

	文件名称 File Name	使用说明书 Operation instruction	文件编号 File Number	NDT2920098
	产品型号及名称 Model and Name of Product	NDC1(Z)(N)40~95 系列接触器 NDC1(Z)(N)40~95 Series Contactor	版次 Version	第 3 版 Version3
			实施日期 Implementation Date	20200605

Nader Electrical · Foresee the Future
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NDC1/NDC1Z/NDC1N-40~95 系列

接触器使用说明书

NDC1/NDC1Z/NDC1N-40~95 Series AC Contactor Using Instruction

Nader 良信电器

编制/日期 Drafted by/Date	路晓苗/20160510 Lu Xiaomiao/20160510	审核/日期 Reviewed by/ Date	白亚亚/20160510 Bai Yaya/20160510	批准/日期 Approved by/ Date	刘长友/20160510 Liu Changyou20160510
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修订记录
Revision History

版次 Version	修订内容 Revision Contents	修订日期 Revision Date	修订人员 Revised by
0	新增 Some contents were added.	20160510	路晓苗 Lu Xiaomiao
1	修订 Revision	201706013	白亚亚 Bai Yaya
2	修改部分外形参数	20181019	简水毛 Jian Shuimao
3	修改序三接线图上的产品型号	20200605	白亚亚 Bai Yaya

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一、适用范围与用途 Intended use and applicable range

NDC1(Z、N)-40~95 系列交流接触器(以下简称接触器),主要用于交流 50Hz(或 60Hz)、额定电压至 690V,在 AC-3 使用类别下额定工作电压为 415V 时额定工作电流 40A 至 95A 的电路中,供远距离接通、分断电路及频繁起动、控制交流电动机;和适当的热过载继电器组合,保护可能发生过负荷的电路之用。

NDC1(Z、N)-40~95 series AC contactor is used in AC 50Hz(or60Hz),rated insulation voltage is up to 690V,and rated current is 40A~95A under rated voltage 415V, to realize distant connection and disconnection of the circuit and constant starting to control AC motors. It can also be used with thermal relay and electric protecting devices to protect circuit against possible overload.

二、应用范围 Applicable range

1、适用环境 Application Environment

标准使用环境温度: -25℃ ~ +40℃; Standard use of ambient temperature -25℃ ~ +40℃

极限使用环境温度: -40℃ ~ +70℃; Limit the use of ambient temperature -40℃ ~ +70℃

存储温度: -60℃ ~ +80℃; Storage temperature -60℃ ~ +80℃

正常使用海拔高度: ≤3000 米; Normal use Altitude: ≤3000 meters;

极限使用海拔高度: ≤5000 米; Limit use Altitude: ≤5000 meters;

环境湿度要求 Environmental humidity

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,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. The special measures shall be taken to deal with the condensation caused by temperature change.

