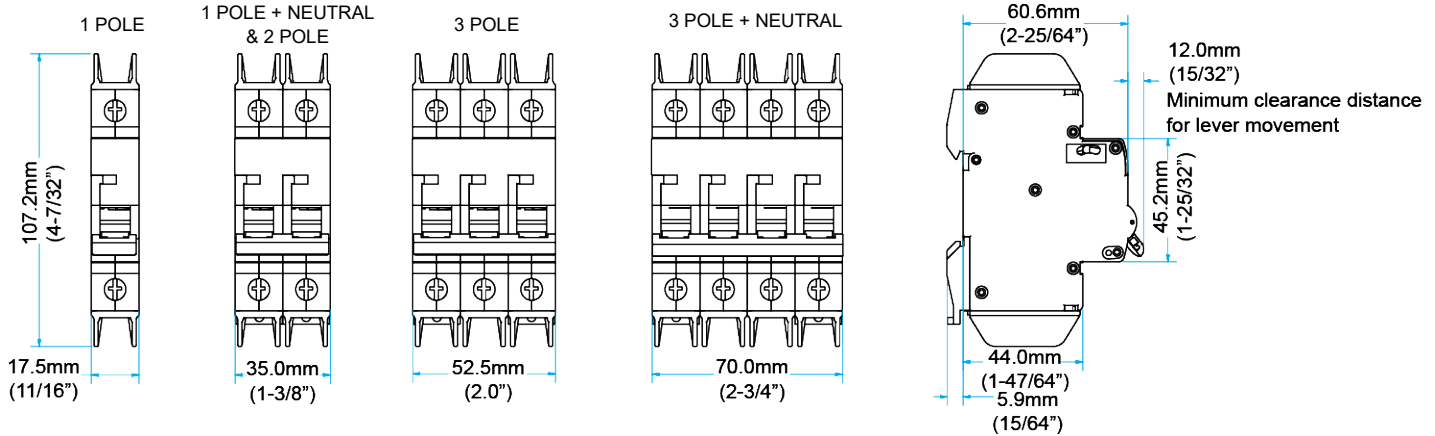


MINIATURE CIRCUIT BREAKERS

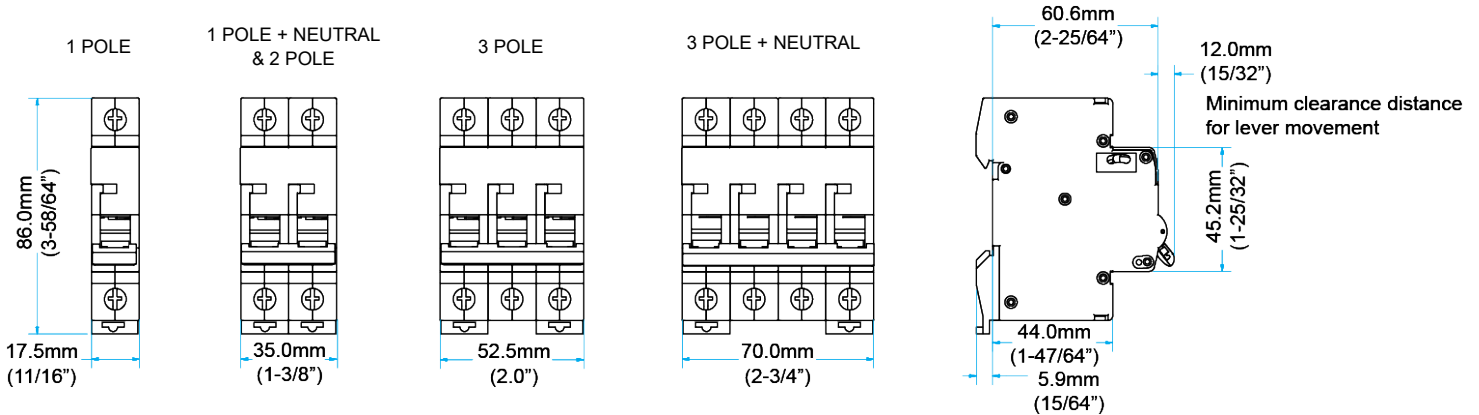
Installation Instructions

PRODUCT OVERALL DIMENSIONS

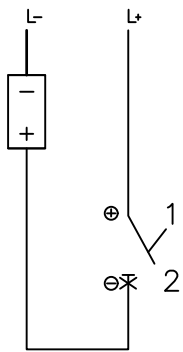
