

PRODUCT-DETAILS

KC6-31Z-05

KC6-31Z-05 Mini Contactor Relay 220-240VDC



General Information

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| Extended Product Type | KC6-31Z-05 |
| Product ID | GJH1213001R0315 |
| EAN | 4013614049743 |
| Catalog Description | KC6-31Z-05 Mini Contactor Relay 220-240VDC |
| Long Description | The KC6-31Z 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 a switch position indication. |

Ordering

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| EAN | 4013614049743 |
| Minimum Order Quantity | 1 piece |
| Customs Tariff Number | 85365080 |

Dimensions

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| Product Net Width | 52.5 mm |
| Product Net Height | 57.5 mm |
| Product Net Depth / | 46.5 mm |

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| Length | |
| Product Net Weight | 0.175 kg |

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 Depth / Length | 280 mm |
| Package Level 1 Gross Weight | 1.82 kg |
| Package Level 1 EAN | 4013614410956 |

Environmental

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| Ambient Air Temperature | Operation -25 ... +55 °C Storage -40 ... +80 °C |
| Maximum Operating Altitude Permissible | 2000 m |
| Resistance to Vibrations acc. to IEC 60068-2-6 | 3g / 3 ... 150 Hz |
| Resistance to Shock acc. to IEC 60068-2-27 | 11 ms Pulse 15g |
| 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 |
| Contact Rating UL/CSA | A600 |
| General Use Rating UL/CSA | (600 V AC) 5 A |
| Connecting Capacity Auxiliary Circuit UL/CSA | Stranded 1/2x 22-10 AWG |
| Tightening Torque UL/CSA | Auxiliary Circuit 7 in-lb Control Circuit 7 in-lb |
| Pilot Duty of Contact Elements acc. UL508 | A600 |

Additional Information

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| Coil Consumption | Average Holding Value DC 3.5 W Average Pull-in Value DC 3.5 W |
| Coil Operating Limits | (acc. to IEC 60947-5-1) for DC supply 0.85 ... 1.1 x U _c (at $\theta \leq 55$ °C) |
| 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 |

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| Conventional Free-air Thermal Current (I_{th}) | Auxiliary Circuit 6 A |
| Degree of Protection | Auxiliary Circuit Terminals IP20 Control Circuit Terminals IP20 |
| Maximum Electrical Switching Frequency | AC-15 600 cycles per hour DC-13 600 cycles per hour |
| Mechanical Durability | 10000000 cycle |
| Mini Contactor Type | Mini Contactor Relay |
| Minimum Switching Capacity | 17 V 5 mA |
| 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 |
| Mounting Position | Any, Position 1-6 |
| Mounting Type | DIN-rail Screw |
| Number of Auxiliary Contacts NC | 1 |
| Number of Auxiliary Contacts NO | 3 |
| Number of Poles | 4 |
| Number of Main Contacts NC | 0 |
| Number of Main Contacts NO | 0 |
| Power Loss | at Rated Operating Conditions per Pole 2 W |
| Product Main Type | KC6 |
| Product Name | Mini Contactor Relay |
| Rated Control Circuit Voltage (U_c) | 220 ... 240 V DC |
| 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 |
| Rated Impulse Withstand Voltage (U_{imp}) | Auxiliary Circuit 6 kV |
| Rated Insulation Voltage (U_i) | 690 V acc. to UL/CSA 600 V |
| Rated Operational Current AC-15 (I_{θ}) | (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_{θ}) | (110 V) 0.7 A (220 / 240 V) 0.4 A (24 V) 2.5 A |
| Rated Operational Voltage | Auxiliary Circuit 12 ... 240 V DC Auxiliary Circuit 12 ... 500 V AC/DC Auxiliary Circuit 690 V |
| RoHS Date | 0056 |
| Standards | IEC/EN 60947-1 IEC/EN 60947-4-1 IEC/EN 60947-5-1 UL 60947-1 |

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| | UL 60947-4-1 |
| Terminal Type | Screw Terminals |
| Tightening Torque | Auxiliary Circuit 0.8 ... 1.1 N·m Control Circuit 0.8 ... 1.1 N·m |
| Wire Stripping Length | Auxiliary Circuit 9 mm |

Certificates and Declarations (Document Number)

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|-----------------------------------|-----------------|
| CB Certificate | 1SAA938001-2001 |
| CCC Certificate | 1SAA938000-3804 |
| cULus Certificate | 1SAA938002-1701 |
| Data Sheet, Technical Information | 1SBC100173C0201 |
| Declaration of Conformity - CE | 1SAD938516-0001 |
| EAC Certificate | 1SAA938001-2701 |
| Instructions and Manuals | 2CDC102047M6801 |
| RMRS Certificate | 1SAA938001-0704 |
| RoHS Information | 1SAD938514-0001 |
| UL Certificate | 1SAA938002-1601 |
| Dimension Diagram | GJL1200436F0001 |

Classifications

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| ETIM 4 | EC000196 - Contactor relay |
| ETIM 5 | EC000196 - Contactor relay |
| ETIM 6 | EC000196 - Contactor relay |
| ETIM 7 | EC000196 - Contactor relay |
| Object Classification Code | K |
| UNSPSC | 39121500 |
| WEEE Category | 5. Small Equipment (No External Dimension More Than 50 cm) |
| eClass | 7.0 27371001 |

Categories

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

