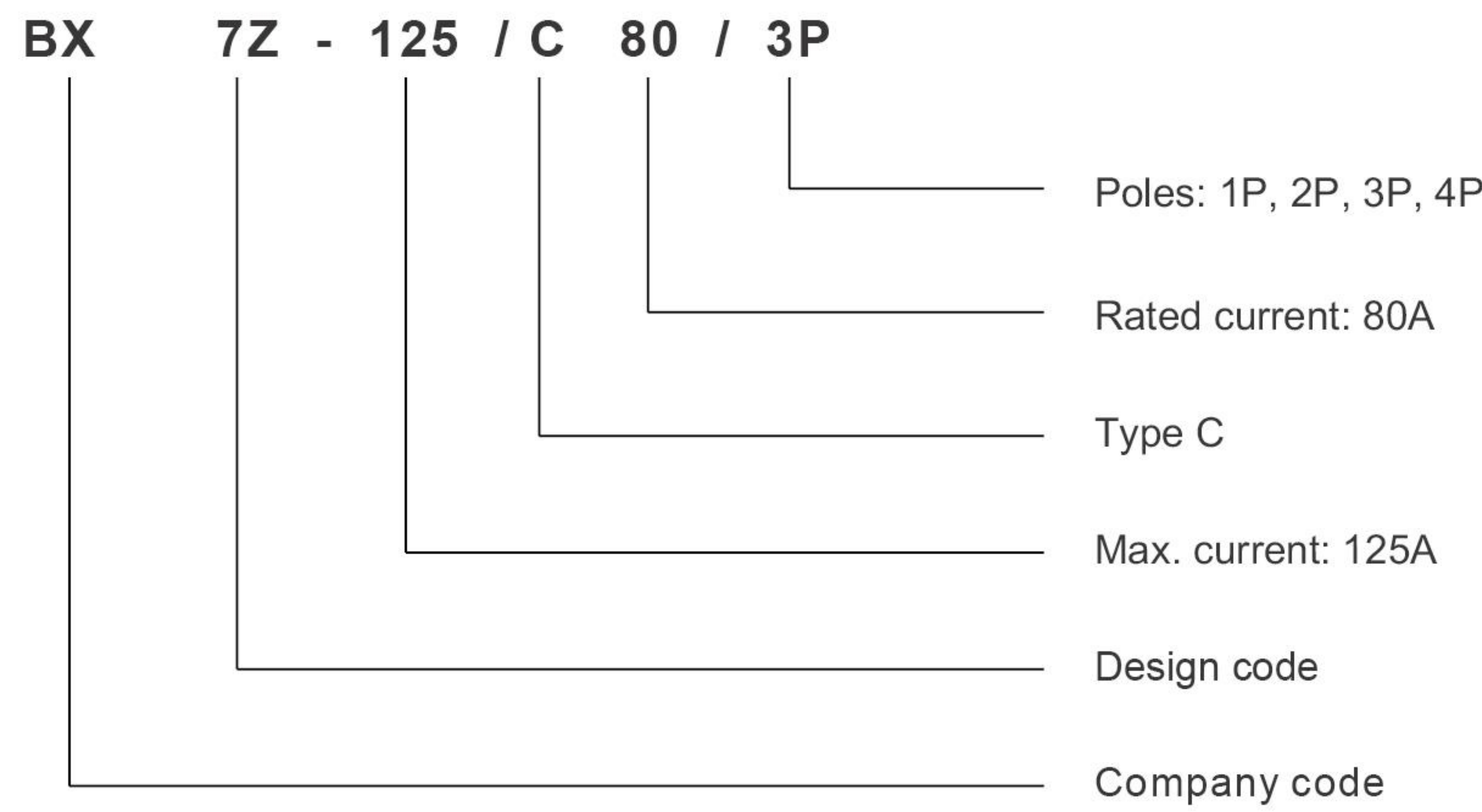




1.General

BX7Z-125 series DC mini Circuit Breaker is suitable in normal current 125A and below, directly-current rated voltage DC 250V-1000V, uses for carries on the overload, short-circuit protection to the current electrical power distribution system's facility and the electrical equipment, and used in professional electric power, posts and telecommunications transportation, industrial and mining establishments, and so on. It comply with IEC60947-2 standards.

