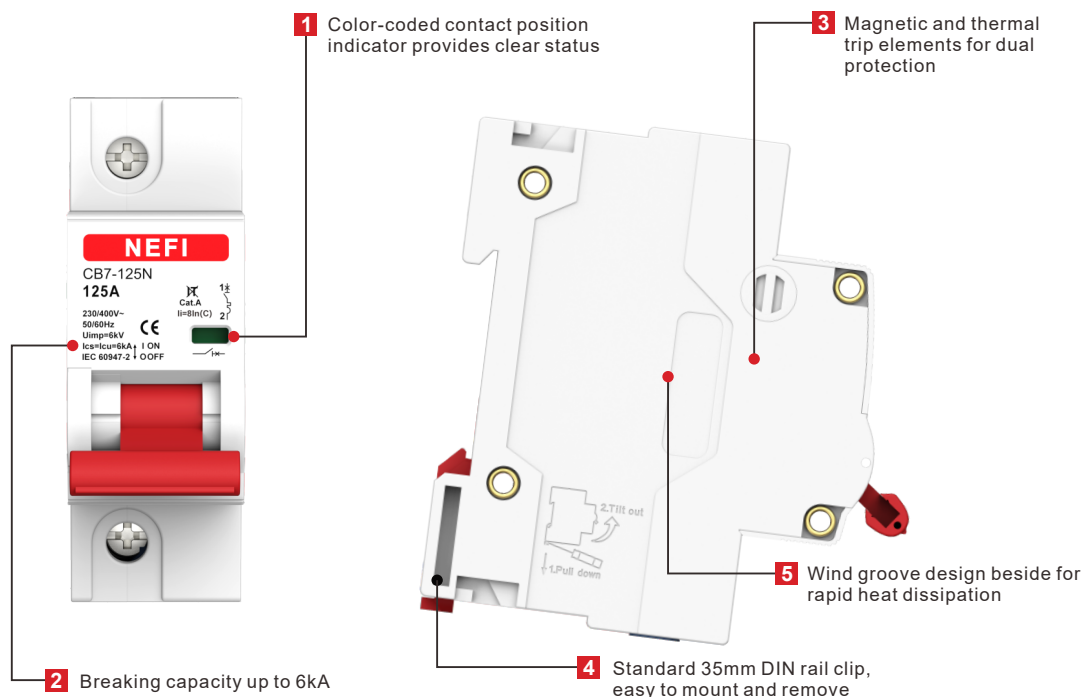


## CB7-125N Miniature Circuit Breaker



## General

CB7-125N miniature circuit breakers (MCB) are designed for AC 50/60Hz circuits with a rated voltage up to 400V and current range from 10A to 125A. They provide reliable protection against overload and short circuit conditions. Suitable for use in residential, commercial, industrial, and high-rise building applications.

Standards: IEC 60947-2, IEC 60898-1

### Operating Conditions

- Ambient air temperature  $-5^{\circ}\text{C} \sim +40^{\circ}\text{C}$  (with daily average  $\leq 35^{\circ}\text{C}$ )
- Altitude:  $\leq 2000\text{m}$ .
- Air conditions: At mounting site, relative humidity not exceed 50% at the maximum temperature of  $+40^{\circ}\text{C}$ .  
For the wettest month, the maximum relative humidity averaged shall be 90% while the lowest temperature averaged in that month is  $+20^{\circ}\text{C}$ , special measures should be taken to occurrence of condensation.
- The installation category is III.
- The circuit breaker shall be installed on DIN rail EN 60715(35mm), which shall meet the A1.1 TH 35-7.5 steel mounting rail requirements.
- Pollution grade: 3
- Mounting conditions: inclination between mounting plane and vertical plane not exceed  $\pm 5^{\circ}$ .
- The product should locate in the places where there are no obvious impact and shake.

