



Features

- · Compact, trip-free, rocker-actuated design.
- 5 to 20 amp ratings.
- Provides circuit protection and power switching in a single unit.
- Available with optional indicator lamp.
- · Snaps into the same cutout as many common power switches.
- Various color, marking and termination options.

Agency Approvals

W51 series is UL 1077 Recognized as Supplementary Protectors, File E69543, for Canada and the United States. Approved to VDE 0642/EN60934 (Circuit Breakers for Equipment) License Number 40017023 (for AC loads only). CCC mark compliant, certificate 2004010307123223.

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.

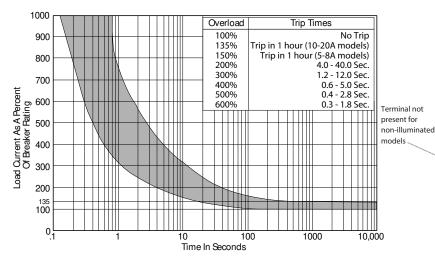
May trip between 101% and 134%, but must trip at 135%* of rating within one hour at +25°C. * 150% for 5-8A models

Dielectric Strength: 1,500VAC (60 seconds).

Insulation Resistance: 100 megohms.

Maximum Operating Voltages: 50VDC; 125 or 250VAC, 50/60 Hz. (model dependent).

Time vs. Current Trip Curve @ +25°C



Ambient Compensation Table

Ambient Temperature in °C	Rating Correction Factor 5-8A Models 10-20A Models					
10	.80	.80				
20	.90	.90				
25	1.00	1.00				
30	1.10	1.05				
40	1.25	1.15				
50	1.61	1.25				
60		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.

W51 series

Rocker-Actuated Thermal Circuit Breaker/Power Switch With Optional Indicator Lamp



Interrupt Capacity: 1,000 amps in accordance with UL standard 1077. Resettable Overload Capacity: Ten times rated current. Switch Endurance Cycling: Typically 6,000 operations at 100% of rating. 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
5.0 6.0 7.0 8.0	0.050 0.042 0.036 0.031	10.0 15.0 20.0	0.025 0.017 0.0125

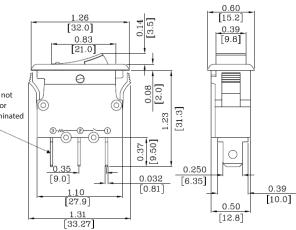
Mechanical/Environmental Data

Operating Temperature Range: 0° C to +60°C for 10-20A models 0° C to +50°C for 5-8A models

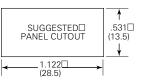
Termination: .250" (6.35mm) quick connects, solder terminals or right angle PC terminals.

Mounting: Snaps into 1.122 x .531 (28.5 x 13.5) panel cutout. Approximate Weight: 0.37 oz. (10.5g).

Outline Dimensions



Recommended Panel Cutout



Panel Thickness

W51 series circuit breakers accommodate panel thicknesses from 0.030 in. to 0.118 in. (0.75 mm - 3.0 mm).

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Dimensionsareininchesover (millimeters)unlessotherwise specified. Dimensionsareshownforreference 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



	Турі	cal Part No. >	W	51	-A	1	2	1	В	1	-5
 Designator: W = Circuit breake 	er										
2. Series Number: 51 = Switchable, S	ingle Pole, Rocker-Act	uated Thermal Mo	del	-							
3. Terminals: A = Quick connect	t .250″ (6.35mm) straig	ht C = Printed Circ	uit - right ar	ngle							
	se Color: n design (see drawing utton design (see drav										
5 = Black (opaque 6 = Red (opaque - 7 = Gray (opaque 8 = Black (opaque	nt)	inated models) nated models) nated models)) indicator (only av									
6. Maximum Operat 1 = 125VAC	ing Voltage (AC): 2 = 250VAC										
7. Light: A = Non-illuminat	ed (two terminals)	B = Illuminated DC load volt		nals, intende	d for AC loa	d voltages	>= 65vac; wi	ill not work	with		
 8. Marking option: 0 = No marking 1 = RESET/OFF pri 		Γ/OFF molded (onl	y available o	on model wit	h contoure	d button)					
9. Specify Amp Ratir 5 6	ng: 7 8	10 1	5 2	0							
Our authorized di	stributors are more	e likely to stock	the follow	ing items	or immed	liate deliv	/ery.				
W51-A121B1-5	W51-A121B1-15	W51-A122B1	-5	W51-A122B1	-15	W51-A152	A1-5	W51-A152	2A1-15		

51-A121B1 1-A121B1 51-A122B1 W51-A152A1-20

W51-A121B1-10 W51-A121B1-20 W51-A122B1-10 W51-A152A1-10 W51-A122B1-20

ORDERING NOTE: Some options illustrated below are not listed in the "Ordering Information" chart above. Options denoted by "Special" or "Special Order" in their descriptions are only offered on a special order basis. Other base and button colors and intermediate amp ratings are also available on a special order basis. All special order items are subject to extended leadtimes and significant minimum order quantities. Your TE sales engineer must consult with the factory before providing price and availability information regarding items with these options.

