

## ALF-63N/H Miniature circuit breaker

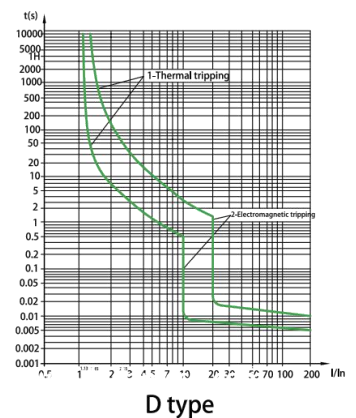
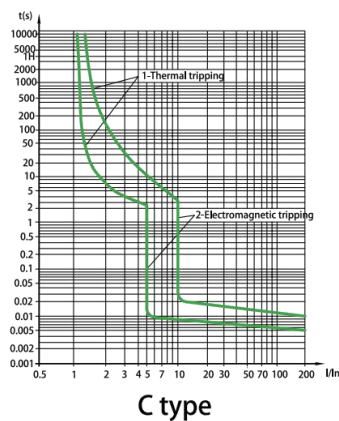
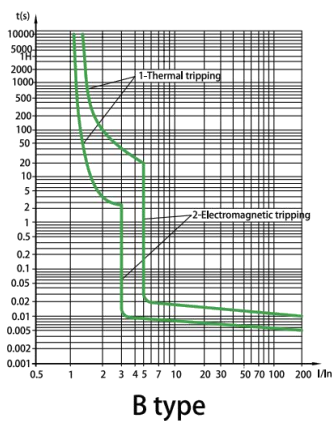
- 6kA
- 10kA



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XUCKY ALF-63N/H series high breaking miniature circuit breaker(MCB),conforms to IEC60898 standard, MCB has the characteristic of reliable performance, precise protective function, short release time ,and high break capacity, small volume as well, It widely used in and overload of contactor ,switchgear and electric apparatus.

### Characteristic Curve



## Technical Specification

ALF-63N/H Series Miniature Circuit Breaker	
Standard	EN/IEC60898-1
Breaking capacity(kA)	6,10
Protection	Against overload and short circuit
Rated current(A)In	1,2,3,4,6,10,13,16,20,25,32,40,50,63
Rated voltage(V)	1PAC 230/400,240/415
	1P+N,2P,3P,3P+N,4PAC400/415
Rated impulse withstand voltage Uimp(kV)	4
Rated insulation voltage Ui(V)	500
Energy limiting class	3
Ambient temperature(°C)	-25~+40,Max.95%humidity
Thermal operating limit	1.13xIn No tripping within an hour
	1.45xIn Tripping within an hour
Magnetic operating	B:(3-5)xIn,C:(5-10)xIn,D:(10-20)xIn
Number of poles	1P,1P+N,2P,3P,3P+N and 4P
Type of trip	Thermal/magnetic release
Terminal capacity	16mm <sup>2</sup> flexible or 25mm <sup>2</sup> rigid up to 25A ratings
	25mm <sup>2</sup> flexible or 35mm <sup>2</sup> rigid from 32A to 63A ratings
Protection degree	IP20
Installation	Mounting on 35mm DIN rail
Width	17.8mm per pole

## Circuit breaker release characteristic

NO.	Rated current of release(A)	Initial state	Test current	Specified time	Result to be obtained	Remarks
1	1-63	cold state	1.13I <sub>n</sub>	t≤1h	Non-trip	
2	1-63	upon the previous test	1.45I <sub>n</sub>	t<1h	trip	Setting current up to specified value steadily in 5s
3	I <sub>n</sub> ≤32 I <sub>n</sub> >32	cold state	2.55I <sub>n</sub>	1s<t<60s 1s<t<120s	trip	
4	1-63	cold state	3I <sub>n</sub> 5I <sub>n</sub> 5I <sub>n</sub> 10I <sub>n</sub> 10I <sub>n</sub> 20I <sub>n</sub>	t≤0.1s t<0.1s t≤0.1s t<0.1s t≤0.1s t<0.1s	Non-trip trip Non-trip trip Non-trip trip	B type B type C type C type D type D type

## Endurance(Operations)

Category	Operation Cycles	Operation frequency	Rated current
Electrical endurance	4000	240/h	1-32
		120/h	40-63
Mechanical endurance	10000	240/h	1-63

## Features

### 1. Ultra-High Short-Circuit Breaking Capacity

Advanced arc control technology achieves higher interruption capacity compared to industry standards, ensuring reliable protection for industrial-grade electrical systems under extreme fault conditions.

### 2. Dual-Mode Connection Interface

Integrated hybrid terminal design supports both rigid busbar docking and flexible cable clamping, enabling tool-free adaptation to diverse installation scenarios while reducing wiring time by 40%.

**3. Energy-Storage Mechanism for Longevity**

Spring-assisted operating system with 10,000 mechanical cycles endurance , featuring wear-compensation technology

**4. Advanced Composite Enclosure**

with flame-retardant, heat-resistant, and impulse -proof properties integrated arc-quenching chambers for contained fault events.

**5. Dynamic Current-Limiting Topology**

Intelligent let-through energy suppression reduces peak fault currents by 65-80%, enabling downstream device specification optimization with 30% overall system cost reduction potential.

**Outline dimensions**