2.Nomenclature

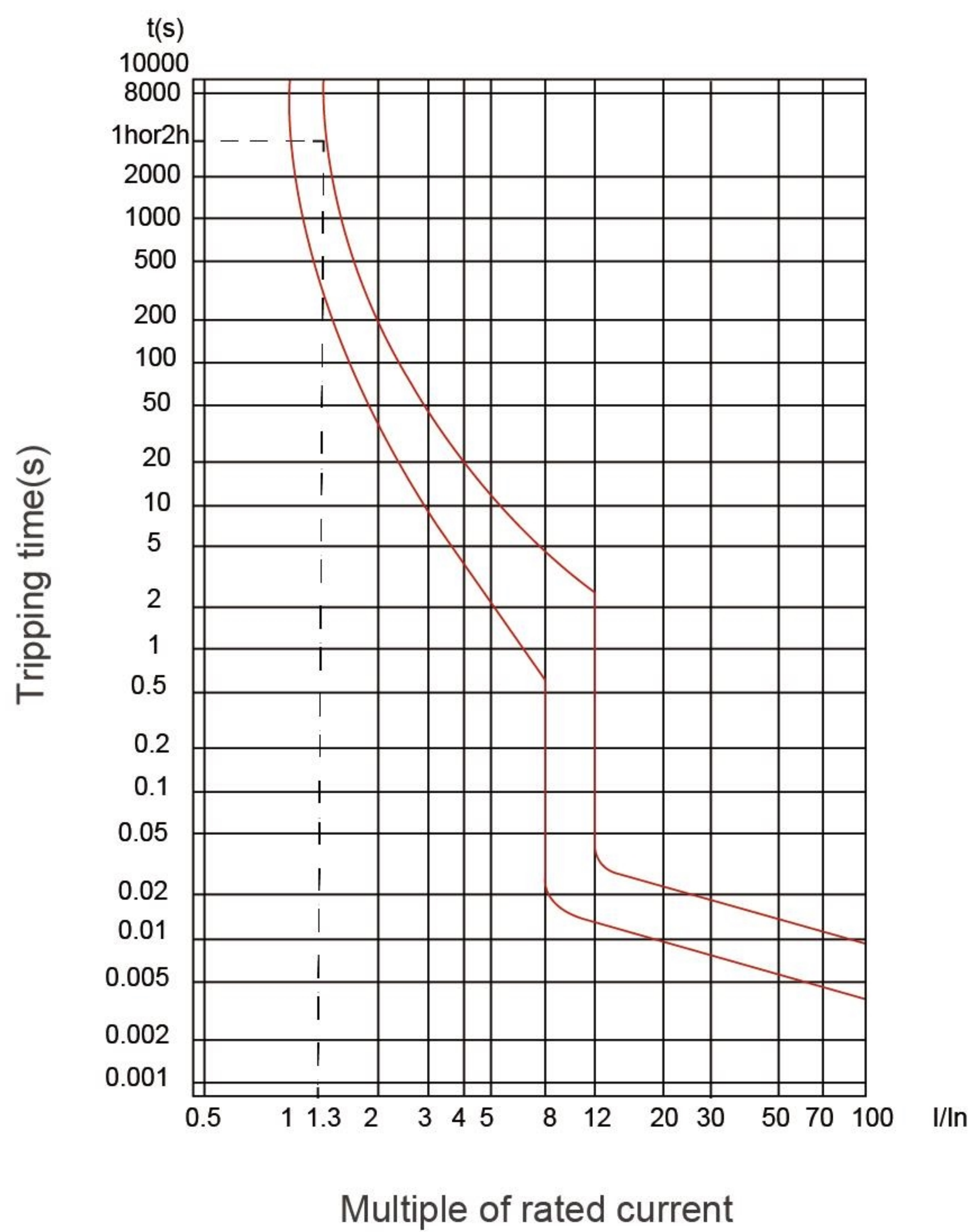


- Note:**
- 1. Air Temperature: Operating temperature range is -5°C to +40°C, and storage temperature range is -25°C to +75°C.
 - 2. Altitude: The installation location's altitude should not exceed 2000 meters. If it's above 2000 meters, the equipment's capacity should be derated.
 - 3. Atmospheric Conditions: The relative humidity of the air at the installation location should not exceed 50% at +40°C, and it should not exceed 90% at an average temperature of the most humid month (+20°C).
 - 4. Installation Category: Installation falls under Category II and III.
 - 5. Pollution Degree: Pollution degree is 2.
 - 6. Installation Method: Install using standard TH35-7.5 type mounting rail.
 - 7. Installation Conditions: The inclination between the installation surface and the vertical plane should not exceed 5°. The installation location should be free from significant impacts and vibrations.
 - 8. Wiring Method: Utilize screw clamping connections to ensure a fast and secure connection of conductors.

