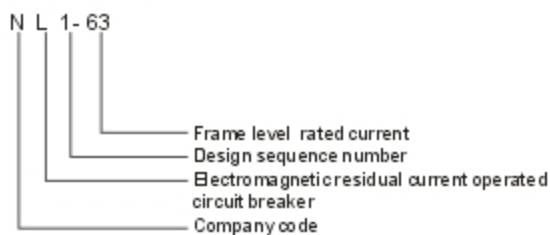


## NL1-63 Residual Current Operated Circuit Breaker (Magnetic)

### 1. General


- 1.1 Certificates: CB, ESC, FI, KEMA, SEMKO, UKRTEST, RCC
- 1.2 Electric ratings: Up to 63A, 230V/2P, 400V/4P, AC50/60Hz;
- 1.3 Rated residual current operated making & breaking capacity  $I_{\Delta m}$ : 500A ( $I_n=50A$ ), 630A ( $I_n=63A$ );
- 1.4 Rated residual non-operated current  $I_{\Delta no}$ :  $0.5I_{\Delta n}$ ;
- 1.5  $I_{nc}$ : 6000 A;
- 1.6  $I_{\Delta c}$ : 6000 A;
- 1.7 Rated impulse withstand voltage  $U_{imp}$ : 6000 V;
- 1.8 Standard: IEC61008-1

### 2. Type Designation




### 3. Technical Data

- 3.1 Technical parameters
- NL1-63, A type, 2P

	In (A)	$I_{\Delta n}$ (mA)	CTN	Order Code
	25	30	90	141001
25	100	90	141002	
25	300	90	141003	
40	30	90	141004	
40	100	90	141005	
40	300	90	141006	
63	30	90	141007	
63	100	90	141008	
63	300	90	141009	

NL1-63, AC type, 2P

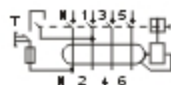
	In (A)	$I_{\Delta n}$ (A)	CTN	Order Code
	25	30	90	141010
25	100	90	141011	
25	300	90	141012	
40	30	90	141013	
40	100	90	141014	
40	300	90	141015	
63	30	90	141016	
63	100	90	141017	
63	300	90	141018	

NL1-63, A type, 4P



In (A)	I $\Delta$ n (A)	CTN	Order Code
25	30	45	141019
25	100	45	141020
25	300	45	141021
40	30	45	141022
40	100	45	141023
40	300	45	141024

NL1-63, AC type, 4P



In (A)	I $\Delta$ n (A)	CTN	Order Code
25	30	45	141025
25	100	45	141026
25	300	45	141027
40	30	45	141028
40	100	45	141029
40	300	45	141030
63	30	45	141031
63	100	45	141032
63	300	45	141033

### 3.2 Life

In	Operating cycles		Operation frequency (operations/h)
	On-load operating cycles	Off-load operating cycles	
25	2000	2000	240
40, 63	2000	1000	120

### 3.3 Breaking time of residual current

In (A)	I $\Delta$ n (A)	Breaking time of residual current (I $\Delta$ is ratings following)				
		I $\Delta$ n	2I $\Delta$ n	5I $\Delta$ n	5A, 10A, 20A, 50A, 100A, 200A, 500A	
25, 40, 63	0.03, 0.1, 0.3	0.1s	0.08s	0.04s	0.04s	Max. Breaking time

