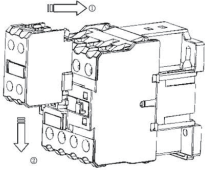


When installing accessories, the transparent cover of contactor normally is to be disassembled.

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



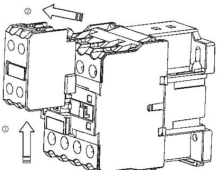
安装 NF1 系列辅助触头组：

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

Installation of NF1 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 make it clamp the main body of contactor.

- ②Move NF1 down along the surface of main body until there is a sound “PA”.



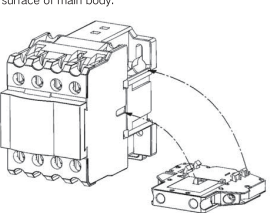
NF1 辅助触头组的拆卸：

- ①按下 NF1 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 直到与接触器分离。

Disassembly of NF1 series auxiliary contact group:

①Pull the fixing claw of NF1 to make it release from the contactor.

- ②Move NF1 up along the surface of main body.

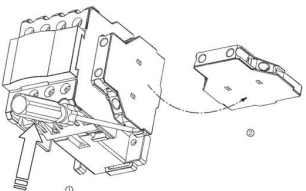


安装 NF2 辅助触头组的方法：

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 make it clamp the main body of contactor.

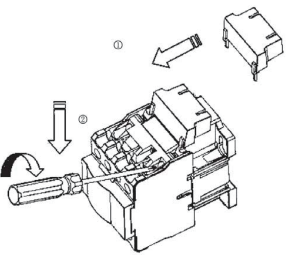


NF2 辅助触头组的拆卸：

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 tip screwdriver (shake it from side to side). Then remove NF2 from the main body of contactor.

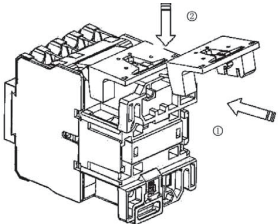


安装 NG1 线圈浪涌抑制模块：

将 NG1 (插装式)引脚插入接触器线圈接线端，用螺丝刀拧紧螺母固定。

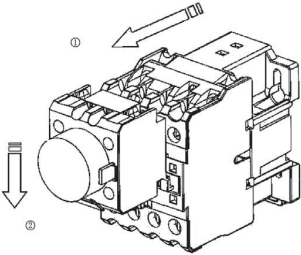
Installation of NG1 series coil surge refraining module:

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



将 NG1 卡块式的两个引脚插入接触器线圈接线端下方的孔中，然后按下 NG1 使其卡簧嵌入卡口中。

Put the two lugs of NG1 (insert type) into the holes behind of the terminals of contactor. Press it down and make it clamp the contactor.



安装和拆卸空气延时头 NS1：

安装和拆卸方法同 NF1 相同。

Installation and disassembly of NS1 pneumatic timer:

The same way as installation and disassembly method of NF1.

八、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：NDC1-0910 AC220V 50/60Hz 交流接触器 10 台；

Example: AC contactor NDC1-0910 220V 50/60Hz 10 sets.

表示：额定工作电流为 9A 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 9A, 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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一、应用范围 Applicable range

1、适用环境 Application Environment

使用环境温度/存储温度 Ambient temperature/storage temperature

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℃

使用海拔 Altitude

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，但对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

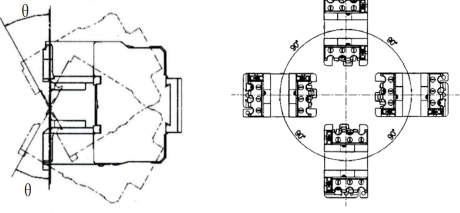
3、安装类别 Installation categories

III 类(配电及控制水平级) class III(Class of power distribution and control)

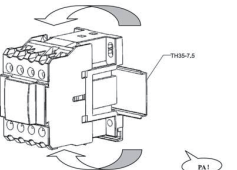
4、安装方向 Installation direction

垂直安装，安装面与垂直面的倾斜度为 θ：标准安装 ±5°，极限安装 ±30°。

Vertical installed, the tilt gradient with vertical face should be θ:standard installed ±5°, limit installed ±30°.



