



PRODUCT-DETAILS

TKC6-40E-68

TKC6-40E-68 Mini Contactor Relay 140 ... 260 V DC - 0 NO - 0 NC - Screw Terminals



| General Information    |  |
|------------------------|--|
| Extended Product Type  | TKC6-40E-68  |
| Product ID             | GJH1213061R6408  |
| EAN                    | 4013614309298  |
| Catalog Description    | TKC6-40E-68 Mini Contactor Relay 140 ... 260 V DC - 0 NO - 0 NC - Screw Terminals  |
| Long Description       | The TKC6-40E mini contactor relay is a compact 4 pole contactor relay with screw terminals. They are ideally suited for applications where reliability is a must and space is at a premium. Mini contactors relays are used in residential buldings, commercial buildings and industrial applications for switching of control signals up to 3 A / 400 V (AC-15). Further features are the noiseless and hum-free coil and a switch position indication. |
| Ordering               |  |
| Minimum Order Quantity | 1 piece  |
| Customs Tariff Number  | 85365080   |
| Popular Downloads      |  |

|                                   |                 |
|-----------------------------------|-----------------|
| Data Sheet, Technical Information | 1SBC100214C0202 |
| Instructions and Manuals          | 2CDC102001C0202 |
| CAD Dimensional Drawing           | 2CDC001079B0201 |

## Dimensions

|                            |         |
|----------------------------|---------|
| Product Net Width          | 52.5 mm |
| Product Net Depth / Length | 46.5 mm |
| Product Net Height         | 57.5 mm |
| Product Net Weight         | 0.18 kg |

## Technical

|  |   |
|--|---|
| Number of Main Contacts NO                         | 0   |
| Number of Main Contacts NC                         | 0   |
| Number of Auxiliary Contacts NO                    | 4   |
| Number of Auxiliary Contacts NC                    | 0   |
| Number of Poles                                    | 4P  |
| Standards  | IEC/EN 60947-1<br>IEC/EN 60947-4-1<br>IEC/EN 60947-5-1  |
| Rated Operational Voltage                          | Auxiliary Circuit 690 V AC<br>Auxiliary Circuit 250 V DC  |
| Rated Frequency (f)                                | Auxiliary Circuit 50 Hz<br>Auxiliary Circuit 60 Hz<br>Auxiliary Circuit DC<br>Control Circuit DC<br>Main Circuit 60 Hz<br>Main Circuit 50 Hz<br>Main Circuit DC |
| Conventional Free-air Thermal Current ( $I_{th}$ ) | Auxiliary Circuit 6 A   |
| Rated Operational Current AC-15 ( $I_e$ )          | (24 V) 4 A<br>(120 V) 4 A<br>(240 V) 4 A<br>(400 V) 3 A<br>(500 V) 2 A  |
| Rated Operational Current DC-13 ( $I_e$ )          | (24 V) 2.5 A<br>(110 V) 0.7 A<br>(220 / 240 V) 0.4 A  |
| Short-Circuit Protective Devices                   | gG Type Fuses 6 A   |
| Rated Insulation Voltage ( $U_i$ )                 | 690 V   |
| Rated Impulse Withstand Voltage ( $U_{imp}$ )      | Auxiliary Circuit 6 kV  |
| Maximum Electrical Switching Frequency             | (AC-15) 600 cycles per hour<br>(DC-13) 600 cycles per hour  |
| Mechanical Durability                              | 10000000 cycle  |
| Minimum Switching Capacity                         | 17 V<br>5 mA  |

