## 一、用途及适用范围/Intended use and applicable range

1、用途/Intended use

NDC2J 家用接触器（以下简称接触器）主要适用于家用电器和类似用途的低感或微感负载以及家用电动机负载。

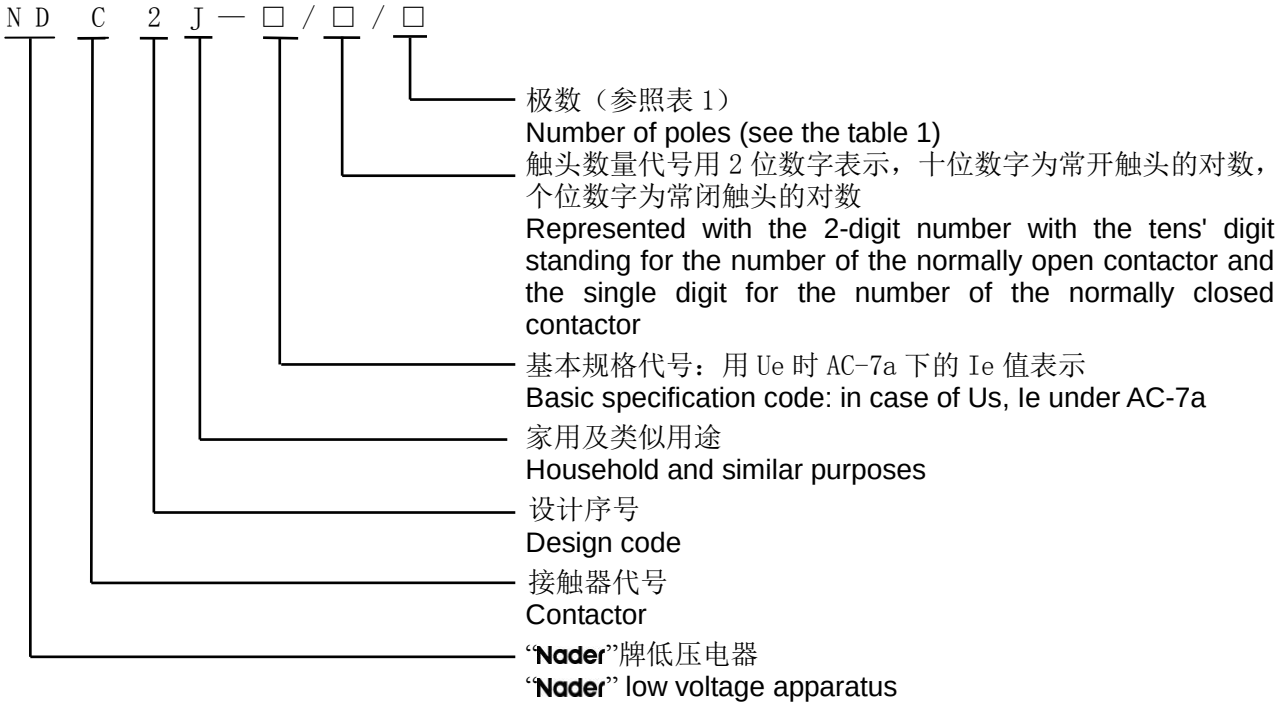
NDC2J Series household contactor (hereinafter referred to as the contactor) is mainly used for controlling the low induction or micro induction load of household appliance and similar purpose.

2、适用范围/Applicable Range

适用于工作频率为 50Hz 或 60Hz，其主触头用于连接额定电压不超过交流 400V，使用类别 AC-7a 下额定工作电流小于或等于 63A，使用类别 AC-7b 下额定工作电流小于或等于 32A，额定限制短路电流小于或等于 6kA 的电路。

Contactor is mainly used in the circuit with AC 50Hz (or 60Hz), rated insulation voltage of 400V, rated operational current less than or equal to 63A (in case of AC-7a), or rated operational current less than or equal to 32A (in case of AC-7b), rated conditional short-circuit current less than or equal to 6kA.

