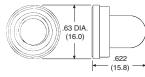
Type 7





Optional Protective Boot

Silicone rubber boot is bonded to integral alumimum nut.



1-1423696-5

Black boot for W58 with 3/8"-24 bushing.

Optional Bottom Marking of Rating

This is available on a special order basis. Consult factory for details.



Disclaimer:

While Tyco Electronics and its affiliates referenced herein have made every reasonable effort to ensure the accuracy of the information contained in this document, Tyco Electronics cannot assure that this information is error free. For this reason, Tyco Electronics does not make any representation or offer any guarantee that such information is accurate, correct, reliable or current. Tyco Electronics reserves the right to make any adjustments to the information at any time. Tyco Electronics expressly disclaims any implied warranty regarding the information contained herein, including, but not limited to, the implied warranties of merchantability or fitness for a particular purpose. Tyco Electronics' only obligations are those stated in Tyco Electronics' Standard Terms and Conditions of Sale. Tyco Electronics will in no case be liable for any incidental, indirect or consequential damages arising from or in connection with, including, but not limited to, the sale, resale, use or misuse of its products. Users should rely on their own judgment to evaluate the suitability of a product for a certain purpose and test each product for its intended application.

In case of any potential ambiguities or questions, please don't hesitate to contact us for clarification.

© 2010 by Tyco Electronics Corporation. All Rights Reserved.

P&B, Potter & Brumfield, TE (logo) and Tyco Electronics are trademarks of the Tyco Electronics group of companies and its licensors.

Revised 5-10 www.tycoelectronics.com Dimensions are in inches over (millimeters) unless otherwise specified.

Dimensions are shown for reference purposes only. Specifications and availability subject to change.

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