



PRODUCT-DETAILS

KC6-31Z-01

KC6-31Z-01 Mini Contactor Relay 24 V DC 3NO1NC Screw Terminals



General Information

Extended Product Type:	KC6-31Z-01
Product ID:	GJH1213001R0311
EAN:	4013614049705
Catalog Description:	KC6-31Z-01 Mini Contactor Relay 24 V DC 3NO1NC 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.
Display Name:	KC6-31Z-01

Ordering

Minimum Order Quantity:	1 piece
Customs Tariff Number:	85365080

Popular Downloads

EPLAN Data:	9AAC202735_EPLAN
Data Sheet, Technical Information:	1SBC100214C0202
Instructions and Manuals:	2CDC102047M6801
CAD Dimensional Drawing:	2CDC001079B0201

Dimensions

Product Net Width:	52.5 mm
Product Net Depth / Length:	46.5 mm
Product Net Height:	57.5 mm
Product Net Weight:	0.175 kg
Dimension Diagram:	GJL1200436F0001

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_e):	(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_e):	(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 θ ≤ 55 °C)
Rated Control Circuit Voltage (U_c):	24 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 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
Degree of Protection:	Auxiliary Circuit Terminals IP20 Control Circuit Terminals IP20
Recommended Screw Driver:	M3 Poqidriv 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
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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

ABB EcoSolutions:	Yes
ABB Site Meeting Group Waste To Landfill Target:	No non-hazardous waste is sent to a landfill UL 2799 Zero Waste To Landfill Validation available
EcoSolutions Profile:	1SFC100125C0354
End Of Life Disassembling Instructions:	1SBC100156C0270
Environmental Product Declaration - EPD:	1SAC200409H0001
Improved Energy Efficiency for Customers:	Product Efficiency - Product considered more energy-efficient compared to similar product on market or older products from the same line
Recyclability Rate of the Product acc. to EN45555:	Design for Closing Resource Loops - Standard EN45555 - 87.4 %

Certificates and Declarations

A2L Certificate – IEC:	1SAA938000-4601
CB Certificate:	1SAA938001-2001
CCC Certificate:	2024010303658960
Declaration of Conformity - CE:	1SAD101100-3101
Declaration of Conformity - UKCA:	1SAD201100-3101
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:	4013614410918

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
E-Number (Finland):	3709130
E-Number (Norway):	4190531

Categories

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

