



#### **Features**

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

5 to 20 amp ratings.

Provides circuit protection and power switching in a single unit.

Available with optional indicator lamp.

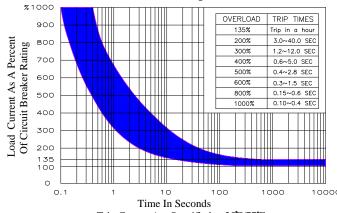
Snaps into the same cutout as many common power switches.

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	≥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℃

## 5~20A Trip Curves



Trip Curves Are Specified at 25°C/77°F

## Ambient Compensation Table

Ambient	Rating Correction Factor			
Temperature	5 (4.14.1.1	7-20A Models		
In °C	5-6A Models			
10	.80	.80		
20	.90	.90		
25	1.00	1.00		
30	1.10	1.05		
40	1.25	1.15		
50	1.615	1.25		

The unit is calibrated for an ambient temperature of  $+25^{\circ}\text{C}$ . 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 Cycling Thermal Circuit Breaker/ Power Switch With Option Indicator Lamp Multiple Patent

#### Approval

Approval & File No.	Rated current range	Rated voltage		
UL\CUL E95802	5-20 A	125/250VAC 50VDC		
CCC 200301030709785	58 5-20 A	125/250VAC		
VDE 40015302	5-20 A	250VAC		

### Typical Resistance vs. Current Rating @ +25℃

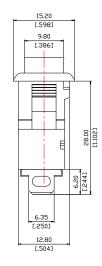
31					
	Current	t Typical Current		Typical	
	Rating	Rating Resistance		Resistance	
	in Amps	in Ohms	in Amps	in Ohms	
	5.0	0.05	13.0	0.020	
	7.0	0.036	15.0	0.017	
	10.0	0.025	20.0	0.0125	
	12.0	0.022			

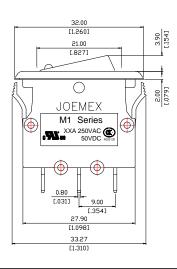
### Mechanical/Environmental Data

Operating Temperature Range: 0  $^{\circ}$ C to +50  $^{\circ}$ C.

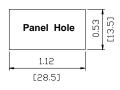
Termination: 250"(6.35 mm) quick connects, solder terminals Mounting: Snaps into 1.122" x. 531" (28.5 X 13.5) panel cutout .

#### **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 Information

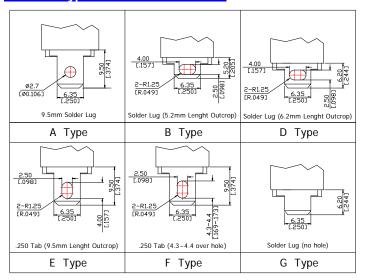
Typical Part No.	M 1	15-	Α	1	
Model No.:					
M1=M1 Non Illuminated M1L=Illuminated					
.Rating:					
5=5A 06=6A 16=16A 20=20A					
. Voltage: =125AVC/50VDC B=250VAC/50VDC C=24VDC					
.Terminals:					
=1#2# terminal is Solder Lug (9.5mm Length Outcro	pp), 3# termin	al is .250 Tab	(9.5mm		
Length Outcrop) 2=Solder Lug (5.2mm Length	th Outcrop)				
= Solder Lug (6.2mm Length Outcrop) 5=.250	7 Tab (9.5mm	Length Outc	rop)		
=.250 Tab (4.3~4.4 oval hole) 7=Sold	er Lug (no ho	le)			
. Base Color:					
=Black 2=White Base 3=灰白 Base 4=深灰 E	Base 5=灰	Base(432C)+	Black cove	er	
=灰 Base(432C)+White cover (G020/W005)	B=黑色弧形	面板本體			
=灰 Base(432C)+Black cover (G018/W005)	E=灰不明本	體(G071)			
=灰色本體(G085) G=灰	<b>医</b> 色弧形刻字本	:體(G084)			
.Rocker Color:					
.1 Clear color					
=Red 3=Green 4=transparent milky =bright yellow G=colorless transparent	8=Ming Gree H=orange	9=cl	ear blue	D=mau	ıre
.2 Opaque color	dank ana.	II/422	() V		
=Black 6=Red 7=Gray E=blue S=c '=gray unknown curved superstrure(G045)	dark gray	U=gray(432	C) V=	gray unknov	vn(C
.3 Two-color					
=Black With Red T=Black With Green					
.Marking option:					
ype I (Printing) Type II ( molded)					
.Note:					

## 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.

Website:http://www.joemex.com E-mail:Sales@joemexcn.com Phone:86-769-85562003 Fax:86-769-85562013

# Terminal Types:



## Marking Options:

代字	定義	備注			
	Type I(Printing)				
0					
1	HESET OFF				
2	HESET OFF				
Α	日本   日本   日本   日本   日本   日本   日本   日本				
В	RESET				
4	OFF •				
5	EST O FO				
6	HESEI CONTRACTOR OF THE CONTRA				
7	8•				
8					
9					
	Type II(Molded)				
3	RESET				