



Representative Image

## Alternate Catalog No. NFZ44E-30 Catalog No. 1SBH136001R3044

**Description:** NFZ44E-30 24VDC Contactor Relay

**UPC No** 3471523102392

**Home > Contactors & Starters > UL Listed IEC Contactors > AF Contactors**

NFZ contactor relays are used for switching auxiliary and control circuits. NFZ contactor relays with coil 30 include a 24 V DC electronic coil interface with a built-in surge suppression, obtaining a reduced holding coil consumption up to 1.7 W for a low panel energy consumption and a direct control by PLC-output  $\geq 250$  mA 24 V DC, without need of additional interface relay. Only NFZ...-30 contactor relays need to respect the polarity on the coil terminals (A1+ and A2-). Poles: 8-pole contactor relays with a non-removable front-mounted auxiliary contact block (mechanically-linked auxiliary contacts compliant with Annex L of IEC 60947-5-1 and including the "Mechanically Linked" symbol on the contactor relay side).

### Descriptors

|                      |                 |
|----------------------|-----------------|
| Category             | AF Contactors   |
| Block Contactor Type | Contactor Relay |

### Specifications

|                                                |                                                                                                                                                                                                                                                                        |
|------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Type                                   | AF                                                                                                                                                                                                                                                                     |
| Object Classification Code                     | K                                                                                                                                                                                                                                                                      |
| Terminal Type                                  | Screw Terminals                                                                                                                                                                                                                                                        |
| Rated Control Circuit Voltage                  | DC Operation 24 V                                                                                                                                                                                                                                                      |
| Resistance to Vibrations acc. to IEC 60068-2-6 | 5 ... 300 Hz 4 g closed position / 2 g open position                                                                                                                                                                                                                   |
| Number of Auxiliary Contacts NO                | 4                                                                                                                                                                                                                                                                      |
| RoHS Status                                    | Following EU Directive 2011/65/EU                                                                                                                                                                                                                                      |
| Reference Ambient Air Temperature              | Close to Contactor for Storage °C<br>Near Contactor for Operation in Free Air °C                                                                                                                                                                                       |
| Rated Operational Voltage                      | Auxiliary Circuit 690 V                                                                                                                                                                                                                                                |
| Number of Auxiliary Contacts NC                | 4                                                                                                                                                                                                                                                                      |
| Maximum Operating Altitude Permissible         | 3000 m                                                                                                                                                                                                                                                                 |
| Conventional Free-air Thermal Current          | acc. to IEC 60947-5-1, $q = 40$ °C 16 A                                                                                                                                                                                                                                |
| Rated Operational Current AC-15                | (220 / 240 V) 4 A<br>(24 / 127 V) 6 A<br>(500 V) 2 A<br>(690 V) 2 A<br>(400 / 440 V) 3 A                                                                                                                                                                               |
| Rated Frequency                                | Auxiliary Circuit 50 Hz<br>Auxiliary Circuit 60 Hz                                                                                                                                                                                                                     |
| Rated Short-time Withstand Current             | for 0.1 s A<br>for 1 s A                                                                                                                                                                                                                                               |
| Maximum Electrical Switching Frequency         | AC-15 1200 cycles per hour<br>DC-13 900 cycles per hour                                                                                                                                                                                                                |
| Rated Insulation Voltage                       | acc. to UL/CSA 600 V<br>acc. to IEC 60947-5-1 and VDE 0110 (Gr. C) 690 V                                                                                                                                                                                               |
| Maximum Mechanical Switching Frequency         | 6000 cycles per hour                                                                                                                                                                                                                                                   |
| Operate Time                                   | Between Coil De-energization and NC Contact Closing 22 ... 57 ms<br>Between Coil De-energization and NO Contact Opening 17 ... 29 ms<br>Between Coil Energization and NC Contact Opening 20 ... 35 ms<br>Between Coil Energization and NO Contact Closing 27 ... 53 ms |
| Secondary Rated Impulse Withstand Voltage      | 6 kV                                                                                                                                                                                                                                                                   |

**by ABB**

## Specifications

|                                       |                                                                                                                                                                                                                                               |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rated Operational Current DC-13       | (125 V) 0.55 A / 69 W<br>(24 V) 6 A / 144 W<br>(250 V) 0.27 A / 68 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>(220 V) 0.27 A / 60 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 |
| Connecting Capacity Control Circuit   | Flexible with Ferrule<br>Flexible with Insulated Ferrule<br>Rigid                                                                                                                                                                             |
| Degree of Protection                  | 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                                                                                                             |
| Connecting Capacity Auxiliary Circuit | Flexible with Ferrule 1/2x 0.75 ... 2.5 m <sup>2</sup><br>Flexible with Insulated Ferrule 1x 0.75 ... 2.5/2x 0.75 ... 1.5 m <sup>2</sup><br>Rigid 1/2x 1 ... 2.5 m <sup>2</sup>                                                               |
| Wire Stripping Length                 | Auxiliary Circuit 10 mm<br>Control Circuit 10 mm                                                                                                                                                                                              |

## Classifications

|          |                            |
|----------|----------------------------|
| ETIM 4   | EC000196 - Contactor relay |
| ETIM 6.0 | EC000196 - Contactor relay |
| ETIM 7   | EC000196 - Contactor relay |
| ETIM 5.0 | EC000196 - Contactor relay |

## Dimensions

|                            |          |
|----------------------------|----------|
| Product Net Weight         | 0.49 kg  |
| Product Net Depth / Length | 130.5 mm |
| Product Net Width          | 45 mm    |
| Product Net Height         | 86 mm    |

## Package Information

|                                |               |
|--------------------------------|---------------|
| Package Level 1 Width          | 96 mm         |
| Package Level 1 Depth / Length | 145 mm        |
| Package Level 1 EAN            | 3471523102392 |
| Package Level 1 Units          | box 1 piece   |
| Package Level 2 Height         | 148 mm        |
| Package Level 2 Units          | box 12 piece  |
| Package Level 3 Units          | 576 piece     |
| Package Level 2 Depth / Length | 98 mm         |
| Package Level 2 Gross Weight   | 6.48 kg       |

## Ordering

|                        |   |
|------------------------|---|
| Minimum Order Quantity | 1 |
|------------------------|---|