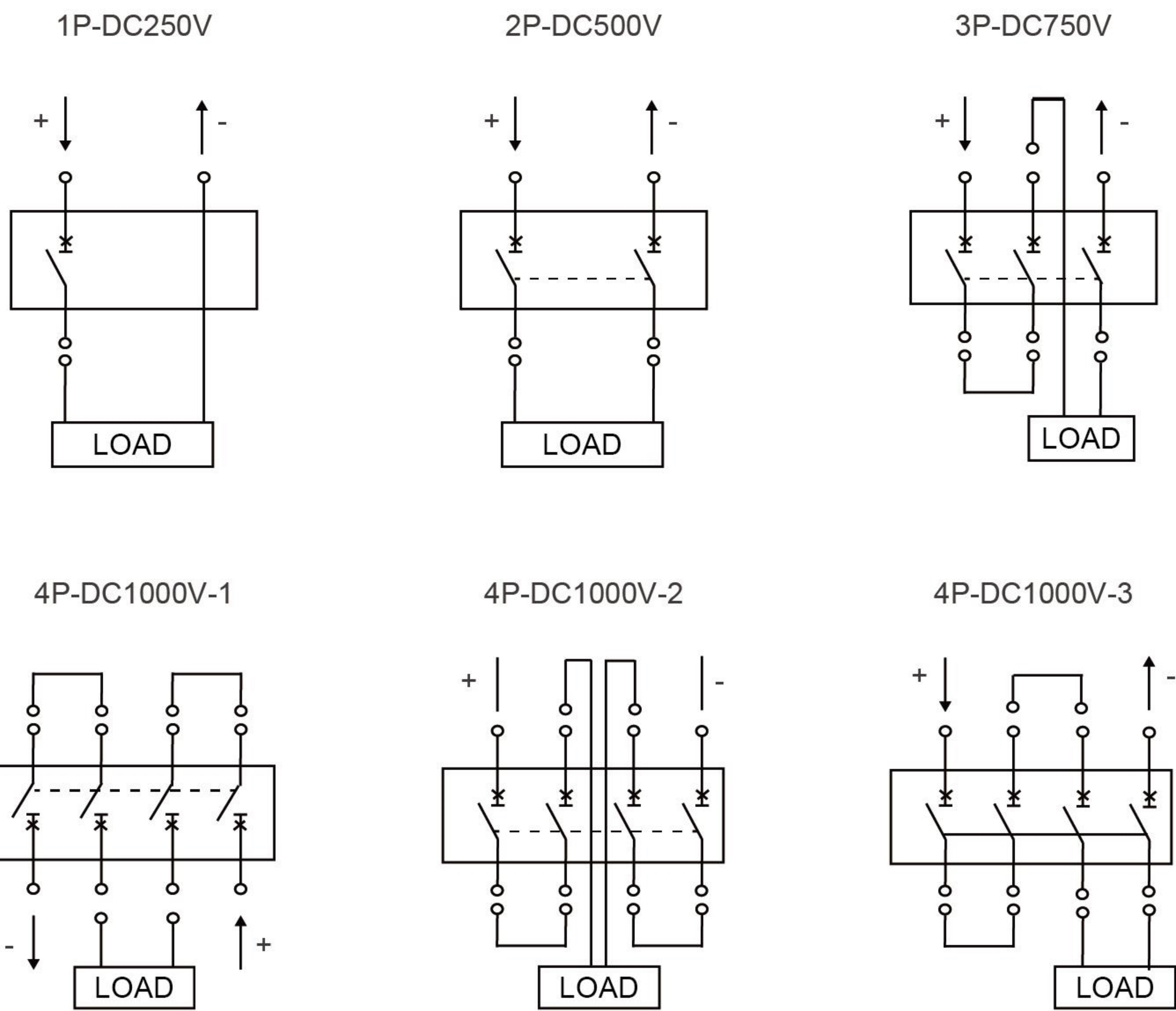
3.Specifications

Standard		IEC60947-2
Rated frame current	A	125
Rated insulation voltage Ui	V	DC 1000V
Rated impulse withstand Uimpvoltage Uimp	kV	6kV
Rated current		80, 100, 125
Rated voltage	V	DC250V(1P), DC500V(2P), DC750V(3P), DC1000V(4P)
Tripping curve		C: 10In±20%
Poles		1P, 2P, 3P, 4P
Unipolar width	mm	18
Ultimate short-circuitbreaking capacity Icu	kA	10
Operating short-circuit breaking capacity Ics	kA	7.5
Reference temperature	°C	30°C
Usage Category		A
Mechanical life		20,000/order
Electrical lifespan		1500/more than once
Protection grade		IP20
Wiring capacity	mm ²	35
Connection		Both upper and lower incoming lines are acceptable

