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PRODUCT-DETAILS

## NFZ40E-21 NFZ40E-21 24-60V50/60HZ 20-60VDC Contactor Relay



| Extended Product Type | NFZ40E-21       |
|-----------------------|-----------------|
| Product ID            | 1SBH136001R2140 |
| EAN                   | 3471523101616   |

Catalog Description

NFZ40E-21 24-60V50/60HZ 20-60VDC Contactor Relay

NFZ contactor relays are used for switching auxiliary and control circuits. NFZ contactor relays include an electronic coil interface accepting a wide control voltage Uc min. .. Uc max. Only four coils cover control voltages between 24...250 V 50/60 Hz or 12...250 V DC. NF contactor relays can manage large control voltage variations. One coil can be used for different control voltages used worldwide without any coil change NFZ contactor relays allow direct control by PLC-output ≥ 24 V DC 500 mA and obtain a reduced holding coil consumption. NFZ contactor relays withstand short voltage dips and voltage sags (SEMI F47-0706 compliance) between 24...250 V 50/60 Hz NFZ contactor relays have built-in surge protection and do not require additional surge suppressors - Poles: 4-pole contactor relays - Control Circuit: AC or DC operated - Accessories: a wide range of Accessories is

Long Description

## Ordering

Minimum Order Quantity 1 piece
Customs Tariff Number 85364900

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| Popular Downloads   |  |
|---|--|
| Instructions and Manuals                                    | 1SBC101027M6801  |
| CAD Dimensional<br><u>Drawing</u>                           | 2CDC001079B0201  |
|   |  |
| Dimensions  |  |
| Product Net Width   | 45 mm  |
| Product Net Depth /<br>Length                               | 77 mm  |
| Product Net Height  | 86 mm  |
| Product Net Weight  | 0.31 kg  |
| Technical   |  |
| Number of Auxiliary<br>Contacts NO                          | 4  |
| Number of Auxiliary<br>Contacts NC                          | 0  |
| Standards   | IEC/EN 60947-1, IEC/EN 60947-5-1, UL 508, CSA C22.2 No. 14-13  |
| Rated Operational Voltage                                   | Auxiliary Circuit 690 V  |
| Rated Frequency (f)   | Auxiliary Circuit 50 / 60 Hz<br>Control Circuit 50 / 60 Hz   |
| Conventional Free-air<br>Thermal Current (I <sub>th</sub> ) | acc. to IEC 60947-5-1, Θ = 40 °C 16 A  |
| Rated Operational Current                                   | (500 V) 2 A  |
| AC-15 (I <sub>e</sub> )                                     | (690 V) 2 A<br>(24 / 127 V) 6 A  |
|   | (220 / 240 V) 4 A<br>(400 / 440 V) 3 A   |
| Rated Short-time  | for 0.1 s 140 A  |
| Withstand Current Low<br>Voltage (I <sub>cw</sub> )         | for 1 s 100 A  |
| Maximum Electrical Switching Frequency                      | (AC-15) 1200 cycles per hour<br>(DC-13) 900 cycles per hour  |
| Rated Operational Current DC-13 (I <sub>P</sub> )           | (24 V) 6 A / 144 W<br>(48 V) 2.8 A / 134 W   |
| 50 10 (i.e)   | (72 V) 1 A / 72 W  |
|   | (110 V) 0.55 A / 60 W<br>(125 V) 0.55 A / 69 W   |
|   | (220 V) 0.27 A / 60 W<br>(250 V) 0.27 A / 68 W   |
|   | (400 V) 0.15 A / 60 W  |
|   | (500 V) 0.13 A / 65 W<br>(600 V) 0.1 A / 60 W  |
| Rated Insulation Voltage $(U_i)$                            | acc. to IEC 60947-5-1 690 V<br>acc. to UL/CSA 600 V  |
| Rated Impulse Withstand Voltage (U <sub>imp</sub> )         | 6 kV   |
| Maximum Mechanical<br>Switching Frequency                   | 6000 cycles per hour   |
| Rated Control Circuit<br>Voltage (U <sub>c</sub> )          | 50 Hz 24 60 V<br>60 Hz 24 60 V<br>DC Operation 20 60 V   |
| Operate Time  | Between Coil De-energization and NC Contact Closing 13 98 ms   |
|   | 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 |
| Mounting on DIN Rail  | 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   |
| Mounting by Screws (not supplied)                           | 2 x M4 screws placed diagonally  |
| Connecting Capacity<br>Auxiliary Circuit                    | Flexible with Ferrule 1/2x 0.75 2.5 mm² Flexible with Insulated Ferrule 1x 0.75 2.5 mm² Flexible with Insulated Ferrule 2x 0.75 1.5 mm²  |

