



Representative Image

Alternate Catalog No. K6S-31Z-2.8 Catalog No. GJH1213001R7312

Description: K6S-31Z-2.8-72 Mini Contactor Relay 17-32VDC, 2.8W

UPC No 4013614185403

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The K6S-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). 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.

Descriptors

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| Category | AF Contactors |
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Specifications

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| 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 | 17 ... 32 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 Auxiliary Circuit 12 ... 500 V AC / DC Auxiliary Circuit 690 V |
| Number of Auxiliary Contacts NC | 1 |
| Tightening Torque UL/CSA | Auxiliary Circuit 7 in-lb (pound inch) Control Circuit 7 in-lb (pound inch) |
| Maximum Operating Altitude Permissible | 2000 m |
| Standards | IEC/EN 60947-1 IEC/EN 60947-4-1 IEC/EN 60947-5-1 UL 60947-1 UL 60947-4-1 |
| Conventional Free-air Thermal Current | Auxiliary Circuit 6 A (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 AC-15 | |

Specifications

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| Rated Frequency | Auxiliary Circuit 50 Hz Auxiliary Circuit 60 Hz Auxiliary Circuit DC Control Circuit DC Main Circuit 60 Hz Main Circuit 50Hz Main Circuit DC |
| Maximum Electrical Switching Frequency | AC-15 600 cycles per hour DC-13 600 cycles per hour |
| Short-Circuit Protective Devices | gG Type Fuses 6 A |
| Rated Insulation Voltage | 690 V acc. to UL/CSA 600 V |
| Mechanical Durability | 10000000 cycle |
| Coil Operating Limits | (acc. to IEC 60947-4-1) for DC supply U_c Min. ... U_c Max. (at $\theta \leq 55$ °C) (acc. to IEC 60947-5-1) for DC supply 0.85 ... 1.1 x U_c (at $\theta \leq 55$ °C) |
| Secondary Rated Impulse Withstand Voltage | Auxiliary Circuit 6 kV |
| Rated Operational Current DC-13 | (110 V) 0.7 A (220 / 240 V) 0.4 A (24 V) 2.5 A |
| Connecting Capacity Control Circuit | Flexible with Ferrule 1/2x 1 ... 2.5 square mm Flexible with Insulated Ferrule 1/2x 1 ... 2.5 square mm Flexible 1/2x 1 ... 2.5 square mm Rigid 1/2x 1 ... 4 square mm |
| Coil Consumption | Average Holding Value 50 Hz 2.8 V - A Average Pull-in Value 50 Hz 2.8 V - A |
| Degree of Protection | Auxiliary Circuit Terminals IP20 Control Circuit Terminals IP20 Main Circuit Terminals IP20 |
| Connecting Capacity Auxiliary Circuit | Flexible with Ferrule 1/2x 1 ... 2.5 square millimetre Flexible with Insulated Ferrule 1/2x 1 ... 2.5 square millimetre Flexible 1/2x 1 ... 2.5 square millimetre 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 TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715 |
| Wire Stripping Length | Auxiliary Circuit 9 mm |

Classifications

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| 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

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| 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

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| Package Level 1 Width | 115 mm |
| Package Level 1 Height | 54 mm |
| Package Level 1 Depth / Length | 280 mm |
| Package Level 1 EAN | 4013614411229 |
| Package Level 1 Units | 10 piece |

Package Information

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| Package Level 1 Gross Weight | 1.82 kg |
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Ordering

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