

Shanghai Liangxin Electrical Co., Ltd.

NDQ2S-80

Product Specification

(IPD-ENG-DEV-T20 A2 2024-11-10)

Prepared by		Date	
Reviewed by		Date	
Countersigned by		Date	
Approved by		Date	

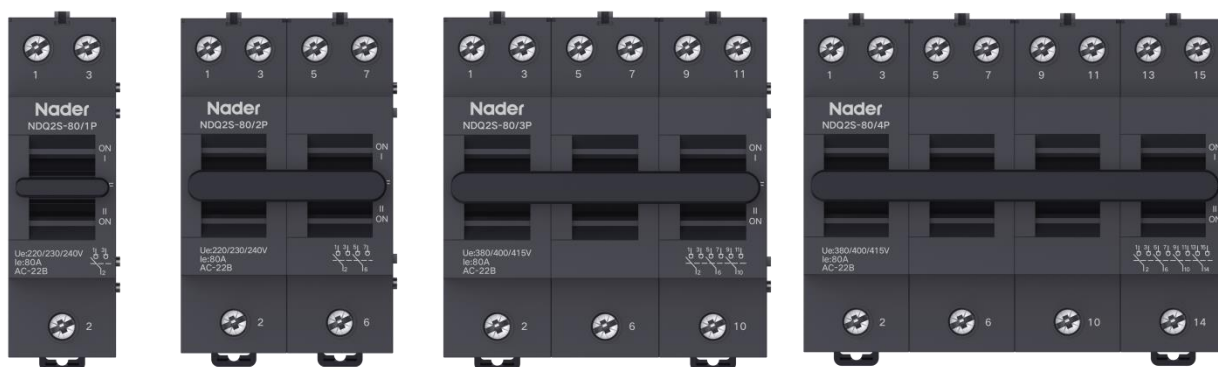
Revision History					
Version	Revision Reason/Content	Implementation Date	Prepared by	Reviewed by	Approved by
0	New	November 10, 2024	Cao Xuehu	Wang Yujun/Ji Linlin	Zhang Huifeng

1 Applicable Scope and Purpose

The NDQ2S automatic transfer switching equipment is applicable for sites with the voltage of AC220/AC230/AC240V (1/2P) and AC380/AC400/AC415V (3/4P), as well as the rated frequency of 50/60Hz. It complies national standards GB 14048.1 and GB/T 14048.3, as well as the Fire Protection Code for High-rise Civil Buildings, Code for Fire Protection Design of Buildings, Design Guidelines for Emergency Lighting, Code for Electrical Design of Civil Buildings etc.

This product mainly applies to the compulsory level I load, which is widely used in important places that require the continuous power supply, such as fire protection, telecommunications, hospitals, hotels, urban rail transits, high-rise buildings, industrial assembly lines and TV stations. It adopts the network source, self-starting generator set and battery set as the main and standby power supplies.

2 Product Pictures



3 Specification and Model Description

ND Q 2 S -80 /□
1 2 3 4 5 6

SN	SN Description	NDQ2S-80
1	Enterprise code	ND
2	Product code	Q
3	Design SN	2
4	Manual-acting type	S
5	Rated operational current	10A, 16A, 20A, 25A, 32A, 40A, 50A, 63A, 80A
6	Number of poles	1P, 2P, 3P, 4P

4 Main Technical Parameters

4.1 Electrical Parameters

Table 1: Main electrical parameters of NDQ2S

Product model	NDQ2S-80
Rated current (In)	16A, 20A, 25A, 32A, 40A, 50A, 63A, 80A
Certifications	CCC, CE, CB, TUV
Number of poles	1P, 2P, 3P, 4P
Rated operating voltage (Ue)	AC220/230/240 (1/2P)、AC380/400/415 (3/4P)
Rated frequency (f)	50/60
Rated insulation voltage (Ui)	690
Rated impulse withstand voltage (Uimp)	2.5
Rated short-circuit withstand current and duration (Icw)	12Ie
Rated short-circuit making capacity (Icm)	1.41*12Ie
Class of equipment	Class PC
Drive mode	Manual
Utilization category	AC-22B
Rated duty	Uninterrupted duty
Electrical life	300 (maintainable value)
Mechanical life	2000 (maintainable value)
Install mode	TH35 guide rail (1mm thick)

