

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

## General Information

<b>Extended Product Type:</b>	K6-31Z-F-02
<b>Product ID:</b>	GJH1211003R0312
<b>EAN:</b>	4013614231346
<b>Catalog Description:</b>	K6-31Z-F-02 Mini Contactor Relay 42V 40-450Hz
<b>Long Description:</b>	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

<b>Minimum Order Quantity:</b>	1 piece
<b>Customs Tariff Number:</b>	85365080

## Popular Downloads

<b>Data Sheet, Technical Information:</b>	1SBC100173C0201
<b>Instructions and Manuals:</b>	2CDC102047M6801
<b>Dimension Diagram:</b>	GJL1200437F0001

## Dimensions

<b>Product Net Width:</b>	52.5 mm
<b>Product Net Height:</b>	57.5 mm
<b>Product Net Depth:</b>	46.5 mm
<b>Product Net Weight:</b>	0.17 kg

## Technical

<b>Number of Poles:</b>	4
<b>Mini Contactor Type:</b>	Mini Contactor Relay
<b>Rated Operational Voltage:</b>	Auxiliary Circuit 12 ... 240 V DC Auxiliary Circuit 12 ... 500 V AC/DC Auxiliary Circuit 690 V

<b>Rated Frequency (f):</b>	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
<b>Rated Impulse Withstand Voltage (U<sub>imp</sub>):</b>	Auxiliary Circuit 6 kV
<b>Rated Insulation Voltage (U<sub>i</sub>):</b>	690 V acc. to UL/CSA 600 V
<b>Number of Main Contacts NC:</b>	0
<b>Number of Main Contacts NO:</b>	0
<b>Number of Auxiliary Contacts NC:</b>	1
<b>Number of Auxiliary Contacts NO:</b>	3
<b>Rated Operational Current AC-15 (I<sub>e</sub>):</b>	(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
<b>Rated Operational Current DC-13 (I<sub>e</sub>):</b>	(110 V) 0.7 A (220 / 240 V) 0.4 A (24 V) 2.5 A
<b>Conventional Free-air Thermal Current (I<sub>th</sub>):</b>	Auxiliary Circuit 6 A
<b>Rated Control Circuit Voltage (U<sub>c</sub>):</b>	42 V AC
<b>Coil Operating Limits:</b>	(acc. to IEC 60947-5-1) for AC supply 0.85 ... 1.1 x U <sub>c</sub> (at θ ≤ 55 °C)
<b>Degree of Protection:</b>	Auxiliary Circuit Terminals IP20 Control Circuit Terminals IP20
<b>Mechanical Durability:</b>	10000000 cycle
<b>Minimum Switching Capacity:</b>	17 V 5 mA
<b>Maximum Electrical Switching Frequency:</b>	AC-15 600 cycles per hour DC-13 600 cycles per hour
<b>Mounting on DIN Rail:</b>	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
<b>Power Loss:</b>	at Rated Operating Conditions per Pole 2 W

<b>Standards:</b>	IEC/EN 60947-1 IEC/EN 60947-4-1 IEC/EN 60947-5-1 UL 60947-1 UL 60947-4-1
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## Environmental

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

## Technical UL/CSA

<b>Maximum Operating Voltage UL/CSA:</b>	Auxiliary Circuit 600 V AC/DC
<b>General Use Rating UL/CSA:</b>	(600 V AC) 5 A
<b>Contact Rating UL/CSA:</b>	A600

## Certificates and Declarations (Document Number)

<b>CB Certificate:</b>	1SAA938001-2001
<b>CCC Certificate:</b>	1SAA938000-3804
<b>cUL Certificate:</b>	cUL_E48139
<b>cUR Certificate:</b>	1SAA938000-1901
<b>Declaration of Conformity - CE:</b>	1SAD938512-0001
<b>EAC Certificate:</b>	1SAA938001-2701
<b>Environmental Information:</b>	1SAA938002-2401
<b>Instructions and Manuals:</b>	2CDC102047M6801
<b>RMRS Certificate:</b>	1SAA938001-0704
<b>RoHS Information:</b>	1SAD938512-0001
<b>UL Certificate:</b>	UL_E48139
<b>UR Certificate:</b>	1SAA938000-1801

## Container Information

<b>Package Level 1 Units:</b>	10 piece
<b>Package Level 1 Width:</b>	115 mm
<b>Package Level 1 Height:</b>	54 mm

Package Level 1 Length:	280 mm
Package Level 1 Gross Weight:	1.77 kg
Package Level 1 EAN:	4013614410475

## Classifications

Object Classification Code:	K
ETIM 4:	EC000196 - Contactor relay
ETIM 5:	EC000196 - Contactor relay
ETIM 6:	EC000196 - Contactor relay
ETIM 7:	EC000196 - Contactor relay
eClass:	7.0 27371001
UNSPSC:	39121500

