

K6-31Z-01



General Information

Extended Product Type:	K6-31Z-01
Product ID:	GJH1211001R0311
EAN:	4013614048999
Catalog Description:	K6-31Z-01 Mini Contactor Relay
Long Description:	The K6-31Z 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 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

EAN:	4013614048999
Minimum Order Quantity:	1 piece
Customs Tariff Number:	85365080

Dimensions

Product Net Width:	52.5 mm
Product Net Height:	57.5 mm
Product Net Depth:	46.5 mm
Product Net Weight:	0.175 kg

Container Information

Package Level 1 Units:	10 piece
Package Level 1 Width:	115.0 mm
Package Level 1 Height:	54.0 mm
Package Level 1 Length:	280.0 mm
Package Level 1 Gross Weight:	1.820 kg
Package Level 1 EAN:	4013614410147

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
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_{imp}):	Auxiliary Circuit 6 kV
Rated Insulation Voltage (U_i):	690 V

	acc. to UL/CSA 600 V
Number of Main Contacts NC:	0
Number of Main Contacts NO:	0
Number of Auxiliary Contacts NC:	1
Number of Auxiliary Contacts NO:	3
Rated Operational Current AC-15 (I_{θ}):	(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
Rated Operational Current DC-13 (I_{θ}):	(110V) 0.700 A (220 / 240V) 0.400 A (24V) 2.500 A
Conventional Free-air Thermal Current (I_{th}):	Auxiliary Circuit 6.000 A
Rated Control Circuit Voltage (U_c):	24 V AC
Coil Operating Limits:	(acc. to IEC 60947-5-1) for AC supply 0.85 ... 1.1 x U_c (at $\theta \leq 55^\circ\text{C}$)
Degree of Protection:	Auxiliary Circuit Terminals IP20 Control Circuit Terminals IP20
Mechanical Durability:	10000000 cycle
Minimum switching capacity [V/mA]:	>17 VLT>5 mA
Maximum Electrical Switching Frequency:	AC-15 600 cycles per hour DC-13 600 cycles per hour
Connecting Capacity-Auxiliary Circuit:	Flexible with Ferrule 1/2x 1 ... 2.5 mm ² Flexible with Insulated Ferrule 1/2x 1 ... 2.5 mm ² Flexible 1/2x 1 ... 2.5 mm ² Rigid 1/2x 1 ... 4 mm ²
Connecting Capacity-Control Circuit:	Flexible with Ferrule 1/2x 1 ... 2.5 mm ² Flexible with Insulated Ferrule 1/2x 1 ... 2.5 mm ² Flexible 1/2x 1 ... 2.5 mm ² Rigid 1/2x 1 ... 4 mm ²
Wire Stripping Length:	Auxiliary Circuit 9 mm
Tightening Torque:	Auxiliary Circuit 0.8 ... 1.1 N·m Control Circuit 0.8 ... 1.1 N·m
Mounting on DIN Rail:	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
Power Loss:	Per Pole 2 W
Standards:	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

Technical UL/CSA

Maximum Operating Voltage UL/CSA:	Auxiliary Circuit 600 V AC/DC
Connecting Capacity-Auxiliary	Stranded 1/2x 22 ... 10 AWG

Circuit UL/CSA:	
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

Certificates and Declarations (Document Number)

CB Certificate:	1SAA938001-2001
CCC Certificate:	1SAA938000-3803
cUL Certificate:	cUL_E48139
Declaration of Conformity - CE:	1SAD938510-0001
EAC Certificate:	1SAA938001-2701
RMRS Certificate:	1SAA938001-0703
RoHS Information:	1SAA938002-4402
UL Certificate:	UL_E48139

Classifications

Object Classification Code:	K
E-nummer:	3210110
ETIM 4.0:	EC000196 - Contactor relay
ETIM 5.0:	EC000196 - Contactor relay
UNSPSC:	39121500