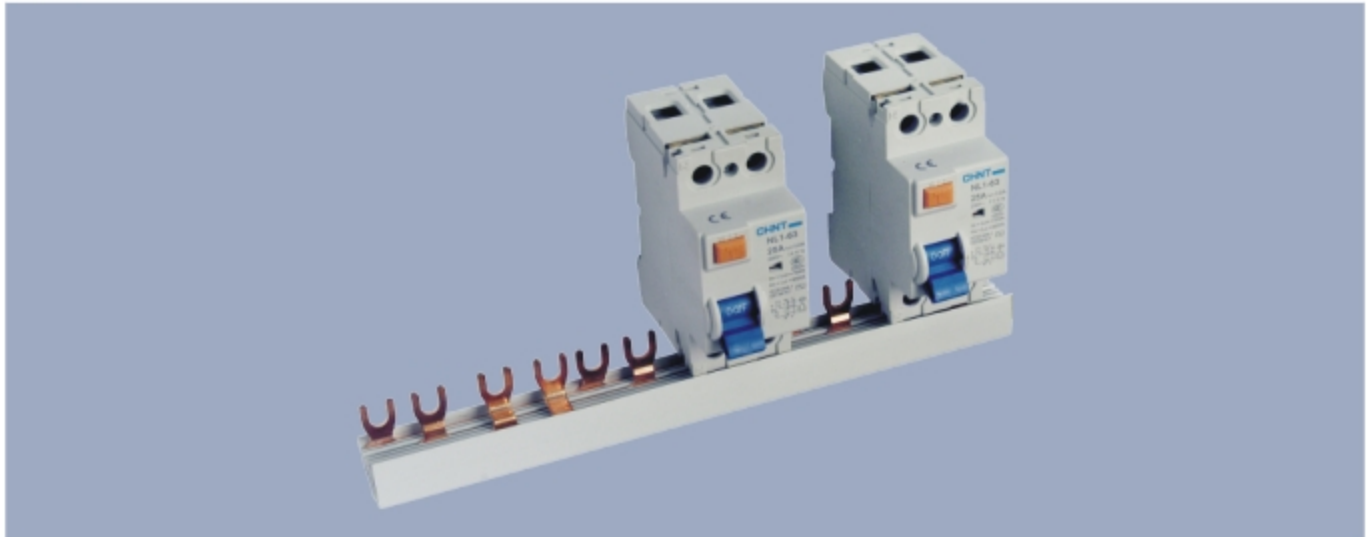
## 4. Wiring

The suitable conductors should be used for connection, see table below for relative parameters.

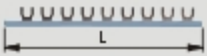
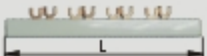
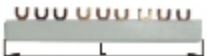


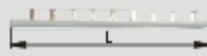
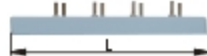

Rated current In (A)	Cross section area of lead (mm <sup>2</sup> )	Tightening torque(N · m)
25	4	2.5
40	10	2.5
63	16	2.5


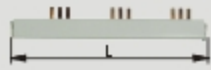
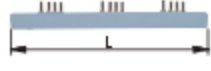
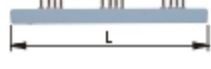
## 5. Accessory

### 5.1 Combination with busbar



### 5.2 Busbar

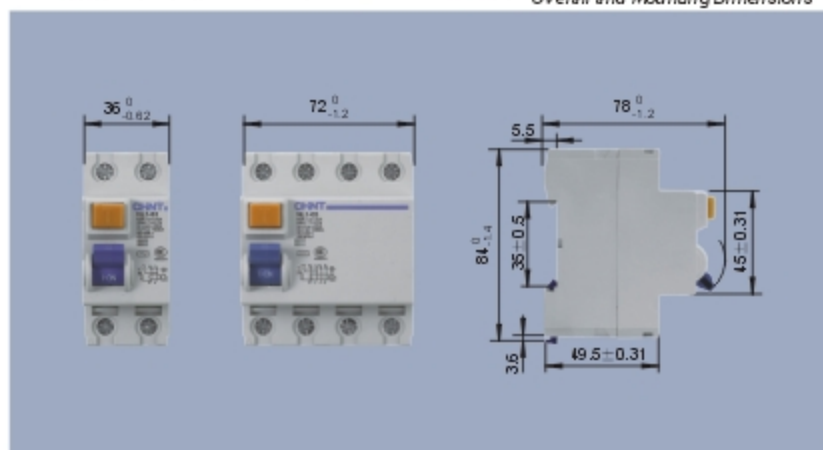
Model	No. of poles	Current I (A)	Length L (m)	Order code
 U Type	1P	63~100	1	131501
 U Type	2P	63~100	1	131502
 U Type	3P	63~100	1	131503
 U Type	4P	63~100	1	131504
 Pin Type	1P	63	1	131505
 Pin Type	1P	100	1	131506
 Pin Type	2P	63	1	131507
 Pin Type	2P	100	1	131508

Model	No. of poles	Current I (A)	Length L (m)	Order code
 Pin Type	3P	63	1	131509
 Pin Type	3P	100	1	131510
 Pin Type	4P	63	1	131511
 Pin Type	4P	100	1	131512

## 6. Features

- 6.1 Without auxiliary power supply, the product is designed with strong immunity and extending protection range against residual current;
- 6.2 With higher rated ultimate short circuit, up to 6KA;
- 6.3 High reliable operation thanks to special design terminals;
- 6.4 Even under the pollution environment, the working reliability of the product will never be changed;
- 6.5 Enclosure and functional parts made of imported plastics with flame-retardant, heat-resistant, and impulse-proof properties.
- 6.6 Convenient mounting;
- 6.7 More flexible and reliable operation with a handle.

## 7. Overall and Mounting Dimensions

*Overall and Mounting Dimensions*

*Dimension of standard rail*
