



PRODUCT-DETAILS

# KC6-31Z-F-05

## KC6-31Z-F-05 Mini Contactor Relay 220 ... 240 V DC 3NO1NC Flat-Pin Connections



### General Information

Extended Product Type	KC6-31Z-F-05
Product ID	GJH1213003R0315
EAN	4013614231469
Catalog Description	KC6-31Z-F-05 Mini Contactor Relay 220 ... 240 V DC 3NO1NC Flat-Pin Connections
Long Description	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.

### Ordering

Minimum Order Quantity	1 piece
Customs Tariff Number	85365080

### Popular Downloads

EPLAN Data	9AAC202735_EPLAN
Data Sheet, Technical Information	1SBC100214C0202

Instructions and Manuals  
 CAD Dimensional  
 Drawing

2CDC102047M6801  
 2CDC001079B0201

## Dimensions

Product Net Width	52.5 mm
Product Net Depth / Length	46.5 mm
Product Net Height	57.5 mm
Product Net Weight	0.17 kg
Dimension Diagram	GJL1200437F0001

## Technical

Number of Main Contacts NO	0
Number of Main Contacts NC	0
Number of Auxiliary Contacts NO	3
Number of Auxiliary Contacts NC	1
Number of Poles	4P
Standards	IEC/EN 60947-1 IEC/EN 60947-4-1 IEC/EN 60947-5-1 UL 60947-1 UL 60947-4-1 IEC 60335-2-40 A2L
Rated Operational Voltage	Auxiliary Circuit 690 V AC Auxiliary Circuit 250 V DC
Rated Frequency (f)	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
Conventional Free-air Thermal Current ( $I_{th}$ )	Auxiliary Circuit 6 A
Rated Operational Current AC-15 ( $I_a$ )	(24 V) 4 A (120 V) 4 A (240 V) 4 A (400 V) 3 A (500 V) 2 A
Rated Operational Current DC-13 ( $I_a$ )	(24 V) 2.5 A (110 V) 0.7 A (220 / 240 V) 0.4 A
Short-Circuit Protective Devices	gG Type Fuses 6 A
Rated Insulation Voltage ( $U_i$ )	690 V acc. to UL/CSA 600 V
Rated Impulse Withstand Voltage ( $U_{imp}$ )	Auxiliary Circuit 6 kV
Maximum Electrical Switching Frequency	(AC-15) 600 cycles per hour (DC-13) 600 cycles per hour
Mechanical Durability	Nr. Operations 10000000 cycle
Minimum Switching Capacity	17 V 5 mA
Coil Operating Limits	(acc. to IEC 60947-5-1) for DC supply 0.85 ... 1.1 x $U_c$ (at $\theta \leq 55^\circ\text{C}$ )
Rated Control Circuit Voltage ( $U_c$ )	220 ... 240 V DC
Coil Consumption	Average Holding Value DC 3.5 W Average Pull-in Value DC 3.5 W

Power Loss	at Rated Operating Conditions per Pole 0.32 W
Mounting on DIN Rail	TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715
Degree of Protection	Auxiliary Circuit Terminals IP20 Control Circuit Terminals IP20
Terminal Type	Flat-Pin Connections
Mini Contactor Type	Mini Contactor Relay
Product Name	Mini Contactor Relay

**Technical UL/CSA**

Maximum Operating Voltage UL/CSA	600 V AC
General Use Rating UL/CSA	(600 V AC) 5 A
Contact Rating UL/CSA	A600

**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	3g 3 ... 150 Hz

**Material Compliance**

Conflict Minerals Reporting Template (CMRT)	9AKK108467A5658
REACH Declaration	2CMT2021-006202
RoHS Declaration	2CMT2021-006277
RoHS Information	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
Toxic Substances Control Act - TSCA	2CMT2023-006525
WEEE B2C / B2B	Business To Business
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)

**ABB EcoSolutions**

End Of Life Disassembling Instructions	1SBC100156C0263
Environmental Product Declaration - EPD	1SAC200409H0001

**Certificates and Declarations**

A2L Certificate - IEC	1SAA938000-4601
CB Certificate	1SAA938001-2001
CQC Certificate	CQC2003010304064035
cURus Certificate	1SAA938000-1901
Declaration of Conformity - CCC	2020980304001309
Declaration of Conformity - CE	1SAD101100-3101
Declaration of Conformity - UKCA	1SAD201100-3101

EAC Certificate	1SAA938001-2701
RMRS Certificate	1SAA938001-0704
UL Certificate	E48139-19881213
UR Certificate	1SAA938000-1801

### Container Information

Package Level 1 Units	box 10 piece
Package Level 1 Width	115 mm
Package Level 1 Depth / Length	280 mm
Package Level 1 Height	54 mm
Package Level 1 Gross Weight	1.77 kg
Package Level 1 EAN	4013614411410

### External Classifications and Standards

Object Classification Code	K
ETIM 7	EC000196 - Contactor relay
ETIM 8	EC000196 - Contactor relay
ETIM 9	EC000196 - Contactor relay
eClass	V11.0 : 27371001
UNSPSC	39121529
IDEA Granular Category Code (IGCC)	4763 >> Power contactor, DC switching

### Categories

Low Voltage Products and Systems → Control Products → Contactors → Mini Contactor Relays