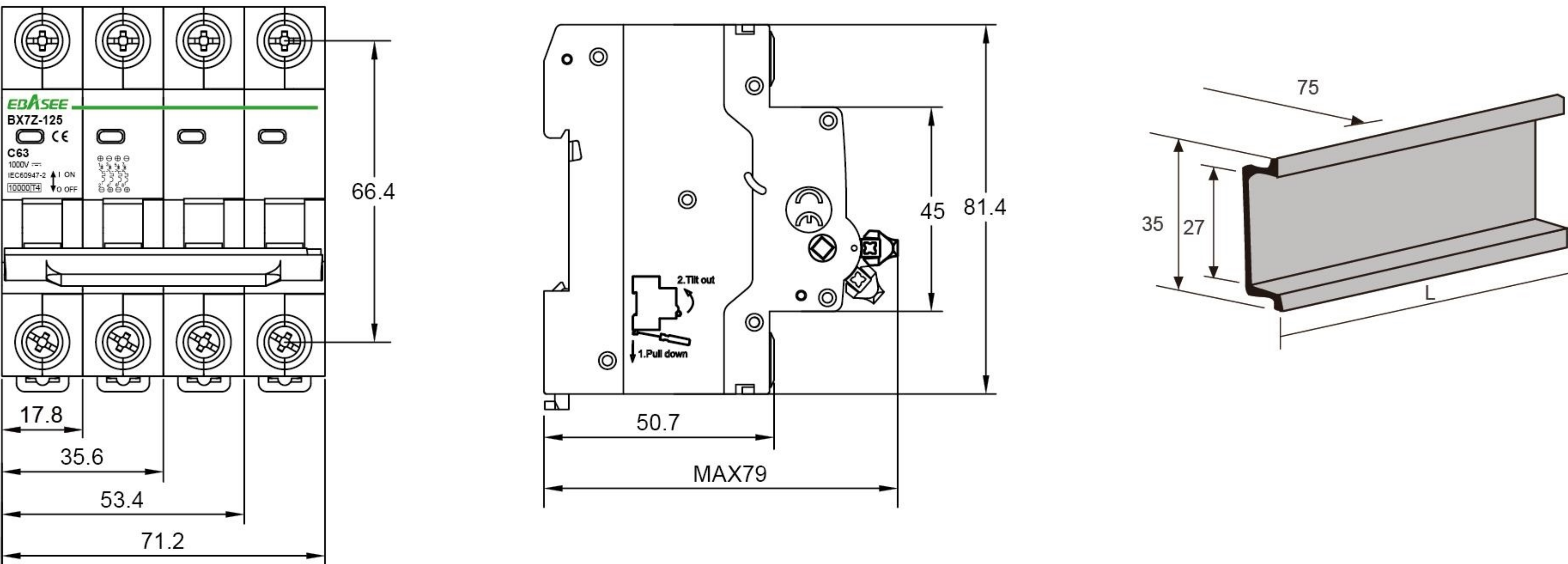
4.Tripping Characteristic



5.Connection Diagram



6.Dimensions



7.Order Note

Following items should be marked when ordering	Ordering sample
Product name, model & frame level	To order the BX7Z-125 miniature circuit breaker, 1P, Curve C, rated current is 100A, and quantity is 100 pieces, should be marked:
Poles	MCB BX7Z-125/1PC100, 100 PCS.
Tripping characteristic and rated current	
Quantity	

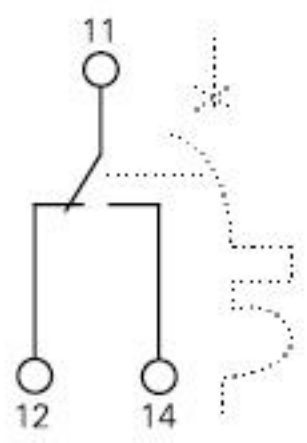
8.Accessories

Standard	Rated voltage	Dielectric strength (1min)	Endurance	Application category	Connection capacity (max.)	Pollution degree	Installation category	Ambient temperature	Altitude (max.)
IEC62019	230V	2000V	4000(Time)	DC14	2.5mm²	2	3	-5 to+40℃	2000(meter)

