

Miniature Circuit Breakers Type GMB63



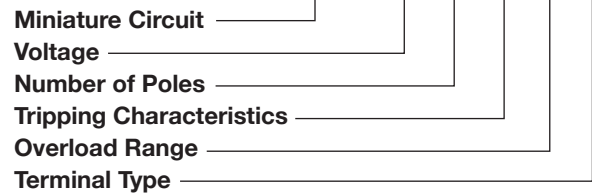
- Protection of circuits against short circuit and overload conditions
- UL489 branch circuit protection
- 1, 2, 3 pole arrangements
- 22 amperage sizes up to 63Amps
- Icn of 10kA
- Bimetallic element for small overloads
- Magnetic element for short circuit protection
- 240VAC and 480 Y / 277VAC versions
- Lug or screw terminals

Product Description

Competitive line of UL 489 in 1, 2 and 3 pole configurations, with amperage rating up to 63A. application where supplementary or branch circuit protection is required. GMB circuit breakers are available

Ordering Key

GMB63 H 1P C 20 R



Selection Guide (Refer to page 2 for list of valid part numbers)

MCB	Voltage	Number of Poles	Tripping Characteristics	Overload Range	Terminal Type
GMB63 Family	Blank- 240V H - 480Y/277V	1P - 1 pole 2P - 2 pole 3P - 3 pole	C - C curve (standard)	0.5A, 1A, 1.6A, 2A 3A, 4A, 5A, 6A, 8A 10A, 13A, 15A, 16A, 20A, 25A, 30A, 32A, 35A, 40A, 50A, 60A, 63A	Blank - lug (standard) R - ring

Selection Guide

240VAC; 60/125VDC 10kA, C curve

Amperage	Lug Terminal			Ring Terminal		
	1 Pole	2 Pole	3 Pole	1 Pole	2 Pole	3 Pole
0.5	GMB631PC0.5	GMB632PC0.5	GMB633PC0.5	GMB631PC0.5R	GMB632PC0.5R	GMB633PC0.5R
1	GMB631PC1	GMB632PC1	GMB633PC1	GMB631PC1R	GMB632PC1R	GMB633PC1R
1.6	GMB631PC1.6	GMB632PC1.6	GMB633PC1.6	GMB631PC1.6R	GMB632PC1.6R	GMB633PC1.6R
2	GMB631PC2	GMB632PC2	GMB633PC2	GMB631PC2R	GMB632PC2R	GMB633PC2R
3	GMB631PC3	GMB632PC3	GMB633PC3	GMB631PC3R	GMB632PC3R	GMB633PC3R
4	GMB631PC4	GMB632PC4	GMB633PC4	GMB631PC4R	GMB632PC4R	GMB633PC4R
5	GMB631PC5	GMB632PC5	GMB633PC5	GMB631PC5R	GMB632PC5R	GMB633PC5R
6	GMB631PC6	GMB632PC6	GMB633PC6	GMB631PC6R	GMB632PC6R	GMB633PC6R
8	GMB631PC8	GMB632PC8	GMB633PC8	GMB631PC8R	GMB632PC8R	GMB633PC8R
10	GMB631PC10	GMB632PC10	GMB633PC10	GMB631PC10R	GMB632PC10R	GMB633PC10R
13	GMB631PC13	GMB632PC13	GMB633PC13	GMB631PC13R	GMB632PC13R	GMB633PC13R
15	GMB631PC15	GMB632PC15	GMB633PC15	GMB631PC15R	GMB632PC15R	GMB633PC15R
16	GMB631PC16	GMB632PC16	GMB633PC16	GMB631PC16R	GMB632PC16R	GMB633PC16R
20	GMB631PC20	GMB632PC20	GMB633PC20	GMB631PC20R	GMB632PC20R	GMB633PC20R
25	GMB631PC25	GMB632PC25	GMB633PC25	GMB631PC25R	GMB632PC25R	GMB633PC25R
30	GMB631PC30	GMB632PC30	GMB633PC30	GMB631PC30R	GMB632PC30R	GMB633PC30R
32	GMB631PC32	GMB632PC32	GMB633PC32	GMB631PC32R	GMB632PC32R	GMB633PC32R
35	GMB631PC35	GMB632PC35	GMB633PC35	GMB631PC35R	GMB632PC35R	GMB633PC35R
40	GMB631PC40	GMB632PC40	GMB633PC40	GMB631PC40R	GMB632PC40R	GMB633PC40R
50	GMB631PC50	GMB632PC50	GMB633PC50	-	-	-
60	GMB631PC60	GMB632PC60	GMB633PC60	-	-	-
63	GMB631PC63	GMB632PC63	GMB633PC63	-	-	-

