



Detaily produktu

## NFZB62E-21

### NFZB62E-21 24-60V50/60HZ 20-60VDC Contactor Relay



#### Obecné informace

|                   |                                                   |
|-------------------|---------------------------------------------------|
| Typ:              | NFZB62E-21                                        |
| Id výrobku:       | 1SBH136061R2162                                   |
| EAN:              | 3471523105812                                     |
| Katalogový popis: | NFZB62E-21 24-60V50/60HZ 20-60VDC Contactor Relay |

**Detailní popis:**

The NFZB62E-21 is a contactor relay complying with the latest railway rolling stock standards and allowing installation in passengers or driver cabins for trains frequently operating tunnels or undergrounds. It is used for switching auxiliary and control circuits. These contactor relays:

- include screw terminals for connection with standard ferrules for a safe insertion and wiring of cables.
- improve the compactness of the installations thanks to reduced dimension and side-by-side mounting requiring less 15% width (without spacing) from -40 °C up to +70 °C
- meet all main general and rolling stocks standards: IEC 60947-5-1 and the applicable parts of IEC 60077-1/-2 and EN 50155 standards, shocks and vibration withstand conforming to IEC 61373 cat. 1, class B
- get an electronic coil interface accepting a wide DC control voltage range including the main control supplies e.g.  $U_c = 24, 33, 48 \text{ V DC}$ , as per defined by IEC 60077 (0.7 ... 1.25  $U_c$  operating limits for battery supply)
- reach the highest levels in fire and smoke behaviour with compliance to European standard EN 45545-2 (HL2, HL3 hazard levels) in group mounting
- reduce train energy with lighter devices and requiring 68% less coil energy consumption in operation
- get an electronic coil interface accepting sinusoidal AC 50/60 Hz control supplies included inside  $U_{cmin} \dots U_{cmax}$  voltage range. Max permitted AC 50/60 Hz control voltage must not be exceeded (see technical data)
- include mechanically-linked auxiliary contacts compliant with Annex L of IEC 60947-5-1 and are side-marked with the "Mechanically Linked" symbol
- include a wide range of auxiliary contact blocks for front and side mounting.

|               |            |
|---------------|------------|
| Display Name: | NFZB62E-21 |
|---------------|------------|

**Objednací údaje**

|                                  |          |
|----------------------------------|----------|
| Minimální objednávková množství: | 1 piece  |
| Číslo celního sazebníku:         | 85364900 |

**Dokumenty ke stažení**

|                                    |                 |
|------------------------------------|-----------------|
| List s údaji, technické informace: | 1SBC100220C0201 |
| Pokyny a příručky:                 | 1SBC101027M6801 |
| Pokyny a příručky (část 2):        | 1SAC200017M0002 |
| CAD Dimensional Drawing:           | 2CDC001079B0201 |

**Rozměry**

|                         |         |
|-------------------------|---------|
| Čistá šířka výrobku:    | 45 mm   |
| Čistá hloubka výrobku:  | 86 mm   |
| Čistá výška výrobku:    | 86 mm   |
| Čistá hmotnost výrobku: | 0.37 kg |

**Technické údaje**

|                                                     |   |
|-----------------------------------------------------|---|
| Počet pomocných spínacích kontaktů, s prodloužením: | 6 |
|-----------------------------------------------------|---|

|                                               |   |
|-----------------------------------------------|---|
| Počet pomocných rozspínacích kontaktů (SPDT): | 2 |
|-----------------------------------------------|---|

|             |    |
|-------------|----|
| Počet pólů: | 8P |
|-------------|----|

