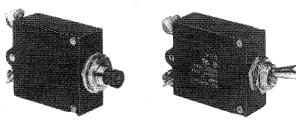
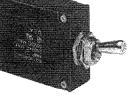
Catalog 1308242 Issued 3-03 (PDF Rev. 12-08)



W23



W31

W23/W31 series

Toggle or **Push/Pull Actuator** Thermal P&B Circuit Breaker

AL (R.

Features

- 0.5 amp to 50 amp ratings may be used as on/off switch.
- Cannot be reset against overload.
- W23 has visible trip indicator band.
- Screw termination.
- Trip-free operation.

Agency Approvals

W23 and W31 are UL 1077 Recognized as Supplementary Protectors. File E69543, and 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 ensure 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% of rating at 25°C. Must trip at 135% in one hour.

Maximum Operating Voltages: 50VDC or 240VAC (to 400 Hz). Interrupting Capacity: With 4X Max. Series Fuse Protection

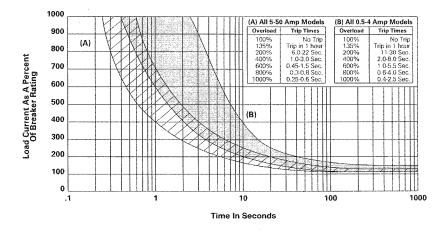
0.5-50 amp models — 1000 amps at 240VAC. 30-50 amp models — 1000 amps at 50VDC.

Without 4X Max. Series Fuse Protection

0.5-25 amp models — 2000 amps at 50VDC. 10-20 amp models — 2000 amps at 120VAC.

Resettable Overload Capacity: Ten times rated current. Dielectric Strength: Over 1,500 volts RMS.

Time Vs. Current Trip Curve @ +25°C



Maximum Resistance vs. Current Rating @ +25°C

Current Rating in Amps	Maximum Resistance in Ohms ± 30%
1	.61
5	.03
10	.01
15	.006
20	.004
30	.003
40	.002
50	.002

Mechanical/Environmental Data

Endurance Cycling: More than 6,000 cycles at 100% of rating, or 10,000 mechanical cycles.

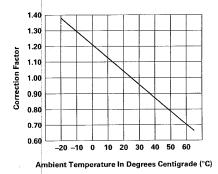
Humidity: Will meet requirements of MIL-STD-202, Method 106. Salt Spray: Will meet requirements of MIL-STD-202, Method 101, Test Condition B.

Termination: Two #8-32 screw terminals.

Mounting: W23 - Threaded bushing, 3/8" (9.53mm) diameter. W31 - Threaded bushing, 15/32" (11.91mm) diameter, with or without anti-rotation flats.

Weight: Less than 2 oz. (57g).

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.

Dimensions are shown for 116 reference purposes only.

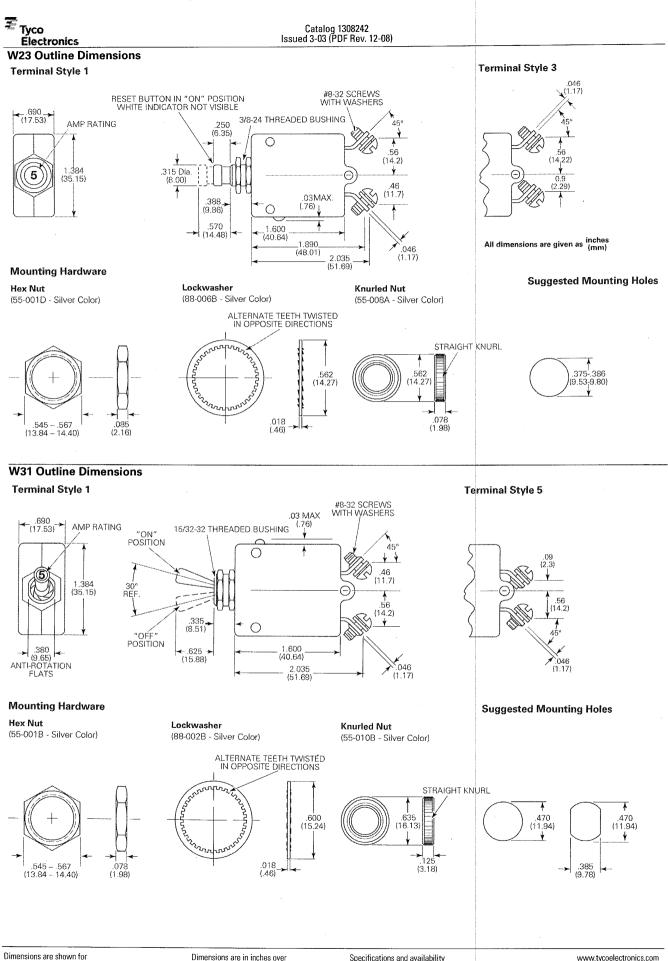
Dimensions are in inches over (millimeters) unless otherwise specified