2、污染等级 Pollution grade

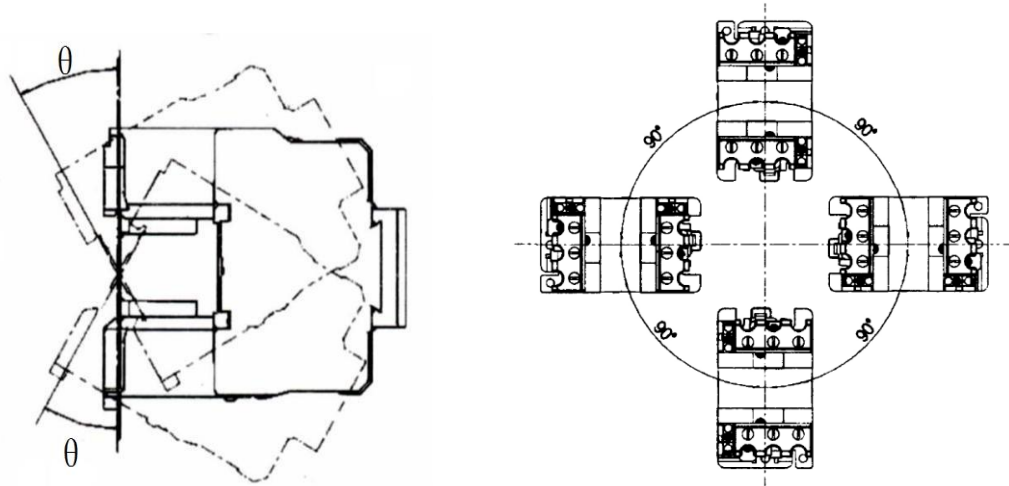
3 级 Grade 3

3、安装方向 Installation direction

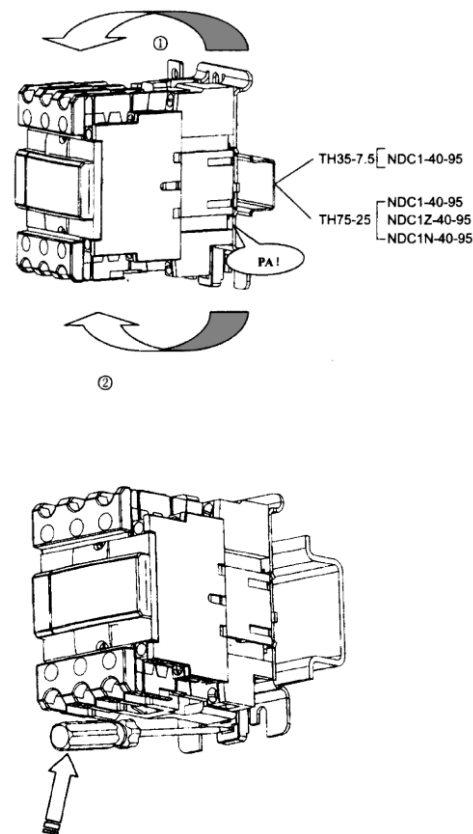
垂直安装,安装面与垂直面的倾斜度为 θ : 标准安装 $\pm 5^\circ$, 极限安装 $\pm 30^\circ$ 。

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Vertical installed, the tilt gradient with vertical face should be θ : standard installed $\pm 5^\circ$, limit installed $\pm 30^\circ$.



4、安装及拆卸方式 Installation & Disassembly



安装:

放在 35mm 或者 75mm 标准卡轨上用力按下，当听到“啪”的响声时，说明接触器已经正确的安装到卡轨上了，轻微摇晃并推动接触器，可以在卡轨上移动到适当位置。如果不用卡轨安装，也可以用螺钉将接触器固定在所需要的位置上。

Installation:

Fit contactor on to the upper side of 35mm DIN track then push it to make it fit with the down side of DIN track. When there is a sound “P”, contactor is installed on the right position. Shake the product from side to side can speed up the

拆卸:

用一字螺丝刀将白色卡块撬起，即可将接触器从卡轨上取下。

Disassembly:

