

## HCB1U-60 MCB Specifications

### Product Features:

- ◇ UL 489 listed full line of miniature circuit breakers
- ◇ Circuit breaker mountable on standard 35mm DIN rails with optional feet for front-and-bottom mounting
- ◇ The voltage is 120/240Vac, which meets the standard 10kA breaking current
- ◇ Suitable for protection of main circuit devices
- ◇ Contact position indication (red or green)
- ◇ Switch can be locked in the ON or OFF position
- ◇ Main circuit or branch protection



### Certifications/Standards:

- ◇ UL 489



### Product application:

Power supply equipment: UPS power supply, switching power supply, inverter power supply

Household appliances: lighting appliances, socket appliances

HVAC equipment: heating, ventilation, air conditioning, refrigeration (internal/external)

Industrial control cabinet: automation equipment, machine tool equipment

Transportation system: signal control, communication network

Wire temperature rating of 60/75 C , Cu wire only

### Product Model:

	HC	B1U	-60	C	60	/2	MF
Company Code							
Model:	UL 1 Series MCB						
Frame size:	60						
Tripping Curve:	C: Type C Curves 8In±20%						
Rated current(A):	5:5A 10: 10A 15: 15A 20: 20A 25: 25A 30: 30A 35: 35A 40: 40A 45: 45A 50: 50A 60: 60A						
Pole	1: 1P 2: 2P 3: 3P						
Optional accessories, MF: mounting foot, SC: Safety cover, HS: Handle safety lock, HT: Hand Tie							

CHARACTERISTICPARAMETERS			
Pole	1 Pole	2 Poles	3 Poles
Applicable standards	UL 489		
Rated Current(A)	5~60		
Rated Voltage (V)	120/240Vac	240Vac	
Rated Frequency(Hz)	50/60		
Tripping Characteristics	C(6.4In~9.6In)		
Tripping Type	Thermal Magnetic		
Protection Degree	IP30		
Electrical Life	6000		
Mechanical Life	10000		
Rated Insulation Voltage (Vac)	1000		
Rated Impulse Withstand Voltage (kV)	6		
Rated Short-circuit Current(kA)	10		
Operating Temperature Range	-25℃ ~ +40℃ (Reference temperature30℃)		
Pollution Level	Class III		
Elevation ft (m)	Not exceeding 6,561 (2,000)		
Air Relative Humidity	20 ℃: ≤ 90%,40 ℃: ≤ 50%		
Conducting Wire(mm <sup>2</sup> )	14~4 ( 2 ~25 mm <sup>2</sup> 3.5N.m)		
Installation	35mm DIN Rail mounting, optional feet can be bottom mounted or surface mounted		

