

## General Information

Extended Product Type:	K6-31Z-P-80
Product ID:	GJH1211009R8310
EAN:	4013614153334
Catalog Description:	K6-31Z-P-80 Mini Contactor Relay 220-240V 40-450Hz
Long Description:	The K6-31Z-P mini contactor relay is a compact 4 pole contactor relay with soldering pins. 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 mounting.

## Categories

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

## Ordering

EAN:	4013614153334
Minimum Order Quantity:	1 piece
Customs Tariff Number:	85365080

## Dimensions

Product Net Width:	47.5 mm
Product Net Height:	45.5 mm
Product Net Depth:	51.5 mm
Product Net Weight:	0.17 kg

## Container Information

Package Level 1 Units:	10 piece
Package Level 1 Width:	108 mm
Package Level 1 Height:	69 mm
Package Level 1 Length:	247 mm
Package Level 1 Gross Weight:	1.775 kg
Package Level 1 EAN:	4013614410741

## Technical

Number of Poles:	4
Mini Contactor Type:	Mini Contactor Relay
Rated Operational Voltage:	Auxiliary Circuit 12 ... 240 V DC Auxiliary Circuit 12 ... 500 V AC/DC Auxiliary Circuit 690 V
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
Rated Impulse Withstand Voltage (U <sub>imp</sub> ):	Auxiliary Circuit 6 kV
Rated Insulation Voltage (U <sub>i</sub> ):	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>	(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 (<math>I_{\theta}</math>):</b>	(110 V) 0.7 A (220 / 240 V) 0.4 A (24 V) 2.5 A
<b>Conventional Free-air Thermal Current (<math>I_{th}</math>):</b>	Auxiliary Circuit 6 A
<b>Rated Control Circuit Voltage (<math>U_c</math>):</b>	220 ... 240 V AC
<b>Coil Operating Limits:</b>	(acc. to IEC 60947-5-1) for AC supply 0.85 ... 1.1 x $U_c$ (at $\theta \leq 55^\circ\text{C}$ )
<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

## 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

## 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>	1SAA938000-3803
<b>cUL Certificate:</b>	cUL_E48139
<b>cUR Certificate:</b>	1SAA938000-1901
<b>Declaration of Conformity - CE:</b>	1SAD938509-0001

EAC Certificate:	1SAA938001-2701
RMRS Certificate:	1SAA938001-0703
RoHS Information:	1SAA938002-4402
UL Certificate:	UL_E48139
UR Certificate:	1SAA938000-1801

### Classifications

Object Classification Code:	K
eClass:	7.0 27371001
ETIM 4.0:	EC000196 - Contactor relay
ETIM 5.0:	EC000196 - Contactor relay
UNSPSC:	39121500

