

PRODUCT-DETAILS

TNL40E 17-32V DC

TNL40E 17-32V DC Contactor Relay



General Information

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| Extended Product Type | TNL40E 17-32V DC |
| Product ID | 1SBH143061R5140 |
| EAN | 3471522329516 |
| Catalog Description | TNL40E 17-32V DC Contactor Relay |
| Long Description | TNL... contactor relays are used for switching auxiliary circuits and control circuits - Poles: 4 -pole contactor relays (mechanically linked contact elements available) - Control circuit: DC operated with solid core magnet circuit. The polarity on the coil terminals (A1+ and A2-) must be respected - Accessories: a wide range of accessories is available TNL... contactor relays are fitted with low consumption DC coils and offer a large coil voltage range. |

Ordering

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

Popular Downloads

| | |
|-----------------------------------|-----------------|
| Data Sheet, Technical Information | 1SNC001003C0202 |
| Instructions and Manuals | 1SBC101003M5501 |

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|-------------------------|-----------------|
| CAD Dimensional Drawing | 2CDC001079B0201 |
| Dimension Diagram | FPTE307872 |

Dimensions

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| Product Net Width | 44 mm |
| Product Net Depth / Length | 97 mm |
| Product Net Height | 78 mm |
| Product Net Weight | 0.52 kg |

Technical

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| Number of Auxiliary Contacts NO | 4 |
| Number of Auxiliary Contacts NC | 0 |
| Rated Operational Voltage | 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, $\Theta = 40\text{ °C}$ 16 A |
| Rated Operational Current AC-15 (I_{θ}) | (500 V) 2 A (690 V) 2 A (24 / 127 V) 6 A (220 / 240 V) 4 A (380 / 400 V) 3 A |
| Short-Circuit Protective Devices | Auxiliary Circuit - gG Type Fuses 10 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 | 1200 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) 0.30 A / 66 W (250 V) 0.3 / 75 W |
| Rated Insulation Voltage (U_i) | acc. to IEC 60947-5-1 690 V acc. to UL/CSA 600 V |
| Rated Impulse Withstand Voltage (U_{imp}) | 8 kV |
| Mechanical Durability | > 20 million |
| Maximum Mechanical Switching Frequency | 6000 cycles per hour |
| Rated Control Circuit Voltage (U_c) | DC Operation 17 ... 32 V |
| Coil Consumption | Holding DC (U_{min} / U_{max}) 2.5 / 8.5 W Pull-in DC (U_{min} / U_{max}) 2.5 / 8.5 W |
| Operate Time | Between Coil De-energization and NO Contact Opening 10 ... 17 ms Between Coil Energization and NO Contact Closing 50 ... 100 ms |

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| Mounting on DIN Rail | 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 Cable End 0.75 ... 2.5 mm ² Rigid Cable 1 ... 4 mm ² |
| 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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|---|---|
| Ambient Air Temperature | Close to Contactor for Storage -60 ... +80 °C Near Contactor for Operation in Free Air -40 ... 55 °C Near Contactor for Operation in Free Air (U _{cmin} -U _{cmax}) according to IEC 60077 -40 ...+70 °C |
| Climatic Withstand | acc. to IEC 60068-2-30 and 60068-2-11 - UTE C 63-100 specification II |
| Maximum Operating Altitude Permissible | Without Derating 3000 m |
| Resistance to Shock acc. to IEC 60068-2-27 | Closed, Shock Direction: A 20 g Closed, Shock Direction: B1 15 g Closed, Shock Direction: C1 20 g Closed, Shock Direction: C2 14 g Open, Shock Direction: A 10 g Open, Shock Direction: B1 5 g Open, Shock Direction: C1 8 g Open, Shock Direction: C2 8 g Shock Direction: B2 10 g |
| RoHS Status | Following EU Directive 2011/65/EU |

Certificates and Declarations

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| CB Certificate | CB_SE_66912A1 |
| CCC Certificate | CCC_2012010304558126 CCC_2006010304170816 |
| CQC Certificate | CQC2012010304558126 |
| CSA Certificate | CSA_1041746 |
| Declaration of Conformity - CCC | 2020980303000256 |
| Declaration of Conformity - CE | 1SBD250808U1000 |
| Declaration of Conformity - UKCA | 1SBD250825U1000 |
| EAC Certificate | EAC_RU C-FR ME77 B01006 |
| GOST Certificate | GOST_POCCFRME77B07174 |
| LOVAG Certificate | LOVAG_FR04029 |

Container Information

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|-----------------------------------|---------|
| Package Level 1 Units | 1 piece |
| Package Level 1 Width | 86 mm |
| Package Level 1 Depth / Length | 141 mm |

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|--------------------------------|---------------|
| Package Level 1 Height | 51 mm |
| Package Level 1 Gross Weight | 0.52 kg |
| Package Level 1 EAN | 3471522329516 |
| Package Level 2 Units | box 28 piece |
| Package Level 2 Width | 300 mm |
| Package Level 2 Depth / Length | 245 mm |
| Package Level 2 Height | 308 mm |
| Package Level 2 Gross Weight | 14.56 kg |
| Package Level 3 Units | 336 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 | EC002552 - Power contactor, DC switching |
| eClass | V11.0 : 27371018 |
| UNSPSC | 39121529 |
| IDEA Granular Category Code (IGCC) | 4763 >> Power contactor, DC switching |

Categories

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

