

PRODUCT-DETAILS

NF31E-12 48-130V50/60HZ-DC Contactor Relay



General Information

| Extended Product Type | NF31E-12 |
|-----------------------|--|
| Product ID | 1SBH137001R1231 |
| EAN | 3471523100220 |
| Catalog Description | NF31E-12 48-130V50/60HZ-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 Uc min Uc max. Only four coils cover control voltages between 24500 V 50/60 Hz or 20500 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. |

| Classifications | |
|-------------------------------|----------------------------|
| Object Classification Code | к |
| ETIM 4 | EC000196 - Contactor relay |
| ETIM 5 | EC000196 - Contactor relay |
| ETIM 6 | EC000196 - Contactor relay |
| ETIM 7 | EC000196 - Contactor relay |
| UNSPSC | 39121500 |
| E-Number (Sweden) | 3211451 |

| Container Information | |
|-----------------------------------|---------------|
| 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 Weight | 0.27 kg |
| Package Level 1 EAN | 3471523100220 |
| 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 Weight | 14.58 kg |
| Package Level 3 Units | 1296 piece |

| Certificates and Declarations (Document Number) | |
|---|-------------------------------|
| ABS Certificate | ABS_15-GE1349500-PDA_90682247 |
| BV Certificate | BV_2634H24899B0 |
| CB Certificate | CB_SE-89845 |
| CCC Certificate | CCC_2011010303465426 |
| cUL Certificate | UL_20180227_E252354_2_1 |
| Declaration of Conformity - CE | 1SBD250005U1000 |
| DNV Certificate | DNV-GL_TAE00001BV-3 |
| DNV GL Certificate | DNV-GL_TAE00001BV-3 |
| EAC Certificate | EAC_RU C-FR ME77 B01006 |
| Environmental Information | 1SBD250151E1000 |
| GL Certificate | DNV-GL_TAE00001BV-3 |
| GOST Certificate | GOST_POCCFR.ME77.B06804.pdf |
| Instructions and Manuals | 1SBC101027M6801 |
| LR Certificate | LRS_C1400038 |
| RINA Certificate | RINA_ELE240318XG |
| RMRS Certificate | RMRS_1802702280 |
| RoHS Information | 1SBD250005U1000 |
| UL Certificate | UL_20130206-E252354-2-1 |
| UL Listing Card | UL_E252354 |

| Technical UL/CSA | |
|-------------------|-------------------------|
| Tightening Torque | Auxiliary Circuit 11 IA |
| UL/CSA | Control Circuit 11 IA |

| Environmental | |
|---|--|
| Ambient Air Temperature | 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 |
| 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.
 Shock Direction: A 30 K40

 to IEC 60068-2-27
 Shock Direction: B2 15 K40

 Shock Direction: C1 25 K40
 Shock Direction: C1 25 K40

 Shock Direction: C2 25 K40
 Closed, Shock Direction: B1 25 K40

 Open, Shock Direction: B1 5 K40
 Open, Shock Direction: B1 5 K40

 RoHS Status
 Following EU Directive 2011/65/EU

| Technical | |
|---|--|
| Number of Auxiliary Contacts NO | 3 |
| Number of Auxiliary Contacts NC | |
| Standards | IEC 60947-5-1 and EN 60947-5-1, UL 508, CSA C22.2 N°14 |
| Rated Operational Voltage | Main Circuit 690 V Auxiliary 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 (500 V) 2 A (690 V) 2 A (400 / 440 V) 3 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) | (125 V) 0.55 A / 69 W (24 V) 6 A / 144 W (250 V) 0.27 A / 68 W (48 V) 2.8 A / 134 W (72 V) 1 A / 72 W (110 V) 0.55 A / 60 W (220 V) 0.27 A / 60 W (400 V) 0.15 A / 60 W (500 V) 0.13 A / 65 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 48 130 V 50 Hz / 60 Hz 48 130 V 60 Hz 48 130 V DC Operation 48 130 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 Flexible with Insulated Ferrule 2x 0.75 1.5 Flexible with Insulated Ferrule 1x 0.75 2.5 Rigid 1/2x 1 2.5 m ² |
| Connecting Capacity Control Circuit | Flexible with Ferrule 1/2x 0.75 2.5 m ² Flexible with Insulated Ferrule 1x 0.75 2.5 m ² Flexible with Insulated Ferrule 2x 0.75 1.5 m ² Rigid 1/2x 1 2.5 m 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 |

| Dimensions | |
|-------------------------------|---------|
| Product Net Width | 45 mm |
| Product Net Depth / Length | 77 mm |
| Product Net Height | 86 mm |
| Product Net Weight | 0.27 kg |

Popular Downloads

| - | |
|------------------|-----------------|
| Instructions and | 1SBC101027M6801 |
| Manuals | |
| | |

| Ordering | |
|------------------------|----------|
| Minimum Order Quantity | 1 piece |
| Customs Tariff Number | 85364900 |

Categories

Low Voltage Products and Systems \rightarrow Control Products \rightarrow Contactors \rightarrow Block Contactors