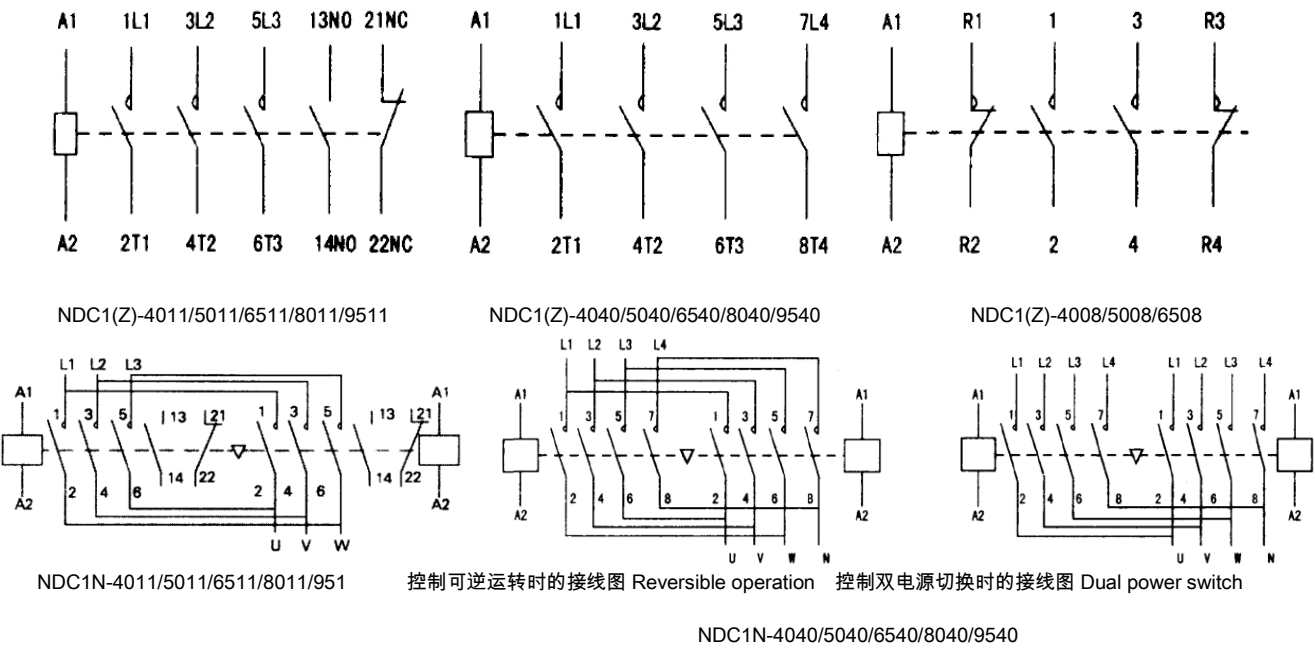
Use flat tip screwdriver to release the white fixing claw. Then pull contactor off the DIN track.

5、接触器能源效率/Energy Efficiency for AC contactor

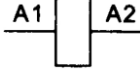
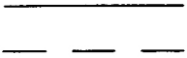
能效等级为：2 级。Energy Efficiency Grades: 2 Grade。

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三、接线图/Circuit



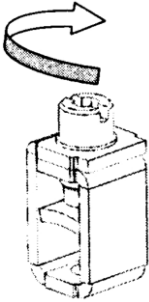
四、线圈特性/Coil Characteristics

					
Rated control circuit voltage / 控制电压范围		V	24~415V 50/60Hz	24~220V	
Control voltage limits 动作特性	Operation/ 吸合	V	0.75Us~1.1Us	0.85Us~1.1Us	
	Drop-out/ 释放	V	0.2Us~0.6Us	0.1Us~0.75Us	
Consumption at 20°C 功耗	Inrush/ 动作	VA	200	22	
	Sealed/ 保持	VA	20	22	

