



PRODUCT-DETAILS

# NF22E-14

## NF22E-14 250-500V50/60HZ-DC Contactor Relay



| 概要信息        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 产品型号        | NF22E-14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 产品ID        | 1SBH137001R1422                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 欧洲商品编号(EAN) | 3471523100145                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 目录说明        | NF22E-14 250-500V50/60HZ-DC Contactor Relay                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 详细描述        | <p>The NF22E-14 is a 690 V IEC or 600 UL 4-pole contactor relay with screw terminals, used for switching auxiliary and control circuits.</p> <p>Thanks to the AF technology, the contactor relay has a wide control voltage range (250 -500 V 50/60 Hz and DC), managing large control voltage variations, reducing panel energy consumptions and ensuring distinct operations in unstable networks.</p> <p>Furthermore, surge protection is built-in, offering a compact solution. NF contactor relays have a block type design, can be easily extended with add-on auxiliary contact blocks and an additional wide range of accessories.</p> <p>These contactor relays include mechanically-linked auxiliary contacts compliant with Annex L of IEC 60947-5-1 and are side-marked with the "Mechanically Linked" symbol.</p> |

| 订货信息  |          |
|-------|----------|
| 最小起订量 | 1 piece  |
| 海关关税号 | 85364900 |

| Popular Downloads       |                 |
|-------------------------|-----------------|
| 数据手册，技术资料               | 1SBC100214C0202 |
| 说明书和手册                  | 1SBC101027M6801 |
| CAD Dimensional Drawing | 2CDC001079B0201 |

| 尺寸   |         |
|------|---------|
| 产品净宽 | 45 mm   |
| 产品净深 | 77 mm   |
| 产品净高 | 86 mm   |
| 产品净重 | 0.31 kg |

| 技术参数                           |                                                                                                                                                                                                                                                                        |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 辅助触点NO数量                       | 2                                                                                                                                                                                                                                                                      |
| 辅助触点NC数量                       | 2                                                                                                                                                                                                                                                                      |
| 标准                             | IEC/EN 60947-1, IEC/EN 60947-5-1, UL 508, CSA C22.2 No. 14-13                                                                                                                                                                                                          |
| 额定工作电压                         | Auxiliary Circuit 690 V                                                                                                                                                                                                                                                |
| 额定频率 (f)                       | Auxiliary Circuit 50 / 60 Hz<br>Control Circuit 50 / 60 Hz                                                                                                                                                                                                             |
| 额定发热电流（自由空气）(I <sub>th</sub> ) | acc. to IEC 60947-5-1, $\Theta = 40\text{ }^{\circ}\text{C}$ 16 A                                                                                                                                                                                                      |
| 额定工作电流 AC-15 (I <sub>e</sub> ) | (500 V) 2 A<br>(690 V) 2 A<br>(24 / 127 V) 6 A<br>(220 / 240 V) 4 A<br>(400 / 440 V) 3 A                                                                                                                                                                               |
| 额定不间断电流 (I <sub>cw</sub> )     | for 0.1 s 140 A<br>for 1 s 100 A                                                                                                                                                                                                                                       |
| 最高电气切换频率                       | (AC-15) 1200 cycles per hour<br>(DC-13) 900 cycles per hour                                                                                                                                                                                                            |
| 额定工作电流 DC-13 (I <sub>e</sub> ) | (24 V) 6 A / 144 W<br>(48 V) 2.8 A / 134 W<br>(72 V) 1 A / 72 W<br>(110 V) 0.55 A / 60 W<br>(125 V) 0.55 A / 69 W<br>(220 V) 0.27 A / 60 W<br>(250 V) 0.27 A / 68 W<br>(400 V) 0.15 A / 60 W<br>(500 V) 0.13 A / 65 W<br>(600 V) 0.1 A / 60 W                          |
| 额定绝缘电压 (U <sub>i</sub> )       | acc. to IEC 60947-5-1 690 V<br>acc. to UL/CSA 600 V                                                                                                                                                                                                                    |
| 额定冲击耐受电压 (U <sub>imp</sub> )   | 6 kV                                                                                                                                                                                                                                                                   |
| 最高机械切换频率                       | 6000 cycles per hour                                                                                                                                                                                                                                                   |
| 额定控制电路电压 (U <sub>c</sub> )     | 50 Hz 250 ... 500 V<br>60 Hz 250 ... 500 V<br>DC Operation 250 ... 500 V                                                                                                                                                                                               |
| 工作时间                           | Between Coil De-energization and NC Contact Closing 13 ... 98 ms<br>Between Coil De-energization and NO Contact Opening 11 ... 95 ms<br>Between Coil Energization and NC Contact Opening 38 ... 90 ms<br>Between Coil Energization and NO Contact Closing 40 ... 95 ms |
| 安装到DIN导轨上                      | TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715<br>TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715                                                                                                                                                         |
| 螺钉安装（螺钉须自备）                    | 2 x M4 screws placed diagonally                                                                                                                                                                                                                                        |
| 辅助电路连接容量                       | Flexible with Ferrule 1/2x 0.75 ... 2.5 mm <sup>2</sup><br>Flexible with Insulated Ferrule 1x 0.75 ... 2.5 mm <sup>2</sup>                                                                                                                                             |

