

Shanghai Liangxin Electrical Co., Ltd.

Product Specification of NDG1-100

(IPD-ENG-DEV-T20 A0 2016-04-20)

Product Name: Disconnect switch

Product type: NDG1-100

Date: 20210630

Prepared	<u>Chen Kailong</u>	Date	<u>2021-06-30</u>
Reviewed	<u>Wang Zhoushi</u>	Date	<u>2021-06-30</u>
Approved	<u>Huo Zhiqiang</u>	Date	<u>2021-06-30</u>

Revision information					
Version	Revised contents and reasons	Date	Prepared	Reviewed	Approved
0	Initial release	20210630	Chen Kailong	Wang Zhoushi	Huo Zhiqiang

1 Application

- Control
- Isolation

NDG1-100 series is used to isolate the circuit or do On-off circuit operation infrequently for the track facilities and Industrial distribution system of buildings and other similar sites .

2 Product Pictures(The picture is for reference only,subject to the actual object)



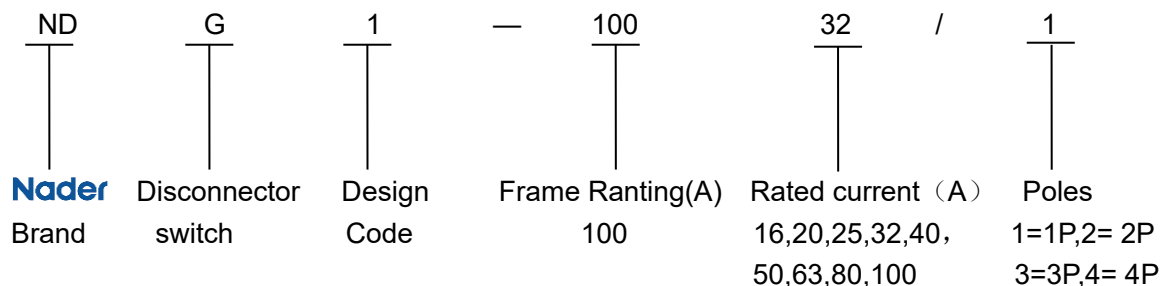
1P

2P

3P

4P

3 Model and implication



4 Main technical parameters

- Electrical parameters
 - Rated voltage (Ue): AC230V/240V/400V/415V(1P), AC400V/415V(2P, 3P, 4P)
 - Rated frequency: 50/60Hz
 - Rated insulation voltage(Ui):1000V
 - Rated impulse withstand voltage(Uimp):6kV
 - Rated operational currents (Ie): 16A,20A,25A,32A, 40A,50A,63A,80A,100A
 - Conventional free air thermal current(Ith):100A
 - Making and breaking capacity: 3Ie(415V,cosΦ=0.65)
 - Rated short-circuit making capacity(Icm): 20Ie(415V,cosΦ=0.9)
 - Rated short-time withstand current(Icw): 20Ie (415V,1s)
- Utilization category
 - AC-22A
- Wiring
 - Adopt tunnel type wiring.
 - Connection capability: 2mm² to 50 mm²
 - Connection screw:M7;Torsion moment: 3.5N • m
- Product certification and implementing standards
 - Implementing standards: GB/T 14048.3、 IEC 60947-3

- Product certificates: CCC,CE,TUV
- Environmental protection requirements
- Comply with RoHS
- Accessory
- None