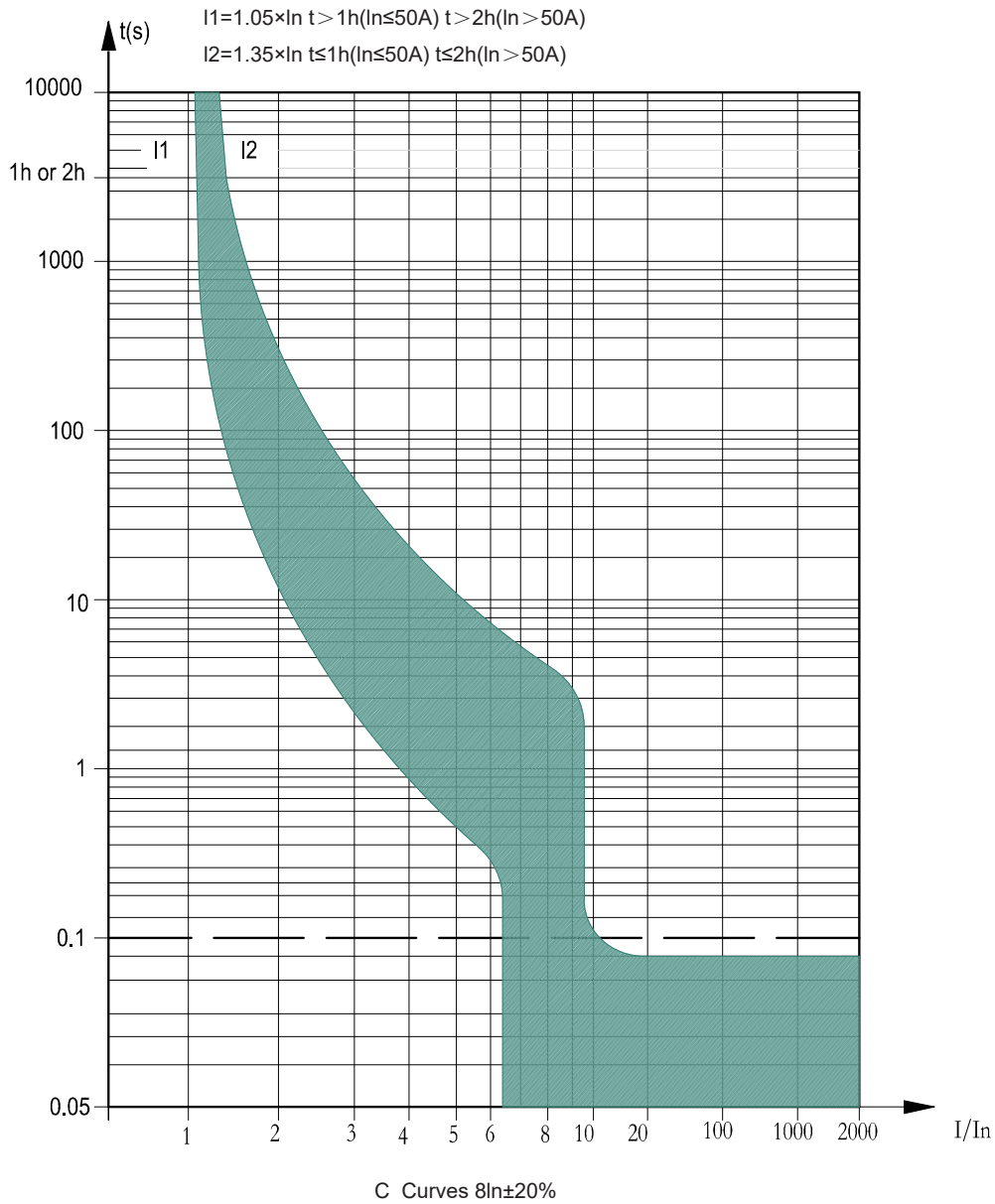
HCB1U-60	1Pole-120V/240Vac		2Pole-120V/240Vac		3Pole-240Vac	
Rated Current	Product	Part Number	Product	Part Number	Product	Part Number
5	HCB1U-60C5/1	225000150001	HCB1U-60C5/2	225000150012	HCB1U-60C5/3	225000150023
10	HCB1U-60C10/1	225000150002	HCB1U-60C10/2	225000150013	HCB1U-60C10/3	225000150024
15	HCB1U-60C15/1	225000150003	HCB1U-60C15/2	225000150014	HCB1U-60C15/3	225000150025
20	HCB1U-60C20/1	225000150004	HCB1U-60C20/2	225000150015	HCB1U-60C20/3	225000150026
25	HCB1U-60C25/1	225000150005	HCB1U-60C25/2	225000150016	HCB1U-60C25/3	225000150027
30	HCB1U-60C30/1	225000150006	HCB1U-60C30/2	225000150017	HCB1U-60C30/3	225000150028
35	HCB1U-60C35/1	225000150007	HCB1U-60C35/2	225000150018	HCB1U-60C35/3	225000150029
40	HCB1U-60C40/1	225000150008	HCB1U-60C40/2	225000150019	HCB1U-60C40/3	225000150030
45	HCB1U-60C45/1	225000150009	HCB1U-60C45/2	225000150020	HCB1U-60C45/3	225000150031
50	HCB1U-60C50/1	225000150010	HCB1U-60C50/2	225000150021	HCB1U-60C50/3	225000150032
60	HCB1U-60C60/1	225000150011	HCB1U-60C60/2	225000150022	HCB1U-60C60/3	225000150033

HCB1U-60	
SC (Safety Cover)	832500180001
HT (Hand Tie)	832500180002
MF (Mounting Foot)	832500180003
HS (Handle safety lock)	832500180004

Table (1) UL Interrupting Rating

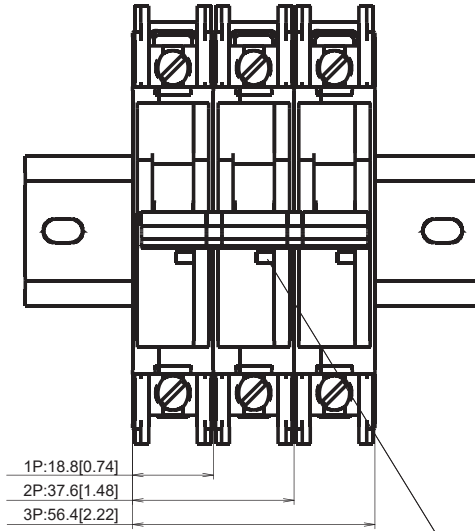
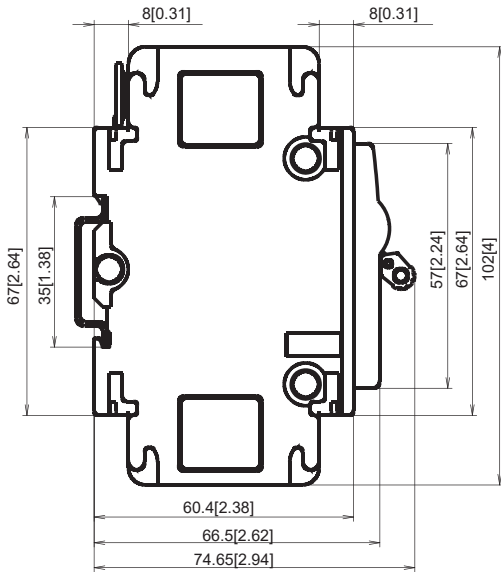
Circuit Breaker Type	No. of poles	Ampere Rating	AC Volts	
			120/240	240
HCB1U-60	1	5~60	10kA	NA
	2	5~60	10kA	NA
	3	5~60	NA	10kA