## 二、 产品型号及规格/Table for Model and Specification




## 三、 正常工作条件和安装条件/Normal working environment and installing environment

1、正常使用条件/ Normal using environment

1.1、环境空气温度/ Standard working temperature

周围空气温度的上限为＋40℃，其 24h 内的平均温度不超过＋35℃。周围空气温度的下限为－5℃。

The average temperature within 24 hours not exceeding +35℃.Minmum ambient temperature:－5℃.

1.2、海拔/Altitude

安装地点的海拔不超过 2000m。

The installed altitude should no more than 2000m.

1.3、大气条件/Atmospheric conditions

最高温度为＋40℃时，空气的相对湿度不超过 50%，在较低的温度下可以允许有较高的相对湿度，例如在＋20℃时相对湿度可为 90%，对由于温度变化偶尔产生的凝露应采取措施。

With the temperature of +40℃, the relative humidity in the installation location shall not exceed 50%. Under the lower temperature, the greater relative humidity is allowed. For example, in case of +20℃, the relative humidity is up to 90%. The special measures shall be taken to deal with the condensation caused by temperature change.

2、运输和储存条件/transportation and storage condition

运输和储存温度：－25℃～＋55℃，短时（24h 内）可以＋70℃。

The transportation and storage temperature: －25℃～＋55℃, short-time（within 24h）can reach+70℃.

3、安装条件/Installation conditions

3.1、安装类别为Ⅱ类。

Installation type is II.

3.2、安装处应无显著冲击和振动。

To be installed in the place free from obvious shock and vibration.

3.3、采用 TH35-7.5 型导轨安装。

To be installed on TH35mm×7.5 standard guide rail.

3.4、安装面与垂直面的倾斜度不大于 5°。

The gradient between the installation surface and vertical surface not more than ±5°.

## 四、主要参数/Main parameter

1、产品的主要技术参数见表 1 /Please refer to table 1 for main specification

表 1 主要技术参数/Main parameter:

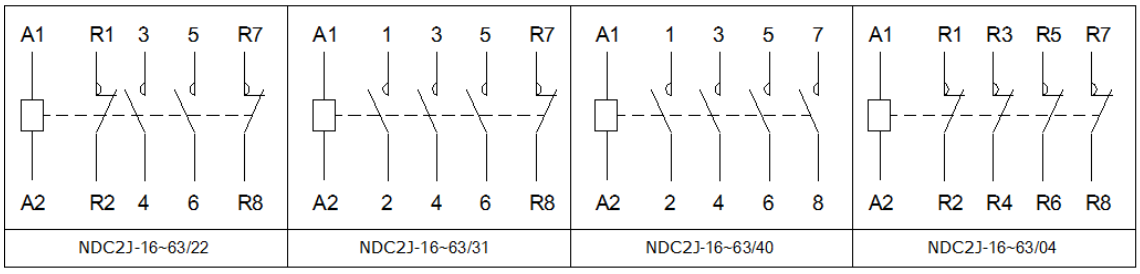
| 产品型号 Model | 极数 Number of poles | 触头数量 Number of contactors | 使用类别 Use type | 额定绝缘电压(V) Rated insulation | 额定工作电压(V) Rated operational | 控制电压(V) Control pressure | 启动功耗(VA) Staring power | 保持功耗(VA) Keeping power | 额定工作电流(A) Rated operational | 控制功率(kW) Control power |
|---|---|---|---|---|---|---|---|---|---|---|
| NDC2J-16 | 1P 2P | 10, 01 11, 20 | AC-7a/ AC-7b | 500 | 250 | 220/240 50Hz | 9.2 | 2.7 | 16/6 | 2.8/1 |
| NDC2J-20 | | | | | | | | | 20/7 | 4/1.2 |
| NDC2J-25 | | | | | | | | | 25/8.5 | 5.4/1.5 |
| NDC2J-16 | 3P 4P | 30, 03 22, 31, 40, 04 | | | 400 | | 34 | 4.6 | 16/6 | 10/2.5 |
| NDC2J-20 | | | | | | | | | 20/7 | 12.5/3.3 |
| NDC2J-25 | | | | | | | | | 25/8.5 | 16/4 |
| NDC2J-32 | 1P 2P | 10, 01 11, 20, 02 | | | 250 | | 34 | 4.6 | 32/12 | 6.5/1.9 |
| NDC2J-40 | | | | | | | | | 40/15 | 8.4/2.4 |
| NDC2J-63 | | | | | | | | | 63/25 | 13/3.8 |
| NDC2J-32 | 3P 4P | 30, 03 22, 31, 40, 04 | | | 400 | | 53 | 6.5 | 32/12 | 20.5/5.6 |
| NDC2J-40 | | | | | | | | | 40/15 | 26/7 |
| NDC2J-63 | | | | | | | | | 63/25 | 41/11.7 |

