

## PRODUCT-DETAILS

# TNL62E 17-32V DC

## TNL62E 17-32V DC Contactor Relay



### General Information

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Extended Product Type | TNL62E 17-32V DC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Product ID            | 1SBH143061R5162                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| EAN                   | 3471522331519                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Catalog Description   | TNL62E 17-32V DC Contactor Relay                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Long Description      | <p>TNL... contactor relays are used for switching auxiliary circuits and control circuits - Poles: 8-pole contactor relays (mechanically linked contact elements available) The width of 8-pole devices is identical to that of 4-pole devices only the depth is increased - 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. only the depth is increased</p> <p>- Control circuit: DC operated with solid core magnet circuit. The polarity on the coil terminals (A1+ and A2-) must be respected</p> <p>- Accessories: a wide range of accessories is available</p> <p>TNL... contactor relays are fitted with low consumption DC coils and offer a large coil voltage range.</p> |

### Ordering

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

### Popular Downloads

|                                   |                 |
|-----------------------------------|-----------------|
| Data Sheet, Technical Information | 1SNC001003C0202 |
|-----------------------------------|-----------------|

Instructions and  
Manuals

1SBC101003M5501

Dimension Diagram

FPTE307873

## Dimensions

|                               |         |
|-------------------------------|---------|
| Product Net Width             | 44 mm   |
| Product Net Depth /<br>Length | 130 mm  |
| Product Net Height            | 78 mm   |
| Product Net Weight            | 0.58 kg |

## Technical

|                                                       |                                                                                                                                                                                                                                                                         |
|-------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Number of Auxiliary<br>Contacts NO                    | 6                                                                                                                                                                                                                                                                       |
| Number of Auxiliary<br>Contacts NC                    | 2                                                                                                                                                                                                                                                                       |
| Rated Operational<br>Voltage                          | Auxiliary Circuit 690 V<br>Main Circuit 690 V                                                                                                                                                                                                                           |
| Rated Frequency (f)                                   | Supply Circuit 50 60 Hz                                                                                                                                                                                                                                                 |
| Conventional Free-air<br>Thermal Current ( $I_{th}$ ) | acc. to IEC 60947-5-1, q = 40 °C 16 A                                                                                                                                                                                                                                   |
| Rated Operational<br>Current AC-15 ( $I_e$ )          | (500 V) 2 A<br>(690 V) 2 A<br>(24 / 127 V) 6 A<br>(220 / 240 V) 4 A<br>(380 / 400 V) 3 A                                                                                                                                                                                |
| Short-Circuit Protective<br>Devices                   | Auxiliary Circuit - gG Type Fuses 10 A                                                                                                                                                                                                                                  |
| Maximum Electrical<br>Switching Frequency             | 1200 cycles per hour                                                                                                                                                                                                                                                    |
| Rated Operational<br>Current DC-13 ( $I_e$ )          | (24 V) 6 / 144 A<br>(48 V) 2.8 / 134 A<br>(72 V) 1 / 72 A<br>(125 V) 0.55 / 69 A<br>(250 V) 0.3 / 75 A                                                                                                                                                                  |
| Rated Insulation Voltage<br>( $U_i$ )                 | acc. to IEC 60947-5-1 and VDE 0110 (Gr. C) 690 V<br>acc. to UL/CSA 600 V                                                                                                                                                                                                |
| Rated Impulse<br>Withstand Voltage ( $U_{imp}$ )      | 8 kV                                                                                                                                                                                                                                                                    |
| Mechanical Durability                                 | > 20 million                                                                                                                                                                                                                                                            |
| Maximum Mechanical<br>Switching Frequency             | 6000 cycles per hour                                                                                                                                                                                                                                                    |
| Rated Control Circuit<br>Voltage ( $U_c$ )            | DC Operation 17 ... 32 V                                                                                                                                                                                                                                                |
| Coil Consumption                                      | Holding DC ( $U_{min}$ / $U_{max}$ ) 2.5 / 8.5 W<br>Pull-in DC ( $U_{min}$ / $U_{max}$ ) 2.5 / 8.5 W                                                                                                                                                                    |
| Operate Time                                          | Between Coil De-energization and NC Contact Closing 16 ... 27 ms<br>Between Coil De-energization and NO Contact Opening 10 ... 17 ms<br>Between Coil Energization and NC Contact Opening 20 ... 70 ms<br>Between Coil Energization and NO Contact Closing 50 ... 100 ms |
| Connecting Capacity<br>Auxiliary Circuit              | Flexible with Cable End 0.75 ... 2.5 mm <sup>2</sup><br>Rigid Cable 1 ... 4 mm <sup>2</sup>                                                                                                                                                                             |
| Degree of Protection                                  | acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20                                                                                                                                                                                                            |
| Terminal Type                                         | Screw Terminals                                                                                                                                                                                                                                                         |

