

# KC6-31Z-01

ABB contact for Canada [Print to Pdf..](#)

## General Information

<b>Extended Product Type:</b>	KC6-31Z-01
<b>Product ID:</b>	GJH1213001R0311
<b>EAN:</b>	4013614049705
<b>Catalog Description:</b>	KC6-31Z-01 Mini Contactor Relay
<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). Further features are the noiseless and hum-free coil and a switch position indication.



## Categories

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

## Ordering

<b>EAN:</b>	4013614049705
<b>Minimum Order Quantity:</b>	1 piece
<b>Customs Tariff Number:</b>	85365080

## 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

## Container Information

<b>Package Level 1 Units:</b>	10 piece
<b>Package Level 1 Width:</b>	115.0 mm
<b>Package Level 1 Height:</b>	54.0 mm
<b>Package Level 1 Length:</b>	280.0 mm
<b>Package Level 1 Gross Weight:</b>	1.820 kg
<b>Package Level 1 EAN:</b>	4013614410918

## 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
<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 (<math>U_{imp}</math>):</b>	Auxiliary Circuit 6 kV
<b>Rated Insulation Voltage (<math>U_i</math>):</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 (<math>I_e</math>):</b>	(120V) 4.000 A (220 / 240V) 4 A (240V) 4.000 A (24V) 4.000 A (380 / 400V) 3.000 A (500V) 2.000 A
<b>Rated Operational Current DC-13 (<math>I_e</math>):</b>	(110V) 0.700 A (220 / 240V) 0.400 A (24V) 2.500 A
<b>Conventional Free-air Thermal Current (<math>I_{th}</math>):</b>	Auxiliary Circuit 6.000 A
<b>Rated Control Circuit Voltage (<math>U_c</math>):</b>	24 V DC
<b>Coil Operating Limits:</b>	(acc. to IEC 60947-5-1) for DC supply 0.85 ... 1.1 x $U_c$ (at $\theta \leq 55$ °C)
<b>Degree of Protection:</b>	Auxiliary Circuit Terminals IP20 Control Circuit Terminals IP20
<b>Mechanical Durability:</b>	10000000 cycle
<b>Minimum switching capacity [V/mA]:</b>	>17 VLT>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>	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

## 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 acc. to IEC  
60068-2-6:** 3g / 3 ... 150 Hz

**RoHS Status:** Following EU Directive 2002/95/EC August 18, 2005 and amendment

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## Technical UL/CSA

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**Maximum Operating Voltage  
UL/CSA:** Auxiliary Circuit 600 V AC/DC

**Connecting Capacity-Auxiliary  
Circuit UL/CSA:** Stranded 1/2x 22 ... 10 AWG

**Tightening Torque UL/CSA:** Auxiliary Circuit 7 in·lb  
Control Circuit 7 in·lb

**Contact Rating UL/CSA:** A600

**General Use Rating UL/CSA:** 600V AC 5.00 A

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## Certificates and Declarations (Document Number)

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**CB Certificate:** 1SAA938001-2001

**CCC Certificate:** 1SAA938000-3803

**cUL Certificate:** 1SAA938002-1701

**Declaration of Conformity - CE:** 1SAD938510-0001

**EAC Certificate:** 1SAA938001-2701

**RMRS Certificate:** 1SAA938001-0703

**RoHS Information:** 1SAA938002-4402

**UL Certificate:** 1SAA938002-1601

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## Classifications

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**Object Classification Code:** K

**ETIM 4.0:** EC000196 - Contactor relay

**ETIM 5.0:** EC000196 - Contactor relay

**UNSPSC:** 39121500

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