480Y/277VAC 10kA, C curve

Amperage	Lug Terminal			Ring Terminal		
	1 Pole	2 Pole	3 Pole	1 Pole	2 Pole	3 Pole
0.5	GMB63H1PC0.5	GMB63H2PC0.5	GMB63H3PC0.5	GMB63H1PC0.5R	GMB63H2PC0.5R	GMB63H3PC0.5R
1	GMB63H1PC1	GMB63H2PC1	GMB63H3PC1	GMB63H1PC1R	GMB63H2PC1R	GMB63H3PC1R
1.6	GMB63H1PC1.6	GMB63H2PC1.6	GMB63H3PC1.6	GMB63H1PC1.6R	GMB63H2PC1.6R	GMB63H3PC1.6R
2	GMB63H1PC2	GMB63H2PC2	GMB63H3PC2	GMB63H1PC2R	GMB63H2PC2R	GMB63H3PC2R
3	GMB63H1PC3	GMB63H2PC3	GMB63H3PC3	GMB63H1PC3R	GMB63H2PC3R	GMB63H3PC3R
4	GMB63H1PC4	GMB63H2PC4	GMB63H3PC4	GMB63H1PC4R	GMB63H2PC4R	GMB63H3PC4R
5	GMB63H1PC5	GMB63H2PC5	GMB63H3PC5	GMB63H1PC5R	GMB63H2PC5R	GMB63H3PC5R
6	GMB63H1PC6	GMB63H2PC6	GMB63H3PC6	GMB63H1PC6R	GMB63H2PC6R	GMB63H3PC6R
8	GMB63H1PC8	GMB63H2PC8	GMB63H3PC8	GMB63H1PC8R	GMB63H2PC8R	GMB63H3PC8R
10	GMB63H1PC10	GMB63H2PC10	GMB63H3PC10	GMB63H1PC10R	GMB63H2PC10R	GMB63H3PC10R
13	GMB63H1PC13	GMB63H2PC13	GMB63H3PC13	GMB63H1PC13R	GMB63H2PC13R	GMB63H3PC13R
15	GMB63H1PC15	GMB63H2PC15	GMB63H3PC15	GMB63H1PC15R	GMB63H2PC15R	GMB63H3PC15R
16	GMB63H1PC16	GMB63H2PC16	GMB63H3PC16	GMB63H1PC16R	GMB63H2PC16R	GMB63H3PC16R
20	GMB63H1PC20	GMB63H2PC20	GMB63H3PC20	GMB63H1PC20R	GMB63H2PC20R	GMB63H3PC20R

Part numbers in bold font indicate stock code A items.

All other part numbers are stock code D.

Electrical Specifications

	GMB63_			GMB63H		
	1 Pole	2 Pole	3 Pole	1 Pole	2 Pole	3 Pole
Standards	UL489 / CSA C22.2 No. 5 / IEC 60947-2					
Rated Voltage	240VAC, 60/125VDC			480Y/277VAC		
Rated Frequency	50/60 HZ					
Rated Current	with lug terminal	0.5 ~ 63A			0.5 ~ 20A	
	with ring terminal	0.5 ~ 40A			0.5 ~ 20A	
Rated Insulation Voltage (V)	500					
Rated Impulse Withstand Voltage (kV)	6					
Instantaneous Tripping Type	C (B & D) upon request					
Interruption Rating (kA)	120 Vac	10	-	-	10	-
	240 Vac	10	10	10	10	10
	277 Vac	-	-	-	10	-
	480Y/277Vac	-	-	-	-	10
	60 Vdc	10	10	-	-	-
	125 Vdc	-	10	-	-	-

