

## PRODUCT-DETAILS

# K6S-22Z-1.7-71

## K6S-22Z-1.7-71 Mini Contactor Relay 24VDC, 1.7W



### General Information

|                       |                                                 |
|-----------------------|-------------------------------------------------|
| Extended Product Type | K6S-22Z-1.7-71                                  |
| Product ID            | GJH1213001R7221                                 |
| EAN                   | 4013614231858                                   |
| Catalog Description   | K6S-22Z-1.7-71 Mini Contactor Relay 24VDC, 1.7W |

|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Long Description | <p>The K6S-22Z 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). Due to the low coil consumption, this device can be directly controlled by a PLC. Further features are the noiseless and hum-free coil, the integrated protective circuit with diodes and additional overvoltage protection, a switch position indication and the integrated possibility for rail or wall mounting.</p> |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Ordering

|                        |               |
|------------------------|---------------|
| EAN                    | 4013614231858 |
| 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 /<br>Length | 46.5 mm  |
| Product Net Weight            | 0.175 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 /<br>Length | 280 mm        |
| Package Level 1 Gross<br>Weight   | 1.82 kg       |
| Package Level 1 EAN               | 4013614411199 |

## Environmental

|                                                   |                                                    |
|---------------------------------------------------|----------------------------------------------------|
| Ambient Air Temperature                           | Operation -25 ... +55 °C<br>Storage -40 ... +80 °C |
| Maximum Operating<br>Altitude Permissible         | 2000 m                                             |
| Resistance to Vibrations<br>acc. to IEC 60068-2-6 | 3g / 3 ... 150 Hz                                  |
| Resistance to Shock acc.<br>to IEC 60068-2-27     | 11 ms Pulse 15g                                    |
| RoHS Status                                       | Following EU Directive 2011/65/EU                  |

## Technical UL/CSA

|                                                 |                                                      |
|-------------------------------------------------|------------------------------------------------------|
| Maximum Operating<br>Voltage UL/CSA             | Auxiliary Circuit 600 V AC/DC                        |
| Contact Rating UL/CSA                           | A600                                                 |
| General Use Rating<br>UL/CSA                    | (600 V AC) 5 A                                       |
| Connecting Capacity<br>Auxiliary Circuit UL/CSA | Stranded 1/2x 22-10 AWG                              |
| Tightening Torque<br>UL/CSA                     | Auxiliary Circuit 7 in-lb<br>Control Circuit 7 in-lb |
| Pilot Duty of Contact<br>Elements acc. UL508    | A600                                                 |

## Additional Information

|                                          |                                                                                                                                                                                                                                  |
|------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Coil Consumption                         | Average Holding Value 50 Hz 35 V·A<br>Average Pull-in Value 50 Hz 35 V·A                                                                                                                                                         |
| Coil Operating Limits                    | (acc. to IEC 60947-4-1) for DC supply $U_c \text{ Min.} \dots U_c \text{ Max.}$ (at $\theta \leq 55^\circ \text{C}$ )<br>(acc. to IEC 60947-5-1) for DC supply $0.85 \dots 1.1 \times U_c$ (at $\theta \leq 55^\circ \text{C}$ ) |
| Connecting Capacity<br>Auxiliary Circuit | Flexible with Ferrule 1/2x 1 ... 2.5 mm <sup>2</sup><br>Flexible with Insulated Ferrule 1/2x 1 ... 2.5 mm <sup>2</sup><br>Flexible 1/2x 1 ... 2.5 mm <sup>2</sup><br>Rigid 1/2x 1 ... 4 mm <sup>2</sup>                          |
| Connecting Capacity                      | Flexible with Ferrule 1/2x 1 ... 2.5 mm <sup>2</sup>                                                                                                                                                                             |

|                                                    |                                                                                                                                                                 |
|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Control Circuit                                    | Flexible with Insulated Ferrule 1/2x 1 ... 2.5 mm <sup>2</sup><br>Flexible 1/2x 1 ... 2.5 mm <sup>2</sup><br>Rigid 1/2x 1 ... 4 mm <sup>2</sup>                 |
| Conventional Free-air Thermal Current ( $I_{th}$ ) | Auxiliary Circuit 6 A                                                                                                                                           |
| Degree of Protection                               | Auxiliary Circuit Terminals IP20<br>Control Circuit Terminals IP20<br>Main 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                                | Interface 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 Contacts NC                    | 2                                                                                                                                                               |
| Number of Auxiliary Contacts NO                    | 2                                                                                                                                                               |
| 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                                  | K6S                                                                                                                                                             |
| Product Name                                       | Mini Contactor Relay                                                                                                                                            |
| Rated Control Circuit Voltage ( $U_c$ )            | 24 V DC                                                                                                                                                         |
| Rated Frequency (f)                                | 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 50 Hz<br>Main Circuit DC |
| Rated Impulse Withstand Voltage ( $U_{imp}$ )      | Auxiliary Circuit 6 kV                                                                                                                                          |
| Rated Insulation Voltage ( $U_i$ )                 | 690 V<br>acc. to UL/CSA 600 V                                                                                                                                   |
| Rated Operational Current AC-15 ( $I_{\theta}$ )   | (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 DC-13 ( $I_{\theta}$ )   | (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                                                                                                        |
| Remarks                                            | No CA6 or CAF6 mountable                                                                                                                                        |
| 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         | Screw Terminals                                                                      |
| Tightening Torque     | Auxiliary Circuit 0.8 ... 1.1 N·m<br>Control Circuit 0.8 ... 1.1 N·m                 |
| Wire Stripping Length | Auxiliary Circuit 9 mm                                                               |

## Certificates and Declarations (Document Number)

|                                   |                 |
|-----------------------------------|-----------------|
| CB Certificate                    | 1SAA938001-2001 |
| Data Sheet, Technical Information | 1SBC100214C0201 |
| 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 |
| Dimension Diagram                 | GJL1200436F0001 |

## 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

