



## Alternate Catalog No. KC6-31Z-F02

### Catalog No. GJH1213003R0312

**Description:** KC6-31Z-F-02 Mini Contactor Relay 42VDC

**UPC No** 4013614231445

**Home > Contactors & Starters > UL Listed IEC Contactors > AF Contactors**

The KC6-31Z-F mini contactor relay is a compact 4 pole contactor relay with flat pin connection. 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.

#### Descriptors

Category	AF Contactors
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#### Specifications

Product Type	Mini Contactors (B6, B7)
General Use Rating UL/CSA	(600 V AC) 5 A
Object Classification Code	K
Terminal Type	Flat-Pin Connections
Rated Control Circuit Voltage	42 V DC
Number of Main Contacts NO	0
Number of Main Contacts NC	0
Maximum Operating Voltage UL/CSA	Auxiliary Circuit 600 V AC / DC
Resistance to Vibrations acc. to IEC 60068-2-6	3g / 3 ... 150 Hz
Number of Auxiliary Contacts NO	3
RoHS Status	Following EU Directive 2011/65/EU
Reference Ambient Air Temperature	Operation -25 ... +55 °C
Rated Operational Voltage	Auxiliary Circuit 12 ... 240 V DC Auxiliary Circuit 12 ... 500 V AC / DC Auxiliary Circuit 690 V
Number of Auxiliary Contacts NC	1
Maximum Operating Altitude Permissible	2000 m
Standards	IEC/EN 60947-1 IEC/EN 60947-4-1 IEC/EN 60947-5-1 UL 60947-1 UL 60947-4-1
Conventional Free-air Thermal Current	Auxiliary Circuit 6 A
Rated Operational Current AC-15	(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
Rated Frequency	Auxiliary Circuit 50 Hz Auxiliary Circuit 60 Hz Auxiliary Circuit DC Control Circuit DC Main Circuit 60 Hz Main Circuit 50Hz Main Circuit DC

## Specifications

Maximum Electrical Switching Frequency	AC-15 600 cycles per hour DC-13 600 cycles per hour
Short-Circuit Protective Devices	gG Type Fuses 6 A
Rated Insulation Voltage	690 V acc. to UL/CSA 600 V
Mechanical Durability	10000000 cycle
Coil Operating Limits	(acc. to IEC 60947-5-1) for DC supply $0.85 \dots 1.1 \times U_c$ (at $\theta \leq 55^\circ \text{C}$ )
Secondary Rated Impulse Withstand Voltage	Auxiliary Circuit 6 kV
Rated Operational Current DC-13	(110 V) 0.7 A (220 / 240 V) 0.4 A (24 V) 2.5 A
Coil Consumption	Average Holding Value DC 3.5 W Average Pull-in Value DC 3.5 W
Degree of Protection	Auxiliary Circuit Terminals IP20 Control Circuit Terminals IP20
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

## Classifications

ETIM 4	EC000196 - Contactor relay
ETIM 6.0	EC000196 - Contactor relay
ETIM 7	EC000196 - Contactor relay
ETIM 5.0	EC000196 - Contactor relay
eClass	7.0 27371001

## Dimensions

Product Net Weight	0.17 kg
Product Net Depth / Length	46.5 mm
Product Net Width	52.5 mm
Product Net Height	57.5 mm

## Package Information

Package Level 1 Width	115 mm
Package Level 1 Height	54 mm
Package Level 1 Depth / Length	280 mm
Package Level 1 EAN	4013614411380
Package Level 1 Units	10 piece
Package Level 1 Gross Weight	1.77 kg

## Ordering

Minimum Order Quantity	1
Customs Tariff Number	85365080