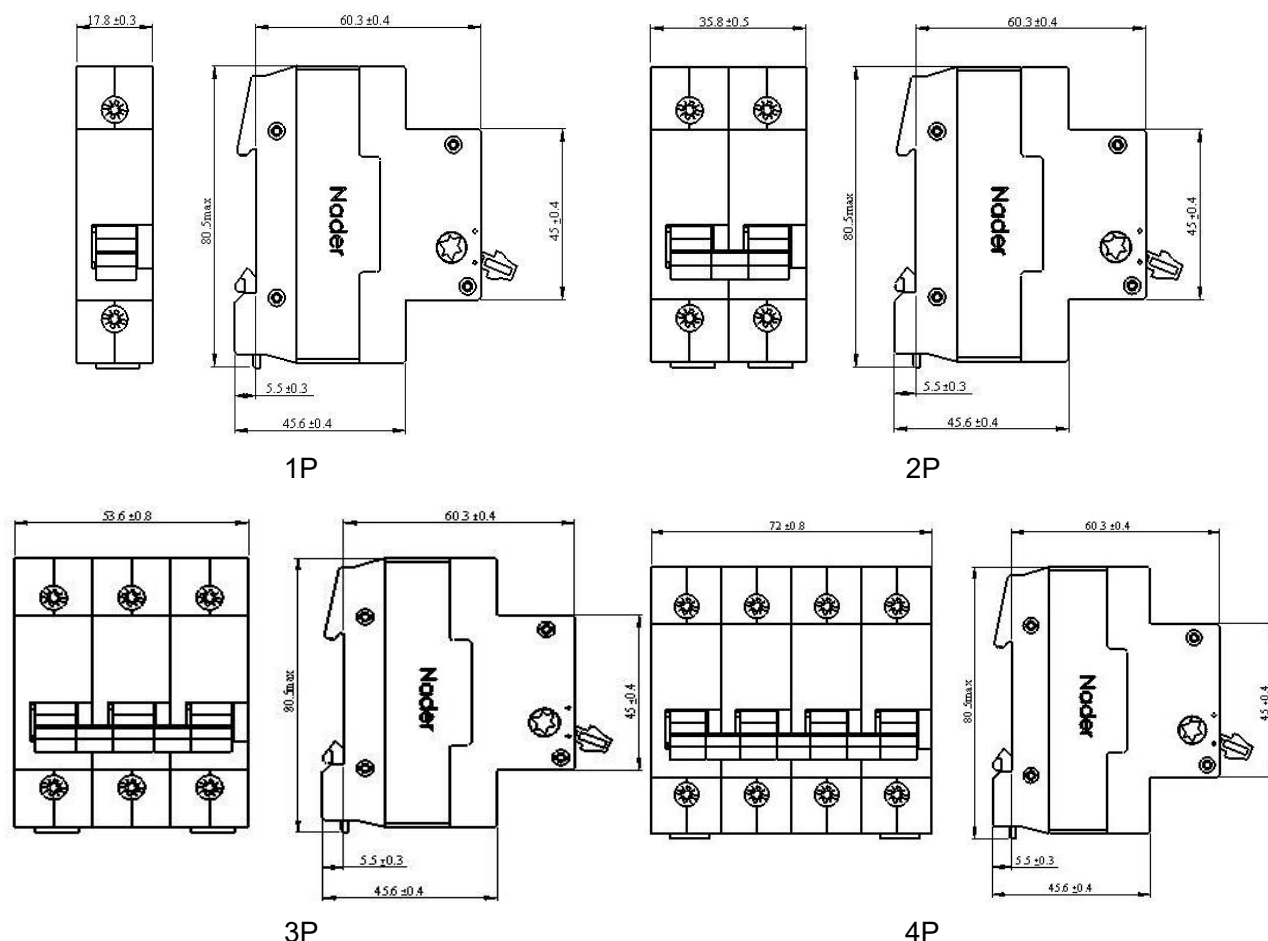
5 Normal Working condition

- Altitude: $\leq 2000\text{m}$
- Ambient temperature: $-40^{\circ}\text{C} \sim +70^{\circ}\text{C}$
- Relative air humidity: $\leq 95\%$
- The product can withstand the effects of salt mist and oil mist
- Environment with the pollution level of 2
- The product can be disposed in places that are free from explosive media, media corrosive to metal, insulation damaging gas, and conductive dust
- The product should be installed free from snow and rain

6 Tripping Characteristics

None

7 Outline dimensions and installation



8 Installation method

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

9 Packaging and storage

Maximum packing quantity(1P: 12pieces in a box, 2P: 6 pieces in a box, 3P: 4 pieces in a box, 4P: 3 pieces in a box), Packing boxes of products should be stored in the air circulation and relative humidity is not more than 80% and the temperature is not higher than + 80 °C, Not less than - 40 °C in the air around without acid, alkali or other corrosive gases stored in the warehouse. In the above conditions, the storage period since the production date not more than three years.

10 Accessory list and installation

OF3 auxiliary contact: Installed on the left hand of the switch-disconnectors to indicate the "on" or "off" position.

11 Notices

- Any quality problem due to disassembly without permission will be the liability of the user;
- Under the energized operation state, do not touch the exposed portion of the uninsulated parts with bare hand;
- Wiring must be reliable to prevent the malfunction of the circuit breaker or terminal burning due to the abnormal heat generation on the terminal.