

General Information

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|------------------------|---|
| Extended Product Type: | NF31E-14 |
| Product ID: | 1SBH137001R1431 |
| EAN: | 3471523100244 |
| Catalog Description: | NF31E-14 250-500V50/60HZ-DC Contactor Relay |
| Long Description: | NF contactor relays are used for switching auxiliary and control circuits. NF 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...500 V 50/60 Hz or 20...500 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. NF 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: AC or DC operated - Accessories: a wide range of Accessories is available. |

Categories

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

Ordering

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| Minimum Order Quantity: | 1 piece |
| Customs Tariff Number: | 85369085 |
| EAN: | 3471523100244 |

Dimensions

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| Product Net Depth: | 77 mm |
| Product Net Height: | 86 mm |
| Product Net Weight: | 0.310 kg |
| Product Net Width: | 45 mm |

Container Information

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| Package Level 1 Width: | 87 mm |
| Package Level 1 Length: | 79 mm |
| Package Level 1 Height: | 47 mm |
| Package Level 1 Gross Weight: | 0.31 kg |
| Package Level 1 EAN: | 3471523100244 |
| Package Level 2 Units: | 54 piece |
| Package Level 2 Width: | 250 mm |
| Package Level 2 Length: | 300 mm |
| Package Level 2 Height: | 315 mm |
| Package Level 3 Units: | 1296 piece |
| Package Level 1 Units: | 1 piece |

Technical

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| Number of Auxiliary Contacts NO: | 3 |
| Number of Auxiliary Contacts NC: | 1 |
| Standards: | IEC 60947-5-1 and EN 60947-5-1, UL 508, CSA C22.2 N°14 |
| Rated Operational Voltage: | Auxiliary Circuit 690 V Main Circuit 690 V |
| Rated Frequency (f): | Auxiliary Circuit 50 / 60 Hz |
| Conventional Free-air Thermal Current (I_{th}): | acc. to IEC 60947-5-1, $q = 40$ °C 16 A |
| Rated Operational Current AC-15 (I_e): | (220 / 240 V) 4 A (24 / 127 V) 6 A (400 / 440 V) 3 A (500 V) 2 A (690 V) 2 A |
| Rated Short-time Withstand Current (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 |
| Rated Operational Current DC-13 (I_e): | (110 V) 0.55 A / 60 W (125 V) 0.55 A / 69 W (220 V) 0.27 A / 60 W (24 V) 6 A / 144 W (250 V) 0.27 A / 68 W |

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| | (400 V) 0.15 A / 60 W (48 V) 2.8 A / 134 W (500 V) 0.13 A / 65 W (600 V) 0.1 A / 60 W (72 V) 1 A / 72 W |
| Rated Insulation Voltage (U_i): | acc. to UL/CSA 600 V acc. to IEC 60947-5-1 and VDE 0110 (Gr. C) 690 V |
| Rated Impulse Withstand Voltage (U_{imp}): | 6 kV |
| Maximum Mechanical Switching Frequency: | 6000 cycles per hour |
| Rated Control Circuit Voltage (U_c): | 50 Hz 250 ... 500 V 60 Hz 250 ... 500 V DC Operation 250 ... 500 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 Between Coil Energization and NC Contact Opening 38...90 ms Between Coil Energization and NO Contact Closing 40...95 ms |
| 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 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 1/2x 1 ... 2.5 mm ² |
| Wire Stripping Length: | Auxiliary Circuit 10 mm Control Circuit 10 mm |
| Degree of 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 |
| Terminal Type: | Screw Terminals |

Environmental

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| Climatic Withstand: | Category B according to IEC 60947-1 Annex Q |
| Maximum Operating Altitude Permissible: | 3000 m |
| Resistance to Vibrations acc. to IEC 60068-2-6: | 5 ... 300 Hz 4 g closed position / 2 g open position |
| Resistance to Shock acc. to IEC 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 |
| RoHS Status: | Planned to follow EU Directive 2002/95/EC August 18, 2005 and amendment after 2008 Q1 |
| Ambient Air Temperature: | Close to Contactor for Storage -60...+80 °C Near Contactor for Operation in Free Air -40 ... +70 °C |

Technical UL/CSA

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| Tightening Torque UL/CSA: | Auxiliary Circuit 11 in-lb Control Circuit 11 in-lb |
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Certificates and Declarations (Document Number)

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| Instructions and Manuals: | 1SBC101027M6801 |
| ABS Certificate: | ABS_15-GE1349500-PDA_90682247 |
| CB Certificate: | CB_SE_70920A1M2 |
| CCC Certificate: | CCC_2011010303465426 |
| Data Sheet, Technical Information: | 1SBC101428D0201 |
| Declaration of Conformity - CE: | 1SBD250005U1000 |
| DNV Certificate: | DNV_E11683 |
| EAC Certificate: | EAC_RU C-FR ME77 B01006 |
| GL Certificate: | GL_3786612HH |
| GOST Certificate: | GOST_POCCFR.ME77.B06804.pdf |
| LR Certificate: | LRS_C1400038 |
| RINA Certificate: | RINA_ELE084013XG |
| RMRS Certificate: | RMRS_1300132124 |
| RoHS Information: | 1SBD251014E1000 |
| UL Certificate: | UL_20130206-E252354-2-1 |
| UL Listing Card: | UL_E252354 |

Classifications

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|------------------------------------|----------------------------|
| E-nummer: | 3211453 |
| ETIM 4: | EC000196 - Contactor relay |
| ETIM 5: | EC000196 - Contactor relay |
| ETIM 6: | EC000196 - Contactor relay |
| UNSPSC: | 39121500 |
| Object Classification Code: | K |



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