4.2 Parameters of the terminals connected to the wire

Table 2: Parameters of terminals connected to the wire

Product model	Thread diameter (mm)	Torque (N·m)
NDQ2S	Wiring screw M6	3

4.3 Weight of the product

Product model	Number of poles	Rough weight (Kg)	Net weight (Kg)
NDQ2S	1P	/	/
	2P	/	/
	3P	/	/
	4P	/	/

5 Working Conditions

5.1 Ambient air temperature: -25°C ~ +70°C

5.2 The reduction coefficient of different altitude conditions

The altitude of the installation site should not exceed 2000m.

Table 3: Table of altitude reduction coefficient

Altitude (m)	2000	3000	4000	5000
Reduction coefficient of rated operational current	1In	0.9In	0.8In	0.75In

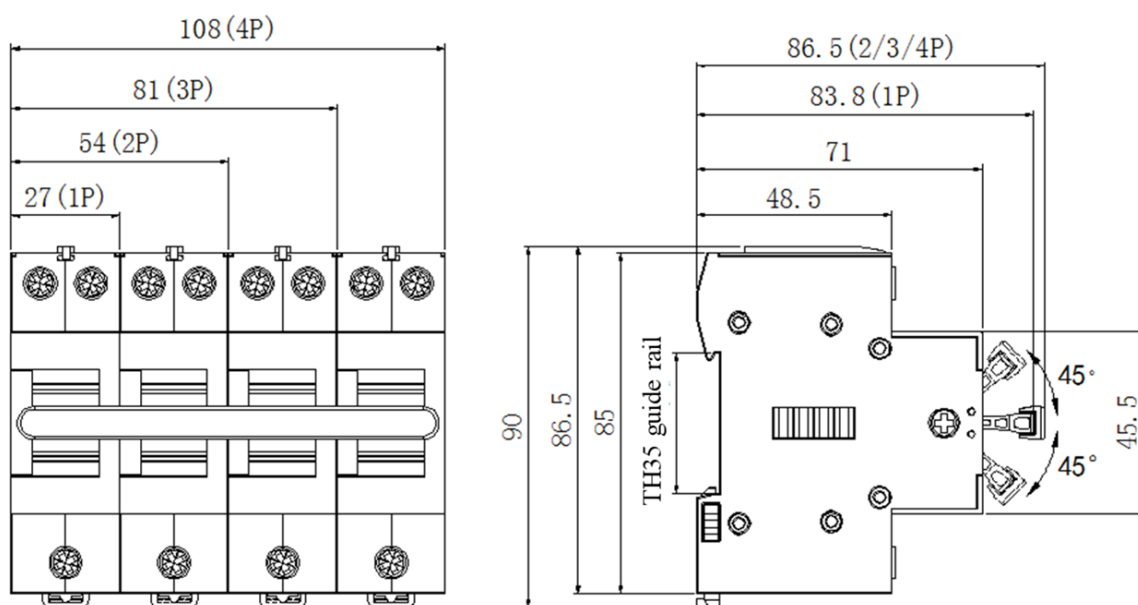
5.3 Class of pollution

Class of pollution: III.

5.4 Product protection class

Product protection class: IP20.

6 Outline and Installation Dimensions



Notes: the limit deviation of the unmarked tolerance dimension of the outline and installation size is carried out according to GB/T 1804-C.

7 Installation mode

The product can be vertically fixed in the cabinet, and the maximum inclination of the installation surface to the installation vertical surface is $\pm 3^\circ$.

8 Packaging and Storage

- 1) The product is packaged in a special carton.
- 2) The applicable transportation and storage temperature range of the product is from -25°C to $+55^\circ\text{C}$. Keep the products dry during transportation, which shall not be affected by strong turbulence, vibration and impact as well as be free from snow and rain.

9 Environmental compliance

The product meets the standard of RoHS2.0.

10 Precautions

1) The product should be installed correctly. Check whether the nameplate content is correct. Confirm the switch is in the power-off state.

2) Please carry out conversion tests regularly (recommend every three months) to confirm the normal operation of the product. Please regularly clean the dust on the surface of the casing to maintain good insulation.