UL489



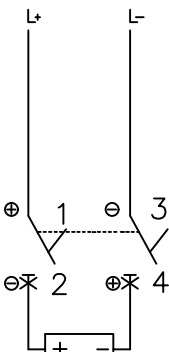
UL1077



DC MCB WIRING CONFIGURATION



1 POLE ONLY

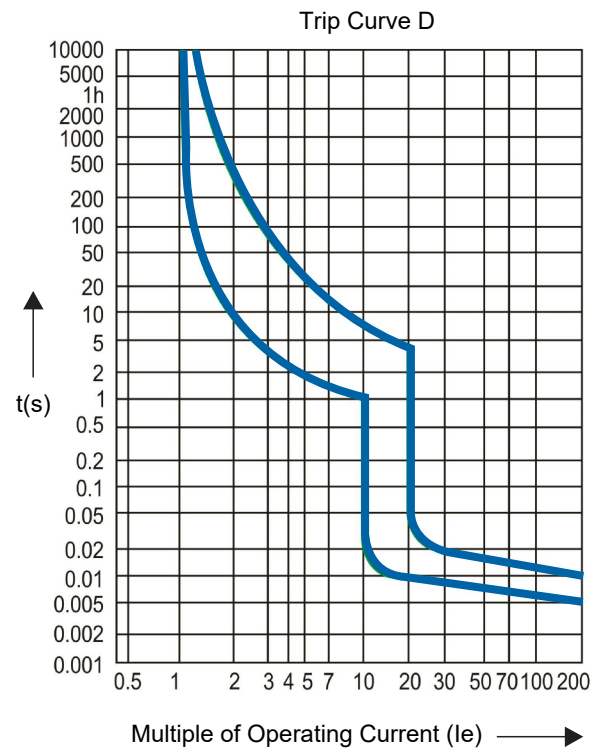
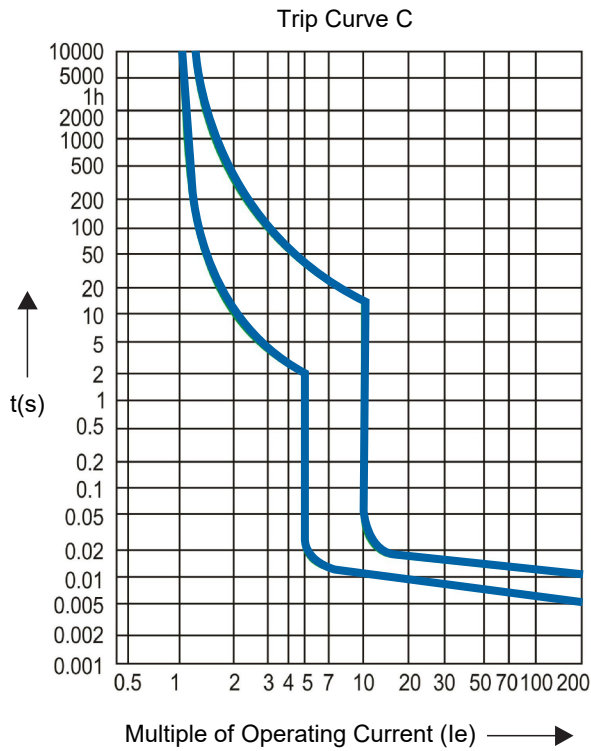


