	Doc. Name	Product Specifications	Doc. Code	NDT2930028
Nader 良信电器	Product Model and	NDB2LM-63 Residual	Version	5
	Name	current protection module	Issue Date	20200428

Revision Record

Version	Revised contents	Date	Reviser
5	Rated impulse withstand voltage: from 6kA to 4kA	20200428	Xuguojun



Issue/Date	XuGuoJun/20200428	Check/Date	XuGuoJun/20200428	Approve/Date	XuGuoJun/20200428
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1, Applicable scope and purpose

Short circuit protection

Overload protection

Isolation

Earth leakage

NDB2LM-63 series residual current protection module is used for protecting earth leakage, direct or indirect electric-shock on body and applied in low-voltage terminal distribution field, including Industry, Civil Building, Energy, Communication and Infrastructure etc.

2、Pictures





2P



3P



3P+N



4P

3、Model and implication:

ND									/ 🗆 /		
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1	2	3	4	5	6	7	8	9	10	11	12

No.	Implication	NDB2LM-63					
1	Brand code	ND(Nader)					
2	Product code	В					

Doc. Co	Doc. Code NDT2930028		Version	5	Issue Date	20200428	
	3	Design cod	e		2		
	4	Earth leakage pro	otection		L		
	5	Electromagnetic	c type		М		
	6	Frame rating(A)			63		
	7	Instantaneous tripping	characteristic		B,C,D		
	8	Rated current	Rated current(A) 1, 2, 3, 4, 5, 6,10,16,20,25,32,40,50,		- ,		
	9	Number of po	oles		1P+N,2P,3P,3P+N,4P		
	10	Rated residual operating current		3	30mA,100mA,300mA		
	11	Residual operating current type			A、 AC		
	12	level of sensitivity			S		

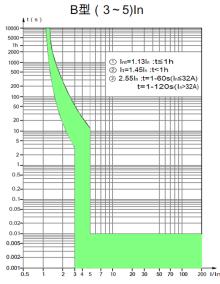
4、 Main technical specifications

- electric parameter
- frequency:50/60Hz
- Rated working voltage: AC230/240V (1P+N,2P) AC400/415V (3P,3P+N,4P) :AC110/120V(1P+N,2P)
- Rated impulse withstand voltage:4kV
- Rated insulation voltage:500V
- Residual operating current type: A、AC
- •Instantaneous tripping characteristic: B、C、D
- Rated current: 1A, 2A, 3A, 4A, 5A, 6A,10A,16A,20A,25A,32A,40A,50A,63A
- Rated breaking capacity: 10kA
- Rated residual operating current: 30mA,100mA,300mA(regular);100mA,300mA(with
 - time-delay)
- level of sensitivity: Plain (not labeled), time delay (S)
- Isolation function
- Leakage is visible
- Wiring
- Tunnel type of wiring terminal
- Connection area:1mm²~35mm²
- Tighten screw torque: 3.5 N.M
- Protection requirements
- Protection grade:IP20
- Protection grade for device which is installed in distribution box: IP40
- 5. Normal working environment
 - Height: ≤2000m, if you want to apply it more than 2000m, you must refer to Miniature Circuit Breaker's reduced capacity table. Also you can refer to GB/T20645 the technological requirement of the low-voltage electrical equipment when it is used

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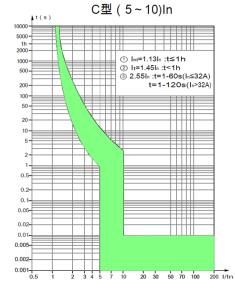
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- on high altitude.
- pollution degree:3
- Ambient temperature:-25℃~+60℃
- Stored ambient temperature: -40°C ~+80°C
- Humidity requirement: relative humidity under $40^{\circ}C \le 50^{\circ}$;
- Magnetic requirement: magnetic field should be 5 times less than geomagnetic field in any directions
- Sine wave distortion: less than 5%
- Tolerate the influence of salt mist and oil mist
- Used in the place without explosion danger and the medium can't have the corrosive action on metals and damage the insulation gas and conductive dust.
- Used in the place without rain and snow.
- 6、 Tripping characteristic
 - B type curve
 - protect the non-inductive or micro-sense circuit
 - rated current: 1A~63A
 - tripping characteristic: instantaneous tripping range is $3\ln \sim 5\ln$

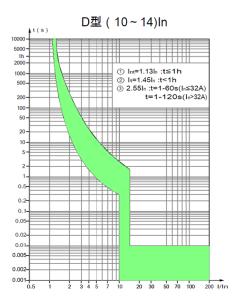


- C type curve
- protect normal load and distribution wire cable
- rated current: 1A~63A
- tripping characteristic: instantaneous tripping range is 5In~10In