|          |                                                                                                                                                                                                                                                                                              |
|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|          | Flexible with Insulated Ferrule 2x 0.75 ... 1.5 mm <sup>2</sup><br>Rigid Solid 1/2x 1 ... 2.5 mm <sup>2</sup><br>Rigid Stranded 1/2x 1 ... 2.5 mm <sup>2</sup>                                                                                                                               |
| 控制电路连接容量 | Flexible with Ferrule 1/2x 0.75 ... 2.5 mm <sup>2</sup><br>Flexible with Insulated Ferrule 1x 0.75 ... 2.5 mm <sup>2</sup><br>Flexible with Insulated Ferrule 2x 0.75 ... 1.5 mm <sup>2</sup><br>Rigid Solid 1/2x 1 ... 2.5 mm <sup>2</sup><br>Rigid Stranded 1/2x 1 ... 2.5 mm <sup>2</sup> |
| 剥线长度     | Auxiliary Circuit 10 mm<br>Control Circuit 10 mm                                                                                                                                                                                                                                             |
| 防护等级     | acc. to IEC 60529, IEC 60947-1, EN 60529 Auxiliary Terminals IP20<br>acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20                                                                                                                                                            |
| 端子类型     | Screw Terminals                                                                                                                                                                                                                                                                              |

UL/CSA适用的技术参数

|            |                                                        |
|------------|--------------------------------------------------------|
| 辅助电路连接容量   | Rigid Solid 1/2x 18-14 AWG                             |
| UL/CSA     | Rigid Stranded 1/2x 18-14 AWG                          |
| 拧紧力矩UL/CSA | Auxiliary Circuit 11 in-lb<br>Control Circuit 11 in-lb |

环境条件

|                         |                                                                                                                                                                                  |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 周围环境温度                  | Close to Contactor for Storage -60 ... +80 °C<br>Near Contactor for Operation in Free Air -40 ... 70 °C                                                                          |
| 耐候                      | Category B according to IEC 60947-1 Annex Q                                                                                                                                      |
| 允许的最高工作海拔               | Without Derating 3000 m                                                                                                                                                          |
| 抗机械冲击符合IEC 60068-2-27标准 | Closed, Shock Direction: B1 25 g<br>Open, Shock Direction: B1 5 g<br>Shock Direction: A 30 g<br>Shock Direction: B2 15 g<br>Shock Direction: C1 25 g<br>Shock Direction: C2 25 g |
| 耐振动符合IEC 60068-2-6标准    | 4g Closed Position & 2g Open position 5 ... 300 Hz                                                                                                                               |

Material Compliance

|                                             |                                                                        |
|---------------------------------------------|------------------------------------------------------------------------|
| Conflict Minerals Reporting Template (CMRT) | 9AKK108467A5658                                                        |
| REACH Declaration                           | 2CMT2021-006202                                                        |
| RoHS信息                                      | 2CMT2021-006277                                                        |
| RoHS状态                                      | Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019 |
| Toxic Substances Control Act - TSCA         | 2CMT2023-006525                                                        |
| WEEE B2C / B2B                              | Business To Business                                                   |
| WEEE 类别                                     | 5. Small Equipment (No External Dimension More Than 50 cm)             |

ABB EcoSolutions

|              |                                    |
|--------------|------------------------------------|
| 产品环境声明 - EPD | 1SBD250584E3000<br>2TFP200035A1001 |
| 产品寿命终止后的拆解指南 | 1SBC101080M6801                    |

| 认证及声明（文件编码）                         |                             |
|-------------------------------------|-----------------------------|
| ABS认证                               | ABS_20-2060694-PDA          |
| BV认证                                | BV_2634H24899C0             |
| CB认证                                | CB_SE-93051M2               |
| CCC认证                               | 2020980303000185            |
| CQC认证                               | CQC2019010303267993         |
| Declaration of<br>Conformity - CCC  | CQC2011010303465426         |
| 符合性声明 - CE                          | 1SBD250005U1000             |
| Declaration of<br>Conformity - UKCA | 1SBD250036U1000             |
| DNV认证                               | DNV_TAE00001BV-5            |
| EAC认证                               | EAC_RU C-FR ME77 B03544     |
| GOST认证                              | GOST_POCCFR.ME77.B06804.pdf |
| KC认证                                | KC-HW02016-21031A           |
| LR认证                                | LRS_LR2003684TA-02          |
| RINA认证                              | RINA_ELE142224XG            |
| RMRS认证                              | RMRS_1802702280             |
| UL认证                                | UL_20180227_E252354_2_1     |
| UL列表卡                               | UL_E252354                  |

| 包装信息     |               |
|----------|---------------|
| 1级包装单元   | box 1 piece   |
| 1级包装宽度   | 87 mm         |
| 1级包装长度   | 79 mm         |
| 1级包装高度   | 47 mm         |
| 1级包装 总重  | 0.31 kg       |
| 1级包装 EAN | 3471523100145 |
| 2级包装单元   | box 27 piece  |
| 2级包装宽度   | 250 mm        |
| 2级包装长度   | 300 mm        |
| 2级包装高度   | 315 mm        |
| 2级包装 总重  | 16.74 kg      |
| 3级包装单元   | 1296 piece    |

| 分类                 |                                       |
|--------------------|---------------------------------------|
| 对象分类代码             | K                                     |
| ETIM 7             | EC000196 - Contactor relay            |
| ETIM 8             | EC000196 - Contactor relay            |
| ETIM 9             | EC000196 - Contactor relay            |
| e级                 | V11.0 : 27371001                      |
| UNSPSC             | 39121529                              |
| IDEA 粒度分类代码 (IGCC) | 4763 >> Power contactor, DC switching |
| E-Number (Finland) | 3706402                               |
| E-Number (Sweden)  | 3211449                               |

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## 分类

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低压产品及系统 → 控制产品 → 接触器 → 模块化接触器 → NF Contactor Relays

