

### Applications:

Motor Control	Power Circuit	UPS
HVACR equipment		Power Conditioners
PLC I/O protection		Computers
Control Instrumentation		Power Supplies
Relays		Miscellaneous



### Features:

- UL489 Listed – branch circuit protective device
- UL1077 Recognized – supplemental protective device
- **UL File Number E**
- CE Certified
- 21 unique current rating configurations from 0.5A to 63A
- Single Pole, Double Pole and Three Pole available
- “B”, “C” and “D” trip curves offered
- Visible contact position indicator
- Current Limiting Thermal/Magnetic Trip
- Reverse feed capable
- 35mm DIN rail mounting
- Optional bus bar connected primary
- Touch safe terminals (IP20)
- 10kAIC at 277/480Y VAC
- 60VDC for single pole, 125VDC two pole wired in series
- Locking Device available
- Auxiliary and Alarm contacts available
- Shunt Trip and Undervoltage Release modules available

## Catalog Number Nomenclature

C M B 1 C 15 -/ 1

Product Type	UL Type	Poles	Trip	Amps	Code	Accessories
CDM -MCB	S- UL1077	1	B	0.5A	XY	-AX11 Auxiliary 1NO, 1NC
	B- UL489	2	C	1.0A	01	-AL11 Alarm 1NO, 1NC
		3	D	1.6A	XZ	-ST11 Shunt Trip 110V
				2A	02	-ST23 Shunt Trip 230V
				3A	03	-UV11 Undervoltage 110V
				4A	04	-UV23 Undervoltage 230V
				5A	05	-LK Lock Attachment
				6A	06	
				7A	07	25A 25
				8A	08	30A 30
				10A	10	32A 32
				13A	13	40A 40
				15A	15	50A 50
				16A	16	60A 60
				20A	20	63A 63

**Examples:**

<i>UL1077 "B" 1P</i>	<i>UL1077 "C" 2P</i>	<i>UL1077 "D" 3P</i>
<i>CGMS1BXY</i>	<i>CGMS2C20</i>	<i>CGMS3D10</i>
<i>CGMS1B01</i>	<i>CGMS2C30</i>	<i>CGMS3D40</i>
<i>CGMS3BXZ</i>	<i>CGMS2C60</i>	<i>CGMS3D50</i>
<i>UL489 "B" 1P</i>	<i>UL489 "C" 2P</i>	<i>UL489 "D" 3P</i>
<i>CGMB1B02</i>	<i>CGMB2C10</i>	<i>CGMB3D20</i>
<i>CGMB1B05</i>	<i>CGMB2C15</i>	<i>CGMB3D30</i>
<i>CGMB3B08</i>	<i>CGMB2C20</i>	<i>CGMB3D60</i>

<b>UL recognized MCB accessories</b>			
Name of the product	Cat Number	Ratings	Pole Configuration
MCB - 2 Pole side Mounted Auxiliary. 1 No /1 NC	<b>CGA-AX11</b>	6A @ 240V Ac	2 Pole (1 NO / 1 NC)
		1A @125V Dc	
		2A @ 48V Dc	
		6A @ 24V Dc	
MCB - Auxiliary with Alarm / signal, 2 Pole Side Mounted, 1 No /1 NC	<b>CGA-AL11</b>	3A @ 400V Ac	2 Pole (1 NO / 1 NC)
		6A @230V Ac	
MCB - Shunt Trip Module, Side Mounted, 110V 50/60Hz	<b>CGA-ST11</b>	110V Ac 50/60Hz	-
MCB - Shunt Trip Module, Side Mounted, 230V 50/60Hz	<b>CGA-AX23</b>	230V AC 50/60Hz	-
MCB - Undervoltage / Over Voltage Module Side Mounted, 110V 50/60Hz	<b>CGA-UV11</b>	110V AC 50/60Hz	-
MCB - Undervoltage / Over Voltage Module Side Mounted, 230V 50/60Hz	<b>CGA-UV11</b>	230V AC 50/60Hz	-
MCB - Lock-of Adapter	<b>CGA-LOCK</b>	-	-