Auxiliary Contact



BX7Z-OF



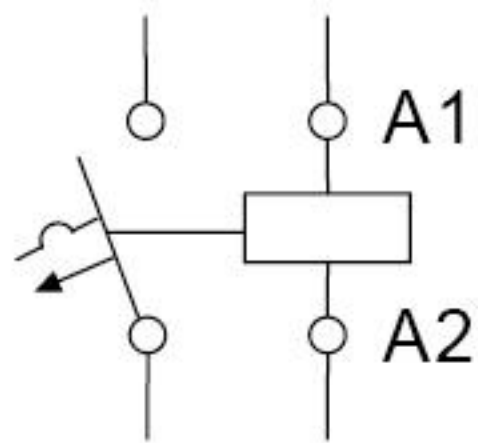
Rated voltage	230V DC	400V DC	24V DC	48V DC
Rated current	6A	3A	6A	2A

Mounted on the left side of BX7Z MCBs
Indicate the status of making or breaking of BX7Z MCBs
Width: 9 mm

Shunt Release



BX7Z-MX



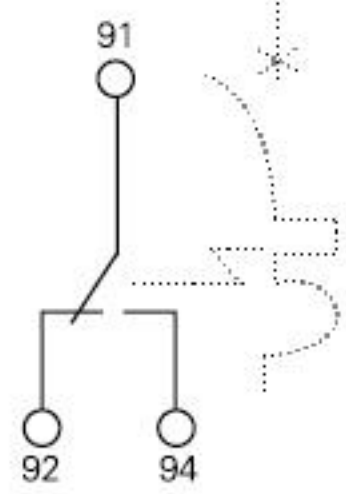
Rated voltage	230V DC	400V DC	24V DC	48V DC
Rated current	6A	3A	6A	2A

Mounted on the right side of BX7Z MCBs
To control the BX7Z MCBs from long distance
Width: 18 mm

Auxiliary Alarm



BX7Z-SD



Rated voltage	230V DC	400V DC	24V DC	48V DC
Rated current	6A	3A	6A	2A

Mounted on the left side of BX7Z MCBs
Indicate the status of making or breaking of BX7Z MCBs
Width: 9 mm