



DC circuit breaker

Widely used in DC power supply systems, photovoltaic and wind power station distribution box systems, etc.

KNS3D-63F7A



CB

CE



KNS3D-63F7A Miniature Circuit Breaker

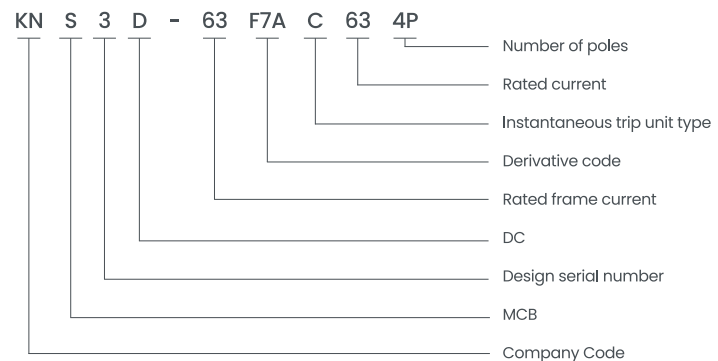
● Scope of application

The KNS3D-63F7A series miniature circuit breakers are mainly used in low-voltage integrated distribution systems for new energy DC power generation, energy storage, customized power systems, teaching and computer centers, communication systems, intelligent driving systems, building municipal and public facilities, smart homes, transportation, food and energy fields, etc., with a rated operating voltage of DC1000V and below and a rated current of DC63A and below.

The KNS3D-63F7A series miniature circuit breakers are compact, simple in structure, and highly reliable. This series of circuit breakers features a variety of functional accessories, including auxiliary contacts, alarm contacts, and shunt trip units. The auxiliary contacts and alarm auxiliary contacts are 9mm wide, while the shunt trip unit is 8mm wide.

The product conforms to the standard: IEC 60947-2.

● Model Meaning



● Working conditions

1. Ambient air temperature: Upper limit not exceeding +40°C, lower limit not lower than -5°C, 24-hour average not exceeding +35°C.
2. Altitude: Installation site altitude not exceeding 2000m.
3. Relative humidity at the installation site: Not exceeding 50% at the highest ambient temperature of +40°C. Higher relative humidity is permissible at lower temperatures, but the average maximum relative humidity of the wettest month should not exceed 90%, while the average temperature of that month should not exceed +25°C. Measures must be taken to address condensation on the product due to temperature changes.
4. Pollution level: Level 2.
5. Installation category: Class II or III.
6. Installation method: TH35-7.5 type mounting rail installation.
7. Installation conditions: The inclination angle between the mounting surface and the vertical plane should not exceed 5°.



KNS3D-63F7A

Miniature Circuit Breaker

● Main technical parameters

Project	Parameter
Rated frame current	63A
Compliant with standards	GB/T 14048.2, IEC 60947-2
Rated insulation voltage U_i	1000V
Rated impulse withstand Uimpvoltage U_{imp}	6kV
Rated current	1A, 2A, 3A, 4A, 6A, 10A, 16A, 20A, 25A, 32A, 40A, 50A, 63A
Rated voltage	DC250V(1P), DC500V(2P), DC750V(3P),DC1000V(4P)
Tripping curve	B(4I _n -7I _n), C:8I _n ±20%, D:12I _n ±20%
Number of poles	1P, 2P, 3P, 4P
Unipolar width	18mm
Ultimate short-circuit breaking capacity I_{cu}	10kA
Reference temperature	30°C
Usage Category	A

● Main technical parameters

Project	Parameter
Mechanical life	20,000 times
Electrical lifespan	1000 times
Protection grade	IP20
Wiring capacity (mm ²)	16
Connection	both upper and lower incoming lines are acceptable

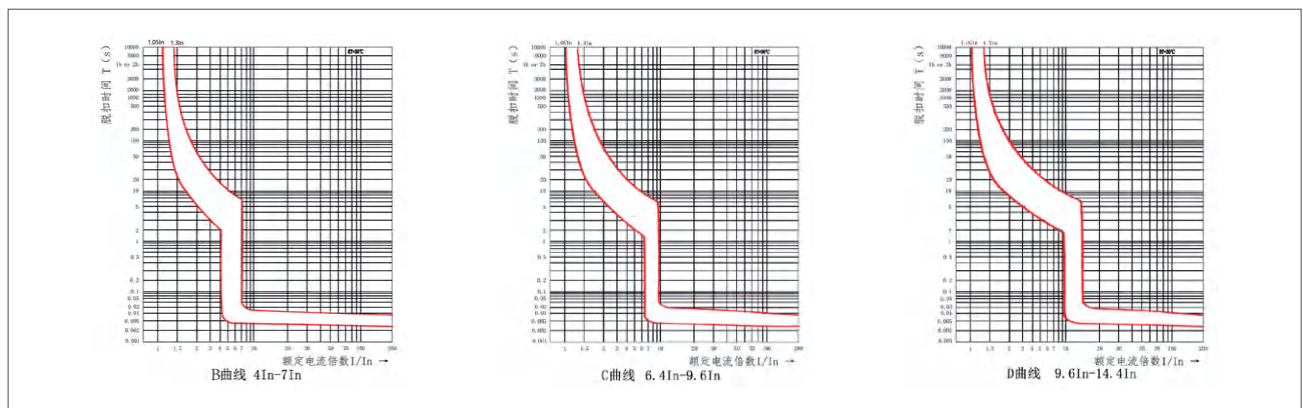
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Miniature Circuit Breaker