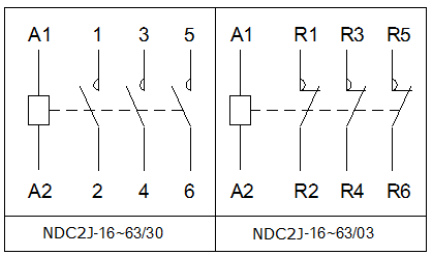
2、动作（操作）条件/Operation conditions

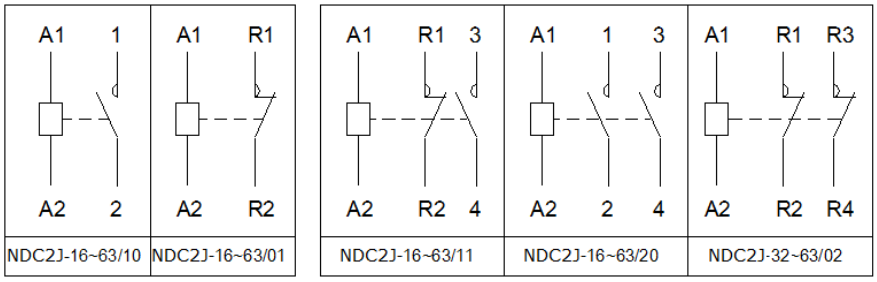
在周围空气温度为－5℃～＋40℃范围内，对接触器吸引线圈施以额定控制电源电压 Us，使其发热至稳定状态时，接触器在额定控制电源电压 Us 的 85%和 110%之间吸合，在额定控制电源电压 Us 的 75%和 20%之间释放和断开。

While the ambient temperature is within －5℃～＋40℃, apply the rated control supply voltage Us to the sucking coil of the contactor, heat it to the stable state, then the contactor will pick up with 85%-110% rated control supply voltage Us and release and disconnect with 20%-75% rated control supply voltage Us.

3、接线图/Wiring diagram



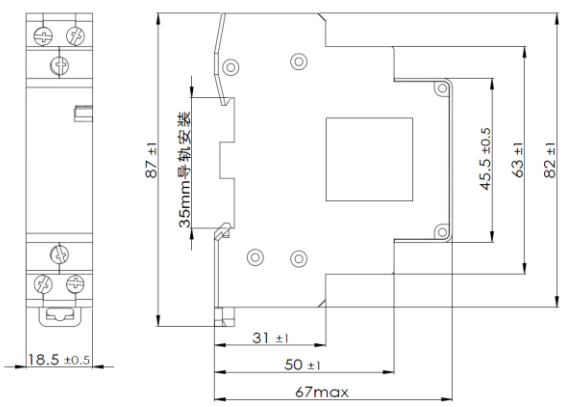



4、接线能力/Wiring ability

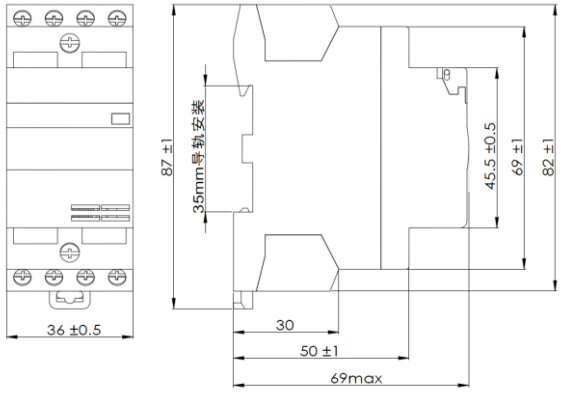
| 型号 Model | 接线螺钉规格 Specification of terminal | 拧紧力矩 Tightening torque | 连接导线 Connecting wire | |
|---|---|---|---|---|
| NDC2J-16～63 | M3.5 | 0.8~1.2N·m | 1.5 $mm^2$ / 1-3 根 | 1.5 $mm^2$ / 1-3 nos. |
| | | | 6 $mm^2$ / 1 根 | 6$mm^2$ / 1-3 nos. |
| | M5 | 3.5~3.8N·m | 10 $mm^2$ / 1-2 根 | 10$mm^2$ / 1-2nos. |
| | | | 25 $mm^2$ / 1 根 | 25 $mm^2$ / 1nos. |

