

TKC6-31Z-51



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

General Information

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| Extended Product Type: | TKC6-31Z-51 |
| Product ID: | GJH1213061R5311 |
| EAN: | 4013614224669 |
| Catalog Description: | TKC6-31Z-51 Mini Contactor Relay 17-32VDC |
| Long Description: | The TKC6-31Z 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 buildings, 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

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| Minimum Order Quantity: | 1 piece |
| Customs Tariff Number: | 85365080 |

Popular Downloads

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| Data Sheet, Technical Information: | 1SBC100173C0201 |
| Instructions and Manuals: | 2CDC102001C0202 |

Dimensions

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| Product Net Width: | 52.5 mm |
| Product Net Height: | 57.5 mm |
| Product Net Depth: | 46.5 mm |
| Product Net Weight: | 0.18 kg |

Technical

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| Number of Poles: | 4 |
| Mini Contactor Type: | Mini Contactor Relay |
| Rated Operational Voltage: | Auxiliary Circuit 12 ... 240 V DC Auxiliary Circuit 12 ... 500 V AC/DC Auxiliary Circuit 690 V |
| Rated Frequency (f): | Auxiliary Circuit 50 Hz Auxiliary Circuit 60 Hz Auxiliary Circuit DC Control Circuit DC Main Circuit 60 Hz Main Circuit 50 Hz Main Circuit DC |

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| Rated Impulse Withstand Voltage (U_{imp}): | Auxiliary Circuit 6 kV |
| Rated Insulation Voltage (U_i): | 690 V acc. to UL/CSA 600 V |
| Number of Main Contacts NC: | 0 |
| Number of Main Contacts NO: | 0 |
| Rated Operational Current AC-1 (I_e): | (220 / 240 V) 40 °C 20 A (220 / 240 V) 55 °C 16 A (380 / 440 V) 40 °C 20 A (380 / 440 V) 55 °C 16 A |
| Number of Auxiliary Contacts NC: | 1 |
| Number of Auxiliary Contacts NO: | 3 |
| Rated Operational Current AC-15 (I_e): | (120 V) 4 A (220 / 240 V) 4 A (240 V) 4 A (24 V) 4 A (380 / 400 V) 3 A (500 V) 2 A |
| Rated Operational Current DC-13 (I_e): | (110 V) 0.7 A (220 / 240 V) 0.4 A (24 V) 2.5 A |
| Conventional Free-air Thermal Current (I_{th}): | Auxiliary Circuit 6 A |
| Rated Control Circuit Voltage (U_c): | 17 ... 32 V DC |
| Coil Operating Limits: | (acc. to IEC 60947-4-1) for DC supply U_c Min. ... U_c Max. (at $\theta \leq 55$ °C) (acc. to IEC 60947-5-1) for DC supply U_c Min. ... U_c Max. (at $\theta \leq 55$ °C) |
| Degree of Protection: | Auxiliary Circuit Terminals IP20 Control Circuit Terminals IP20 Main Circuit Terminals IP20 |
| Mechanical Durability: | 10000000 cycle |
| Maximum Electrical Switching Frequency: | AC-15 600 cycles per hour DC-13 600 cycles per hour |
| Connecting Capacity Auxiliary Circuit: | Flexible with Ferrule 1/2x 1 ... 2.5 mm ² Flexible with Insulated Ferrule 1/2x 1 ... 2.5 mm ² Flexible 1/2x 1 ... 2.5 mm ² Rigid 1/2x 1 ... 4 mm ² |
| Connecting Capacity Control Circuit: | Flexible with Ferrule 1/2x 1 ... 2.5 mm ² Flexible with Insulated Ferrule 1/2x 1 ... 2.5 mm ² Flexible 1/2x 1 ... 2.5 mm ² Rigid 1/2x 1 ... 4 mm ² |
| Wire Stripping Length: | Auxiliary Circuit 9 mm |
| Tightening Torque: | Auxiliary Circuit 0.8 ... 1.1 N·m Control Circuit 0.8 ... 1.1 N·m |

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| Mounting on DIN Rail: | TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715 TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715 |
| Power Loss: | at Rated Operating Conditions per Pole 2 W |
| Standards: | IEC/EN 60947-1 IEC/EN 60947-4-1 IEC/EN 60947-5-1 |
| Remarks: | No CA6 or CAF6 mountable |

Environmental

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| Ambient Air Temperature: | Operation -30 ... +70 °C 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 acc. to IEC 60068-2-6: | 3g / 3 ... 150 Hz |
| RoHS Status: | Following EU Directive 2011/65/EU |

Technical UL/CSA

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

Certificates and Declarations (Document Number)

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| Declaration of Conformity - CE: | 1SAD938512-0001 |
| EAC Certificate: | 1SAA938001-2701 |
| Instructions and Manuals: | 2CDC102001C0202 |
| RoHS Information: | 1SAD938512-0001 |

Container Information

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| Package Level 1 Units: | 10 piece |
| Package Level 1 Width: | 115 mm |
| Package Level 1 Height: | 54 mm |
| Package Level 1 Length: | 280 mm |
| Package Level 1 Gross Weight: | 1.87 kg |
| Package Level 1 EAN: | 4013614411922 |

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

eClass: 7.0 27371001

UNSPSC: 39121500

