

# K6-31E-01



## General Information

<b>Extended Product Type:</b>	K6-31E-01
<b>Product ID:</b>	GJH1211051R0311
<b>EAN:</b>	4013614049620
<b>Catalog Description:</b>	K6-31E-01 Mini Contactor Relay
<b>Long Description:</b>	The K6-31E 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.

## Categories

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

## Ordering

<b>EAN:</b>	4013614049620
<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>	4013614410826

## 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 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 (<math>I_{\theta}</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_{\theta}</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 AC
<b>Coil Operating Limits:</b>	(acc. to IEC 60947-5-1) for AC 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>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 2002/95/EC August 18, 2005 and amendment

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## Technical UL/CSA

<b>Maximum Operating Voltage UL/CSA:</b>	Auxiliary Circuit 600 V AC/DC
<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
<b>Contact Rating UL/CSA:</b>	A600
<b>General Use Rating UL/CSA:</b>	600V AC 5.00 A

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### **Certificates and Declarations (Document Number)**

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<b>CB Certificate:</b>	1SAA938001-2001
<b>CCC Certificate:</b>	1SAA938000-3803
<b>cUL Certificate:</b>	cUL_E48139
<b>Declaration of Conformity - CE:</b>	1SAD938509-0001
<b>EAC Certificate:</b>	1SAA938001-2701
<b>RMRS Certificate:</b>	1SAA938001-0703
<b>RoHS Information:</b>	1SAA938002-4402
<b>UL Certificate:</b>	UL_E48139

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### **Classifications**

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<b>Object Classification Code:</b>	K
<b>ETIM 4.0:</b>	EC000196 - Contactor relay
<b>ETIM 5.0:</b>	EC000196 - Contactor relay
<b>UNSPSC:</b>	39121500

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