2 POLE ONLY

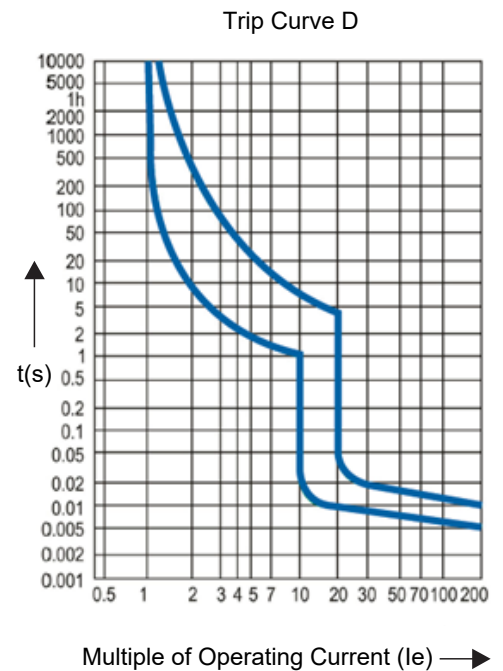
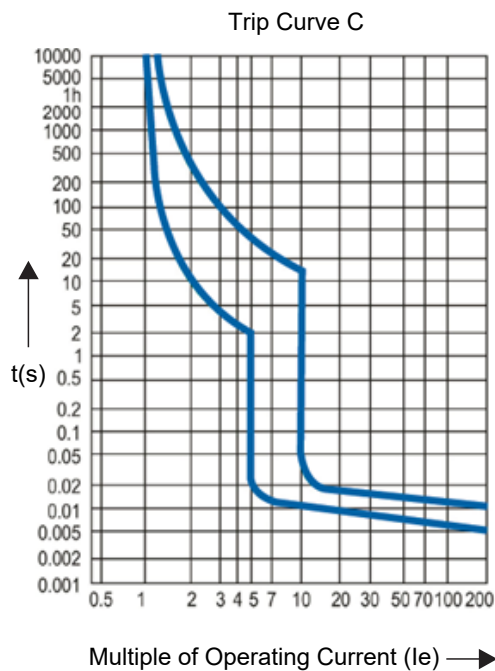
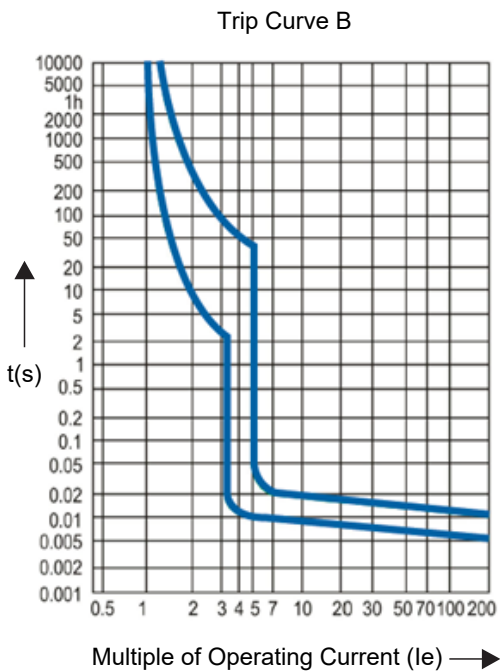
Poles		1	1+N	2	3	3+N
Short Circuit Current Protection						
Electrical UL/CSA APPLICATIONS						
Conformity to Standards		UL 489, CSA C22.2 No. 5/ UL 1077, CSA C22.2 No. 235				
AC Rated Operating Voltage	V	277		480Y/277		
DC Rated Operating Voltage	V	60*	—	125* (wired in series)	—	—
MAXIMUM SHORT CIRCUIT RATING						
@120 VAC	kA	10				
@240 VAC	kA	10				
@277 VAC	kA	10				
@480Y/277 VAC	kA	10				
@60 VDC	kA	10	—	10	—	—
@125 VDC (wired in series)	kA	—	—	10	—	—
*NOTE: Refer to the product label for exact rating.						
Electrical IEC APPLICATIONS						
Conformity to Standards		IEC 60947-2, IEC 60898				
ULTIMATE SHORT CIRCUIT BREAKING CAPACITY (Icu)	kA					
@240 VAC	kA	10				
@415 VAC		10				
RATED SERVICE SHORT CIRCUIT BREAKING CAPACITY(Ics)	kA					
@240 VAC	kA	10				
@415 VAC		10				
Construction Specifications						
Wire Size		1 x #18-#3 AWG, 2 x #18-#10 AWG / 0.8mm ² - 26.70mm ²				
Terminal Torque		2.5 N-M / 22.2 lb-in				
Terminal Guard		IP20				
Operating Temperature		-25 to 70°C				

