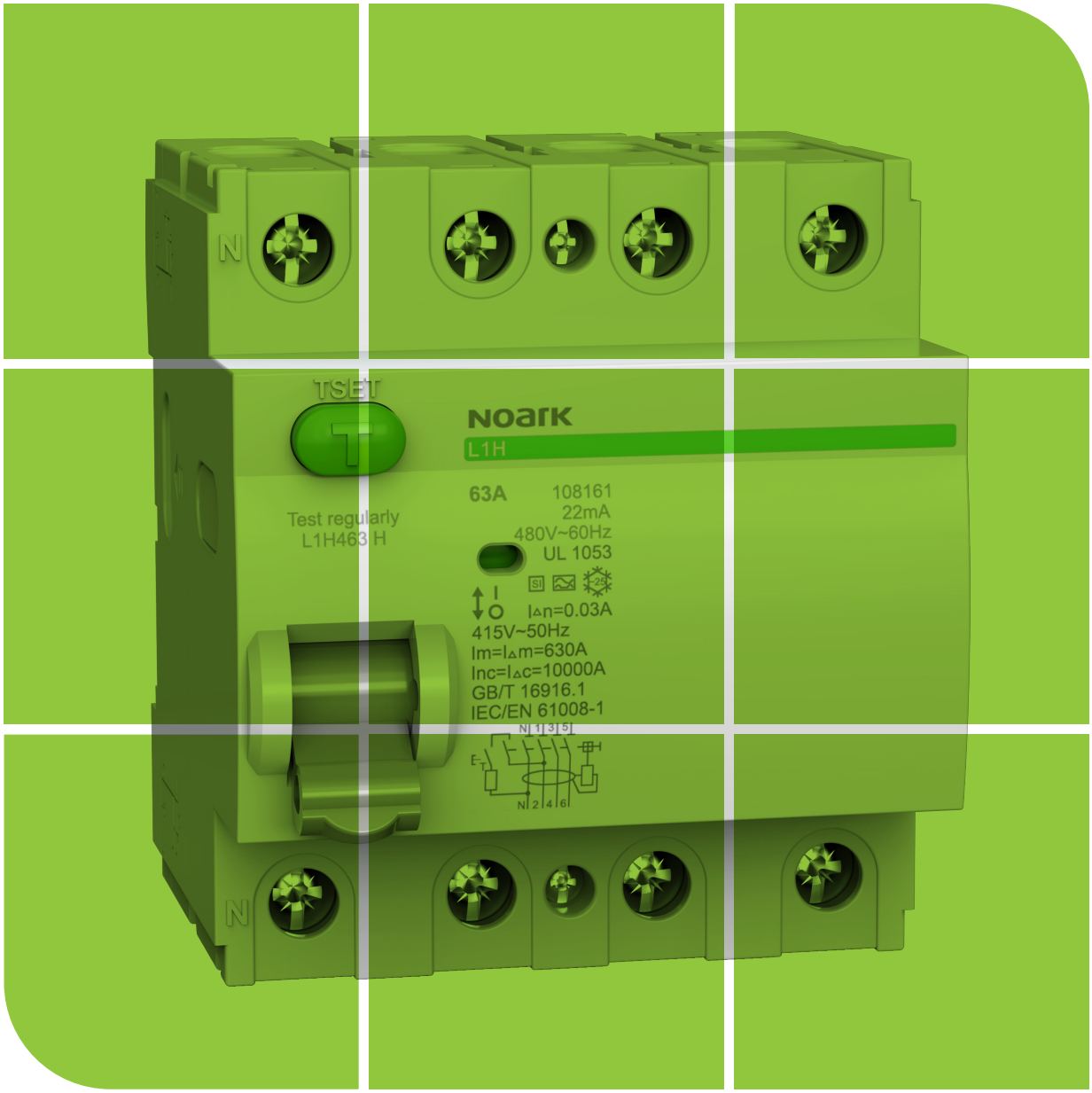
Noark

Catalog

# L1H Residential Current Circuit Breakers




**Excellent Products. Exceptional Value.**

na.noark-electric.com

# ABOUT US

**NOARK Electric** is a global manufacturer of low-voltage electrical components for industrial applications. We specialize in motor controls and circuit protection for original equipment manufacturers. Our mission is to provide customers with the highest quality products at an exceptional value and back them with world-class service and support. Every NOARK product is tested and certified to the highest industry standards and covered by our exclusive five-year limited warranty.

### Research and Development

The entire portfolio of high-quality NOARK products is designed for manufacturing and assembly (DFMA). Each component is developed in-house by our engineering team to meet the strictest standards and performance requirements. This dedication to excellence has led to the development of patented technology found in many of our products.

