

PRODUCT-DETAILS

NFZ22E-20

NFZ22E-20 12-20VDC Contactor Relay



Informations générales

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|------------------------------|------------------------------------|
| Extension du type de produit | NFZ22E-20 |
| Code de produit | 1SBH136001R2022 |
| EAN | 3471523101708 |
| Description courte | NFZ22E-20 12-20VDC Contactor Relay |

Description longue

NFZ contactor relays are used for switching auxiliary and control circuits. NFZ contactor relays include an electronic coil interface accepting a wide control voltage U_c min. ... U_c max. Only four coils cover control voltages between 24...250 V 50/60 Hz or 12...250 V DC. NFZ 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 (mechanically-linked auxiliary contacts compliant with Annex L of IEC 60947-5-1 and including the "Mechanically Linked" symbol on the contactor relay side) - Control Circuit: DC operated for NF..Z-20 contactors. Only NF..Z-20 contactor relays need to respect the polarity on the coil terminals (A1+ and A2-). - Accessories: a wide range of Accessories is available.

Commande

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| Quantité minimum | 1 pièce |
| Code douanier | 85364900 |

Downloads Préférés

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| Instructions et manuels | 1SBC101027M6801 |
| CAD Dimensional Drawing | 2CDC001079B0201 |

Dimensions

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| Produit Largeur Net | 45 mm |
| Produit Longueur Net | 77 mm |
| Produit Hauteur Net | 86 mm |
| Poids net | 0.31 kg |

Technique

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| Number of Auxiliary Contacts NO | 2 |
| Number of Auxiliary Contacts NC | 2 |
| Normes et standards | IEC/EN 60947-1, IEC/EN 60947-5-1, UL 508, CSA C22.2 No. 14-13 |
| Tension | Circuit auxiliaire 690 V |
| Fréquence assignée (f) | Circuit auxiliaire 50 / 60 Hz |
| Courant thermique conventionnel à l'air libre (I_{th}) | acc. to IEC 60947-5-1, $\Theta = 40\text{ °C}$ 16 A |
| Courant assignée d'emploi AC-15 (I_e) | (500 V) 2 A (690 V) 2 A (24 / 127 V) 6 A (220 / 240 V) 4 A (400 / 440 V) 3 A |
| Courant assigné de courte durée admissible (I_{cw}) | for 0.1 s 140 A for 1 s 100 A |
| Maximum Electrical Switching Frequency | (AC-15) 1200 cycles per hour (DC-13) 900 cycles per hour |
| Courant assignée d'emploi DC-13 (I_e) | (24 V) 6 A / 144 W (48 V) 2.8 A / 134 W (72 V) 1 A / 72 W (110 V) 0.55 A / 60 W (125 V) 0.55 A / 69 W (220 V) 0.27 A / 60 W (250 V) 0.27 A / 68 W (400 V) 0.15 A / 60 W (500 V) 0.13 A / 65 W (600 V) 0.1 A / 60 W |
| Tension assignée d'isolement (U_i) | acc. to IEC 60947-5-1 690 V acc. to UL/CSA 600 V |
| Tension assignée de tenue aux chocs (U_{imp}) | 6 kV |
| Maximum Mechanical Switching Frequency | 6000 cycles per hour |
| Rated Control Circuit Voltage (U_c) | DC Operation 12 ... 20 V |
| Durée de fonctionnement nominale | Entre la mise hors tension de la bobine et la fermeture du contact NC (normally closed) 13 ... 98 ms Entre la mise hors tension de la bobine et l'ouverture du contact NO (normally open) 11 ... 95 ms Entre la mise sous tension de la bobine et l'ouverture du contact NC 38 ... 90 ms Entre la mise sous tension de la bobine et la fermeture du contact NO 40 ... 95 ms |
| Montage sur rail DIN | TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715 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 |

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| Connecting Capacity Auxiliary Circuit | Flexible with Ferrule 1/2x 0.75 ... 2.5 mm ² Flexible with Insulated Ferrule 1x 0.75 ... 2.5 mm ² Flexible with Insulated Ferrule 2x 0.75 ... 1.5 mm ² Rigid Solid 1/2x 1 ... 2.5 mm ² Rigid Stranded 1/2x 1 ... 2.5 mm ² |
| Connecting Capacity Control Circuit | Flexible with Ferrule 1/2x 0.75 ... 2.5 mm ² Flexible with Insulated Ferrule 1x 0.75 ... 2.5 mm ² Flexible with Insulated Ferrule 2x 0.75 ... 1.5 mm ² Rigid Solid 1/2x 1 ... 2.5 mm ² Rigid Stranded 1/2x 1 ... 2.5 mm ² |
| Wire Stripping Length | Auxiliary Circuit 10 mm Control Circuit 10 mm |
| Indice de protection | acc. to IEC 60529, IEC 60947-1, EN 60529 Auxiliary Terminals IP20 acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20 |
| Type de borne | Screw Terminals |