|                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Normy:</b>                                                     | IEC/EN 60947-1, IEC/EN 60947-5-1, UL 60335-2-40 LZGH2 A2L, UL 60947-5-1, CSA C22.2 No. 60335-2-40 LZGH2 A2L, CSA C22.2 No. 60947-5-1, IEC 60077-1 (applicable parts), IEC 60077-2 (applicable parts), EN 50155 (applicable parts), TR CU 001/2011, IEC 61373, For compliance confirmation on applicable parts based on your application and combination, please consult your ABB sales representatives. |
| <b>Jmenovité provozní napětí:</b>                                 | Auxiliary Circuit 690 V                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Jmenovitá frekvence (f):</b>                                   | Auxiliary Circuit 50 / 60 Hz<br>Control Circuit 50 / 60 Hz<br>Main Circuit 50 / 60 Hz                                                                                                                                                                                                                                                                                                                   |
| <b>Klasický tepelný proud na volném vzduchu (I<sub>th</sub>):</b> | acc. to IEC 60947-5-1, $\Theta = 40\text{ °C}$ 16 A                                                                                                                                                                                                                                                                                                                                                     |
| <b>Jmenovitý provozní proud AC-15 (I<sub>e</sub>):</b>            | (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                                                                                                                                                                                                                                                                                                                |
| <b>Jmenovitý provozní proud DC-13 (I<sub>e</sub>):</b>            | (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                                                                                                                                                           |
| <b>Jmenovitý krátkodobý výdržný proud (I<sub>cw</sub>):</b>       | for 0.1 s 140 A<br>for 1 s 100 A                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Jmenovité izolační napětí (U<sub>i</sub>):</b>                 | acc. to IEC 60947-5-1 690 V<br>acc. to UL/CSA 600 V                                                                                                                                                                                                                                                                                                                                                     |
| <b>Jmenovité impulzní výdržné napětí (U<sub>imp</sub>):</b>       | 6 kV                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Max. elektrická četnost spínání:</b>                           | (AC-15) 1200 cycles per hour<br>(DC-13) 900 cycles per hour                                                                                                                                                                                                                                                                                                                                             |
| <b>Max. četnost mechanického spínání:</b>                         | 6000 cycles per hour                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Jmenovité napětí řídicího obvodu (U<sub>c</sub>):</b>          | 50 Hz 24 ... 60 V<br>60 Hz 24 ... 60 V<br>DC Operation 20 ... 60 V                                                                                                                                                                                                                                                                                                                                      |
| <b>Provozní doba:</b>                                             | 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                                                                                                                                  |
| <b>Montáž na lištu DIN:</b>                                       | 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                                                                                                                                                                                                                                                                                          |
| <b>Montáž pomocí šroubů (nejsou součástí dodávky):</b>            | 2 x M4 Screws Placed Diagonally                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Připojovací průřez-pomocný obvod:</b>                          | 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>                                                                                                            |
| <b>Připojovací průřez-ovládací obvod:</b>                         | 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>                                                                                                            |
| <b>Odizolovací délka vodiče:</b>                                  | Control Circuit 10 mm                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Krytí:</b>                                                     | 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                                                                                                                                                                                                                                                                       |

|                   |                                                      |
|-------------------|------------------------------------------------------|
| Utahovací moment: | Auxiliary Circuit 1.2 N-m<br>Control Circuit 1.2 N-m |
| Typ svorky:       | Screw Terminals                                      |
| Název výrobku:    | Block Contactor Relay                                |

## Technické údaje UL/CSA

|                                          |                                                             |
|------------------------------------------|-------------------------------------------------------------|
| Připojovací průřez-pomocný obvod UL/CSA: | Rigid Solid 1/2x 18-14 AWG<br>Rigid Stranded 1/2x 18-14 AWG |
| Utahovací moment UL/CSA:                 | Auxiliary Circuit 11 in-lb<br>Control Circuit 11 in-lb      |

## Údaje vnějšího prostředí

|                                         |                                                                                                         |
|-----------------------------------------|---------------------------------------------------------------------------------------------------------|
| Teplota okolního vzduchu:               | Close to Contactor for Storage -60 ... +80 °C<br>Near Contactor for Operation in Free Air -40 ... 70 °C |
| Klimatické výdržné podmínky:            | Category B according to IEC 60947-1 Annex Q                                                             |
| Max. povolená provozní nadmorská výška: | Without Derating 3000 m                                                                                 |
| Stupeň znečištění:                      | 3                                                                                                       |

## Material Compliance

|                                              |                                                                        |
|----------------------------------------------|------------------------------------------------------------------------|
| Conflict Minerals Reporting Template (CMRT): | 9AKK108467A5658                                                        |
| REACH Declaration:                           | 2CMT2021-006202                                                        |
| Informace RoHS:                              | 2CMT2021-006277                                                        |
| Stav RoHS:                                   | 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                                                   |
| Kategorie WEEE:                              | 5. Small Equipment (No External Dimension More Than 50 cm)             |