|   |   |
|---|---|
| Coil Operating Limits                   | (acc. to IEC 60947-5-1) for DC supply $U_c$ Min. ... $U_c$ Max. (at $\theta \leq 55^\circ\text{C}$ )  |
| Rated Control Circuit Voltage ( $U_c$ ) | 140 ... 260 V DC  |
| Coil Consumption                        | Average Holding Value DC 5 W<br>Average Pull-in Value DC 5 W  |
| Power Loss                              | at Rated Operating Conditions per Pole 0.32 W   |
| Mounting on DIN Rail                    | TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715<br>TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715  |
| Connecting Capacity Auxiliary Circuit   | Flexible with Ferrule 1/2x 1 ... 2.5 mm <sup>2</sup><br>Flexible with Insulated Ferrule 1/2x 1 ... 2.5 mm <sup>2</sup><br>Flexible 1/2x 1 ... 2.5 mm <sup>2</sup><br>Rigid 1/2x 1 ... 4 mm <sup>2</sup> |
| Connecting Capacity Control Circuit     | Flexible with Ferrule 1/2x 1 ... 2.5 mm <sup>2</sup><br>Flexible with Insulated Ferrule 1/2x 1 ... 2.5 mm <sup>2</sup><br>Flexible 1/2x 1 ... 2.5 mm <sup>2</sup><br>Rigid 1/2x 1 ... 4 mm <sup>2</sup> |
| Wire Stripping Length                   | Auxiliary Circuit 9 mm  |
| Degree of Protection                    | Auxiliary Circuit Terminals IP20<br>Control Circuit Terminals IP20  |
| Recommended Screw Driver                | M3<br>Pozidriv 1  |
| Tightening Torque                       | Auxiliary Circuit 0.8 ... 1.1 N-m<br>Control Circuit 0.8 ... 1.1 N-m<br>Main Circuit 0.8 ... 1.1 N-m  |
| Terminal Type                           | Screw Terminals   |
| Mini Contactor Type                     | Mini Contactor Relay  |
| Product Name                            | Mini Contactor Relay  |
| Remarks                                 | No CA6 or CAF6 mountable  |

## Technical UL/CSA

|                                  |                               |
|----------------------------------|-------------------------------|
| Maximum Operating Voltage UL/CSA | Auxiliary Circuit 600 V AC/DC |
| General Use Rating UL/CSA        | (600 V AC) 5 A                |

## Environmental

|   |  |
|---|--|
| Ambient Air Temperature                         | Operation -30 ... +70 °C<br>Storage -40 ... +85 °C |
| Maximum Operating Altitude Permissible          | 2000 m   |
| Resistance to Shock acc. to IEC 60068-2-27      | 11 ms Pulse 15g                                    |
| Resistance to Vibrations                        | 3g 3 ... 150 Hz                                    |
| Shock and Vibration Withstand acc. to IEC 61373 | Category 1, Class B                                |

## Material Compliance

|   |  |
|---|--|
| Conflict Minerals Reporting Template (CMRT) | 9AKK108467A5658  |
| REACH Declaration                           | 2CMT2021-006202  |
| RoHS Information                            | 2CMT2021-006277  |
| RoHS Status                                 | Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019 |
| Toxic Substances                            | 2CMT2023-006525  |

|                    |  |
|--------------------|--|
| Control Act - TSCA |  |
| WEEE B2C / B2B     | Business To Business                                       |
| WEEE Category      | 5. Small Equipment (No External Dimension More Than 50 cm) |

### ABB EcoSolutions

|  |                 |
|--|-----------------|
| End Of Life<br>Disassembling<br>Instructions | 1SBC100156C0269 |
| Environmental Product<br>Declaration - EPD   | 1SAC200409H0001 |

### Certificates and Declarations

|                                     |                 |
|-------------------------------------|-----------------|
| Declaration of<br>Conformity - CE   | 1SAD101100-3101 |
| Declaration of<br>Conformity - UKCA | 1SAD201100-3101 |
| EAC Certificate                     | 1SAA938001-2701 |

### Container Information

|                                   |               |
|-----------------------------------|---------------|
| Package Level 1 Units             | box 10 piece  |
| Package Level 1 Width             | 115 mm        |
| Package Level 1 Depth /<br>Length | 280 mm        |
| Package Level 1 Height            | 54 mm         |
| Package Level 1 Gross<br>Weight   | 1.87 kg       |
| Package Level 1 EAN               | 4013614412011 |

### External Classifications and Standards

|                                       |                                       |
|---------------------------------------|---------------------------------------|
| Object Classification<br>Code         | K                                     |
| ETIM 7                                | EC000196 - Contactor relay            |
| ETIM 8                                | EC000196 - Contactor relay            |
| ETIM 9                                | EC000196 - Contactor relay            |
| eClass                                | V11.0 : 27371001                      |
| UNSPSC                                | 39121529                              |
| IDEA Granular Category<br>Code (IGCC) | 4763 >> Power contactor, DC switching |

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## Categories

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Low Voltage Products and Systems → Control Products → Contactors → Mini Contactor Relays

