

## PRODUCT-DETAILS

# NFZB62ERT-22

NFZB62ERT-22 48-130V50/60HZ-DC

## Contact Relays



### General Information

|                       |                                               |
|-----------------------|-----------------------------------------------|
| Extended Product Type | NFZB62ERT-22                                  |
| Product ID            | 1SBH136060R2262                               |
| EAN                   | 3471523107328                                 |
| Catalog Description   | NFZB62ERT-22 48-130V50/60HZ-DC Contact Relays |

|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Long Description | <p>NFZB..RT contactor relays comply with the latest railway rolling stock standards and allow installation in passengers or driver cabins for trains frequently operating tunnels or undergrounds. They are used for switching auxiliary and control circuits. 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 rolling stocks standards: IEC 60947-4-1, IEC 60947-5-1, IEC 60077-1/-2 and applicable parts of EN 50155 standards, shocks and vibration withstand conforming to IEC 61373 cat. 1, class B. 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. Electronic coil interface handling large DC voltage fluctuation voltage, including several Uc DC control voltages used for battery supply and accepting sinusoidal AC 50/60 Hz control supplies included inside U<sub>cmin</sub>... U<sub>cmax</sub> voltage range. Max permitted AC 50/60 Hz control voltage must not be exceeded (see technical data). Wide range of auxiliary contact blocks for front and side mounting.</p> |
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### Ordering

|                        |          |
|------------------------|----------|
| Minimum Order Quantity | 1 piece  |
| Customs Tariff Number  | 85364900 |

### Popular Downloads

## Dimensions

|                               |         |
|-------------------------------|---------|
| Product Net Width             | 45 mm   |
| Product Net Depth /<br>Length | 86 mm   |
| Product Net Height            | 86 mm   |
| Product Net Weight            | 0.37 kg |

## Technical

|                                                       |                                                                                                                                                                                                                                                                                                                                            |
|-------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Number of Auxiliary<br>Contacts NO                    | 6                                                                                                                                                                                                                                                                                                                                          |
| Number of Auxiliary<br>Contacts NC                    | 2                                                                                                                                                                                                                                                                                                                                          |
| Standards                                             | IEC/EN 60947-1, IEC/EN 60947-5-1, UL 60947-5-1, 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. |
| Rated Operational<br>Voltage                          | Auxiliary Circuit 690 V                                                                                                                                                                                                                                                                                                                    |
| Rated Frequency (f)                                   | Main Circuit 50 / 60 Hz                                                                                                                                                                                                                                                                                                                    |
| Conventional Free-air<br>Thermal Current ( $I_{th}$ ) | acc. to IEC 60947-5-1, $q = 40^\circ\text{C}$ 16 A                                                                                                                                                                                                                                                                                         |
| Rated Operational<br>Current AC-15 ( $I_e$ )          | (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                                                                                                                                                                                                                                                   |
| Rated Short-time<br>Withstand Current ( $I_{cw}$ )    | for 0.1 s 140 A<br>for 1 s 100 A                                                                                                                                                                                                                                                                                                           |
| Maximum Electrical<br>Switching Frequency             | (AC-15) 1200 cycles per hour<br>(DC-13) 900 cycles per hour                                                                                                                                                                                                                                                                                |
| Rated Operational<br>Current DC-13 ( $I_e$ )          | (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                                                                                              |
| Rated Insulation Voltage<br>( $U_i$ )                 | acc. to IEC 60947-5-1 and VDE 0110 (Gr. C) 690 V                                                                                                                                                                                                                                                                                           |
| Rated Impulse<br>Withstand Voltage ( $U_{imp}$ )      | 6 kV                                                                                                                                                                                                                                                                                                                                       |
| Maximum Mechanical<br>Switching Frequency             | 6000 cycles per hour                                                                                                                                                                                                                                                                                                                       |
| Rated Control Circuit<br>Voltage ( $U_c$ )            | 50 Hz 48 ... 130 V<br>60 Hz 48 ... 130 V<br>DC Operation 48 ... 130 V                                                                                                                                                                                                                                                                      |
| Operate Time                                          | 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                                                                     |
| Terminal Type                                         | Ring-Tongue Terminals                                                                                                                                                                                                                                                                                                                      |

## Environmental

|                                        |                                                                                                          |
|----------------------------------------|----------------------------------------------------------------------------------------------------------|
| Ambient Air Temperature                | Close to Contactor for Storage -60 ... +80 °C<br>Near Contactor for Operation in Free Air -40 ... +70 °C |
| Climatic Withstand                     | Category B according to IEC 60947-1 Annex Q                                                              |
| Maximum Operating Altitude Permissible | 3000 m                                                                                                   |
| RoHS Status                            | Following EU Directive 2011/65/EU                                                                        |

## Certificates and Declarations (Document Number)

|                                 |                         |
|---------------------------------|-------------------------|
| CB Certificate                  | CB_SE-93051             |
| CCC Certificate                 | CCC_2011010303465426    |
| CQC Certificate                 | CQC2019010303267993     |
| Declaration of Conformity - CCC | 2020980303000175        |
| Declaration of Conformity - CE  | 1SBD250006U1000         |
| EAC Certificate                 | EAC_RU C-FR ME77 B01006 |
| Environmental Information       | 1SBD250165E1000         |
| Instructions and Manuals        | 1SBC101035M6801         |
| RoHS Information                | 1SBD250006U1000         |

## Container Information

|                                |               |
|--------------------------------|---------------|
| Package Level 1 Units          | box 1 piece   |
| Package Level 1 Width          | 87 mm         |
| Package Level 1 Depth / Length | 113 mm        |
| Package Level 1 Height         | 47 mm         |
| Package Level 1 Gross Weight   | 0.37 kg       |
| Package Level 1 EAN            | 3471523107328 |
| Package Level 2 Units          | box 18 piece  |
| Package Level 2 Width          | 250 mm        |
| Package Level 2 Depth / Length | 300 mm        |
| Package Level 2 Height         | 315 mm        |
| Package Level 2 Gross Weight   | 13.32 kg      |
| Package Level 3 Units          | 864 piece     |

## Classifications

|                            |                            |
|----------------------------|----------------------------|
| Object Classification Code | K                          |
| ETIM 4                     | EC000196 - Contactor relay |
| ETIM 5                     | EC000196 - Contactor relay |
| ETIM 6                     | EC000196 - Contactor relay |
| ETIM 7                     | EC000196 - Contactor relay |
| eClass                     | V11.0 : 27371003           |
| UNSPSC                     | 39121500                   |

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## Categories

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Low Voltage Products and Systems → Control Products → Contactors → Block Contactors