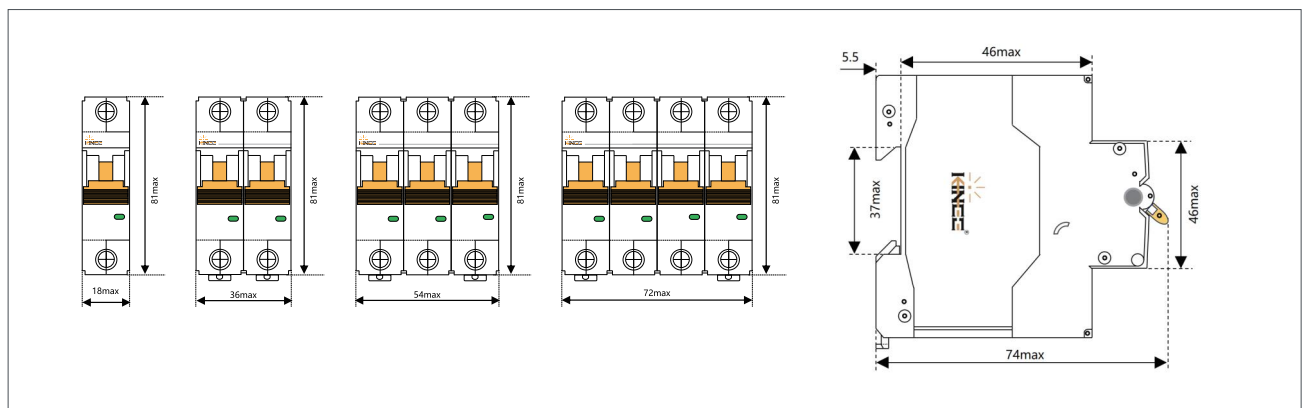
- Product tripping characteristics

Rated current(A)	Overload tripping characteristics		Instantaneous tripping characteristics (A)
	1.05In agreed non tripping time H (cold state)	1.30In agreed tripping time H (hot state)	
In ≤ 63	1	1	B(4In-7In) C:8In±20%, D:12In±20%

- Release curve diagram

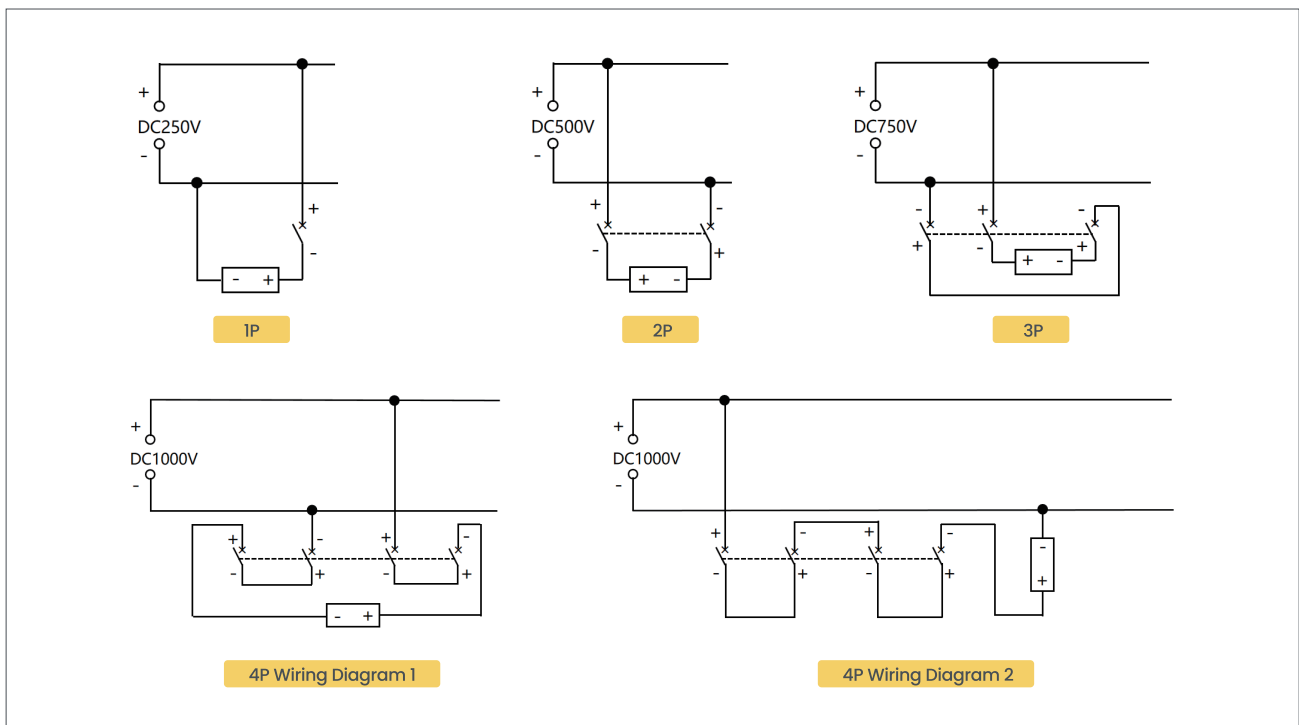


- Appearance and installation dimensions(mm)



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● DC wiring diagram



● Select the conductor cross-sectional area (mm²)

* The wiring is suitable for copper wires of 25mm² or less (see table below). The wiring method is to tighten the wires with screws with a torque of 2.0 Nm.

Rated current I _n (A)	Nominal cross-sectional area of copper conductor (mm ²)
1~6	1
10	1.5
16、20	2.5
25	4
32	6
40、50	10
63	16

● Ordering Instructions

When ordering, you need to specify the circuit breaker model, number of poles, rated current, and instantaneous trip characteristic type;

For example: **KNS3D-63F7A** two-pole circuit breaker, instantaneous trip characteristic type C, rated current 32A, quantity 1000 units, should be written as: Order Example: **KNS3D-63F7A 2P C32A 1000 units**;



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