### World-class Manufacturing

After being thoroughly tested, approved and certified – each NOARK product is sent into production at our state-of-the-art manufacturing facilities. This allows us to maintain strict quality control standards throughout the manufacturing process. In addition, NOARK Electric adheres to a policy of environmental protection and sustainability.

### North American Distribution

NOARK's distribution centers are located in Addison, TX and Kitchener, ON, with the aim of ensuring prompt and reliable deliveries of the entire product range to our customers all over North America. Our supply chain team works closely with our factories and logistics partners to ensure the availability of our products on the North American market and provide logistics services on the level which our customers expect. NOARK Electric is a subsidiary of the largest electrical manufacturing group in Asia with over 50 thousand employees and sales revenue of $22 billion USD. We have corporate facilities in Texas, Shanghai and Prague to service the requirements of individual markets and countries.

| 140+ | 300+ | 20 | 22 | 3 | 10,000,000+ | 50,000+ |
|---|---|---|---|---|---|---|
| Countries | Overseas Distributors | Overseas Subsidiaries | Logistics Centers | R & D Centers | Sq.Ft. Manufacturing Space | Employees Worldwide |

TABLE OF CONTENTS

**L1H Residential Current Circuit Breakers**


Product Overview ..... 01

Selection Guide ..... 02

L1H UL Standard Parameters ..... 03

L1H CE Standard Parameters ..... 04

Dimensions and Wiring Diagrams ..... 05

# Residential Current Circuit Breakers

Product Overview

L1H residential circuit breakers (RCCB) complies with UL 1053 standard. It is an electrical protection device used to detect the residual current in the circuits, protect personnels from electric shocks, and prevent electrical fires. It can be applied in devices such as charging files, enclosures, food processing equipment.

## Features:

- Rated voltage up to 480V
- Current withstand rating at 10kA
- Flexible wiring, arbitrary from both above and below
- Electromagnetic type leakage protection, with stable performance and strong anti-interference capability

## Standards and certifications:

- UL 1053
- IEC/EN 61008-1
- GB/T 16916.1

## Standards and certifications:

| L1 | H | 2 | 16 | | M |
|---|---|---|---|---|---|
| L1 series | Current withstand rating | Poles | Current ratings | Ground fault pick up current | Voltage ratings |
| | H: 10kA | 2: 2P<br>4: 4P | 16: 16A<br>25: 25A<br>40: 40A<br>63: 63A | Blank: 22mA | L: 120V (2P)<br>M: 277V (2P)<br>H: 480V (4P) |



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# Residential Current Circuit Breakers

Selection Guide

L1H 2P

L1H 4P

Certification Certificate

IEC/EN 61008-1

| Poles | Rated voltage | Rated current | Item code | Model |
|---|---|---|---|---|
| 2P | 277V | 16A | 1003280 | L1H216 M |
| | | 25A | 1003281 | L1H225 M |
| | | 40A | 1003282 | L1H240 M |
| | | 63A | 1003283 | L1H263 M |
| | 120V | 16A | 1003284 | L1H216 L |
| | | 25A | 1003285 | L1H225 L |
| | | 40A | 1003286 | L1H240 L |
| | | 63A | 1003287 | L1H263 L |
| 4P | 480V | 16A | 1003288 | L1H416 H |
| | | 25A | 1003289 | L1H425 H |
| | | 40A | 1003290 | L1H440 H |
| | | 63A | 1003291 | L1H463 H |

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# Residential Current Circuit Breakers

## L1H UL Standard Parameters

| L1H | | |
|---|---|---|
| Standards | UL 1053, CSA C22.2 No.144 | |
| Type | RCCB | |
| Poles | 2P | 4P |
| Current Ratings (A) | 16, 25, 40, 63 | |
| Residual Current Tripping Type | Electromagnetic | |
| Ground Fault Pick Up Current (mA) | 22 | |
| Residual Current Protection Type | A-SI type (Super Immune) | |
| Voltage Ratings (V) | 120, 277 | 480 |
| Frequency (Hz) | 60 | |
| Max. Admissible Back-up Fuse | 100A gG/gL | |
| Operating Temperature (℃ ) | -25~40 | |
| Storage Temperature (℃ ) | -40~80 | |
| Altitude ft (m) | Does not exceed 6,561 (2,000) | |
| Atmospheric Conditions | +20℃ : ≤90% | |
| | +40℃ : ≤50% | |
| Pollution Degree | Class II | |
| Rated Impulse Withstand Voltage Uimp | 4kV (1.2/50μs) | |
| Current Withstand Rating(kA) | 10 | |
| Rated Residual Making & Breaking Capacity IΔm | In 25~40A: 500A; In 63A: 630A | |
| Electrical Endurance (cycle) | 2,000 | |
| Mechanical Endurance (cycle) | 2,000 | |
| Power Supply Connection | Arbitrary above or below | |
| Position of Neutral Terminals | Left side | |
| Real Contact Position Indicator | √ | |
| Leakage Fault Indication Window | √ | |