# Electrical and Mechanical Specifications

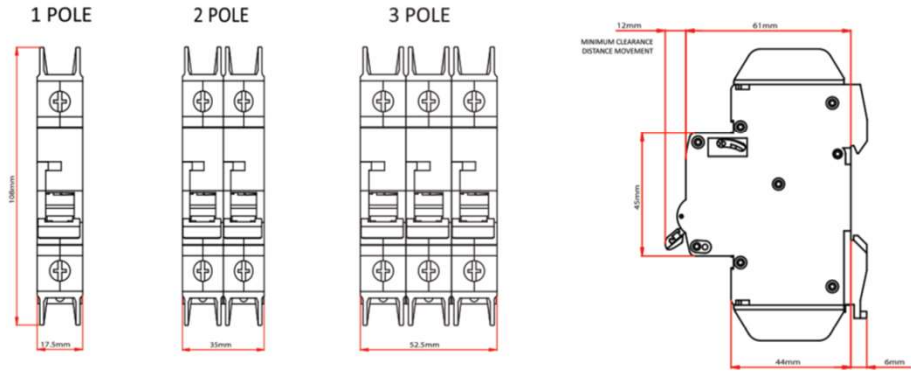
	Units	1 Pole	2 Pole	3 Pole
<b>ELECTRICAL GENERAL</b>				
Rated Operating Current	A	0.5 ~63A		
Rated Operating Frequency	Hz	50 / 60		
Electrical Life	Ops	6,000		
Line & Load Wiring		Suitable for reverse feed		
<b>ELECTRICAL UL/CSA APPLICATIONS</b>				
Conformity Standards		UL 489, CSA C22.2 No.235		
AC Rated Operating Voltage	VAC	277	480Y / 277	480Y / 277
DC Rated Operating Voltage (wired in series)	VDC	60	125	-
<b>MAXIMUM SHORT CIRCUIT RATING</b>				
@ 120 VAC	kA	10		
@ 240 VAC	kA	10		
@ 277 VAC	kA	10		
@ 480Y / 277 VAC	kA	10		
@ 48 VDC	kA	10	10	-
@ 96VDC (wired in series)	kA	-	10	-
<b>ELECTRICAL IEC APPLICATIONS</b>				
Conformity to Standards		IEC 60947 - 2		
<b>ULTIMATE SHORT CIRCUIT BREAKING</b>				
@ 240 VAC	kA	10		
@ 415 VAC	kA	10		
<b>ULTIMATE SHORT CIRCUIT BREAKING CAPACITY (Ics)</b>				
@ 240 VAC	kA	10		
@ 415 VAC	kA	10		

	Units	1 Pole	2 Pole	3 Pole
<b>MECHANICAL</b>				
Mechanical Endurance	Ops.	20,000		
<b>ENVIRONMENTAL</b>				
Ambient Operating Temperature	°C / °F	-25 to 55 / -13 to 131		
Ambient Storage Temperature	°C / °F	-25 to 80 / -13 to 176		
Calibration Temperature	°C / °F	40 / 104		
Altitude	m / ft.	2,000 / 6,562		
Shock	G	15		
<b>CONSTRUCTION</b>				
<b>INGRESS PROTECTION</b>				
Line & Load Terminations	IP	20		
<b>WEIGHT</b>		0.125	0.25	0.50
	lbs	0.275	0.55	1.10
<b>CONDUCTOR SIZE</b>				
UL/CSA	AWG	1 x #18 ~ #3		
Solid, Stranded, Fine Stranded	mm2	1 x 0.82 ~ 26.7		
<b>TERMINAL WIRING CONNECTION</b>				
Wire Type		Copper wire only, 60 / 75°C		
<b>TERMINAL TORQUE</b>				
	Nm/lb-in	2.5 / 22.2		

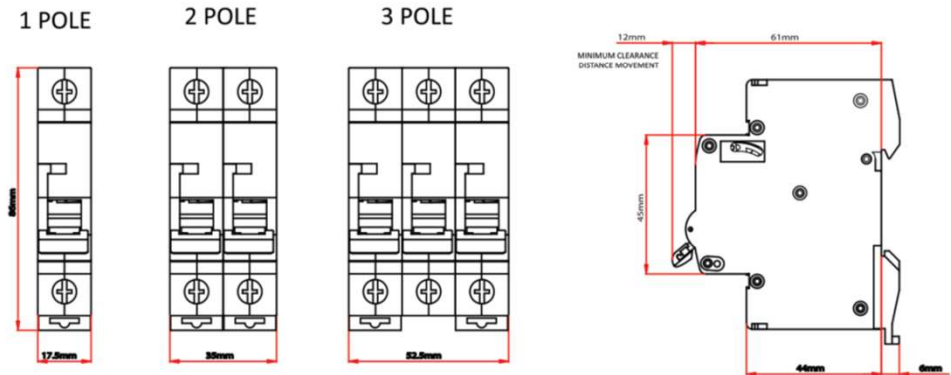


# DIMENSIONAL DRAWINGS

## UL 489 Dimensional Drawing



## UL 1077 SUPPLEMENTARY PROTECTOR DIMENSION



# TRIP CHARACTERISTICS

