

## PRODUCT-DETAILS

# K6-31Z-F-84

## K6-31Z-F-84 Mini Contactor Relay 110-127V 40-450Hz



### General Information

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Extended Product Type | K6-31Z-F-84                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Product ID            | GJH1211003R8314                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| EAN                   | 4013614187803                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Catalog Description   | K6-31Z-F-84 Mini Contactor Relay 110-127V 40-450Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Long Description      | The K6-31Z-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). Further features are the silent coil, a switch position indication and the integrated possibility for rail or wall mounting. |

### Ordering

|                        |               |
|------------------------|---------------|
| EAN                    | 4013614187803 |
| Minimum Order Quantity | 1 piece       |
| Customs Tariff Number  | 85365080      |

### Dimensions

|                    |         |
|--------------------|---------|
| Product Net Width  | 52.5 mm |
| Product Net Height | 57.5 mm |

|                            |         |
|----------------------------|---------|
| Product Net Depth / Length | 46.5 mm |
| Product Net Weight         | 0.17 kg |

## Container Information

|                                |               |
|--------------------------------|---------------|
| 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   | 1.77 kg       |
| Package Level 1 EAN            | 4013614410567 |

## Environmental

|                                                |                                                    |
|------------------------------------------------|----------------------------------------------------|
| Ambient Air Temperature                        | Operation -25 ... +55 °C<br>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

|                                           |                               |
|-------------------------------------------|-------------------------------|
| 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                |
| Pilot Duty of Contact Elements acc. UL508 | A600                          |

## Additional Information

|                                                    |                                                                                              |
|----------------------------------------------------|----------------------------------------------------------------------------------------------|
| Coil Consumption                                   | Average Holding Value 50 Hz 3.5 V·A<br>Average Pull-in Value 50 Hz 3.5 V·A                   |
| Coil Operating Limits                              | (acc. to IEC 60947-5-1) for AC supply 0.85 ... 1.1 x U <sub>c</sub> (at $\theta \leq 55$ °C) |
| Conventional Free-air Thermal Current ( $I_{th}$ ) | Auxiliary Circuit 6 A                                                                        |
| Degree of Protection                               | Auxiliary Circuit Terminals IP20<br>Control Circuit Terminals IP20                           |
| Maximum Electrical Switching Frequency             | (AC-15) 600 cycles per hour<br>(DC-13) 600 cycles per hour                                   |
| Mechanical Durability                              | 10000000 cycle                                                                               |
| Mini Contactor Type                                | Mini Contactor Relay                                                                         |
| Minimum Switching Capacity                         | 17 V<br>5 mA                                                                                 |

|                                                  |                                                                                                                                                                                                                       |
|--------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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                                                                                                        |
| Mounting Position                                | Any, Position 1-6                                                                                                                                                                                                     |
| Mounting Type                                    | DIN-rail<br>Screw                                                                                                                                                                                                     |
| Number of Auxiliary<br>Contacts NC               | 1                                                                                                                                                                                                                     |
| Number of Auxiliary<br>Contacts NO               | 3                                                                                                                                                                                                                     |
| Number of Poles                                  | 4                                                                                                                                                                                                                     |
| Number of Main Contacts<br>NC                    | 0                                                                                                                                                                                                                     |
| Number of Main Contacts<br>NO                    | 0                                                                                                                                                                                                                     |
| Power Loss                                       | at Rated Operating Conditions per Pole 2 W                                                                                                                                                                            |
| Product Main Type                                | K6-F                                                                                                                                                                                                                  |
| Product Name                                     | Mini Contactor Relay                                                                                                                                                                                                  |
| Rated Control Circuit<br>Voltage ( $U_c$ )       | 110 ... 127 V AC                                                                                                                                                                                                      |
| Rated Frequency (f)                              | Auxiliary Circuit 50 Hz<br>Auxiliary Circuit 60 Hz<br>Auxiliary Circuit DC<br>Control Circuit 400 Hz<br>Control Circuit 50 Hz<br>Control Circuit 60 Hz<br>Main Circuit 60 Hz<br>Main Circuit 50 Hz<br>Main Circuit DC |
| Rated Impulse Withstand<br>Voltage ( $U_{imp}$ ) | Auxiliary Circuit 6 kV                                                                                                                                                                                                |
| Rated Insulation Voltage<br>( $U_i$ )            | 690 V<br>acc. to UL/CSA 600 V                                                                                                                                                                                         |
| Rated Operational Current<br>AC-15 ( $I_e$ )     | (24 V) 4 A<br>(120 V) 4 A<br>(240 V) 4 A<br>(500 V) 2 A<br>(220 / 240 V) 4 A<br>(380 / 400 V) 3 A                                                                                                                     |
| Rated Operational Current<br>DC-13 ( $I_e$ )     | (24 V) 2.5 A<br>(110 V) 0.7 A<br>(220 / 240 V) 0.4 A                                                                                                                                                                  |
| Rated Operational Voltage                        | Auxiliary Circuit 690 V AC<br>Auxiliary Circuit 250 V DC                                                                                                                                                              |
| RoHS Date                                        | 0056                                                                                                                                                                                                                  |
| 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                                                                                                                                  |
| Terminal Type                                    | Flat-Pin Connections                                                                                                                                                                                                  |

## Certificates and Declarations (Document Number)

|                   |                     |
|-------------------|---------------------|
| CB Certificate    | 1SAA938001-2001     |
| CQC Certificate   | CQC2003010304064035 |
| cULus Certificate | cUL_E48139          |
| cUR Certificate   | 1SAA938000-1901     |

|                                   |                  |
|-----------------------------------|------------------|
| Data Sheet, Technical Information | 1SBC100214C0201  |
| Declaration of Conformity - CCC   | 2020980304001309 |
| Declaration of Conformity - CE    | 1SAD938516-0001  |
| EAC Certificate                   | 1SAA938001-2701  |
| Environmental Information         | 1SAC200069H0009  |
| Instructions and Manuals          | 2CDC102047M6801  |
| RMRS Certificate                  | 1SAA938001-0704  |
| RoHS Information                  | 1SAD938516-0001  |
| UL Certificate                    | UL_E48139        |
| UR Certificate                    | 1SAA938000-1801  |
| Dimension Diagram                 | GJL1200437F0001  |

Classifications

|                            |                                                            |
|----------------------------|------------------------------------------------------------|
| 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                     | V11.0 : 27371001                                           |

Categories

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

