

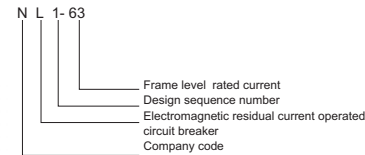


**NL1-63 Residual Current Operated Circuit Breaker without over-current protection (Magnetic)**

**1. General**

- 1.1 Certificates: CB, CE, ESC, FIMKO, 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  $I_{\Delta no}$  : 0.5 $I_{\Delta n}$ ;
- 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: IEC/EN 61008-1.

**2. Type Designation**

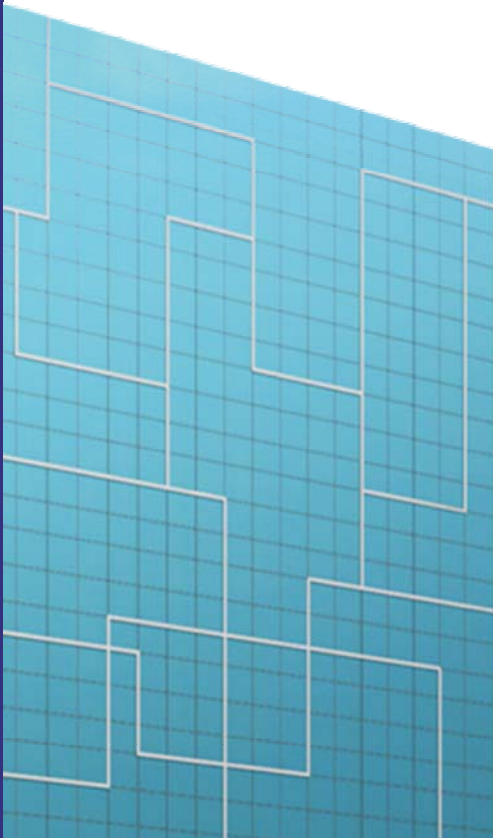


**3. Technical Data**

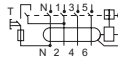
- 3.1 Technical parameters
- ★ NL1-63, 2P



In (A)	I $\Delta$ n (mA)	CTN	Order Code	
			A type	AC type
25	30	90	141001	141010
25	100	90	141002	141011
25	300	90	141003	141012
40	30	90	141004	141013
40	100	90	141005	141014
40	300	90	141006	141015
63	30	90	141007	141016
63	100	90	141008	141017
63	300	90	141009	141018
80	30	90	Not available	141040*
80	100	90	Not available	141041*
80	300	90	Not available	141042*
100	30	90	Not available	141043*
100	100	90	Not available	141044*
100	300	90	Not available	141045*



★ NL1-63, 4P



In (A)	I $\Delta$ n (mA)	CTN	Order Code	
			A type	AC type
25	30	45	141019	141025
25	100	45	141020	141026
25	300	45	141021	141027
40	30	45	141022	141028
40	100	45	141023	141029
40	300	45	141024	141030
63	30	45	141046*	141031
63	100	45	141047*	141032
63	300	45	141048*	141033
80	30	45	Not available	141055*
80	100	45	Not available	141056*
80	300	45	Not available	141057*
100	30	45	Not available	141058*
100	100	45	Not available	141059*
100	300	45	Not available	141060*

Note: Products marked with \* are under development

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 when the residual current equals to 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

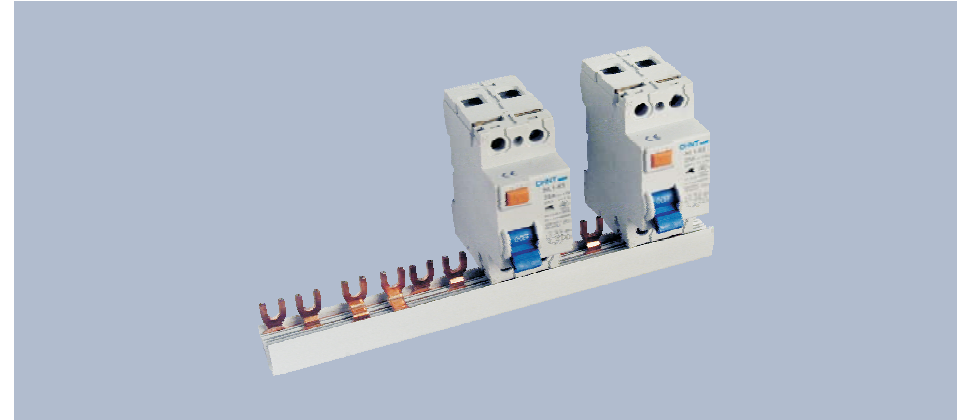
4. Wiring

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

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

5. Accessory

Combination with busbar



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 6000A;
- 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

