

上海良信电器股份有限公司

NDC2(N)-06~16

交流接触器

产品规格书

(IPD-ENG-DEV-T20 A1 2016-09-23)

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批准	崔晓明	日期	2022.10.24

修订记录					
版本	修订原因/内容	实施日期	编制人	审核人	批准人
0	新增	2015/10/04	白亚亚	简水毛	于贻鹏
1	升版	2017/1/04	白亚亚	简水毛	于贻鹏
2	升版	2020/03/09	王环宇	简水毛	于贻鹏
3	升版	2022/10/24	潘婉玲	刘杰	崔晓明

1、用途 Application

NDC2(N)-06~16 系列交流接触器(以下简称接触器),主要用于交流 50Hz(或 60Hz),额定绝缘电压为 690V,在 AC-3 使用类别下额定工作电压为 415V 时额定工作电流 6A 至 16A 的电路中,供远距离接通与分断电路及频繁起动、控制交流电动机;并可与适当的热过载继电器或电子式保护装置组成电动机起动器,以保护可能发生过载的电路。

NDC2-06~16 series AC Contactor(hereafter called contactor), which used in 50Hz(60Hz) AC circuit with the rated voltage of 1000V. It is used in AC-3 type, with the rated working voltage of 415V and rated working current of 16A, 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.

2、产品外形图片(仅供参考) Product Pictures (just for reference)



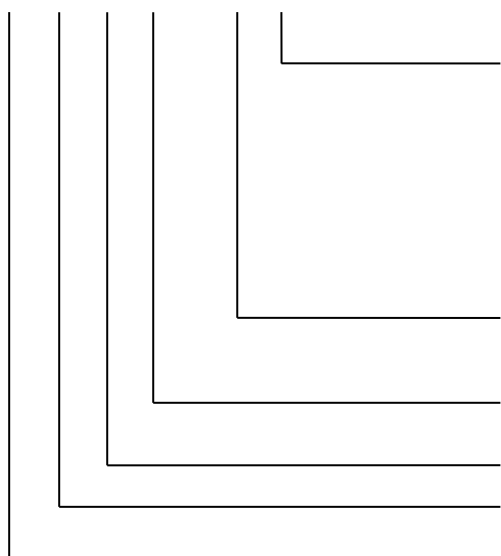
NDC2-06~16



NDC1N-06~16

3、规格型号说明 Specification and Model Description

ND C 2 □ — □ □



三极接触器的辅助头数量代号用 2 位数字表示:

“10”表示一对常开辅助触头, “01”表示一对常闭辅助触头

四极接触器代表的主触头数量:

“40”表示四对常开主触头; “08”表示两常开两常闭主触头

Code for auxiliary contacts of 3-P contacts. The tens digit is the number of NO contacts and the next is the number of NC contacts. The main contacts of 4P contactor: “40” represents 4 main NO contacts, and “08” represents 2 NO contacts and 2 NC contacts.

基本规格代号: 用 415V 时 AC-3 下 I_e 值的安培数表示 06. 09. 12. 16

The basic specifications code - named 415V、AC-3 under the conditions of use value of I_e said that figures: 06. 09. 12. 16
可逆接触器 Reversible contactor

