

Nader Electrical · Foresee the Future
良信电器 · 预见未来

NDZ3(X、W、S)-50~300

直流接触器使用说明书

DC Contactor Using Instruction

Nader 良信电器

1、适用范围与用途/ Application Scope and Purpose

NDZ3(X、W、S)系列直流接触器适用于工作电压至DC1000V，工作电流至300A的直流系统中主要用于电动汽车、充电桩、充电站、光伏等领域。

The NDZ3(X,W,S) series of DC contactors apply to the DC system with the working voltage up to DC1000V and working current at 300A or less, which are mainly used in electric vehicles, charging piles, charging stations, photovoltaic and other fields.

2、工作环境/ Operating Environment

-40~85℃

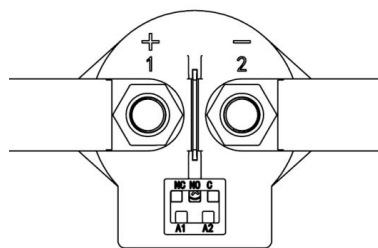
3、接线方式（接线图）/ Wiring Mode (Wiring Diagrams)

型号	接线图
NDZ3S-10/20/100/150/200/250 NDZ3-50/100/150/150J/200/250/300 NDZ3X-50(B)/100(B)/150/150J/200/250/300	
NDZ3S-1010/2010/20010/25010 NDZ3-5010/10010/15010/15010J/20010/25010/30010 NDZ3X-5010B/10010B/15010/15010J/20010/25010/30010	
NDZ3S-1001/2001/20001/25001 NDZ3-5001/10001/15001/15001J/20001/25001/30001 NDZ3X-5001B/10001B/15001/15001J/20001/25001/30001	
NDZ3-5011/10011/15011/15011J/20011/25011/30011 NDZ3X-5011B/10011B/15011/15011J/20011/25011/30011 NDZ3S-1011/2011/20011/25011	
NDZ3W-50/100/150/200/250/300	
NDZ3W-5010/10010/15010/20010/25010/30010	

NDZ3W-5001/10001/15001/20001/25001/30001	
NDZ3W-5011/10011/15011/20011/25011/30011	

备注/ Remark:

- NO为辅助常开触点(导线颜色：蓝色)；NC为辅助常闭触点(导线颜色：灰色)；C为辅助共用点(导线颜色：白色)。
- NO for the auxiliary normally-open contact and the wire is blue, NC for auxiliary normally-closed contact and the wire is gray, C for auxiliary communal contact and the wire is white.
- ‘1’ / ‘+’、‘2’ / ‘-’ 为负载端，有极性要求；‘1’、‘2’ 为负载端，无极性要求；‘1’ / ‘+’ 表示正极，‘2’ / ‘-’ 表示负极。
- “1” / “+” and “2” / “-” are the load ends with polarity requirements, “1” and “2” are the load ends without polarity requirements, where in “1” / “+” stands for the positive polarity while “2” / “-” for the negative polarity.
- A1、A2为线圈端，NDZ3(X)-50~150、NDZ3W-50~100、NDZ3S-10~250无极性要求(导线黑色)； NDZ3(X)-150J、NDZ3(X)-200~300、NDZ3W-150~300有极性要求，A1为正极（导线颜色：红色），A2为负极（导线颜色：黑色）。
- A1 and A2 are coil ends without polarity requirements for NDZ3(X)-50~150, NDZ3W-50~100, NDZ3S-10~250 and the wire is black; NDZ3(X)-150J, NDZ3(X)-200~300 and NDZ3W-150~300 with polarity requirements, A1 for the positive polarity and the wire is red, A2 for the negative polarity and the wire is black.
- 接线方式为一字型接线。
- wiring mode is straight line connection.

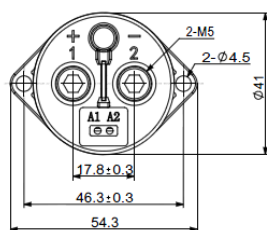
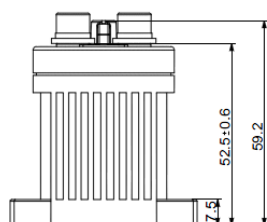


一字型接线/Straight line connection

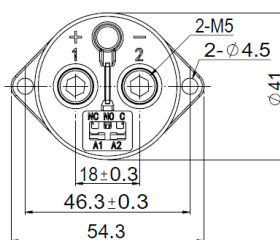
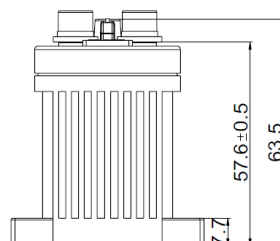
注：其他接线方式请与我司联系。

Note: for the others connection type, please contact us.

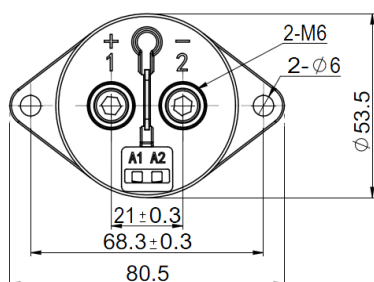
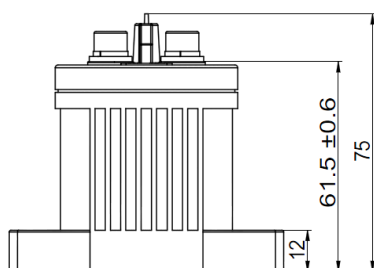
4、外形尺寸和安装尺寸/ External Dimensions and Installation Dimensions