五、接线能力/Connecting Characteristics

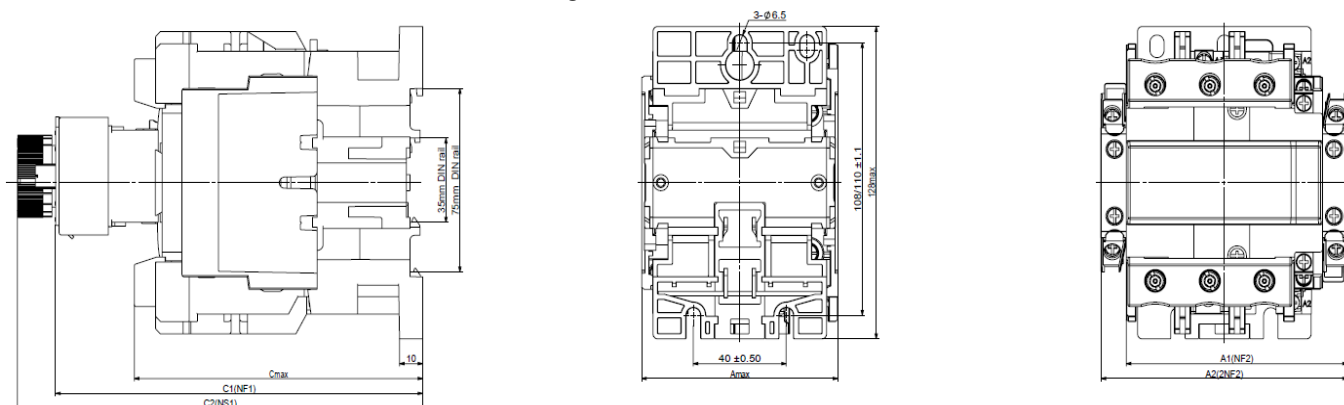
Main Terminal 主端子	Rigid Solid 硬线		Flexible 软线		Cold-compacting Terminals 冷压端头软线			Philips 十字螺刀	Slotted 一字螺刀	Hexagon 六角螺刀
	One 一根	Two 两根	One 一根	Two 两根	One 一根	Two 两根	One 一根			

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		 [mm²]		 [mm²]		 [mm²]		 [mm]	 [#] [N.m]	 [Φ] [N.m]	 [#][N.m]
Main Terminal 主端子	NDC1-40/50/65	2.5~25	2.5~16	2.5~25	2.5~16	2.5~25	2.5~10	—	—	Φ6Φ8 5 N.m	—
	NDC1-80/95	4~50	4~25	4~50	4~25	4~50	4~16	—	—	Φ6Φ8 9 N.m	4# 9 N.m
Auxiliary(Coil) Terminal 辅助(线圈)端子	NDC1-40~95	1~4					1~4	1~2.5	8	2# Φ6 1.2 N.m	—

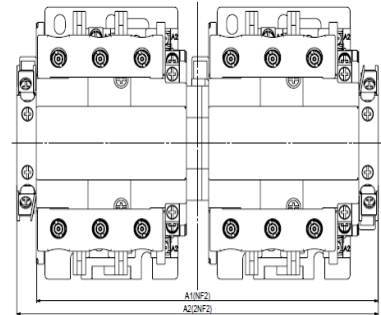
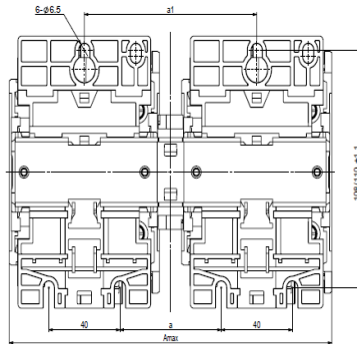
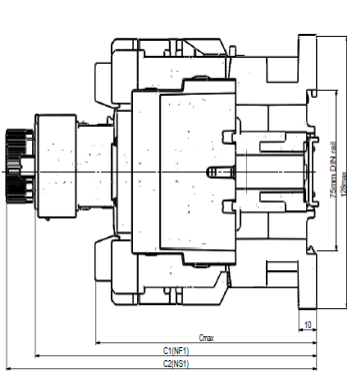
注：为保证接线端子的紧固性不建议使用经搪锡处理的软线。

六、外形及安装尺寸/Outline and installing dimension



Type	Amax	A1	A2	Cmax	C1	C2
NDC1-4011/5011/6511	75	90	102	112	149	169
NDC1-4040/5040/6540	85	99	110	112	149	169
NDC1-4008/5008/6508	85	99	110	125	149	169
NDC1-8011/9511	85	100	110	122	157	177
NDC1-8040/9540	96	110	122			
NDC1Z-4011/5011/6511	75	—	—	175	204	224
NDC1Z-4040/5040/6540	85	—	—			
NDC1Z-8011/9511	85	—	—	176	213	233
NDC1Z-8040/9540	96	—	—			