## 五、外形及安装尺寸（单位：mm）/External and installation dimensions（unit：mm）

1、NDC2J-16～25 安装尺寸/Installation dimensions

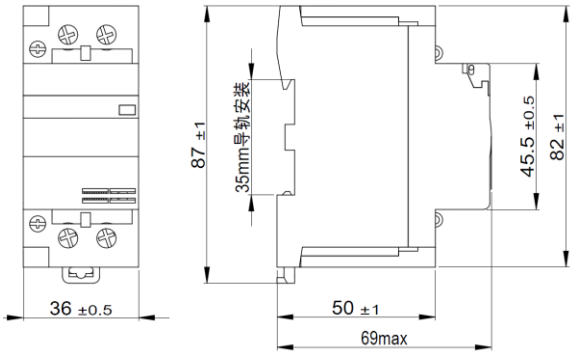



1P/2P

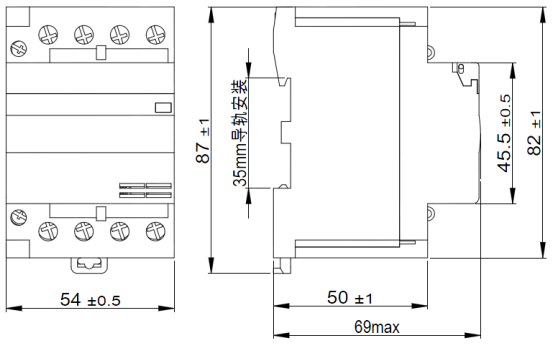



3P/4P

2、NDC2J-32～63 安装尺寸/Installation dimensions




1P/2P




3P/4P

## 六、附件/Auxiliary

1、NF8-11 辅助触头/NF8-11 auxiliary contact

1.1、适用范围/Application

NF8-11 辅助触头是 NDC2J 交流接触器选配的附件，拼装在接触器右侧，作控制各种电磁线圈、放大或传递信号之用。适配的本体接触器型号：NDC2J-32、NDC2J-40、NDC2J-63。主要用于交流 50Hz/60Hz，额定电压 230V、240V，以及直流 130V

的控制回路中。

NF8-11 auxiliary contact is assembled at the right side of the NDC2J construction AC contactor to control the solenoid coil or amplify or transmit the signal. It is adaptive to these contactors: NDC2J-32、NDC2J-40 and NDC2J-63. It is mainly used in the AC 50Hz / 60Hz control circuit with the rated voltage of 230V ,240V and DC 130V control circuit.

1.2、NF8-11 辅助触头主要技术参数/Main parameters of NF8-11 auxiliary contact

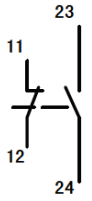
1.2.1 不同使用类别下的额定工作电压及额定工作电流/Rated operational voltage and current in the different utilization category

| 使用类别 Utilization category： | AC-15 | AC-12 | DC-13 |
|---|---|---|---|
| 额定工作电压/电流 Rated operational voltage/ current： | AC230V/ 2A | AC240V/5A | DC130V/1A |