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|   | Rigid Solid 1/2x 1 2.5<br>Rigid Stranded 1/2x 1 2.5   |
|---|---|
| Connecting Capacity                               | Flexible with Ferrule 1/2x 0.75 2.5   |
| Control Circuit                                   | Flexible with Insulated Ferrule 1x 0.75 2.5<br>Flexible with Insulated Ferrule 2x 0.75 1.5                              |
|   | Rigid Solid 1/2x 1 2.5  |
|   | Rigid Štranded 1/2x 1 2.5   |
| Wire Stripping Length                             | Auxiliary Circuit 10<br>Control Circuit 10  |
| Degree of Protection                              | acc. to IEC 60529, IEC 60947-1, EN 60529 Auxiliary Terminals<br>acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals |
| Ferminal Type                                     | Screw Term  |
|   |   |
| Technical UL/CSA                                  |   |
| Connecting Capacity                               | Rigid Solid 1/2x 18-14 A  |
| Auxiliary Circuit UL/CSA                          | Rigid Stranded 1/2x 18-14 /   |
| Tightening Torque<br>UL/CSA                       | Auxiliary Circuit 11 Control Circuit 11   |
| Environmental                                     |   |
| ENVITORIMENTAL  Ambient Air Temperature           | Close to Contactor for Storage -60 +8   |
| ·   | Near Contactor for Operation in Free Air -40 7  |
| Climatic Withstand                                | Category B according to IEC 60947-1 Ann   |
| Maximum Operating<br>Altitude Permissible         | Without Derating 30   |
| Resistance to Shock acc.                          | Closed, Shock Direction: B1   |
| o IEC 60068-2-27                                  | Open, Shock Direction: B<br>Shock Direction: A  |
|   | Shock Direction: A Shock Direction: B2  |
|   | Shock Direction: C1   |
| Resistance to Vibrations                          | Shock Direction: C2 4g Closed Position & 2g Open position 5 30  |
| Material Compliance                               |   |
| Conflict Minerals<br>Reporting Template<br>(CMRT) | 9AKK108467A   |
| REACH Declaration                                 | 2CMT2021-00   |
| RoHS Information                                  | 2CMT2021-00   |
| RoHS Status                                       | Following EU Directive 2011/6   |
| Toxic Substances Control                          | 2CMT2023-00   |
| Act - TSCA<br>WEEE B2C / B2B                      | Business To Busi  |
| WEEE Category                                     | 5. Small Equipment (No External Dimension More Than 50  |
| Table Cologo,                                     | 5. Girdin Equipment (1.6 External Strictions of Final Str   |
| Certificates and Declarations                     |   |
| ABS Certificate                                   | ABS_20-2060694-   |
| BV Certificate                                    | BV_2634H2489  |
| CB Certificate                                    | CB_SE-9305  |
| CCC Certificate                                   | 202098030300  |
| CQC Certificate                                   | CQC201901030326   |
| Declaration of Conformity CCC                     | CQC201101030346   |
| Declaration of Conformity<br>- CE                 | 1SBD250005U   |
| Declaration of Conformity<br>- UKCA               | 1SBD250036U   |
| DNV Certificate                                   | DNV_TAE00001  |
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| EAC Certificate  | EAC_RU C-FR ME77 B03544     |
|------------------|-----------------------------|
| GOST Certificate | GOST_POCCFR.ME77.B07174.pdf |
| KC Certificate   | KC-HW02016-21031A           |
| LR Certificate   | LRS_LR2003684TA-02          |
| RINA Certificate | RINA_ELE240318XG            |
| RMRS Certificate | RMRS_1802702280             |
| UL Certificate   | UL 20180227 E252354 2 1     |
| UL Listing Card  | UL E252354                  |

| Package Level 1 Units           | box 1 piece   |
|---------------------------------|---------------|
| Package Level 1 Width           | 87 mm         |
| Package Level 1 Depth / Length  | 79 mm         |
| Package Level 1 Height          | 47 mm         |
| Package Level 1 Gross<br>Weight | 0.31 kg       |
| Package Level 1 EAN             | 3471523101616 |
| Package Level 2 Units           | box 27 piece  |
| Package Level 2 Width           | 250 mm        |
| Package Level 2 Depth / Length  | 300 mm        |
| Package Level 2 Height          | 315 mm        |
| Package Level 2 Gross<br>Weight | 16.74 kg      |
| Package Level 3 Units           | 1296 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            |
| ETIM 8                                | EC000196 - Contactor relay            |
| eClass                                | V11.0 : 27371001                      |
| UNSPSC                                | 39121529                              |
| IDEA Granular Category<br>Code (IGCC) | 4763 >> Power contactor, DC switching |
| E-Number (Finland)                    | 3706418                               |
| E-Number (Sweden)                     | 3211454                               |

## Categories

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