

M1 **Series** Rocker-Actuated, Trip-Free Thermal Circuit Breaker/ Power **Switch With Option Indicator Lamp Multiple Patent**

Features

🖶 Compact, trip-free, rocker-actuated design.

🖶 5 to 20 amp ratings.

Provides circuit protection and power switching in a single unit.

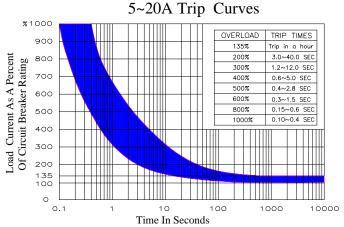
Available with optional indicator lamp.

Snaps into the same cutout as many common power switches.

Various color, marking and termination options.

Technical data				
Rated voltage	AC 125/250V DC 50V			
Rated current	5-20 A			
Interrupt Capacity	1000A 250V (UL1077)			
Dielectric strength	AC 1500V (1min)			
Insulation resistance	\ge 100 M Ω , 500VDC			
Resettable Overload Capacity	Ten times rated current			
Switch Endurance Cycling	Over 6,000 operations			
	at rating current			
Weight:	Approx 10.5g			

Time vs. Current Trip Curve@+25℃



Trip Curves Are Specified at 25C/77 F

Ambient Compensation Table

Ambient	Rating Correction Factor		
Temperature	E (A Madala	7 000 Mardala	
In ℃	5-6A Models	7-20A 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	2.15	1.40	

The unit is calibrated for an ambient temperature of +25°C. To determine the rated current for a lower or higher ambient temperature, use a correction factor to the left.

Typical Resistance vs. Current Rating @ +25°C

Approval & File No. Rated current ra		e Rated voltage		
ULCUL E95802	5-20 A	125/250VAC	50VDC	
CCC 20030103070978	58 5-20 A	125/250VAC		
VDE 40015302	5-20 A	250VAC		

Typical Resistance vs. current Rating @ +230					
Current	Typical	Current	Typical		
Rating	Resistance	Rating	Resistance		
in Amps	in Ohms	in Amps	in Ohms		
5.0	0.05	13.0	0.020		
7.0	0.036	15.0	0.017		
10.0	0.025	20.0	0.0125		
12.0	0.022				

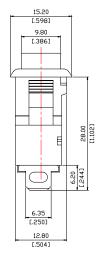
Mechanical/Environmental Data

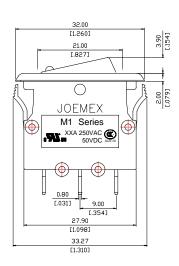
Operating Temperature Range: $-10 \, ^{\circ}\text{C}$ to $+60 \, ^{\circ}\text{C}$.

Termination: 250"(6.35 mm) quick connects, solder terminals Mounting: Snaps into 1.122" x. 531" (28.5 X 13.5) panel cutout.

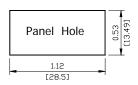
Outline Dimensions

Approval





Recommended Panel Cutout



Panel thickness

M1 series circuit breakers accommodate panel thickness from 0.03 in. to 0.118 in.(0.75mm-3.0mm)