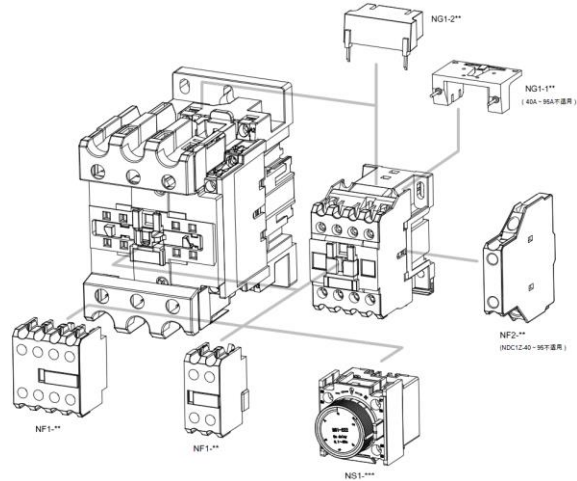
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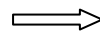
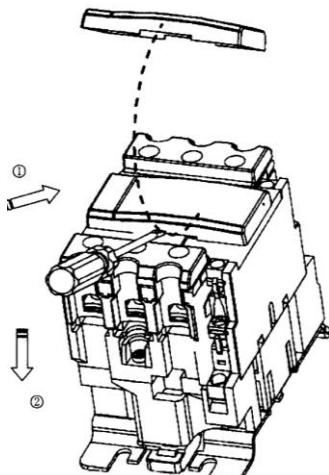
单位 : mm

Type	Amax	A1	A2	Bmax	Cmax	a	a1	b	C1	C2	Φ
NDC1N-4011~6511	166	178	192	138	145	50±0.50	90±0.70	108/110(±1.1)	149	169	6.5
NDC1N-4040~6540	185	194	205	146	162	57±0.50	97±0.70				
NDC1N-8011/9511	185	194	205	146	162	57±0.50	96±0.70		156	176	
NDC1N-8040/9540	206	220	232	152	170	71±0.70	111±1				

七、附件/Accessories



八、附件安装/Accessories installation

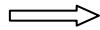
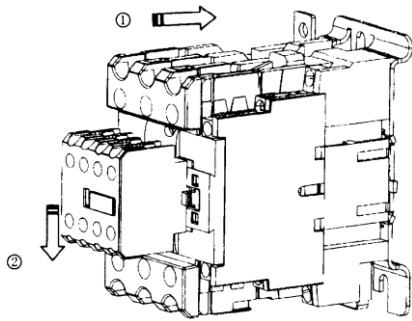


当要在顶部安装附件时，透明防护罩必须取掉，方法是①将一字螺丝刀插入透明防护罩和接触器之间②压下螺丝刀手柄。

When installing accessories, the transparent cover of contactor normally is to be disassembled.

Method:①Put flat tip of screwdriver in the slot between the cover and the main body of contactor. ②Push down the handle of screwdriver.

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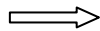
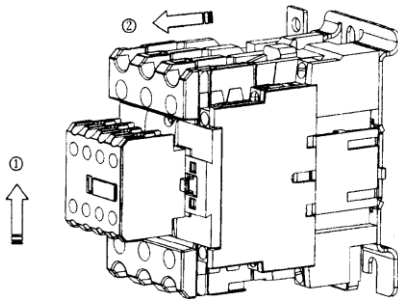


安装 NF1/NS1 系列辅助触头组：

- ①NF1/NS1 放在接触器面板相应的挂钩处；
- ②将 NF1/NS1 沿接触器本体方向向下移动，直到听到“啪”的响声。

Installation of NF1/NS1 series auxiliary contact group:

- ①Put NF1/NS1 on the corresponding position of bracket of contactor.
- ②Move NF1/NS1 down along the surface of main body until there is a sound “PA”.the handle of screwdriver.