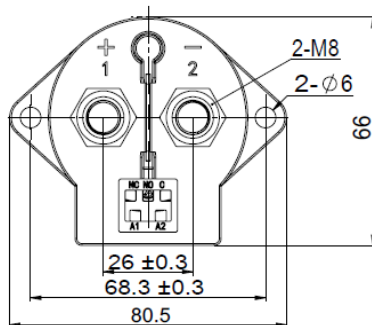
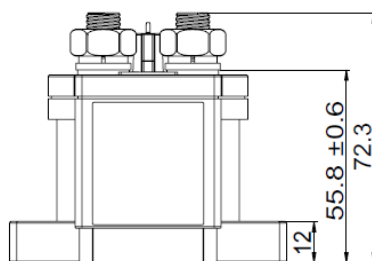
NDZ3X-50/100
NDZ3S-100/150



NDZ3(W)-50/100
NDZ3X-50B/100B
NDZ3S-10/20



NDZ3(X)-150
NDZ3S-200/250



NDZ3(X)-150J/200/250/300
NDZ3W-150/200/250/300

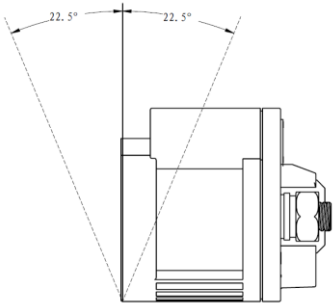
5、安装方式/ Installation Mode

1. 螺钉安装

1. Screw mounting

2. 安装方向为垂直安装。

2. Installation direction is vertical installation.



垂直安装/Vertical installation

注：水平安装方式请与我司联系。

Note: for horizontal installation, please contact us.

6、使用和维护/ Use and Maintenance

1. 应按规定的条件和使用环境安装。
1. It is required to carry out the installation according to the specified conditions and use environment.
2. 触点间的绝缘电阻低于50MΩ时寿命已到极限需要更换产品。
2. Replace the product when the life has reached to its end in case the insulation resistance between contacts is below 50MΩ.

7、注意事项/ Precautions

1. 接触器线圈的驱动电路功率必须大于产品线圈启动功率。
1. The drive circuit power of the contactor coil must be greater than the coil's starting power.
2. 严禁在强磁场的地方或者靠近热辐射的范围内使用。
2. It is strictly forbidden to use the product in places with strong magnetic fields or in proximity to thermal radiation.
3. 扭力范围：

型号	负载端	产品固定安装
NDZ3(X、W)-50(B)/100(B) NDZ3S-10/20/100/150	M5螺钉 3.5~4.5N.m	M4螺钉 2~3.5N.m
NDZ3(X)-150 NDZ3S-200/250	M6螺钉 4~5N.m	M5螺钉 3~4N.m
NDZ3(X)-150J NDZ3W-150 NDZ3(W)-200/250/300	M8螺母 7~8N.m	M5螺钉 3~4N.m

注：为防止出现松动，凡安装接触器时均要使用垫圈。拧紧螺钉扭力范围请按要求，超出扭力最大值可导致产品破裂。
各个部位的螺钉锁紧扭矩请控制在上述的规定范围内。超出范围时可能会造成密封腔破裂及螺纹破损。

3. Torque range :

Model	Load end installation	Product fixed installation
NDZ3(X,W)-50(B)/100(B) NDZ3S-10/20/100/150	M5 screw 3.5~4.5N.m	M4 screw 2~3.5N.m
NDZ3(X)-150 NDZ3S-200/250	M6 screw 4~5N.m	M5 screw 3~4N.m
NDZ3(X)-150J NDZ3W-150 NDZ3(W)-200/250/300	M8 nut 7~8N.m	M5 screw 3~4N.m

Note: In order to prevent looseness, always use washers when installing contactors. Tighten the screw torque range as required. Exceeding the maximum torque can lead to product rupture. Please control the screw locking torque at each position within the range specified above. If out of range, the seal chamber may be cracked and the thread may be broken.

4. 请避免在接线端上粘附油脂等异物，并使用以下规格的连接导线，否则有可能会造成接线部分的异常发热。

4. Avoid adhering grease and other foreign matters on the wiring terminals and use the connecting conductors with the following specifications, which may otherwise lead to the abnormal heating of the terminals or conductors.

NDZ3S-10: 导线截面积 $\geq 2\text{mm}^2$;

NDZ3S-10: Wire cross-section area $\geq 2\text{mm}^2$;

NDZ3S-20: 导线截面积 $\geq 4\text{mm}^2$;

NDZ3S-20: Wire cross-section area $\geq 4\text{mm}^2$;

NDZ3(X、W)-50: 导线截面积 $\geq 10\text{mm}^2$;

NDZ3(X, W)-50: Wire cross-section area $\geq 10\text{mm}^2$;

NDZ3(X、W、S)-100: 导线截面积 $\geq 35\text{mm}^2$;

NDZ3(X, W, S)-100: Wire cross-section area $\geq 35\text{mm}^2$;

NDZ3(X、W、S)-150: 导线截面积 $\geq 50\text{mm}^2$;

NDZ3(X, W, S)-150: Wire cross-section area $\geq 50\text{mm}^2$;

NDZ3(X、W、S)-200: 导线截面积 $\geq 95\text{mm}^2$;

NDZ3(X, W, S)-200: Wire cross-section area $\geq 95\text{mm}^2$;

NDZ3(X、W、S)-250: 导线截面积 $\geq 120\text{mm}^2$;

NDZ3(X, W, S)-250: Wire cross-section area $\geq 120\text{mm}^2$;

NDZ3(X、W)-300: 导线截面积 $\geq 185\text{mm}^2$;

NDZ3(X, W)-300: Wire cross-section area $\geq 185\text{mm}^2$ 。



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