MINGRI ELECTRIC
Voltage to Value

Miniature Circuit Breake Catalog

Mingri Electric Co.,Ltd.
No.288,16th Wei Road,Yueqing Economic Development Zone,Wenzhou City, Zhejiang Province,China.
Tel:+86-13706601032 (WhatsApp)
E-mail:mr@mingriele.com

Claire

Miniature Circuit Breake

Product Name

Miniature Circuit Breake

Product Model

SJK47

Product Description

SJK47-63 Miniature Circuit Breaker (MCB) is a premium-grade circuit protection device, with the SJK47-63 MCB featuring ultra-high breaking capacity and flame-retardant housing. This SJK47-63 Miniature Circuit Breaker is specifically engineered for 220/380V AC systems (50/60Hz, up to 63A), providing reliable overload and short-circuit protection. The SJK47-63 MCB's robust construction making this miniature circuit breaker ideal for residential, commercial and industrial applications. With its compact design, the SJK47-63 Miniature Circuit Breaker ensures easy installation while delivering superior performance. Choose the SJK47-63 MCB for guaranteed safety and durability in all electrical distribution systems.

Type Designation

SJK 47 - 63 / □ - □ □
① ② ③ ④ ⑤ ⑥

1	Circuit Breaker Model Number
2	Design Code
3	Frame Size Rated Current
4	Number of Poles (Arabic numerals, Neutral pole markedas N)
5	Instantaneous Release Type (C, D)
6	Rated Current Value

Technical Parameters

Rated Short-Circuit Capacity (Icn), Service Short-Circuit Breaking Capacity (Ics) (Ref. Table 1). TABLE 1

Model	Rated current	Rated short-circuit current (A)	Operating short-circuit breaking capacity (A)
SJK47-63	6~63A	4500	4500

Mechanical and electrical lifespan (Ref.Table 2) TABLE 2

	Times	Operating frequency (t/h)	Rated current (A)
Electrical lifespan	4000	240	6~32
		120	40~63
mechanical life	20000	240	6~63

Overcurrent Protection Characteristics at 30°C~35°C (Ref. Table 3) TABLE 3

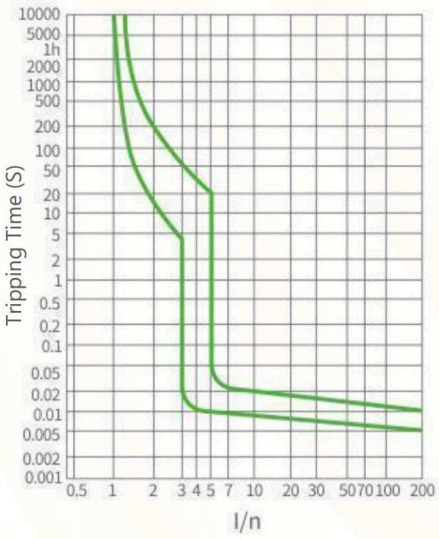
No.	Rated Current of Release (A)	Initial State	Test Current	Specified Time	Expected Result	Notes
1	6~63	Cold State	1.13In	t≤1h In≤63A	No Tripping	
2	6~63	Immediately after previous test post-test condition	1.45In	t<1h In≤63A	Tripping	Current Rises Steadily to Specified Value Within 5s
3	In≤32	Cold State	2.55In	1s<t<60s	Tripping	
	In>32	Cold State	2.55In	1s<t<120s	Tripping	
4	6~63	Cold State	3In 5In 5In 10In 10In 14In	t≤0.1s t<0.1s	No Tripping Tripping	B Type
				t≤0.1s t<0.1s	No Tripping Tripping	C Type
				t≤0.1s t<0.1s	No Tripping Tripping	D Type

Wiring: For conductors ≤25mm² (Ref. Table 4),Connection method: Screw-clamp terminals, Torque 2N·m Tabel 4

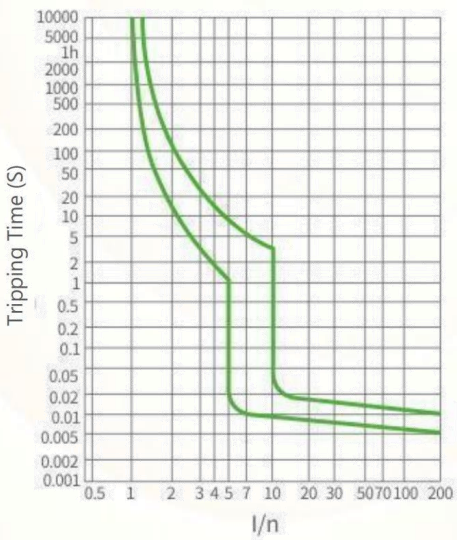
Rated Current In (A)	Nominal Cross-Sectional Area of Copper Conductor (mm²)
6	1
10	1.5
16, 20	2.5
25	4
32	6
40, 50	10
63	16

Trip Characteristic Curve

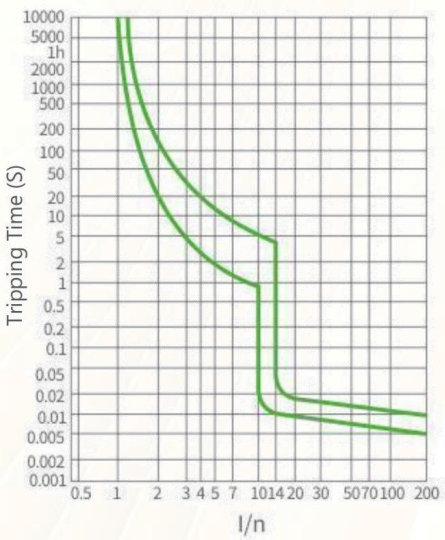
Type B



Type C



Type D



•Power Consumption per Pole (Ref. Table 5) — Tabel 5

Rated Current In (A)	Maximum Power Consumption per Pole (W)
6~10	2
16~32	3.5
40~63	5

Tabel 6

Ambient Temperature (°C)	-30	-20	-10	0	10	20	30	40	50	60
Current Correction Factor	1.30	1.25	1.20	1.15	1.10	1.05	1.00	0.95	0.90	0.85

Outline and Installation Dimensions

Left Picture: Istallation Dimensions

Right Picture: TH35-7.5 Mounting Rail Dimensions