Technique UL/CSA

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|---|---|
| Connecting Capacity Auxiliary Circuit UL/CSA | Rigid Solid 1/2x 18-14 AWG Rigid Stranded 1/2x 18-14 AWG |
| Tightening Torque UL/CSA | Auxiliary Circuit 11 in-lb Control Circuit 11 in-lb |

Environnement

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| Température de l'air ambiant | Close to Contactor for Storage -60 ... +80 °C Near Contactor for Operation in Free Air -40 ... 70 °C |
| Climatic Withstand | Category B according to IEC 60947-1 Annex Q |
| Altitude de fonctionnement maximale autorisée | Without Derating 3000 m |
| REACH Declaration | 2CMT2021-006202 |
| Résistance aux chocs selon CEI 60068-2-27 | Closed, Shock Direction: B1 25 g Open, Shock Direction: B1 5 g Shock Direction: A 30 g Shock Direction: B2 15 g Shock Direction: C1 25 g Shock Direction: C2 25 g |
| Resistance to Vibrations acc. to IEC 60068-2-6 | 5 ... 300 Hz 4 g closed position / 2 g open position |
| Informations RoHS | 2CMT2021-006277 |
| Statut RoHS | Following EU Directive 2011/65/EU |

Certificats et Déclarations (Numéro de document)

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|-------------------------------------|-----------------------------|
| Certificat ABS | ABS_20-2060694-PDA |
| Certificat BV | BV_2634H24899C0 |
| CB Certificate | CB_SE-93051M2 |
| CCC Certificate | 2020980303000185 |
| CQC Certificate | CQC2019010303267993 |
| Declaration of Conformity - CCC | CQC2011010303465426 |
| Déclaration de Conformité - CE | 1SBD250005U1000 |
| Declaration of Conformity - UKCA | 1SBD250036U1000 |
| Certificat DNV | DNV_TAE00001BV-5 |
| EAC Certificate | EAC_RU C-FR ME77 B03544 |
| Certificat GOST | GOST_POCCFR.ME77.B07174.pdf |

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|-----------------|-------------------------|
| KC Certificate | KC-HW02016-21030A |
| Certificat LR | LRS_LR2003684TA |
| Certificat RINA | RINA_ELE240318XG |
| Certificat RMRS | RMRS_1802702280 |
| Certificat UL | UL_20180227_E252354_2_1 |
| UL Listing Card | UL_E252354 |

Emballage

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|-----------------------------|---------------|
| Emballage Niveau 1 Unités | box 1 pièce |
| Emballage Niveau 1 Largeur | 87 mm |
| Emballage Niveau 1 Longueur | 79 mm |
| Emballage Niveau 1 Hauteur | 47 mm |
| Emballage Niveau 1 Poids | 0.31 kg |
| Emballage Niveau 1 EAN | 3471523101708 |
| Emballage Niveau 2 Unités | box 27 pièce |
| Emballage Niveau 2 Largeur | 250 mm |
| Emballage Niveau 2 Longueur | 300 mm |
| Emballage Niveau 2 Hauteur | 315 mm |
| Emballage Niveau 2 Poids | 16.74 kg |
| Emballage Niveau 3 Unités | 1296 pièce |

Classifications

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| Code de classification d'objet | K |
| ETIM 4 | EC000196 - Contactor relay |
| ETIM 5 | EC000196 - Contactor relay |
| ETIM 6 | EC000196 - contacteur auxiliaire, relais |
| ETIM 7 | EC000196 - Contactor relay |
| ETIM 8 | EC000196 - Contactor relay |
| eClass | V11.0 : 27371001 |
| UNSPSC | 39121529 |
| Code de catégorie granulaire IDEA (IGCC) | 4763 >> Power contactor, DC switching |
| E-Number (Finland) | 3706403 |

Catégories

Produits basse tension → Produits de Contrôle, Protection et sécurité machines → Contacteurs → Contacteurs monoblocs → NF
Contactor Relays

