

PRODUCT-DETAILS

NS31ES-25

NS31ES-25 220V50/60HZ Contactor Relay



General Information

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| Extended Product Type | NS31ES-25 |
| Product ID | 1SBH101004R2531 |
| EAN | 3471523009257 |
| Catalog Description | NS31ES-25 220V50/60HZ Contactor Relay |
| Long Description | NS... contactor relays are used for switching auxiliary circuits and control circuits. The NS..S contactor relays are the spring terminal version of the NS... range. - Poles and auxiliary contacts blocks: 4-pole contactor relays, front-mounted add-on auxiliary contact blocks (mechanically-linked auxiliary contacts compliant with Annex L of IEC 60947-5-1 including the "Mechanically Linked" symbol on the contactor relay side) - Control circuit: AC operated with laminated magnet circuit - Accessories: a wide range of accessories is available. |

Ordering

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|------------------------|----------|
| Minimum Order Quantity | 40 piece |
| Customs Tariff Number | 85364900 |

Popular Downloads

| | |
|--------------------------|-----------------|
| Instructions and Manuals | 1SBC101020M9701 |
| CAD Dimensional Drawing | 2CDC001079B0201 |

Dimensions

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| Product Net Width | 45 mm |
| Product Net Depth / Length | 72.5 mm |
| Product Net Height | 68 mm |
| Product Net Weight | 0.22 kg |

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, $\Theta = 40\text{ °C}$ 10 A |
| Rated Operational Current AC-15 (I_{θ}) | (500 V) NC 2 (500 V) 2 A (690 V) 2 A (24 / 127 V) 6 A (220 / 240 V) 4 A (400 / 440 V) 3 A |
| Rated Short-time Withstand Current Low Voltage (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_{θ}) | (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 |
| Rated Insulation Voltage (U_i) | acc. to IEC 60947-5-1 and VDE 0110 (Gr. C) 690 V acc. to UL/CSA 600 V |
| Rated Impulse Withstand Voltage (U_{imp}) | Auxiliary Circuit 6 kV |
| Maximum Mechanical Switching Frequency | 3600 cycles per hour |
| Rated Control Circuit Voltage (U_c) | 50 Hz 220 V 60 Hz 220 V |
| Operate Time | Between Coil De-energization and NC Contact Closing 7 ... 22 ms Between Coil De-energization and NO Contact Opening 5 ... 19 ms Between Coil Energization and NC Contact Opening 6 ... 18 ms Between Coil Energization and NO Contact Closing 9 ... 24 ms |
| Connecting Capacity Auxiliary Circuit | Flexible with Ferrule 1/2x 0.75 ... 2.5 mm ² Flexible with Insulated Ferrule 1/2x 0.75 ... 1.5 mm ² Rigid 1/2x 0.75 ... 2.5 mm ² |
| Connecting Capacity | Flexible with Ferrule 1/2x 0.75 ... 2.5 mm ² |

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| Control Circuit | Flexible with Insulated Ferrule 1/2x 0.75 ... 1.5 mm² Rigid 1/2x 0.75 ... 2.5 mm² |
| 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 | Spring Terminals |

Environmental

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| 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 | Without Derating 3000 m |
| Resistance to Vibrations acc. to IEC 60068-2-6 | 5 ... 300 Hz 3 g Closed position / 2 g Open position |
| Resistance to Shock acc. to IEC 60068-2-27 | Closed, Shock Direction: C1 19 g Closed, Shock Direction: C2 16 g Open, Shock Direction: C1 8 g Open, Shock Direction: C2 13 g Shock Direction: A 20 g Shock Direction: B1 5 g Shock Direction: B2 15 g |
| RoHS Status | Following EU Directive 2002/95/EC August 18, 2005 and amendment |

Certificates and Declarations

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|----------------------------------|---------------------------|
| CB Certificate | CB_CN_32453 |
| CCC Certificate | CCC_2007010305248106 |
| CQC Certificate | CQC2007010305248106 |
| Declaration of Conformity - CCC | 2020980304001219 |
| Declaration of Conformity - CE | 1SBD250016U1000 |
| Declaration of Conformity - UKCA | 1SBD250051U1000 |
| GOST Certificate | GOST_POCCCNME77B07821.pdf |
| UL Certificate | UL_220108-E312527A |

Container Information

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|--------------------------------|---------------|
| Package Level 1 Units | 1 piece |
| Package Level 1 Width | 78 mm |
| Package Level 1 Depth / Length | 80 mm |
| Package Level 1 Height | 48 mm |
| Package Level 1 Gross Weight | 0.22 kg |
| Package Level 1 EAN | 3471523009257 |
| Package Level 2 Units | 40 piece |
| Package Level 2 Width | 250 mm |

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| Package Level 2 Depth / Length | 315 mm |
| Package Level 2 Height | 195 mm |
| Package Level 2 Gross Weight | 8.8 kg |
| Package Level 3 Units | 960 piece |

Classifications

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| 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 Code (IGCC) | 4761 >> Magnet contactor, AC-switching |

Categories

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