## AC TRIPPING CURVES



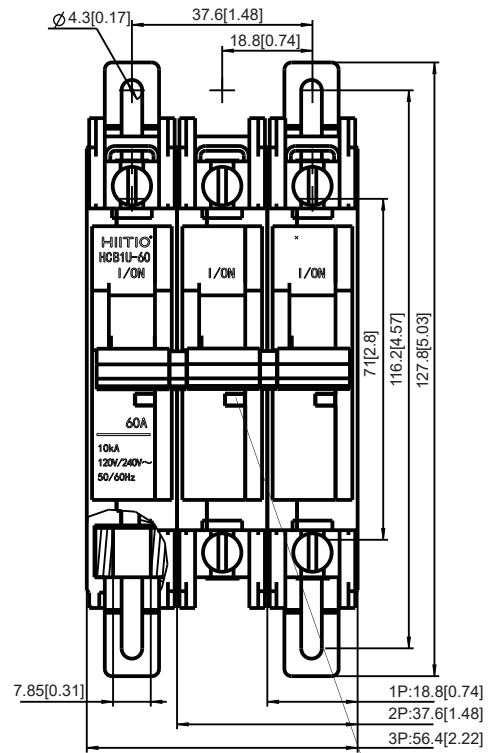
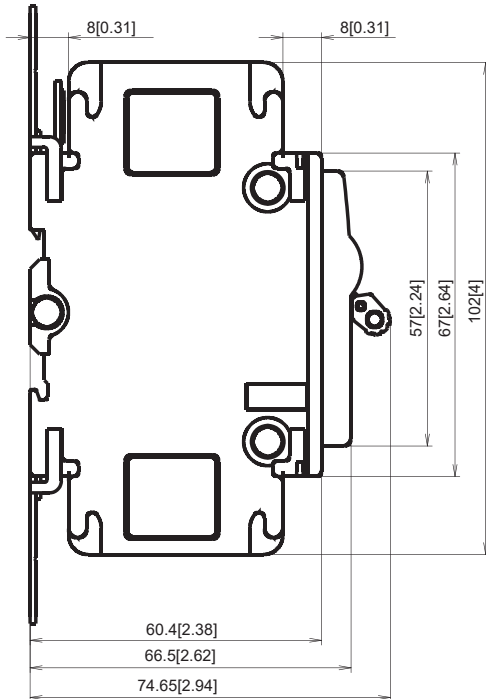
## Dimensions (mm[inch])

DIN rail mounting






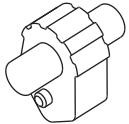
Visual switch window Open shows green, closed shows red.

## Mounting foot installation



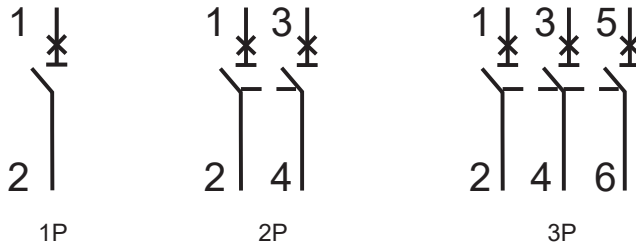
Visual switch window Open shows green, closed shows red.

## Optional accessories

Accessories	Picture	Description	Disposition
MF (Mounting feet)		Surface mount or base plate mount	1Pole (1 Pair), 2Pole (2 Pair), 3Pole (2 Pair)
HS (Handle safety lock)		Handle locking attachment secures handle in on or off position. Each one is optional	1 Set 1 Pcs
SC (Safety cover)		For circuit breaker inlet, one longsafety cover is required for each pole of circuit breaker. Optional: one pair per pole For example: HCB1U-60 / 3, optional 3 pairs	1Pole (1 Pair), 2Pole (2 Pair), 3Pole (3 Pair)
HT (Hand Tie)		Tie two circuit breakers together.	1 Set 1 Pcs

## Diagram

HCB1U-60



## Precautions

- The wiring must be reliable to prevent the circuit breaker from malfunctioning due to abnormal heating of the terminal or causing the terminal to burn.
- The nut wiring specification of this product is 14-4AWG, and the tightening torque during installation is 3.5 N.m
- For multi-pole products, the handle should be operated in the middle position, and the time should be less than 1s when the product is normally opened and closed.
- 1-pole product weight: 0.161Kg, 2-pole product weight: 0.314Kg; 3-pole product weight: 0.467Kg.