



PRODUCT-DETAILS

TKC6-31Z-51

TKC6-31Z-51 Mini Contactor Relay 17 ... 32 V
DC - 0 NO - 0 NC - Screw Terminals



General Information	
Extended Product Type	TKC6-31Z-51
Product ID	GJH1213061R5311
EAN	4013614224669
Catalog Description	TKC6-31Z-51 Mini Contactor Relay 17 ... 32 V DC - 0 NO - 0 NC - Screw Terminals
Long Description	The TKC6-31Z 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	2CDC102001C0202
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	0.18 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
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
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	10000000 cycle
Minimum Switching Capacity	17 V 5 mA

Coil Operating Limits	(acc. to IEC 60947-4-1) for DC supply U_c Min. ... U_c Max. (at $\theta \leq 55^\circ\text{C}$) (acc. to IEC 60947-5-1) for DC supply U_c Min. ... U_c Max. (at $\theta \leq 55^\circ\text{C}$)
Rated Control Circuit Voltage (U_c)	17 ... 32 V DC
Coil Consumption	Average Holding Value DC 5 W Average Pull-in Value DC 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 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
Remarks	No CA6 or CAF6 mountable

Technical UL/CSA

Maximum Operating Voltage UL/CSA	Auxiliary Circuit 600 V AC/DC
General Use Rating UL/CSA	(600 V AC) 5 A

Environmental

Ambient Air Temperature	Operation -30 ... +70 °C Storage -40 ... +85 °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
Shock and Vibration Withstand acc. to IEC 61373	Category 1, Class B

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

Declaration of Conformity - CE	1SAD101100-3101
Declaration of Conformity - UKCA	1SAD201100-3101
EAC Certificate	1SAA938001-2701

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	1.87 kg
Package Level 1 EAN	4013614411922

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

