



Product Specification

Product:	NDM1-63 Series Miniature Circuit Breaker
Product type:	NDM1-63
Date:	June 13, 2013

Prepare	Review	Approvel
Dai Feng	Li Meng	Yang Wei



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	File name	Product Specifications	File number	NDT	I-track.co
l ɑder ∣良信电器	Product N	NDM1-63	Version	0 version	
	name	MCB	Date	June 13, 2013	

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Revision records

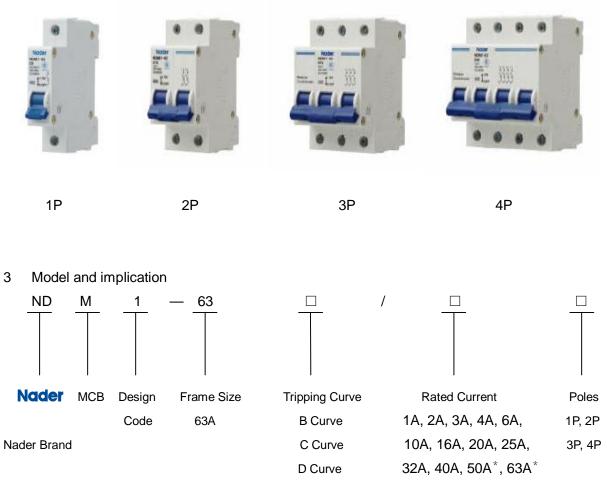
Version	Revised contents and reasons	Date	By (full name)
0	Initial release.	June 13, 2013	Dai Feng

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File number	NDT	Version	0 version	Date	June 13, 2013
1 Application • Protection	against short circui	t			

- •Protection against overload
- Control
- Isolation
- Protection of DC system

NDM1-63 series MCB is used in low voltage electrical distribution system in industry, real estate, power, telecom and construction field.

2 Product Picture



*Note: D curve is not available for 50A and 63A breaker.

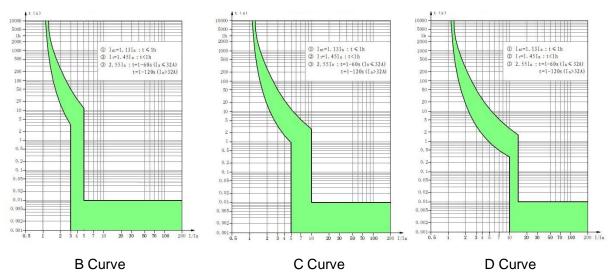
4 Main technical parameters

- Electrical parameters
- \circ Rated working voltage (Ue): AC 230V/400V, DC60V
- \circ Rated current (In): 1A, 2A, 3A, 4A, 6A, 10A, 16A, 20A, 25A, 32A, 40A, 50A, 63A

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∘ Breaki	ng capacity (Icn): 6 kA fo	r C curve brea	aker (4.5 kA for	50A and 63A b	reaker)

4.5 kA for D curve breaker

- Impulse voltage endurance: 4KV
- Mechanical & electrical life: 10000 times
- Wiring
- Adopt tunnel type wiring
- \circ Connection capability: 1mm^2 to 25 mm^2
- B curve
- Non-inductive or micro-inductive loads
- \circ Tripping characteristic: instantaneous trip between 3In to 5In.
- C curve
- $\circ\,$ Illumination distribution system
- \circ Tripping characteristic: instantaneous trip between 5In to 10In
- D curve
- \circ Industrial distribution system
- \circ Tripping characteristic: instantaneous trip between 10In to 14In



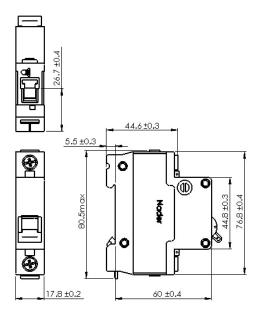
5 Tripping curves (ambient temperature 30°C)

- 6 Working conditions
 - Ambient temperature: -35°C~+70°C
 - Relative air humidity ≤95%
 - Altitude ≤2000m
 - Pollution degree: 2
 - Used in place without obvious shock and vibration

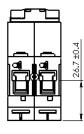


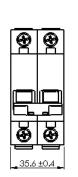
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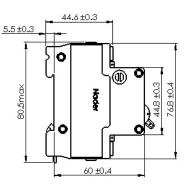
7 Outline dimensions and installation



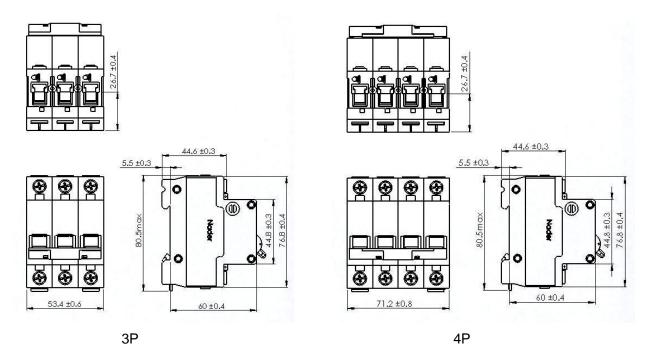








2P



8 Mounting

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

9 Packaging and storage

9.1 Maximum packing quantity

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

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2-pole: 2 pieces in a box, 12 boxes in an overwrap carton.

3-pole: 4 pieces in a box, 12 boxes in an overwrap carton.

4-pole: 3 pieces 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 -25°C to +60°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

• OF auxiliary contact: Installed on the left hand of the NDM1-63 series MCBs to indicate tripping status of the breaker.

• SD alarm contact: Installed on the left hand of the NDM1-63 series MCBs to indicate failure tripping status of the breaker.

• MX+OF shunt release: Installed on the right hand of the NDM1-63 series MCBs to control the breaker from a distance.

• NDH1 series busbar is a kind of modulus accessory for NDM1-63, which applies to connecting the ends of the same phase incoming line of several breakers. It can also be used as a general standard accessory which connects the electric appliances of the same phase terminal.

• NDM1L-32/50 series residual current unit clipped onto the right side of NDM1-63 series MCBs to protection against earth leakage faults.

• NDM1LG-32/50 series overvoltage protection residual current unit clipped onto the right side of NDM1-63 series MCBs to protection against earth leakage faults and overvoltage.

11 Notices

- 11.1 Manufacturer will take no responsibility for problems caused by disassembly privately.
- 11.2 Attention to live part when the breaker is energized and avoid touching them.
- 11.3 Manufacturer will take no responsibility for the quality problem caused by adjusting the characteristic of the breaker privately.
- 11.4 Wiring properly to avoid mis-trip or terminal burn.
- 11.5 Please open the cover when installing the accessory. Please refer to *OF*, *SD MX+OF Instruction* for details.