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# Residential Current Circuit Breakers

## L1H CE Standard Parameters

| L1H | | |
|---|---|---|
| Standards | IEC/EN 61008-1, GB/T 16916.1 | |
| Type | RCCB | |
| Poles | 2P | 4P |
| Current Ratings(A) | 16, 25, 40, 63 | |
| Residual Current Tripping Type | Electromagnetic | |
| Ground Fault Pick Up Current (mA) | 30 | |
| Residual Current Protection Type | A-SI type (Super Immune) | |
| Voltage Ratings (V) | 110, 240 | 415 |
| Frequency (Hz) | 50 | |
| Max. Admissible Back-up Fuse | 100A gG/gL | |
| Operating Temperature (℃ ) | -25~40 | |
| Storage Temperature (℃ ) | -40~80 | |
| Altitude ft (m) | Up to 6,561 (2,000) | |
| Atmospheric Conditions | +20℃ : ≤90% | |
| | +40℃ : ≤50% | |
| Pollution Degree | Class II | |
| Rated Impulse Withstand Voltage Uimp | 4kV (1.2/50μs) | |
| Current Withstand Rating(kA) | 10 | |
| Rated Residual Making & Breaking Capacity IΔm | In 25~40A: 500A; In 63A: 630A | |
| Electrical Endurance (cycle) | 2,000 | |
| Mechanical Endurance (cycle) | 2,000 | |
| Power Supply Connection | Arbitrary above or below | |
| Position of Neutral Terminals | Left side | |
| Real Contact Position Indicator | √ | |
| Leakage Fault Indication Window | √ | |

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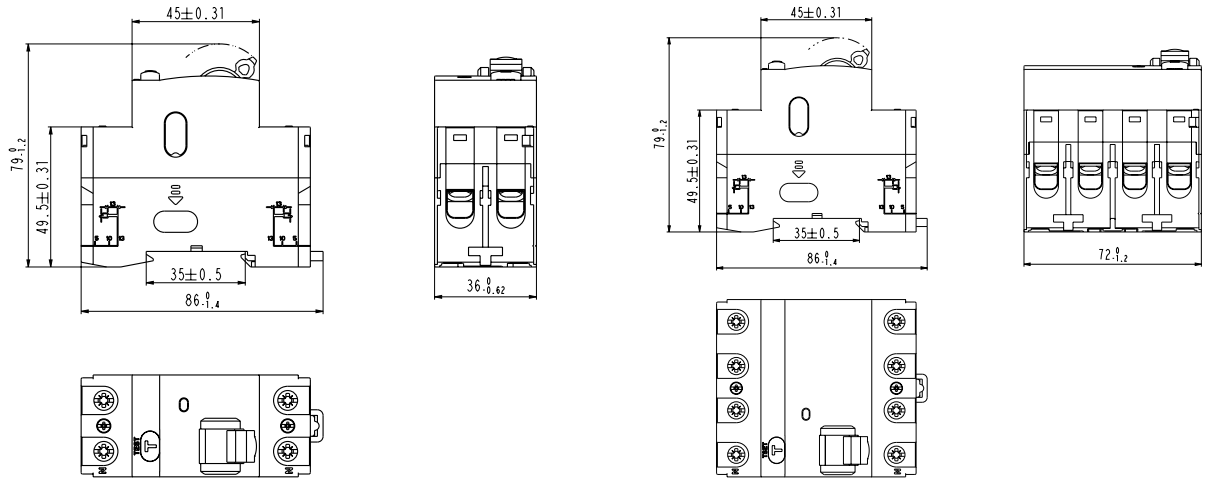
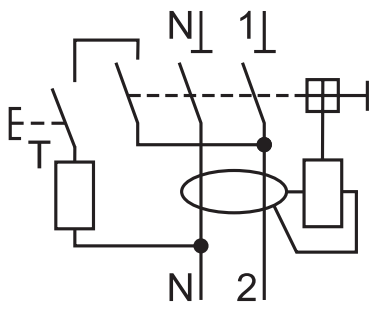
# Residential Current Circuit Breakers

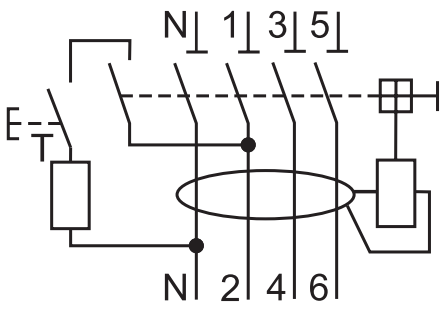
Dimensions and Wiring Diagrams

**L1H**
**2P/4P**
Unit:mm




L1H 2P




L1H 4P



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