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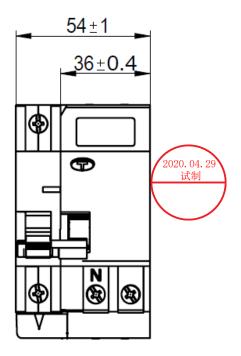
- D type
- protect industrial distribution system
- rated current: 1A~63A
- tripping characteristic: instantaneous tripping range is 10In~14In

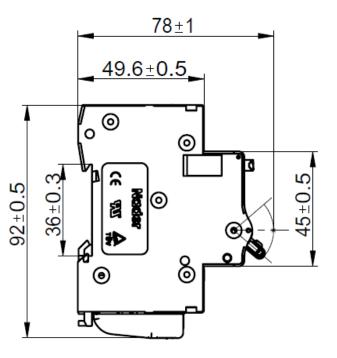


7、Outline and installation dimensions

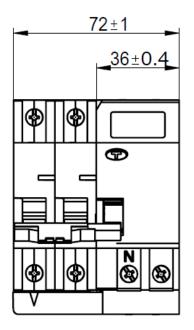


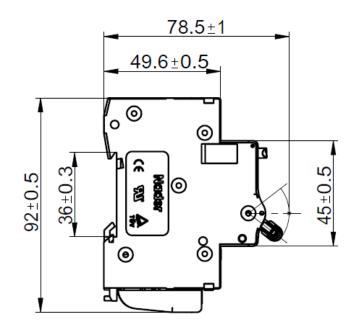
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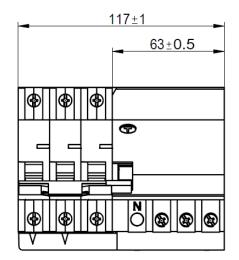
1P+N

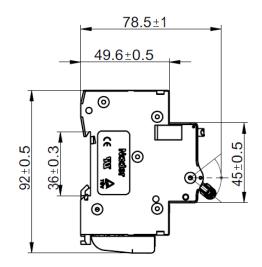




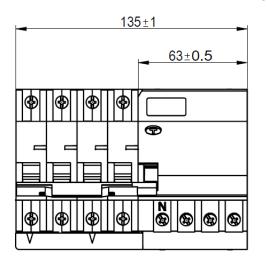
2P

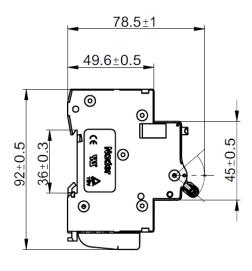
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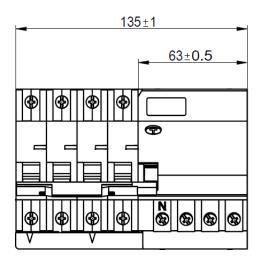


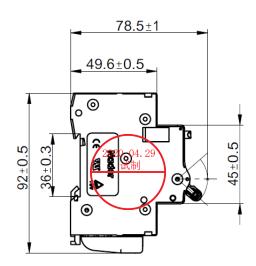
3P





3P+N





4P

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8、Installation Method

Installed in TH35mm x 7.5 standard guide rail and wired in tunnel type.

9、Packaging and storage

1P+N: 4pcs per box; 2P:3 pcs per box, 3P: 2pcs per box, 3P+N or 4P:1 pcs per box. Packing cartons should be stored where air circulation and relative humidity is not more than 50% and the temperature is not higher than + 80°C and not less than - 40°C, and also without acidic, alkaline and other corrosive gas. In the above conditions, the storage period since the production date is not more than three years.

10、Accessories list and installation

- OF2 auxiliary contact: mount on the left side of MCB to indicate the tripping status of the associated MCB.
- SD2 alarm contact: mount on the left side of MCB to indicate the fault tripping status of the associated MCB
- MX+OF2 shunt tripping device: mount on the left side of MCB to remotely control MCB
- NGQ2 (A) Undervoltage tripping device: mount on the left side of MCB, realize single-phase overvoltage, undervoltage, under-voltage protection function
- Tm2 electric operating mechanism: mount on the left side of MCB to breaker on-off control
- Tm2GQ Since multiple undervoltage: mount on the left side of MCB ,when in the light over-voltage or under-voltage, on line protection
- 11、Environmental protection requirement Conform to RoHS directive
- 12、Notice
 - No responsibility for problems caused by disassembling privately;
 - RCD can't provide protection in the cases that touch two phase line synchronously;
 - Please don't perform insulating resistance test or voltage-withstand test on the product

directly or indirectly by megohmmeter or similar test devices. If you need, we can offer validated proof regarding this item;

- When testing insulating resistance of the engineering circuit, the RCD should not be connected to avoid misunderstanding on the products' quality or damage its PCB;
- Please make sure reliable connection to avoid fault tripping or damage of terminals caused by exceptional heat;
- Simulating test should be made once a month by pressing the test button to check whether the circuit breaker works normally. If RCD is abnormal, it should be replaced.
- If the RCD trip automatically, you must timely analyze the fault reason of the line or the device.