设计序号 Designing Serial Number

交流接触器代号 AC contactor

“Nader”牌低压电器 Nader Brand

4、技术参数 Technical parameter

型号 type			NDC2 (N) -06	NDC2 (N) -09	NDC2 (N) -12	NDC2 (N) -16
额定工作电流 Ie(AC-3) A Rated working current (A) Ie(AC-3)		380/415V	6	9	12	16
		660/690V	3.8	4.9	4.9	4.9
额定工作电流 Ie(AC-4) A Rated working current (A) Ie(AC-4)		380/415V	2.3	3.2	4.2	5.6
约定发热电流 Ith A Set heating current Ith A			20			
额定绝缘电压 Ue V Rated insulation voltage Ue V			690			
冲击耐受电压 Uimp kV Impulse tolerance voltage Uimp kV			8			
额定工作电压 Ue V Rated working voltage Ue V			220/230 380/415 660/690			
额定接通/分断能力 Ue V Rated switching/breaking capacity Ue V			AC-3:10Ie/8Ie AC-4:12Ie/10Ie			
AC-3 (6Ie、Ie)	电寿命（次）Electrical life		100 万			
	操作频率 h ⁻¹ Max operating frequency h ⁻¹		1200			
AC-4 (6Ie、6Ie)	电寿命 次		20 万			
	操作频率 次/小时		600			
	额定工作电流 Ie A Rated work current	220/230V	2.4	3.5	4.4	5.7
		380/415V	2.3	3.3	4.3	5.6
短时允许耐受电流，从冷态开始，周 围温度≤40℃/A Short-time withstand current A		10s	128			
		1min	80			
		10min	45			
额定限制短路电流 Iq/kA Rated limited short-circuit current Iq kA			50			
线圈 Coil	额定控制电压 Us V Rated controlling voltage Us V		AC（50Hz、50/60Hz）：24、36、48、110、220/230、380/415			
	吸合电压 Pick-up voltage		0.85Us～1.10Us			
	释放电压 Drop-out voltage		0.20Us～0.75Us			
	线圈功率 VA（50Hz、 50/60Hz） Coil power 50Hz、 50/60Hz	起动 Pick-up	30			
		吸持 Maintain	5			

机械寿命 (次) Mechanical life			1000 万
辅助触头 Auxiliary contact	约定自由空气发热电流 I _{th} A Set heating current I _{th} A		10A
	寿命 (次) Mechanical life 10 ⁴	AC-15 (360VA)	100 万
		DC-13 (33W)	100 万
	可接通最小负载 Min load connected		24V 10mA

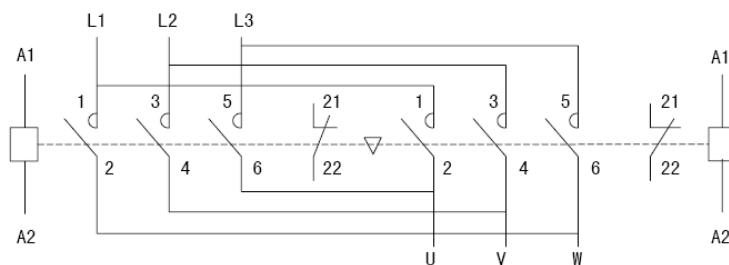
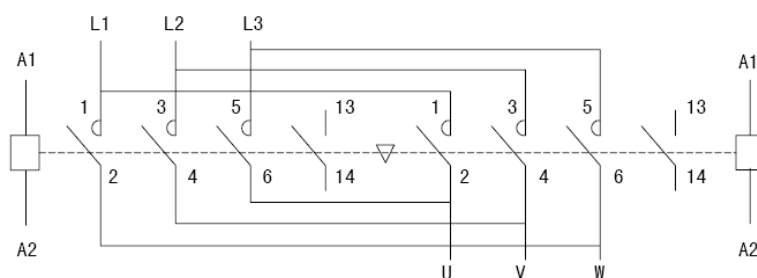
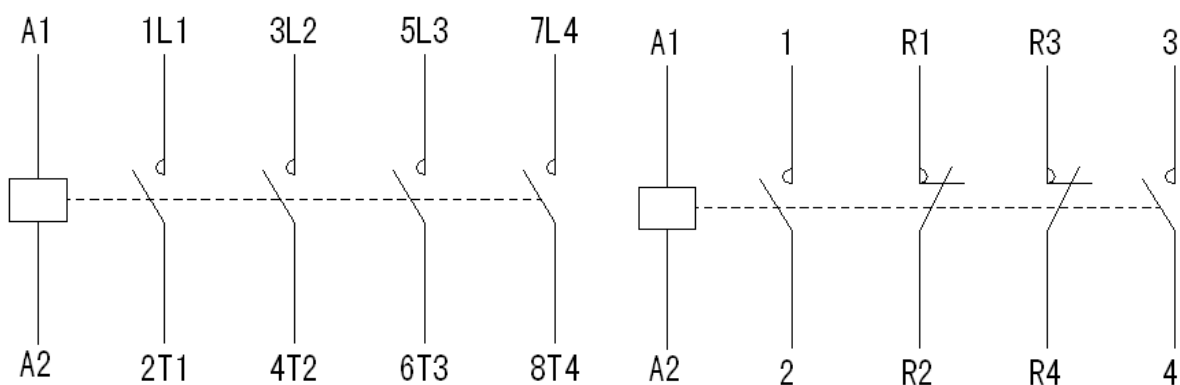
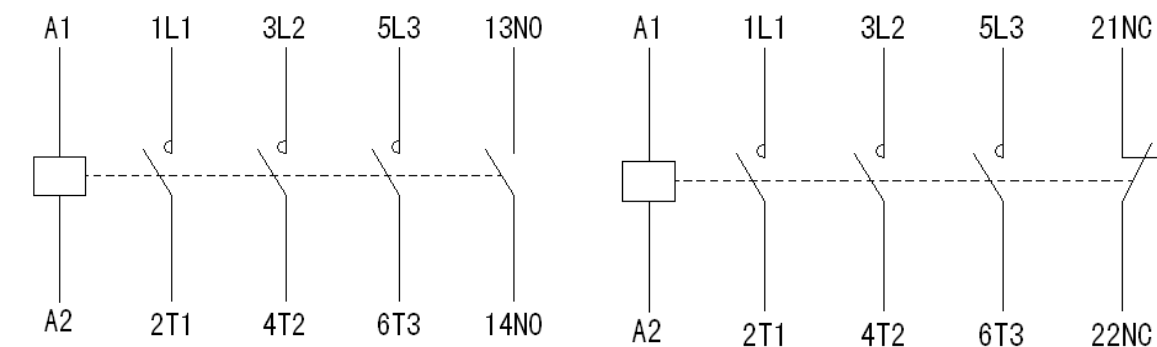
4.1 接线能力/Connecting Characteristics

