

上海良信电器股份有限公司

Shanghai Liangxin Electrical Co., Ltd.

(F2-11/22DS/C1 辅助触头)

(F2-11/22DS/C1 Auxiliary contact)

产品说明书

Product Manual

(IPD-ENG-DEV-T18 A0 2016-09-23)

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1、适用范围与用途

1、1、Application scope

该辅助触头产品的推出主要针对低至 DC5V/5mA 弱信号传递需求的应用场合，控制范围较广，最大至 10W 的无感电路中。该产品通过密封触头的方式解决传统空气式固态触头在使用过程出无法满足环境中非导电性物质附着、污染触头而出现触头接通失效的问题。本辅助触头可以与我司 NDC1 (Z) -09~2650 接触器匹配使用，用以指示该匹配接触器的工作状态。

The auxiliary contact product is mainly aimed at the application of weak signal transmission demand as low as DC5V / 5mA, and has a wide control range. In the non-inductive circuit with the maximum of 10W, the product solves the problem that the traditional contact can not solve the problem of contact connection failure caused by the attachment of non-conductive substances and pollution of contacts in the environment. The auxiliary contact can be matched with Ndcl (z) - 09 ~ 2650 contactor of our company to indicate the working state of the matching contactor.

2、型号说明

Model and implication

F 2 -□ □ D S / C1

① ② ③ ④ ⑤ ⑥

①F 表示产品代号:辅助触头;

① F represents Product Code: auxiliary contact;

②2 is the design serial number: 2;

③□ □表示触头代号:用两位数字表示,十位数字为常开触头的数量,个位数字为常闭触头的数量:11 表示一常开一常闭触头、22 表示两常开两常闭触头;

③□□: it is expressed by two digits, The first "1" of "11" from left to right means 1NO contacts,another "1" means 1NC contacts. The first "2" of "22" from left to right means 2NO contacts,another "2" means 2NC contacts, 11 is one normally open and one normally closed contact, and 22 is two normally open and two normally closed contacts;

④D 表示安装方式为顶部安装;

④D indicates that the installation mode is top installation.

⑤S 表示产品为信号传递使用;

⑤S indicates that the product is used for signal transmission;

⑥适配 NDC1 接触器;

⑥ Suitable for Ndcl contactor.

3、技术参数

3、Main technical parameters

表 1 主要技术参数

Table 1 main technical parameters

参数名称/Parameter	F2-22DS/C1	F2-11DS/C1
污染等级/class of pollution	3	
耐腐蚀能力/Corrosion resistance	满足盐雾 72h/Meet the salt spray for 72h	
额定冲击耐受电压 Uimp Rated impulse withstand voltage	1.5 kV	
额定绝缘电压 Ui Rated insulation voltage	AC100V	
触头数量/Number of contacts	2NO+2NC 或 1NO+1NC	
最大控制功率/W Maximum control power/W	10	
触头最小接通能力 Minimum contact capacity	DC5V/5mA	
触头容量/Contact capacity	DC-12	DC50V, 0.1A
	AC-12	AC50V, 0.1A, 50Hz
机械寿命 (3600 次/h) Mechanical life(3600 times / h)	100 万次/1 million times	
电寿命 (1200 次/h) Electrical life (1200 times / h)	70 万次/700000 times	
接线能力/mm ²	最小无接线端子的硬线	1/1

Wiring capacity	1 根/2 根 Minimum hard wire without terminal 1/2		
	最大无接线端子的硬线 1 根/2 根 Maximum hard wire without terminal 1 / 2	2.5/2.5	2.5/2.5
	最小无接线端子的软线 1 根/2 根 Minimum flexible wire without terminal 1 / 2	1/1	1/1
	最大无接线端子的软线 1 根/2 根 Maximum flexible wire without terminal 1 / 2	2.5/2.5	2.5/2.5
接线拧紧力矩	正常/Normal	0.8N.m	0.8N.m
Tightening torque of wiring	极限/Limit	1.2N.m	1.2N.m
触头防护等级/Contact protection grade		IP60	

4、工作环境

4、Stand working conditions

正常工作温度：-40℃~+70℃；

Stand operating temperature: -40℃~+70℃；

正常存储温度：-60℃~+80℃；

Stand storage temperature: -60℃~+80℃；

正常海拔：≤3000m，极限海拔：≤5000m。

Stand altitude: ≤ 3000m, limit altitude: ≤ 5000m。

相对湿度：正常情况相对湿度：5%~95%，其中 95%持续时间不超过 24h，且环境温度高时，要求湿度较低。

极限情况下满足 85℃，相对湿度 85%的需求。

Relative humidity: normal relative humidity: 5% ~ 95%, 95% of which lasts no more than 24h, and when the ambient temperature is high, the humidity is required to be low.

It can meet the requirement of 85 °C and 85% relative humidity under extreme conditions.

