



PRODUCT-DETAILS

K6-31Z-80

K6-31Z-80 Mini Contactor Relay 220 ... 240 V
AC - 0 NO - 0 NC - Screw Terminals



| General Information | |
|------------------------|--|
| Extended Product Type | K6-31Z-80 |
| Product ID | GJH1211001R8310 |
| EAN | 4013614153280 |
| Catalog Description | K6-31Z-80 Mini Contactor Relay 220 ... 240 V AC - 0 NO - 0 NC - Screw Terminals |
| Long Description | The K6-31Z 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 buldings, 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 | |
| Minimum Order Quantity | 1 piece |
| Customs Tariff Number | 85365080 |
| Popular Downloads | |

| | |
|-----------------------------------|-----------------|
| Data Sheet, Technical Information | 1SBC100214C0202 |
| Instructions and Manuals | 2CDC102047M6801 |
| CAD Dimensional Drawing | 2CDC001079B0201 |
| Dimension Diagram | GJL1200436F0001 |

Dimensions

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

Technical

| | |
|--|---|
| 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 400 Hz Control Circuit 50 Hz Control Circuit 60 Hz 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_e) | (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_e) | (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 AC supply 0.85 ... 1.1 x U _c (at $\theta \leq 55^\circ\text{C}$) |
| Rated Control Circuit Voltage (U _c) | 220 ... 240 V AC |
| Coil Consumption | Average Holding Value 50 Hz 3.5 V·A Average Pull-in Value 50 Hz 3.5 V·A |
| 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 |
| Connecting Capacity Auxiliary Circuit | Flexible with Ferrule 1/2x 1 ... 2.5 mm ² Flexible with Insulated Ferrule 1/2x 1 ... 2.5 mm ² Flexible 1/2x 1 ... 2.5 mm ² Rigid 1/2x 1 ... 4 mm ² |
| Connecting Capacity Control Circuit | Flexible with Ferrule 1/2x 1 ... 2.5 mm ² Flexible with Insulated Ferrule 1/2x 1 ... 2.5 mm ² Flexible 1/2x 1 ... 2.5 mm ² Rigid 1/2x 1 ... 4 mm ² |
| Wire Stripping Length | Auxiliary Circuit 9 mm |
| Degree of Protection | Auxiliary Circuit Terminals IP20 Control Circuit Terminals IP20 |
| Recommended Screw Driver | M3 Pozidriv 1 |
| Tightening Torque | Auxiliary Circuit 0.8 ... 1.1 N·m Control Circuit 0.8 ... 1.1 N·m Main Circuit 0.8 ... 1.1 N·m |
| Terminal Type | Screw Terminals |
| Mini Contactor Type | Mini Contactor Relay |
| Product Name | Mini Contactor Relay |

Technical UL/CSA

| | |
|--|--|
| Maximum Operating Voltage UL/CSA | 600 V AC |
| General Use Rating UL/CSA | (600 V AC) 5 A |
| Connecting Capacity Auxiliary Circuit UL/CSA | Stranded 1/2x 22-10 AWG |
| Contact Rating UL/CSA | A600 |
| Tightening Torque UL/CSA | Auxiliary Circuit 7 in·lb Control Circuit 7 in·lb |

Environmental

| | |
|--|--|
| 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

| | |
|-------------------|-----------------|
| Conflict Minerals | 9AKK108467A5658 |
|-------------------|-----------------|

| | |
|-------------------------------------|--|
| Reporting Template (CMRT) | |
| 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

| | |
|---|-----------------|
| End Of Life Disassembling Instructions | 1SBC100156C0269 |
| Environmental Product Declaration - EPD | 1SAC200409H0001 |

Certificates and Declarations

| | |
|----------------------------------|---------------------|
| A2L Certificate – IEC | 1SAA938000-4601 |
| CB Certificate | 1SAA938001-2001 |
| CQC Certificate | CQC2003010304064035 |
| Declaration of Conformity - CCC | 2020980304001309 |
| Declaration of Conformity - CE | 1SAD101100-3101 |
| Declaration of Conformity - UKCA | 1SAD201100-3101 |
| EAC Certificate | 1SAA938001-2701 |
| RMRS Certificate | 1SAA938001-0704 |
| UL Certificate | E48139-19881214 |

Container Information

| | |
|--------------------------------|---------------|
| 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 | 1.82 kg |
| Package Level 1 EAN | 4013614410345 |

External Classifications and Standards

| | |
|------------------------------------|--|
| 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) | 4761 >> Magnet contactor, AC-switching |

| | |
|--------------------|---------|
| E-Number (Finland) | 3709127 |
| E-Number (Norway) | 4190502 |

Categories

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