TRIP CHARACTERISTICS

UL 489 Branch Circuit Breakers (1100-CB)

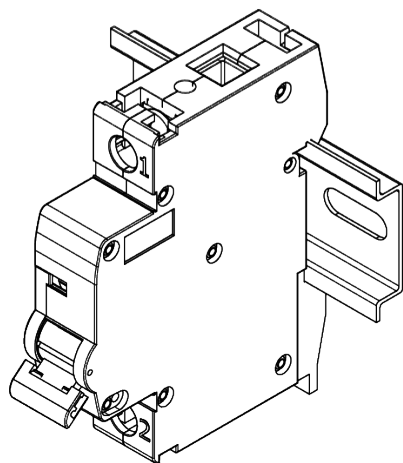


UL 1077 Supplementary Protectors (1100-SP)

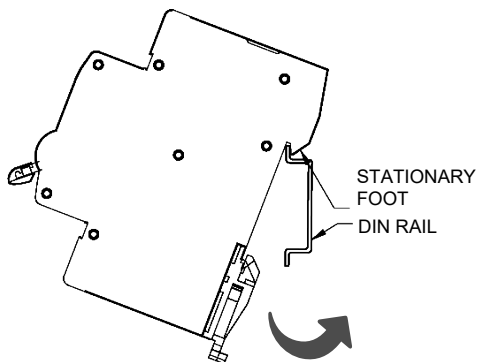


MOUNTING INSTRUCTIONS

How to Install?

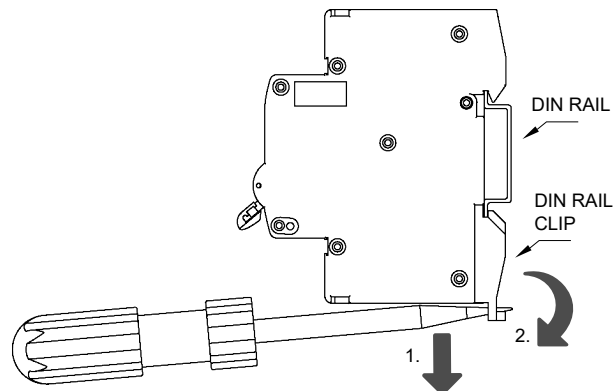


Snap on 35mm DIN rail



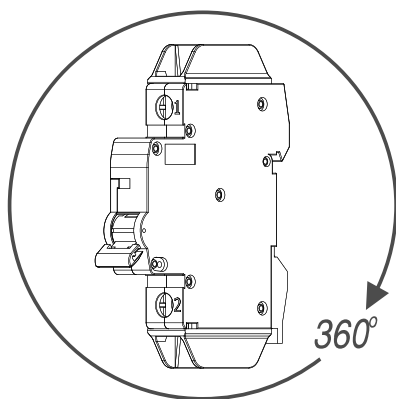
Latch stationary foot onto din rail, then rotate the circuit breaker until the bottom clip snaps into place.

How to Uninstall?

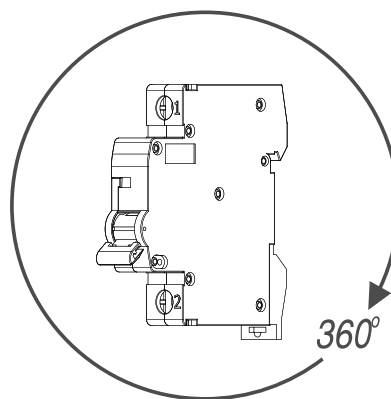


1. Insert the screwdriver in DIN rail clip slot of breaker and pull it downwards.
2. Move the breaker away in order to disengage it from DIN rail as shown above.