Mechanical Specifications

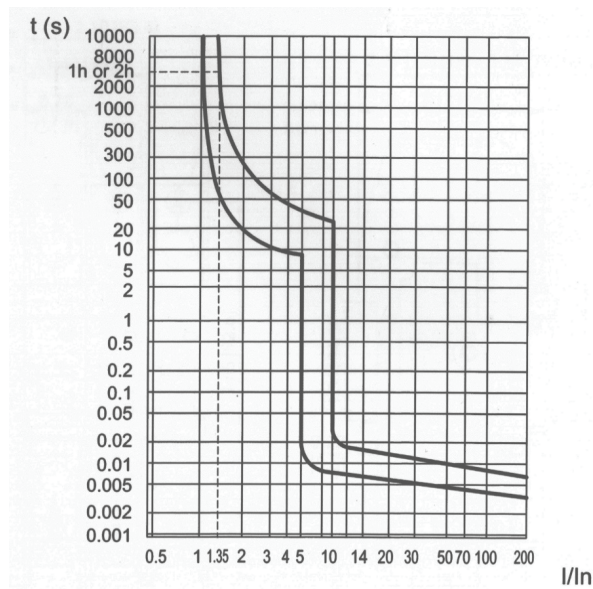
	GMB63_			GMB63H		
	1 Pole	2 Pole	3 Pole	1 Pole	2 Pole	3 Pole
Inverse Time-Delay Over Current Release Type	Thermal-magnetic					
Service Life	Electrical	6,000 cycles				
	Mechanical	10,000 cycles				
Protection Degree	IP20					
Wire	Single wire	14~4 AWG				
	Two wires	First wire 14~6 AWG, second wire 14~10 AWG				
Torque	31 lb-in (3.5 N-m)					

Environmental Specifications

	GMB63_			GMB63H		
	1 Pole	2 Pole	3 Pole	1 Pole	2 Pole	3 Pole
Temperature Range	Tested	23F to 104F (-5C to +40C)				
	Working	-13F to 131F (-25C to +55C)				
Relative Humidity	At +20C	<90%				
	At +40C	<50%				
Pollution Degree	Class 3					
Over Voltage Category / Mounting	Class III / 35mm DIN rail					
Altitude	<2000m					

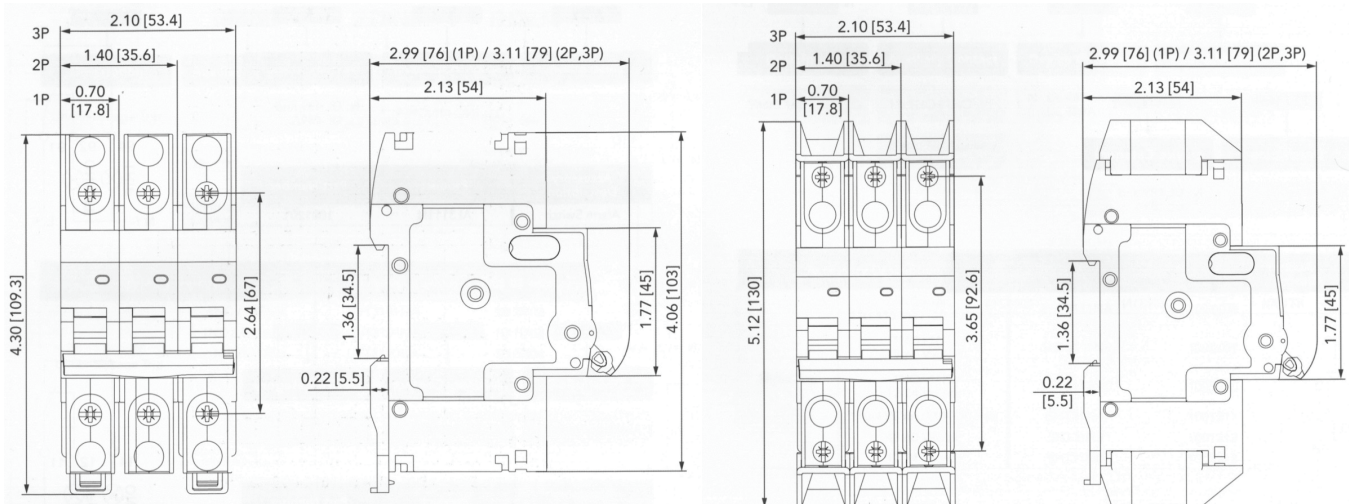
Curve Profile

C Curve
(5 ~ 10 In)



Dimensions

Lug Terminal
1P/2P/3P
Unit: in. [mm]



Agency Approvals and Conformance



UL Listed product, UL file number E472420
 Approved for branch circuit protection
 Approved for field wiring
 CE: conforms to requirements of IEC 60947-2 standard
 Environmental: RoHS