

PRODUCT-DETAILS

NF53E-13

NF53E-13 100-250V50/60HZ-DC Contactor Relay



Informations générales

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|------------------------------|---|
| Extension du type de produit | NF53E-13 |
| Code de produit | 1SBH137001R1353 |
| EAN | 3471523100633 |
| Description courte | NF53E-13 100-250V50/60HZ-DC Contactor Relay |
| Description longue | <p>The NF53E-13 is a 690 V IEC or 600 UL 8-pole contactor relay with screw terminals, used for switching auxiliary and control circuits. Thanks to the AF technology, the contactor relay has a wide control voltage range (100-250 V 50/60 Hz and DC), managing large control voltage variations, reducing panel energy consumptions and ensuring distinct operations in unstable networks. Furthermore, surge protection is built-in, offering a compact solution. NF contactor relays have a block type design, can be easily extended with add-on auxiliary contact blocks and an additional wide range of accessories.</p> <p>These contactor relays include mechanically-linked auxiliary contacts compliant with Annex L of IEC 60947-5-1 and are side-marked with the "Mechanically Linked" symbol.</p> |

Commande

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

Downloads Préférés

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

Drawing

Dimensions

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| Produit Largeur Net | 45 mm |
| Produit Longueur Net | 110.5 mm |
| Produit Hauteur Net | 86 mm |
| Poids net | 0.32 kg |

Technique

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| Number of Auxiliary Contacts NO | 5 |
| Number of Auxiliary Contacts NC | 3 |
| 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 Circuit de commande 50 / 60 Hz |
| Courant thermique conventionnel à l'air libre (I_{th}) | acc. to IEC 60947-5-1, $\Theta = 40$ °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) | 50 Hz 100 ... 250 V 60 Hz 100 ... 250 V DC Operation 100 ... 250 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 |
| 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 |

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| | 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.B06804.pdf |
| Certificat LR | LRS_LR2003684TA |
| Certificat RINA | RINA_ELE240318XG |

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| 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 | 113 mm |
| Emballage Niveau 1 Hauteur | 47 mm |
| Emballage Niveau 1 Poids | 0.32 kg |
| Emballage Niveau 1 EAN | 3471523100633 |
| Emballage Niveau 2 Unités | box 18 pièce |
| Emballage Niveau 2 Largeur | 250 mm |
| Emballage Niveau 2 Longueur | 300 mm |
| Emballage Niveau 2 Hauteur | 315 mm |
| Emballage Niveau 2 Poids | 11.52 kg |
| Emballage Niveau 3 Unités | 864 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 IDÉA (IGCC) | 4763 >> Power contactor, DC switching |
| E-Number (Finland) | 3706429 |

Catégories

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