Specifications and availability subject to change

www.tycoelectronics.com Technical support: Refer to inside back cover.

Tyco Electronic			lss	Catalog 1308242 ued 3-03 (PDF Rev. 12-08)		
Ordering Inf	ormation			W 23 -X	1 A 1	G -5
1. Designato			Typical Part No. ►			
W = Čircuit 2. Series Nur	breaker					
	pole, push/pul	l				
X = Series 4. Button:	WE VOUR COMPANY AND A COMPANY					
		rate marking	and white trip band.			
A = 3/8"-2	threaded bus	and the second of the second second	.53mm) long, silver color e terminal positions):			
1 - Screw	terminals situa	ted 90° to ea	ich other with #8-32 screv	ws and washers installed. ward with #8-32 screws and washers i	nstalled.	
G = Two he	Hardware: d nut/hex nut ir ex nuts/lockwas unting hardwar	sher installed				
8. Amp Ratin 0.5	3 7.5	20	35			
	1 10 5 15	25 30	40 50			
Stock Items	– Authorize	d distribu	itors are more likely	to stock the following items.		
W23-X1A1G-1 W23-X1A1G-2 W23-X1A1G-3 W23-X1A1G-5	W23-X W23-X	1A1G-7.50 1A1G-10 1A1G-15 1A1G-20	W23-X1A1G-25 W23-X1A1G-30 W23-X1A1G-35 W23-X1A1G-40	W23-X1A1G-50		
Ordering Inf	ormation		,	brannan anna bhail	Hereichen anterettet	
 Designato W = Circui Series Nu 31 = Single Circuit Fu 	t breaker mber: e pole, toggle a	ctuator	Typical Part No. ►	W 31 -X	2 M	1 G -5
X = Series 4. Mounting 1 = 15/32"	trip. Bushing: -32 threaded bi	ushing .320" ushing .320"	(8.13mm) long, round, sil (8.13mm) long, double "I	lver color D", silver color		
5. Toggle:			with amp rate marking on			
6. Terminals 1 = Screw	(See drawing terminals situa	for relative ted 90° to ea	terminal positions): ach other with #8-32 screv	ws and washers installed. wnward with #8-32 screws and washer	s installed.	
G = Two he	Hardware: d nut/hex nut ir ex nuts/lockwas unting hardwar	sher installed				
	3 7.5	20	35			
	10 5 15	25 30	40 50			
Stock Items W31-X2M1G-1 W31-X2M1G-2	W31-X2	d distribu 2M1G-10 2M1G-15	itors are more likely W31-X2M1G-35 W31-X2M1G-40	to stock the following items.		
W31-X2M1G-3 W31-X2M1G-3 W31-X2M1G-5 W31-X2M1G-7	W31-X2 W31-X2	2M1G-20 2M1G-25 2M1G-30	W31-X2M1G-50			
Dimensions are shown reference purposes of			Dimensions are in inches over (millimeters) unless otherwise specified			www.tycoelectronics.com Technical support: 1 Befer to inside back cover.

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118 reference purposes only.

Dimensions are in inches over (millimeters) unless otherwise specified. Specifications and availability subject to change.

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