



PRODUCT-DETAILS

KC6-31Z-07

KC6-31Z-07 Mini Contactor Relay 12 V DC - 0 NO - 0 NC - Screw Terminals



General Information	
Extended Product Type	KC6-31Z-07
Product ID	GJH1213001R0317
EAN	4013614049750
Catalog Description	KC6-31Z-07 Mini Contactor Relay 12 V DC - 0 NO - 0 NC - Screw Terminals
Long Description	The KC6-31Z 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 noiseless and hum-free coil and a switch position indication.
Ordering	
Minimum Order Quantity	1 piece
Customs Tariff Number	85365080
Popular Downloads	

Data Sheet, Technical Information	1SBC100214C0202
Instructions and Manuals	2CDC102047M6801
CAD Dimensional Drawing	2CDC001079B0201
Dimension Diagram	GJL1200436F0001

## Dimensions

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

## 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 <sub>th</sub> )	Auxiliary Circuit 6 A
Rated Operational Current AC-15 (I <sub>e</sub> )	(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 <sub>e</sub> )	(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 <sub>i</sub> )	690 V acc. to UL/CSA 600 V
Rated Impulse Withstand Voltage (U <sub>imp</sub> )	Auxiliary Circuit 6 kV
Maximum Electrical Switching Frequency	(AC-15) 600 cycles per hour (DC-13) 600 cycles per hour

Mechanical Durability	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 <sub>c</sub> (at $\theta \leq 55^\circ\text{C}$ )
Rated Control Circuit Voltage (U <sub>c</sub> )	12 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
Connecting Capacity Auxiliary Circuit	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>
Connecting Capacity Control Circuit	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>
Wire Stripping Length	Auxiliary Circuit 9 mm
Degree of Protection	Auxiliary Circuit Terminals IP20 Control Circuit Terminals IP20
Recommended Screw Driver	M3 Pozidriv 1
Tightening Torque	Auxiliary Circuit 0.8 ... 1.1 N-m Control Circuit 0.8 ... 1.1 N-m Main Circuit 0.8 ... 1.1 N-m
Terminal Type	Screw Terminals
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
Connecting Capacity Auxiliary Circuit UL/CSA	Stranded 1/2x 22-10 AWG
Contact Rating UL/CSA	A600
Tightening Torque UL/CSA	Auxiliary Circuit 7 in-lb Control Circuit 7 in-lb

## 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 Information	2CMT2021-006277
RoHS Status	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	1SBC100156C0269
Environmental Product Declaration - EPD	1SAC200409H0001

## Certificates and Declarations

A2L Certificate – IEC	1SAA938000-4601
CB Certificate	1SAA938001-2001
CQC Certificate	CQC2003010304064035
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	E48139-19881214

## 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	1.82 kg
Package Level 1 EAN	4013614410963

## 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