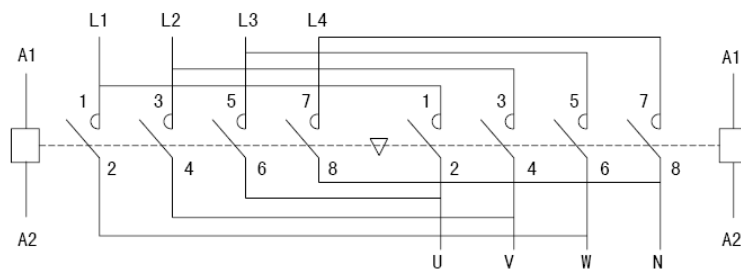
Rigid Solid 硬线		Flexible 软线		Cold-compacting Terminals 冷压端头软线			Philips N° 2 十字螺 刀	Slotted Φ6 Φ6	Tightening Torque 紧固力矩		
One 一根	Two 两根	One 一根	Two 两根	One 一根	Two 两根	One 一根					
									C N. m	L mm	Φ mm
1.5~4	1.5~4 + 1.5~4	0.75~4	0.75~4 + 0.75~4	0.34~2.5	0.34~1.5 + 0.34~2.5	7	/	/	0.8~1.0	7	3

5、正常工作环境 Working condition

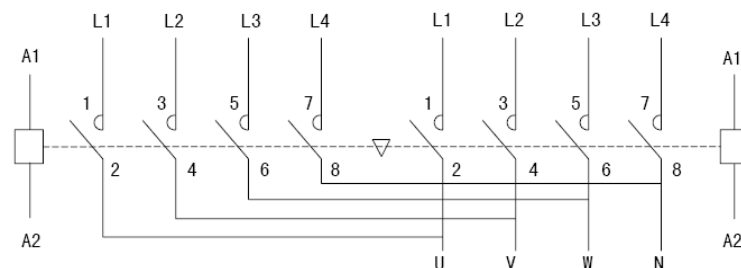
- 1) 储存: -60℃~+80℃; 运行: -25℃~+40℃, 周围空气中无酸性, 碱性或其它腐蚀性气体。
- 2) 安装地点的海拔不超过 3000 米;
- 3) 安装地点的相对湿度在温度为+40℃时, 空气的相对湿度不超过 50%, 在较低的温度下可以允许有较高的相对湿度, 例如 20℃时达 95%对由于温度变化偶尔产生的凝露应采取特殊的措施。
- 1) Storage: -60 oC ~ +80 oC; Operation: the standard operating temperature is -25oC ~ +60 oC,
- 2) Altitude: ≤3000m. Less than 5000m for plateau type product.
- 3) The relative humidity can't be more than 50% at the temperature of +40℃. Higher relative humidity may be permitted at lower temperature, such as 90% humidity at 20℃. Special measures are necessary in case of occasional condensation due to variations in temperature