## ABB EcoSolutions

|                                                            |                                                                                                                                          |
|------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| ABB EcoSolutions:                                          | Ano                                                                                                                                      |
| ABB Site Meeting Group Waste To Landfill Target:           | No non-hazardous waste is sent to a landfill                                                                                             |
| EcoSolutions Profile:                                      | 1SBC100156C0308                                                                                                                          |
| End Of Life Disassembling Instructions:                    | 1SBC101080M6801                                                                                                                          |
| Prohlášení o environmentálních vlastnostech výrobku - EPD: | 1SBD250584E3000                                                                                                                          |
| Improved Energy Efficiency for Customers:                  | Product Efficiency - Product considered more energy-efficient compared to similar product on market or older products from the same line |
| Recyclability Rate of the Product acc. to EN45555:         | Design for Closing Resource Loops - Standard EN45555 - 92.7 %                                                                            |

Certifikáty a prohlášení (Číslo dokumentů)

|                                   |                                    |
|-----------------------------------|------------------------------------|
| A2L Certificate – UL:             | 9AKK108469A4900<br>9AKK108469A4902 |
| CB certifikát:                    | CB_SE-117902                       |
| CCC certifikát:                   | CCC_2011010303465426               |
| CQC certifikát:                   | CQC2019010303267993                |
| Declaration of Conformity - CCC:  | 2020980303000175                   |
| Prohlášení o shodě - CE:          | 1SBD250006U1000                    |
| Declaration of Conformity - UKCA: | 1SBD250037U1000                    |
| Certifikát RMRS:                  | RMRS_1802702280                    |
| Certifikát UL:                    | UL_20180227_E252354_2_1            |
| Karta se soupisem UL:             | UL_E252354                         |

Balení

|                                  |               |
|----------------------------------|---------------|
| Úroveň balení 1, jednotky:       | box 1 piece   |
| Úroveň balení 1, šířka:          | 87 mm         |
| Úroveň balení 1, délka:          | 113 mm        |
| Úroveň balení 1, výška:          | 47 mm         |
| Úroveň balení 1, hrubá hmotnost: | 0.37 kg       |
| Úroveň balení 1, EAN:            | 3471523105812 |

Externí klasifikace a standardy

|                                     |                                       |
|-------------------------------------|---------------------------------------|
| Klasifikační kód objektu:           | K                                     |
| ETIM 7:                             | EC000196 - Contactor relay            |
| ETIM 8:                             | EC000196 - Contactor relay            |
| ETIM 9:                             | EC000196 - Contactor relay            |
| Trída eClass:                       | V11.0 : 27371001                      |
| UNSPSC:                             | 39121529                              |
| IDEA Granular Category Code (IGCC): | 4763 >> Power contactor, DC switching |

Příslušenství

| Identifikátor   | Popis                               | Typ       | Množství | Měrná jednotka |
|-----------------|-------------------------------------|-----------|----------|----------------|
| 1SBN010120R1011 | CAL4-11 Auxiliary Contact Block     | CAL4-11   | 1        | piece          |
| 1SBN010120T1011 | CAL4-11-T Auxiliary Contact Block   | CAL4-11-T | 1        | piece          |
| 1SBN070156T1000 | LDC4 Additional Coil Terminal Block | LDC4      | 1        | piece          |

|                 |                                      |           |   |       |
|-----------------|--------------------------------------|-----------|---|-------|
| 1SBN010129R1011 | CAL4-11RT Auxiliary Contact Block    | CAL4-11RT | 1 | piece |
| 1SBN010134R1011 | CAL4-11K Auxiliary Contact Block     | CAL4-11K  | 1 | piece |
| 1SBN070158T1000 | LDC4RT Coil Terminal Block           | LDC4RT    | 1 | piece |
| 1SBN070159T1000 | LDC4K Additional Coil Terminal Block | LDC4K     | 1 | piece |

Kategorie

Produkty > Přístroje a rozváděče nízkého napětí > Výrobky pro řídicí aplikace > Stykače > Blokové stykače > NF Contactor Relays