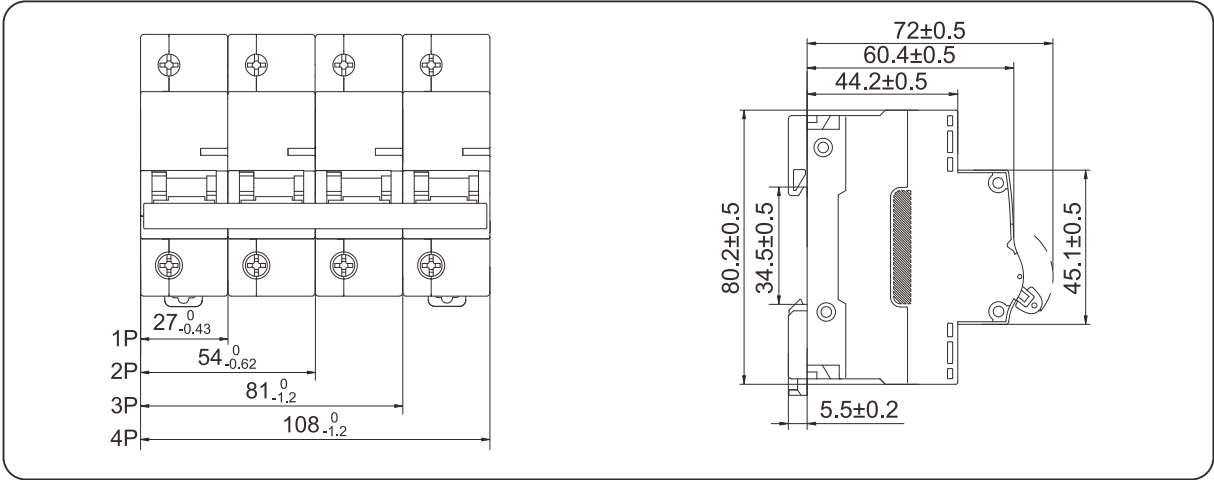
## Selection

CB7	-	125	N	1P	C	125
↓		↓	↓	↓	↓	↓
Model		Shell grade current	Breaking capacity	Number of poles	Tripping characteristics	Rated current
Miniature circuit breaker		125	6kA	1P 2P 3P 4P	C D	63, 80, 100, 125

Technical Parameters

Type	Standard		IEC/EN 60947-2
Electrical features	Rated current $I_n$	A	63, 80, 100, 125
	Poles	P	1, 2, 3, 4
	Rated voltage $U_e$	V	230/400
	Insulation voltage $U_i$	V	500
	Rated frequency	Hz	50/60
	Rated breaking capacity	A	6000
	Rated impulse withstand voltage(1.2/50) $U_{imp}$	V	6000
	Dielectric test voltage at ind. Freq. for 1min	kV	2.5
	Pollution degree		3
	Thermo-magnetic release characteristic		(C) $I_i=8I_n$ , (D) $I_i=12I_n$
Mechanical features	Electrical life	t	1500
	Mechanical life	t	10000
	Contact position indicator		Yes
	Protection degree		IP20
	Reference temperature for setting of thermal element		30
	Ambient temperature	°C	-5~+40(Special application please refer to temperature compensation correction)
	(with daily average $\leq 35^{\circ}\text{C}$ )		
	Storage temperature	°C	-25~+70

Dimensions and Installation Sizes(mm)



Tripping Characteristics

Type	Test current	Tripping time	Expected result
C,D	1.05 $I_n$	$t \leq 1h(I_n \leq 63A), t \leq 2h(I_n > 63A)$	Not tripping
C,D	1.3 $I_n$	$t \leq 1h(I_n \leq 63A), t \leq 2h(I_n > 63A)$	Tripping
C,D	2.55 $I_n$	$1s < t < 120s$	Tripping
C	$8I_n \times 80\%$	$t \leq 0.2s$	Not tripping
D	$12I_n \times 80\%$	$t \leq 0.2s$	Not tripping
C	$8I_n \times 120\%$	$t < 0.2s$	Tripping
D	$12I_n \times 120\%$	$t < 0.2s$	Tripping