



PRODUCT-DETAILS

KC6-31Z-F-1.4-81

KC6-31Z-F-1.4-81 Mini Contactor Relay 24 V DC
- 0 NO - 0 NC - Flat-Pin Connections



| General Information | |
|-----------------------------------|--|
| Extended Product Type | KC6-31Z-F-1.4-81 |
| Product ID | GJH1213003R8311 |
| EAN | 4013614050091 |
| Catalog Description | KC6-31Z-F-1.4-81 Mini Contactor Relay 24 V DC - 0 NO - 0 NC - Flat-Pin Connections |
| Long Description | The KC6-31Z-F mini contactor relay is a compact 4 pole contactor relay with flat pin connection. 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). Due to the low coil consumption, this device can be directly controlled by a PLC. 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 |

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|--------------------------|-----------------|
| Instructions and Manuals | 2CDC102047M6801 |
| CAD Dimensional Drawing | 2CDC001079B0201 |
| Dimension Diagram | GJL1200437F0001 |

Dimensions

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|----------------------------|---------|
| Product Net Width | 52.5 mm |
| Product Net Depth / Length | 46.5 mm |
| Product Net Height | 57.5 mm |
| Product Net Weight | 0.17 kg |

Technical

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| Number of Main Contacts NO | 0 |
| Number of Main Contacts NC | 0 |
| Number of Auxiliary Contacts NO | 3 |
| Number of Auxiliary Contacts NC | 1 |
| Number of Poles | 4P |
| Standards | IEC/EN 60947-1 IEC/EN 60947-4-1 IEC/EN 60947-5-1 UL 60947-1 UL 60947-4-1 IEC 60335-2-40 A2L |
| Rated Operational Voltage | Auxiliary Circuit 690 V AC Auxiliary Circuit 250 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 |
| Conventional Free-air Thermal Current (I_{th}) | Auxiliary Circuit 6 A |
| Rated Operational Current AC-15 (I_a) | (24 V) 4 A (120 V) 4 A (240 V) 4 A (400 V) 3 A (500 V) 2 A |
| Rated Operational Current DC-13 (I_a) | (24 V) 2.5 A (110 V) 0.7 A (220 / 240 V) 0.4 A |
| Short-Circuit Protective Devices | gG Type Fuses 6 A |
| Rated Insulation Voltage (U_i) | 690 V acc. to UL/CSA 600 V |
| Rated Impulse Withstand Voltage (U_{imp}) | Auxiliary Circuit 6 kV |
| Maximum Electrical Switching Frequency | (AC-15) 600 cycles per hour (DC-13) 600 cycles per hour |
| Mechanical Durability | 10000000 cycle |
| Minimum Switching Capacity | 17 V 5 mA |
| Coil Operating Limits | (acc. to IEC 60947-5-1) for DC supply 0.85 ... 1.1 x U_c (at $\theta \leq 55^\circ\text{C}$) |
| Rated Control Circuit Voltage (U_c) | 24 V DC |
| Coil Consumption | Average Holding Value DC 1.4 W Average Pull-in Value DC 1.4 W |

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| 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 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715 |
| Degree of Protection | Auxiliary Circuit Terminals IP20 Control Circuit Terminals IP20 Main Circuit Terminals IP20 |
| Terminal Type | Flat-Pin Connections |
| Mini Contactor Type | Interface Mini Contactor Relay |
| Product Name | Mini Contactor Relay |
| Remarks | No CA6 or CAF6 mountable |

Technical UL/CSA

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|----------------------------------|----------------|
| Maximum Operating Voltage UL/CSA | 600 V AC |
| General Use Rating UL/CSA | (600 V AC) 5 A |
| Contact Rating UL/CSA | A600 |

Environmental

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| Ambient Air Temperature | Operation -25 ... +55 °C Storage -40 ... +80 °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 |

Material Compliance

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|---|--|
| 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 Control Act - TSCA | 2CMT2023-006525 |
| WEEE B2C / B2B | Business To Business |
| WEEE Category | 5. Small Equipment (No External Dimension More Than 50 cm) |

ABB EcoSolutions

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|---|-----------------|
| End Of Life Disassembling Instructions | 1SBC100156C0263 |
| Environmental Product Declaration - EPD | 1SAC200409H0001 |

Certificates and Declarations

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|---------------------------------|---------------------|
| A2L Certificate - IEC | 1SAA938000-4601 |
| CB Certificate | 1SAA938001-2001 |
| CQC Certificate | CQC2003010304064035 |
| cURus Certificate | 1SAA938000-1901 |
| Declaration of Conformity - CCC | 2020980304001309 |
| Declaration of Conformity - CE | 1SAD101100-3101 |

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|-------------------------------------|-----------------|
| Declaration of Conformity - UKCA | 1SAD201100-3101 |
| EAC Certificate | 1SAA938001-2701 |
| RMRS Certificate | 1SAA938001-0704 |
| UL Certificate | E48139-19881213 |
| UR Certificate | 1SAA938000-1801 |

Container Information

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|-----------------------------------|---------------|
| Package Level 1 Units | box 10 piece |
| Package Level 1 Width | 115 mm |
| Package Level 1 Depth / Length | 280 mm |
| Package Level 1 Height | 54 mm |
| Package Level 1 Gross Weight | 1.77 kg |
| Package Level 1 EAN | 4013614411540 |

External Classifications and Standards

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|---------------------------------------|---------------------------------------|
| Object Classification 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 Code (IGCC) | 4763 >> Power contactor, DC switching |

Categories

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

