



Representative Image

## Alternate Catalog No. KC6-31Z-01 Catalog No. GJH1213001R0311

**Description:** KC6-31Z-01 Mini Contactor Relay 24VDC

**UPC No** 4013614049705

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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 switch position indication.

### Descriptors

|          |               |
|----------|---------------|
| Category | AF Contactors |
|----------|---------------|

### Specifications

|                                                |                                                                                                        |
|------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| Product Type                                   | Mini Contactors (B6, B7)                                                                               |
| General Use Rating UL/CSA                      | (600 V AC) 5 A                                                                                         |
| Object Classification Code                     | K                                                                                                      |
| Terminal Type                                  | Screw Terminals                                                                                        |
| Rated Control Circuit Voltage                  | 24 V DC                                                                                                |
| Number of Main Contacts NO                     | 0                                                                                                      |
| Connecting Capacity Auxiliary Circuit UL/CSA   | Stranded 1/2x 22-10 american wire gauge                                                                |
| Number of Main Contacts NC                     | 0                                                                                                      |
| Maximum Operating Voltage UL/CSA               | Auxiliary Circuit 600 V AC / DC                                                                        |
| Resistance to Vibrations acc. to IEC 60068-2-6 | 3g / 3 ... 150 Hz                                                                                      |
| Number of Auxiliary Contacts NO                | 3                                                                                                      |
| RoHS Status                                    | Following EU Directive 2011/65/EU                                                                      |
| Reference Ambient Air Temperature              | Operation -25 ... +55 °C                                                                               |
| Rated Operational Voltage                      | Auxiliary Circuit 12 ... 240 V DC<br>Auxiliary Circuit 12 ... 500 V AC / DC<br>Auxiliary Circuit 690 V |
| Number of Auxiliary Contacts NC                | 1                                                                                                      |
| Tightening Torque UL/CSA                       | Auxiliary Circuit 7 in-lb (pound inch)<br>Control Circuit 7 in-lb (pound inch)                         |
| Maximum Operating Altitude Permissible         | 2000 m                                                                                                 |
| Standards                                      | IEC/EN 60947-1<br>IEC/EN 60947-4-1<br>IEC/EN 60947-5-1<br>UL 60947-1<br>UL 60947-4-1                   |
| Conventional Free-air Thermal Current          | Auxiliary Circuit 6 A                                                                                  |
| Rated Operational Current AC-15                | (120 V) 4 A<br>(220 / 240 V) 4 A<br>(240 V) 4 A<br>(24 V) 4 A<br>(380 / 400 V) 3 A<br>(500 V) 2 A      |

## Specifications

|                                           |                                                                                                                                                                                                                 |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rated Frequency                           | 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 50Hz<br>Main Circuit DC                                                  |
| Maximum Electrical Switching Frequency    | AC-15 600 cycles per hour<br>DC-13 600 cycles per hour                                                                                                                                                          |
| Short-Circuit Protective Devices          | gG Type Fuses 6 A                                                                                                                                                                                               |
| Rated Insulation Voltage                  | 690 V<br>acc. to UL/CSA 600 V                                                                                                                                                                                   |
| Mechanical Durability                     | 10000000 cycle                                                                                                                                                                                                  |
| Coil Operating Limits                     | (acc. to IEC 60947-5-1) for DC supply 0.85 ... 1.1 x U <sub>c</sub> (at $\theta \leq 55^\circ$ C)                                                                                                               |
| Secondary Rated Impulse Withstand Voltage | Auxiliary Circuit 6 kV                                                                                                                                                                                          |
| Rated Operational Current DC-13           | (110 V) 0.7 A<br>(220 / 240 V) 0.4 A<br>(24 V) 2.5 A                                                                                                                                                            |
| Connecting Capacity Control Circuit       | Flexible with Ferrule 1/2x 1 ... 2.5 square mm<br>Flexible with Insulated Ferrule 1/2x 1 ... 2.5 square mm<br>Flexible 1/2x 1 ... 2.5 square mm<br>Rigid 1/2x 1 ... 4 square mm                                 |
| Coil Consumption                          | Average Holding Value DC 3.5 W<br>Average Pull-in Value DC 3.5 W                                                                                                                                                |
| Degree of Protection                      | Auxiliary Circuit Terminals IP20<br>Control Circuit Terminals IP20                                                                                                                                              |
| Connecting Capacity Auxiliary Circuit     | Flexible with Ferrule 1/2x 1 ... 2.5 square millimetre<br>Flexible with Insulated Ferrule 1/2x 1 ... 2.5 square millimetre<br>Flexible 1/2x 1 ... 2.5 square millimetre<br>Rigid 1/2x 1 ... 4 square millimetre |
| Mounting on DIN Rail                      | TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715<br>TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715                                                                                                  |
| Wire Stripping Length                     | Auxiliary Circuit 9 mm                                                                                                                                                                                          |

## Classifications

|          |                            |
|----------|----------------------------|
| ETIM 4   | EC000196 - Contactor relay |
| ETIM 6.0 | EC000196 - Contactor relay |
| ETIM 7   | EC000196 - Contactor relay |
| ETIM 5.0 | EC000196 - Contactor relay |
| eClass   | 7.0 27371001               |

## Dimensions

|                            |          |
|----------------------------|----------|
| Product Net Weight         | 0.175 kg |
| Product Net Depth / Length | 46.5 mm  |
| Product Net Width          | 52.5 mm  |
| Product Net Height         | 57.5 mm  |

## Package Information

|                                |               |
|--------------------------------|---------------|
| Package Level 1 Width          | 115 mm        |
| Package Level 1 Height         | 54 mm         |
| Package Level 1 Depth / Length | 280 mm        |
| Package Level 1 EAN            | 4013614410918 |
| Package Level 1 Units          | 10 piece      |
| Package Level 1 Gross Weight   | 1.82 kg       |

## Ordering

|                        |          |
|------------------------|----------|
| Minimum Order Quantity | 1        |
| Customs Tariff Number  | 85365080 |