6、接线图 Wiring diagram



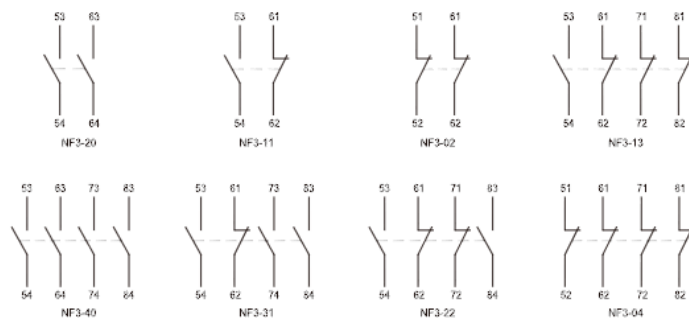


NDC2N-0640/0940/1240/1640 (控制可逆运转时的接线图 Reversible operation)

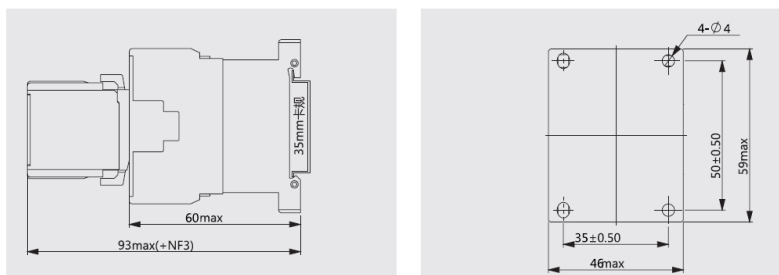


NDC2N-0640/0940/1240/1640 (控制双电源切换时的接线图 Dual power switch)

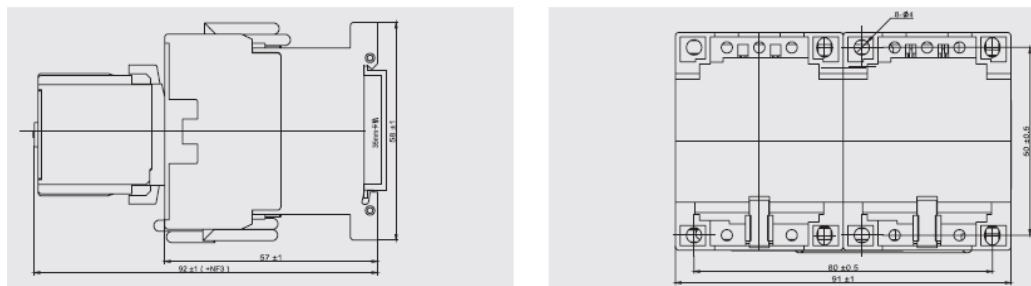
7、附件 Enclosure



8、产品外形及安装尺寸 Outline and installing dimensions



NDC2-06/09/12/16



NDC2N-06/09/12/16

9、安装方式 Mounting

螺钉安装或安装在 35mm 标准导轨上 35mm standard rail track

10、包装储存 Packaging and storage

每台组装好的产品用一个包装盒包装，并装入包装箱内，包装成箱的产品，应贮存在空气通畅，温度不高于+80℃，不低于-60℃的仓库中。周围空气中无酸性，碱性或其它腐蚀性气体的库房里贮存。

Each product is packed separately and put into the carton box. The products should be stored at temperature no higher than +80℃, no lower than -60℃. No acidity, alkaline or other corrosive gas.

11、附件清单及安装 Accessories list

使用说明书，合格证。

Operation instruction, certificate of quality

12、注意事项 Notice

- 1) 产品应安装在无显著摇动或振动的地方;
- 2) 产品垂直安装，安装面与垂直面的倾斜度不大于 $\pm 30^\circ$
- 3) 接线螺钉的紧固扭矩为 0.5N.m，辅助回路及控制电路连接的紧固扭矩为 0.5N.m，接线必须可靠，防止因接线端出现异常发热造成接线端烧损。
- 1) The product shall be installed at place without obvious swinging or vibration.
- 2) Vertical installation. The angle between installing surface and vertical surface should be less than $\pm 5^\circ$.
- 3) The torsional moment of the terminal screws is 0.5N.m while for subsidiary loop should be 0.5N.m, the wiring should be reliable and stable to prevent the terminals burning loss by abnormal heating.