

Features

Compact, trip-free, rocker-actuated design.

5 to 20 amp ratings.

Provides circuit protection and power switching in a single unit.

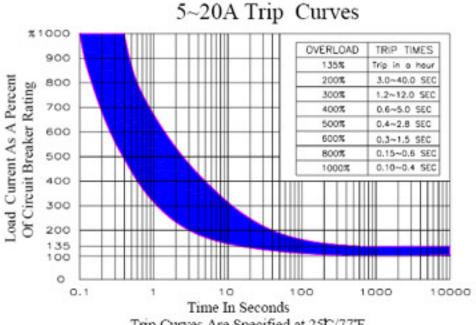
Available with optional indicator lamp.

Snaps into the same cutout as many common power switches.

Various color, marking and termination options.

Rated voltage	AC 125/250V DC 50V	
Rated current	5-20 A	
Interrupt Capacity	1000A 250V (UL1077)	
Dielectric strength	AC 1500V (1min)	
Insulation resistance	≥100 MΩ, 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 25°C/77°F

Ambient Compensation Table

Ambient	Rating Correction Factor		
Temperature	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℃. To determine the rated current for a lower or higher ambient temperature, use a correction factor to the left.

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

Approval

Approval & File No.	Rated current range	Rated volta	age
UL E95802	5-20 A	125/250VAC 50	VDC
CCC 20030103070978	558 5-20 A	125/250VAC	
VDE 40015302	5-20 A	250VAC	

Typical Resistance vs. Current Rating @ +25℃

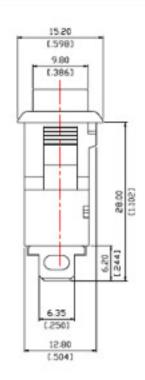
Current Rating in Amps	Typical Resistance in Ohms	Current Rating in Amps	Typical Resistance in Ohms
5.0	0.05	13.0	0.020
7.0	0.036	15.0	0.017
10.0	0.025	20.0	0.0125
12.0	0.022		

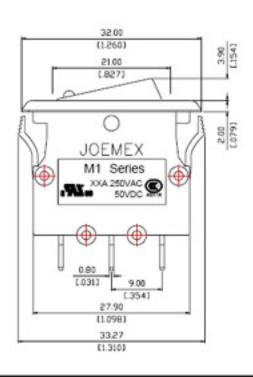
Mechanical/Environmental Data

Operating Temperature Range: -10 °C to +60 °C.

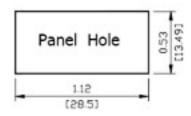
Termination: 250"(6.35 mm) quick connects, solder terminals Mounting: Snaps into 1.122" x. 531" (28.5 X 13.5) panel cutout .

Outline Dimensions



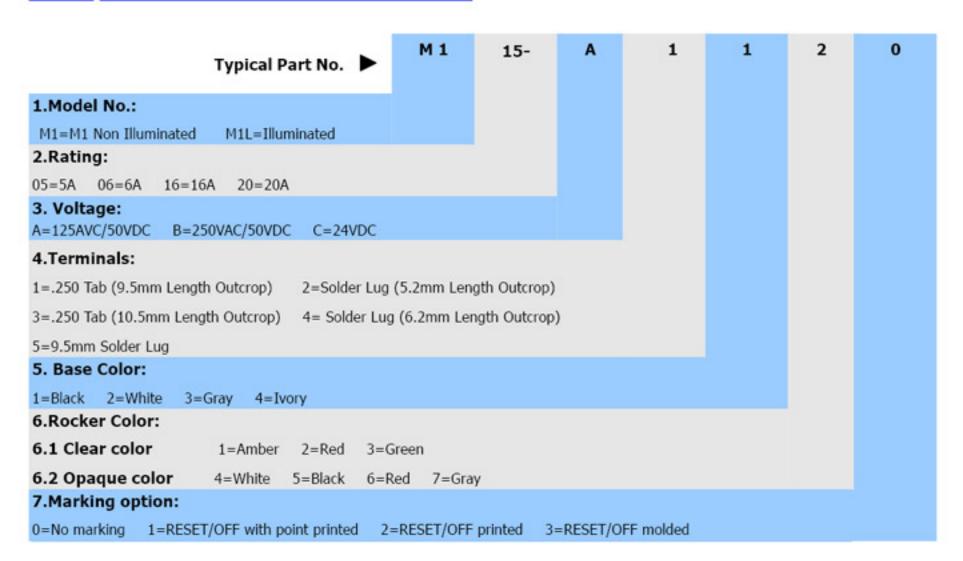


Recommended Panel Cutout



Panel thickness

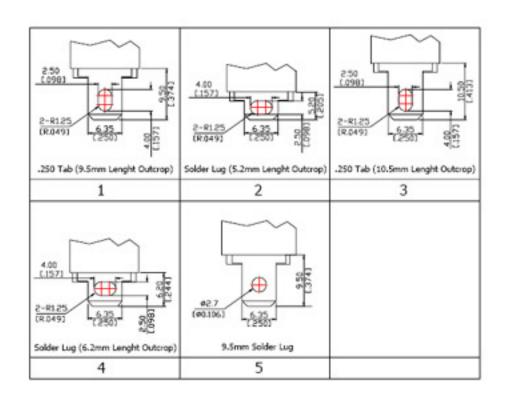
M1 series circuit breakers accommodate panel thickness from 0.03 in. to 0.118 in.(0.75mm-3.0mm)



Ordering Note:

Some option illustrated below are not listed in the "Ordering Information" chart above. Options denoted by "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. Due to ongoing technological advances, consult factory for certification specifics.

Terminal Types:



Marking Options:

