

# KC6-31Z-2.4-51



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

## General Information

<b>Extended Product Type:</b>	KC6-31Z-2.4-51
<b>Product ID:</b>	GJH1213001R5311
<b>EAN:</b>	4013614049941
<b>Catalog Description:</b>	KC6-31Z-2.4-51 Mini Contactor Relay 17-32VDC, 2.4W
<b>Long Description:</b>	The KC6-31Z 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 and a switch position indication.

## 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>	GJL1200436F0001

## 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>	0.175 kg

## Technical

<b>Number of Poles:</b>	4
<b>Mini Contactor Type:</b>	Interface 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 DC 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>	17 ... 32 V DC
<b>Coil Operating Limits:</b>	(acc. to IEC 60947-4-1) for DC supply U <sub>c</sub> Min. ... U <sub>c</sub> Max. (at θ ≤ 55 °C) (acc. to IEC 60947-5-1) for DC 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 Main 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>Connecting Capacity Auxiliary Circuit:</b>	Flexible with Ferrule 1/2x 1 ... 2.5 mm <sup>2</sup> Flexible with Insulated Ferrule 1/2x 1 ... 2.5 mm <sup>2</sup> Flexible 1/2x 1 ... 2.5 mm <sup>2</sup> Rigid 1/2x 1 ... 4 mm <sup>2</sup>

<b>Connecting Capacity Control Circuit:</b>	Flexible with Ferrule 1/2x 1 ... 2.5 mm <sup>2</sup> Flexible with Insulated Ferrule 1/2x 1 ... 2.5 mm <sup>2</sup> Flexible 1/2x 1 ... 2.5 mm <sup>2</sup> Rigid 1/2x 1 ... 4 mm <sup>2</sup>
<b>Wire Stripping Length:</b>	Auxiliary Circuit 9 mm
<b>Tightening Torque:</b>	Auxiliary Circuit 0.8 ... 1.1 N·m Control Circuit 0.8 ... 1.1 N·m
<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
<b>Remarks:</b>	No CA6 or CAF6 mountable

## 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
<b>Connecting Capacity Auxiliary Circuit UL/CSA:</b>	Stranded 1/2x 22-10 AWG
<b>Tightening Torque UL/CSA:</b>	Auxiliary Circuit 7 in·lb Control Circuit 7 in·lb

## Certificates and Declarations (Document Number)

<b>CB Certificate:</b>	1SAA938001-2001
<b>CCC Certificate:</b>	1SAA938000-3804
<b>cUL Certificate:</b>	1SAA938002-1701
<b>Declaration of Conformity - CE:</b>	1SAD938512-0001

<b>EAC Certificate:</b>	1SAA938001-2701
<b>Instructions and Manuals:</b>	2CDC102047M6801
<b>RMRS Certificate:</b>	1SAA938001-0704
<b>RoHS Information:</b>	1SAD938512-0001
<b>UL Certificate:</b>	1SAA938002-1601

## 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
<b>Package Level 1 Length:</b>	280 mm
<b>Package Level 1 Gross Weight:</b>	1.82 kg
<b>Package Level 1 EAN:</b>	4013614411175

## Classifications

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