5、安装及拆卸方式 Installation & Disassembly

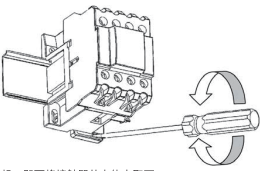


安装：

将接触器放在 35mm 标准卡轨上用力按下，当听到“嗒”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 “PA”, contactor is installed on the right position. Shake the product from side to side can speed up the installation. If there are no DIN track, contractor can be fixed on the right position with serews.



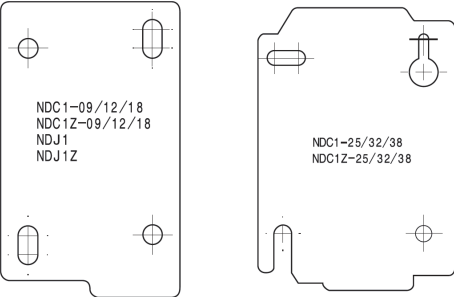
拆卸：

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.

6、安装底板示意图/Drilling template



7、使用工作制 Working rule

八小时工作制 8h working rule

不间断工作 uninterrupted work rule

持续工作制 负载因数：40% continuous duty load factor 40%

操作频率 operating frequency

Ie≤25A 1200 次 times/小时 hour

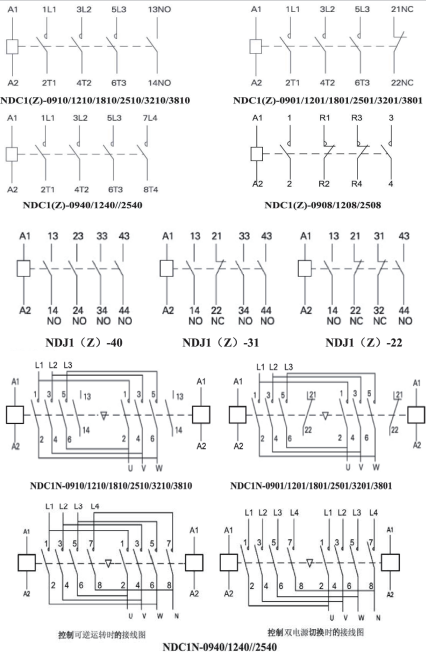
Ie > 25A 600 次 times/小时 hour

8、接触器能效等级见表：

Please refer to the following table regarding Energy Efficiency for AC contactor

产品型号/ TYPE	额定功率 VA/Holding Power (VA)	能效等级/ Energy Efficiency Grades
NDC1-09/12 NDJ1 (Z)	8.9	3 级/3 Grades
NDC1-18	9.2	3 级/3 Grades
NDC1-25	11.0	3 级/3 Grades
NDC1-32/38	11.0	2 级/2 Grades

二、接线图/Circuit



三、线圈特性/Coil Characteristics

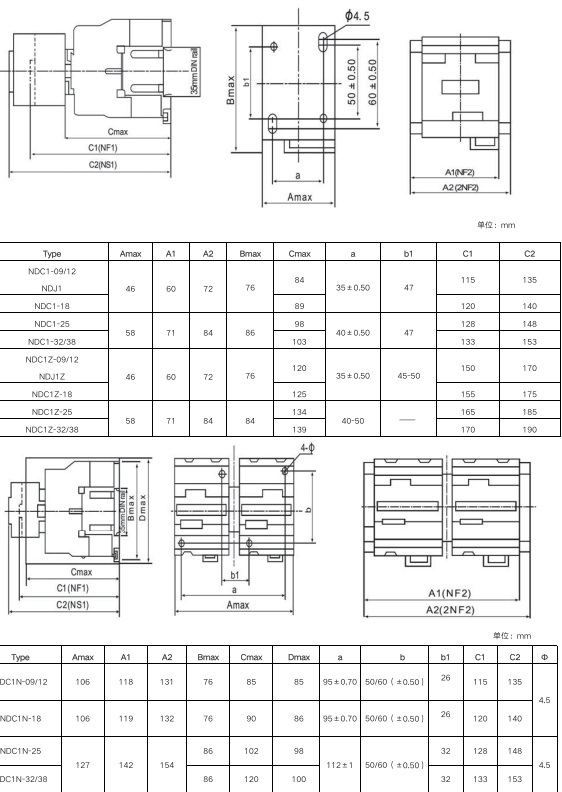
A1 A2		24-660V 50Hz、50/60Hz		24-220V	
Rated control circuit voltage / 控制电压范围	V	24-660V 50Hz、50/60Hz		24-220V	
	V	0.85Us~1.1Us		0.85Us~1.1Us	
Control voltage limits / 动作特性	Operation/ 动作	V	0.2Us~0.75Us	0.1Us~0.75Us	
Consumption at 20 ° C / 功耗	Inrush/ 动作 / Sealed/ 保持	VA	65	11	
	Inrush/ 动作 / Sealed/ 保持	VA	100	13	