## Environmental

|                            |                                                                                                          |
|----------------------------|----------------------------------------------------------------------------------------------------------|
| Ambient Air<br>Temperature | Close to Contactor for Storage -60 ... +80 °C<br>Near Contactor for Operation in Free Air -40 ... +55 °C |
|----------------------------|----------------------------------------------------------------------------------------------------------|

|                                            |                                                                                                                                                                                                                                                                                                                               |
|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Climatic Withstand                         | acc. to IEC 60068-2-30 and 60068-2-11 - UTE C 63-100 specification II                                                                                                                                                                                                                                                         |
| Maximum Operating Altitude Permissible     | 3000 m                                                                                                                                                                                                                                                                                                                        |
| Resistance to Shock acc. to IEC 60068-2-27 | Closed, Shock Direction: A 20 K40<br>Closed, Shock Direction: B1 15 K40<br>Closed, Shock Direction: C1 20 K40<br>Closed, Shock Direction: C2 14 K40<br>Open, Shock Direction: A 10 K40<br>Open, Shock Direction: B1 5 K40<br>Open, Shock Direction: C1 8 K40<br>Open, Shock Direction: C2 8 K40<br>Shock Direction: B2 10 K40 |
| RoHS Status                                | Following EU Directive 2011/65/EU                                                                                                                                                                                                                                                                                             |

## Certificates and Declarations (Document Number)

|                                 |                         |
|---------------------------------|-------------------------|
| CB Certificate                  | CB_SE_66912A1           |
| CCC Certificate                 | CCC_2012010304558126    |
| CQC Certificate                 | CQC2012010304558126     |
| CSA Certificate                 | CSA_1041746             |
| Declaration of Conformity - CCC | 2020980303000256        |
| Declaration of Conformity - CE  | 1SBD250808U1000         |
| EAC Certificate                 | EAC_RU C-FR ME77 B01006 |
| Environmental Information       | 1SBD250127E1002         |
| GOST Certificate                | GOST_POCCFRME77B07174   |
| Instructions and Manuals        | 1SBC101003M5501         |
| RoHS Information                | 1SBD250808U1000         |

## Container Information

|                                |               |
|--------------------------------|---------------|
| Package Level 1 Units          | 1 piece       |
| Package Level 1 Width          | 86 mm         |
| Package Level 1 Depth / Length | 141 mm        |
| Package Level 1 Height         | 51 mm         |
| Package Level 1 Gross Weight   | 0.58 kg       |
| Package Level 1 EAN            | 3471522331519 |
| Package Level 2 Units          | box 28 piece  |
| Package Level 2 Gross Weight   | 16.24 kg      |

## Classifications

|                            |                            |
|----------------------------|----------------------------|
| Object Classification Code | K                          |
| ETIM 4                     | EC000196 - Contactor relay |
| ETIM 5                     | EC000196 - Contactor relay |
| ETIM 6                     | EC000196 - Contactor relay |
| ETIM 7                     | EC000196 - Contactor relay |
| UNSPSC                     | 39121500                   |

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## Categories

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