5、接线方式（接线图）

5、Wiring diagram

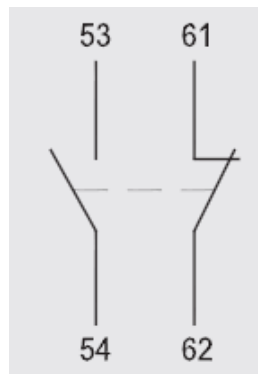


图 1 F2-11DS/C1 接线图

Fig.1 F2-11DS/C1 wiring diagram

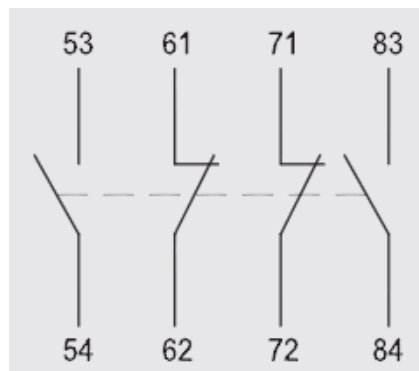


图 2 F2-22DS/C1 及 F2-22DSX/C1 接线图

Fig.2 F2-22DS/C1 and F2-22DSX/C1 wiring diagram

6、产品外形及安装尺寸

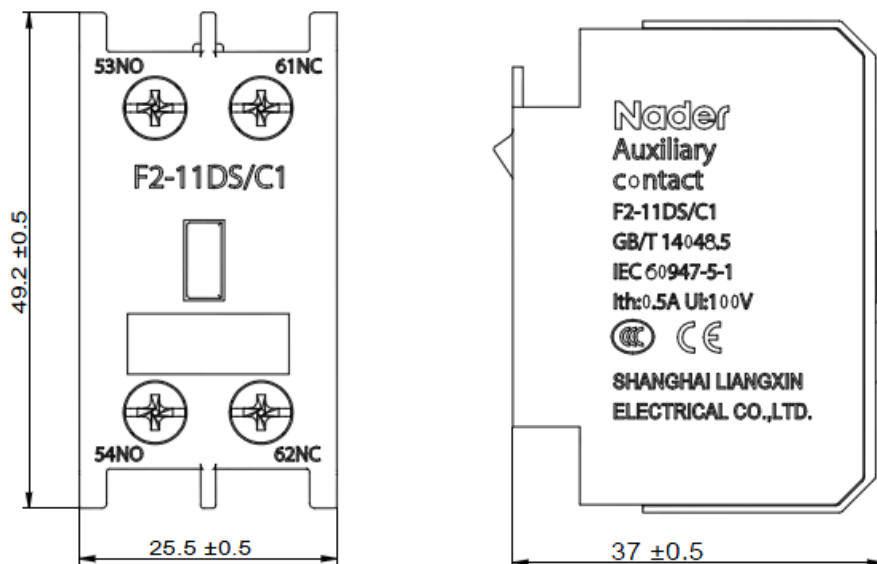


图 3 F2-11DS/C1 外形尺寸图

Figure 3 F2-11DS/C1 overall dimension drawing

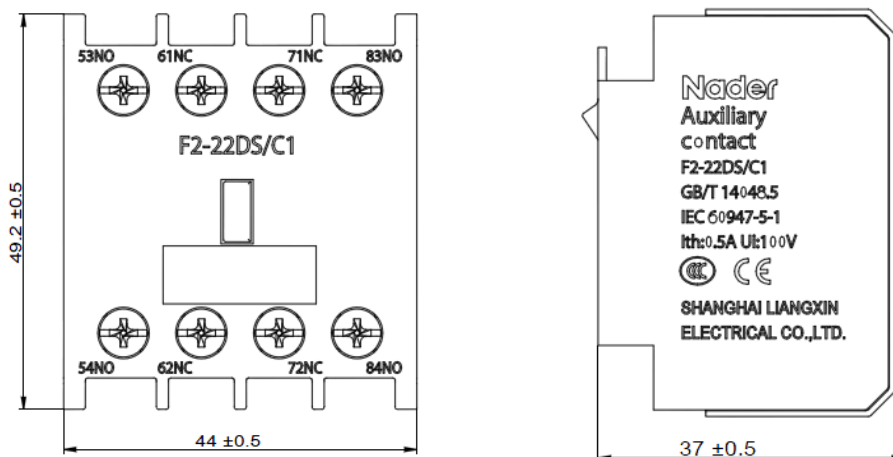


图 4 F2-22DS/C1 外形尺寸图

Figure 4 F2-22DS/C1 overall dimension drawing

7、安装方式

7、Installation

顶挂于 NDC1 (Z) -09~2650 接触器。

Top mouthed to the NDC1 (Z) -09~2650 contactors.

8、附件说明书/Accessories and specification.

无附件，说明书请扫包装盒上二维码获取。/ No accessories, please scan the QR code on the packing box to get the manual

9、使用和维护/ Use and maintenance

请定期拧紧导线。/Please tighten the wire regularly

10、注意事项/ Notices

10.1、不能随意打开产品 Don' t open the product;

10.2、本产品主要用于信号传递，注意电路中的最大瞬间电压/电流不能超过其额定值；

10.3、The product is mainly used for weak signal transmission, Please note that the maximum instantaneous voltage / current in the circuit should not exceed its rated value.

10.4、周围无强磁场。/ There is no strong magnetic field around the product.

11、订货须知

11、 Order example

如客户需要一个常开一个常闭触头的辅助触头，则选购 F2-11DS/C1。

If the user orders the F2-11DS/C1 series of Auxiliary contact, the rated current is 0.1A, it has one normally closed contact and one normally open contact.

(完/End)