四、接线能力/Connecting Characteristics

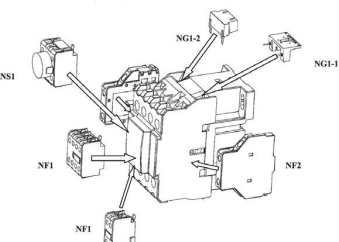
Philips N° 2 十字刀 2#	Slotted φ 4 一字刀φ4	Rigid Solid 硬线		Flexible 软线		Cold-compacting Terminals 冷压端头接线			Tightening Torque 紧固力矩			Remark 备注	
		One 一根	Two 两根	One 一根	Two 两根	One 一根	Two 两根	One 一根					
										N.m	L	φ	NDC 1 (Z) 25 号 端子 和辅助 端子接 线线径 相同。
		mm ²		mm ²		mm ²		mm					
Main Terminal 主端子 min/max	NDC1 (Z)												
	NDC1 (Z) -09	1/4	1/4	1/4	1/4	1/4	1/2.5	8	1.7	7.5	3.5		
	NDC1 (Z) -12												
	NDC1 (Z) -18	1.5/6	1.5/6	1.5/6	1.5/6	1.6	1/4	10	1.7	9	3.5		
	NDC1 (Z) -25	1.5/10	1.5/6	1.5/6	1.5/6	1.6	1/4	10	2.5	10	4		
	NDC1 (Z) -32	2.5/10	2.5/10	1.5/10	2.5/10	1/10	1.5/6	12	2.5	12	4		
	NDC1 (Z) -38												
Auxiliary(Coil) Terminal 辅助/线圈/端子	NDC1 (Z)												
	NDC1 (Z) -49-38		1-4			1/4	1/2.5	8	1.7	7.5	3.5		

注：为保证接线端子的紧固性不建议使用经镀锡处理的软线。

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

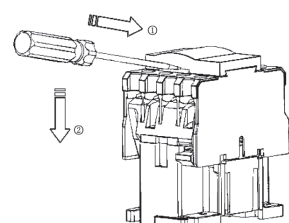


六、附件/Accessories



NF1-02	2 “NC”	NG1-INRE	24V-48V
NF1-11	1 “NO”+1 “NC”	NG1-INRG	50V-127V
NF1-20	2 “NO”	NG1-INRU	110V-240V
NF1-44	4 “NC”	NG1-2RCU	24V-48V
NF1-13	1 “NO”+3 “NC”	NG1-2RCG	50V-127V
NF1-22	2 “NO”+2 “NC”	NG1-2RCU	110V-240V
NF1-31	3 “NO”+1 “NC”	NG1-2RCN	380V-415V
NF1-40	4 “NO”	NG1-2NRE	24V-48V
		NG1-2NRG	50V-127V
		NG1-2NRU	110V-240V
		NG1-2NRN	380V-415V
		NG1-2DC	24V-220V
NSI-220	0.1-3S	On-delay	
NSI-222	0.1-30S	On-delay	
NSI-224	10-180S	On-delay	
NSI-320	0.1-3S	Off-delay	
NSI-322	0.1-30S	Off-delay	
NSI-324	10-180S	Off-delay	
NF2-II	1 “NO”+1 “NC”		
NF2-20	2 “NO”		

七、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。