Product Specification

Product: Residual Current Circuit Breaker with Overload Protection

Product type: NDB1L-32

Date: November20, 2015

Prepare	Review	Approvel
Xu Liang	Zheng Xiao Hua	Yang Wei

Nader 良信电器	File name	Product Specifications	File number	NDT2930059
	Product	NDB1L-32	Version	1 version
	name	RCBO	Date	November20, 2015

Revision records

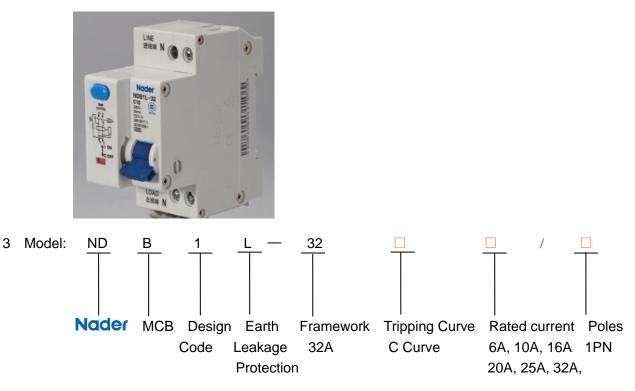
Version	Revised contents and reasons	Date	By (full name)
0	Initial release.	July 15, 2015	Zheng Xiao Hua
1	Add rated working frequency etc.	November20, 2015	Xu Liang

File number	Version	0 version	Date	November20, 2015
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- 1 Application
 - Protection against short circuit
 - Protection against overload
 - •earth leakage
 - Isolation

NDB1L-32 series residual current circuit breaker is able to protect against earth leakage faults , which is used in low voltage electrical distribution system in industry, real estate, power, telecom and construction field.

2 Picture

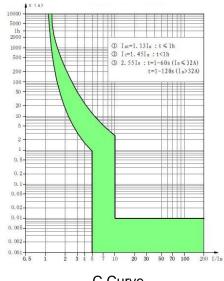


4 Main technical parameters

- Electrical parameters
- Rated working voltage (Ue): AC230/240V(1PN)
- Rated working frequency: 50/60Hz
- o Rated current (In): 6A, 10A, 16A, 20A, 25A, 32A
- Breaking capacity (Icn): 4.5 kA 、 6kA(UL1053)
- Rated residual operating current: 10mA, 30mA
- Rated residual operating time: ≤0.1s
- \circ Rated residual making and breaking capacity (IDm): 500A
- Mechanical & electrical life: 10000 times
- Isolation function:

File number	Version	0 version	Date	November20, 2015
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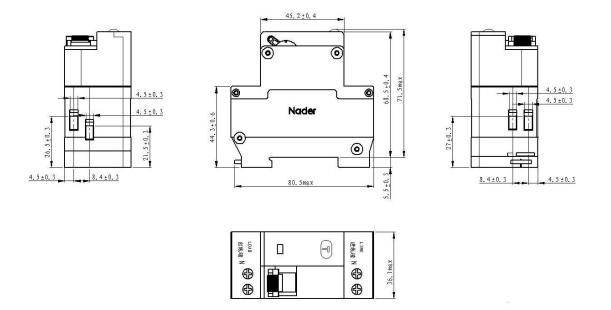
- o Overcurrent visualization
- Wiring
- Adopt tunnel type wiring
- \circ Connection capability: $1mm^2$ to $10\ mm^2$
- The wiring screw: M4, Rated torque : 1.2N.m
- Meet a criterion
- o GB 16917.1、IEC 61009-1、GB16917.22、IEC61009-2-2、UL1053
- 5 Working conditions
 - Altitude ≤2000m
 - Ambient temperature: −25°C ~+55°C
 - Storage temperature: −30°C~+70°C
 - Relative air humidity ≤95%
 - Pollution degree: 2
- 6 Tripping curves (ambient temperature 30°C)
 - C curve
 - Illumination distribution system
 - Rated current: 1~32A
 - Tripping characteristic: instantaneous trip between 5In to 10In



C Curve

File number	Version	0 version	Date	November20, 2015
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7 Outline dimensions and installation



8 Mounting

Modularized structure, can be easily installed in TH35mm×7.5 Standard DIN rail.

9 Packaging and storage

9.1 Maximum packing quantity

1N-pole: 6pieces in a box, 12 boxes in an overwrap carton.

- 9.2 The products should be stored in the warehouse where there is ventilation. The relative humidity there should not exceed 80%, and the ambient temperature there is between -30°C to +70°C. In addition, there should not be acidic, alkaline and corrosive gas in the air. The products should not be deposited more than 3 years in the above mentioned conditions since the producing date.
- 10 Accessories list and mounting

None

File number		Version	0 version	Date	November20, 2015
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11 Notices

- 11.1 Take no responsibility for problems occurred by disassembly privately.
- 11.2 RCBO can't provide protection in the cases that touch two phase line synchronously.
- 11.3 Please don't perform insulating resistance test or voltage-withstand test on the product directly or indirectly by megohameter or similar test devices. If you need, we can offer validated certificate about the term.
- 11.4 When test insulating resistance of the engineering circuit, the outlet terminal (at least one line) must be disconnected to avoid the misunderstanding of the products' quality or damage of the products.
- 11.5 The power line should be connected to 'LINE', while another terminal to 'LOAD'. Don't connect contrarily. Otherwise the product will be damaged when the test button is pressed or there is earth leakage in the circuit.
- 11.6 Please make sure reliable connection to avoid fault tripping or damage of terminals caused by exceptional heat resulting from unsuitable connection.
- 11.7 Simulating test should be made once a month by pressing the test button to check whether the circuit breaker works normally. If RCBO is abnormal, it should be replaced.
- 11.8 When RCBO opens automatically, line analyzing or equipment checking should be done to find the causation of failure. Then switch on only after eliminating the malfunction.