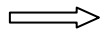
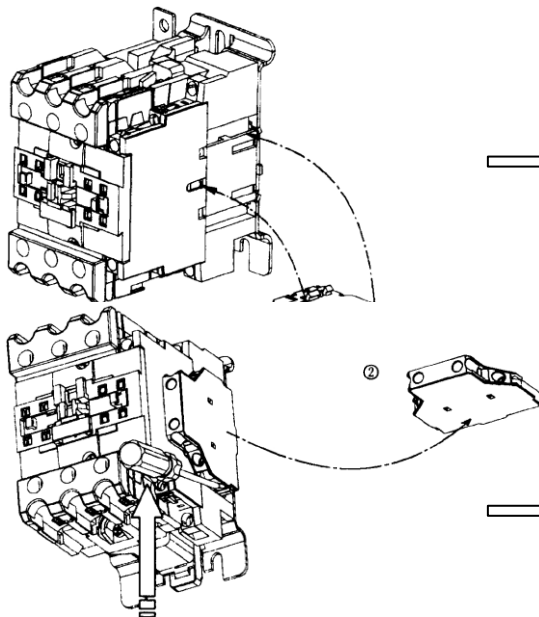


NF1/NS1 辅助触头组的拆卸：

- ①按下 NF1/NS1 下面的白色卡块使其解除与接触器的连接；
- ②沿接触器面板向上移动 NF1/NS1 直到与接触器分离。

Disassembly of NF1/NS1 series auxiliary contact group:

- ①Pull the fixing claw of NF1/NS1 to make it release from the contactor.
- ②Move NF1/NS1 up along the surface of main body.

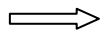


安装 NF2 辅助触头组的方法：

首先将 NF2 有挂钩一侧放到接触器相应位置，然后挂上一侧的挂钩后用力按 NF2 使其与接触器本体接触并直到挂钩挂到位。

Installation of NF2 series auxiliary contact group:

First put the upper part of NF2 on the corresponding position of contactor. Then press the bottom part of NF2 on the main body and



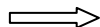
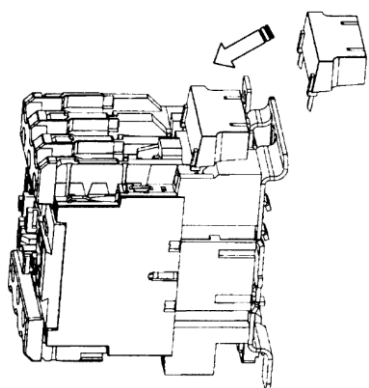
NF2 辅助触头组的拆卸：

用螺丝刀将 NF2 的固定挂钩撬起，然后移动 NF2 与接触器分离。

Disassembly of NF2 series auxiliary contact group:

Release the fixing claw of NF2 with flat up screwdriver (shake it from side to side). Then remove NF2 from the main body of contactor.

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安装 NG1 线圈浪涌抑制模块：

将 NG1 (插装式) 引脚插入接触器线圈接线端，用螺丝刀拧紧螺钉固定。

Installation of NG1 series coil surge refraining module:

Put the two lugs of NG1 (insert type) into the right terminals of contactor. Use screwdriver to fasten it.

九、订货须知/Order Remark

订货时应指明 In order need attention following:

- 1、接触器的全部型号及名称；entitle type of contactor；
- 2、控制线圈频率及电压；frequency and voltage of control coil;
- 3、订货数量 order volume

例如：NDC1-4011 AC220V 50/60Hz 交流接触器 10 台；

Example: AC contactor NDC1-4011 220V 50/60Hz 10 sets.

表示：额定工作电流为 40A 交流接触器，控制电压的频率为 50/60Hz,电压为 220V，订货数量 10 台。

Representing: order 10 sets of contactors with rated operational current of 40A, rated voltage of 220V and control voltage frequency of 50/60Hz.

- 4、特殊电压规格产品，如客户需要可特殊订货。

Special voltage character product, can special customize if need.



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