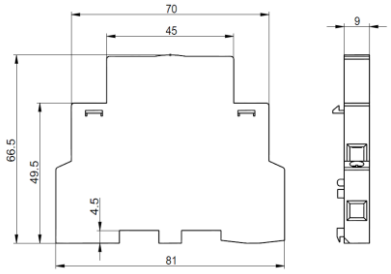
1.2.2 接线能力/Wiring ability

| 型号 Model | 接线螺钉规格 Specification of terminal | 拧紧力矩 Tightening torque | 连接导线 Connecting wire |
|---|---|---|---|
| NF8-11 | M3.5 | 0.8~1.2N·m | 1 $mm^2$ / 1-2 根　1$mm^2$ / 1-2 nos. |
| | | | 2.5 $mm^2$ / 1-2 根　2.5$mm^2$ / 1-2 nos. |

1.3、NF8-11 辅助触头接线图、以及外形安装尺寸/Wiring and installation dimension drawing of NF8-11 auxiliary contact

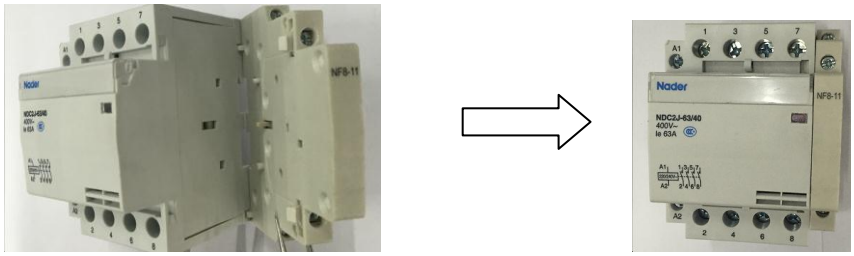



接线图
Wiring diagram




外形尺寸
External dimensions

1.4、NF8-11 辅助触头与接触器本体拼装示意图/Assembly diagram of the NF8-11 auxiliary contact and the construction contactor

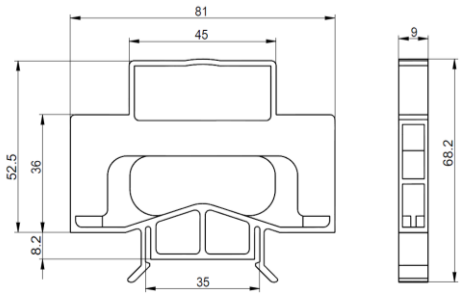


2、间隔件/Panel

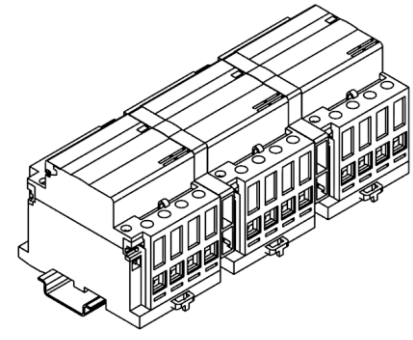
2.1、适用范围/Application

当两台或两台以上的 4 极接触器并排安装时，可以在相邻接触器之间安装间隔件，以利于散热。

When 2 or more 4-phase contactors which operate at the same time are mounted side by side, the panel should be fitted every 2 contactors to separate them from electromechanical temperature.




外形尺寸
External dimensions



安装示意图
Installation diagram

## 七、注意事项/Attentions

产品安装、操作、维修必须由具备资质的专业电工遵照相关制度、法规安装标准及安全规范完成。接触器通电操作前，必须检查接入控制线圈的供电电源的实际电压，严禁触及带电部件。

The operation,installation,and servicing of this appliance must be carried out by a qualified electrician applying the relevant rules of the art,installation standards and safety regulations. Before operating the contactors,check that the data of the coil. Connection to other control voltage can destroy the coil. Don't touch live parts.

## 八、订货须知/Ordering Notice

1、订货时请写明接触器的型号、规格、是否需要配附件、订货数量。

While ordering, state the model, specification, accessory (whether to need) and quantity of the contactor.

例如：NDC2J-63/40/4P 建筑用接触器 配 NF8-11 附件 100 台

表示为额定工作电流为 63A，4 极，4 组常开触点，配 NF8-11 附件，订货数量为 100 台

Representing: order 100 sets of 4-pole contactors with rated operational current of 63A, of which the main circuit has 4 sets of normally open contacts, NF8-11 accessory needed.

2、NF8-11 辅助触头及间隔件可单独订货。

NF8-11 auxiliary contact and panle could be ordered separately.