MOUNTING POSITION



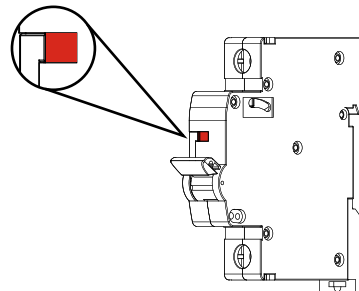
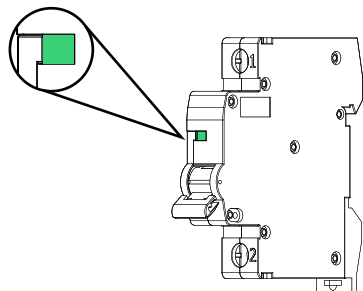
UL 489 CBs



UL 1077 SPs

TRIP INDICATION

Apart from handle movement, breaker status is clearly indicated via the color-coded status window. Green flag indicates open/ tripped breaker and Red is an indication of flowing current.



AMBIENT TEMPERATURE DERATING

1. The Series 1100 circuit breakers are rated in RMS amperes at 40°C ambient temperature.
2. If a circuit breaker is applied in a temperature below or above 40°C, then the following table should be used to derate the circuit breaker.

Influence of Ambient Temperature T on Load Carrying Capacity												
Device Current Rating (A) at 40°C	In (A) at various Temperatures											
	-20°C	-10°C	0°C	10°C	20°C	30°C	35°C	40°C	45°C	50°C	55°C	70°C
0.5	0.6	0.58	0.56	0.54	0.52	0.5	0.5	0.5	0.48	0.46	0.45	0.42
1	1.2	1.2	1.12	1.1	1	1	1	1	0.97	0.95	0.92	0.88
1.6	1.9	1.9	1.8	1.7	1.7	1.6	1.6	1.6	1.5	1.5	1.4	1.1
2	2.4	2.3	2.2	2.2	2.1	2	2	2	1.9	1.9	1.8	1.5
3	3.6	3.5	3.4	3.3	3.1	3	3	3	2.9	2.8	2.6	2.1
4	4.8	4.7	4.5	4.3	4.2	4	4	4	3.8	3.7	3.6	3.2
5	6.1	5.8	5.6	5.4	5.2	5	5	5	4.8	4.7	4.5	4
6	7.2	7	6.7	6.5	6.3	6	6	6	5.8	5.5	5.4	5
7	8.5	8.2	7.8	7.6	7.4	7	7	7	6.8	6.6	6.3	5.6
8	9.7	9.4	9	8.7	8.4	8	8	8	7.6	7.4	7.3	7
10	12	12	11	11	10.2	10	10	10	9.7	9.5	9.2	8.5
13	16	15	15	14	14	13	13	13	12.2	12	12	11.5
15	18	17	17	16	16	15	15	15	14.5	14.2	14	13.5
16	19.5	19	18	17	17	16	16	16	15.5	15	14.2	12.5
20	24.5	24	23	22	21	20	20	20	19.5	19	18.2	17
25	30	29	28	27	26.5	25	25	25	24.5	23.5	23	22
30	35	33.8	32.4	33.2	32.2	31	30	30	29	28.8	28.5	28
32	38.5	37.5	36.5	35	33.5	32	32	32	30.5	30	29	26
40	48.5	47.5	45.5	43.5	42	40	40	40	38	37	36	33
50	60.5	59.5	57	55	52.5	50	50	50	47	46	45	42
63	76	74	71.5	69	66	63	63	63	60	58	57	54



WARNING

- Disconnect power before proceeding with any work on this equipment.
- Installation and maintenance by technical personnel only.
- Install products in accordance with the operation instructions and the NEC (U.S. National Electrical Code) regulations or local applicable codes and standards.