

## PRODUCT-DETAILS

# K6S-22Z-1.7-71

## K6S-22Z-1.7-71 Mini Contactor Relay 24VDC, 1.7W



### General Information

Extended Product Type	K6S-22Z-1.7-71
Product ID	GJH1213001R7221
EAN	4013614231858
Catalog Description	K6S-22Z-1.7-71 Mini Contactor Relay 24VDC, 1.7W

### Long Description

The K6S-22Z 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 buildings, commercial buildings and industrial applications for switching of control signals up to 3 A / 400 V (AC-15). Due to the low coil consumption, this device can be directly controlled by a PLC. Further features are the noiseless and hum-free coil, the integrated protective circuit with diodes and additional overvoltage protection, a switch position indication and the integrated possibility for rail or wall mounting.

### Ordering

Minimum Order Quantity	1 piece
Customs Tariff Number	85365080
Product Main Type	K6S

### Popular Downloads

Data Sheet, Technical Information	1SBC100214C0202
Instructions and Manuals	2CDC102047M6801
CAD Dimensional	2CDC001079B0201

## Drawing

## 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

Coil Consumption	Average Holding Value 50 Hz 35 V·A Average Pull-in Value 50 Hz 35 V·A
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 0.85 ... 1.1 x $U_c$ (at $\theta \leq 55^\circ\text{C}$ )
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>
Maximum Electrical Switching Frequency	(AC-15) 600 cycles per hour (DC-13) 600 cycles per hour
Mechanical Durability	10000000 cycle
Mini Contactor Type	Interface Mini Contactor Relay
Minimum Mounting Distance	Other Device Same Type, Horizontal 0 mm
Minimum Switching Capacity	17 V 5 mA
Mounting Position	1 ... 6
Mounting Type	DIN-Rail Screw
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
Number of Auxiliary Contacts NC	2
Number of Auxiliary Contacts NO	2
Number of Main Contacts NC	0
Number of Main Contacts NO	0
Number of Poles	4
Power Loss	at Rated Operating Conditions per Pole 0.32 W
Rated Control Circuit Voltage ( $U_c$ )	24 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
Rated Impulse Withstand Voltage ( $U_{imp}$ )	Auxiliary Circuit 6 kV
Rated Insulation Voltage ( $U_i$ )	690 V acc. to UL/CSA 600 V
Rated Operational Current	(24 V) 4 A

AC-15 ( $I_{\theta}$ )	(120 V) 4 A (240 V) 4 A (400 V) 3 A (500 V) 2 A
Rated Operational Current DC-13 ( $I_{\theta}$ )	(24 V) 2.5 A (110 V) 0.7 A (220 / 240 V) 0.4 A
Rated Operational Voltage	Auxiliary Circuit 690 V AC Auxiliary Circuit 250 V DC
Remarks	No CA6 or CAF6 mountable
Short-Circuit Protective Devices	gG Type Fuses 6 A
Standards	IEC/EN 60947-1 IEC/EN 60947-4-1 IEC/EN 60947-5-1 UL 60947-1 UL 60947-4-1
Terminal Type	Screw Terminals
Tightening Torque	Auxiliary Circuit 0.8 ... 1.1 N·m Control Circuit 0.8 ... 1.1 N·m
Wire Stripping Length	Auxiliary Circuit 9 mm

## Technical UL/CSA

Connecting Capacity Auxiliary Circuit UL/CSA	Stranded 1/2x 22-10 AWG
Contact Rating UL/CSA	A600
General Use Rating UL/CSA	(600 V AC) 5 A
Maximum Operating Voltage UL/CSA	600 V AC
Pilot Duty 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
Conventional Free-air Thermal Current ( $I_{th}$ )	Auxiliary Circuit 6 A
Degree of Protection	Auxiliary Circuit Terminals IP20 Control Circuit Terminals IP20 Main Circuit Terminals IP20
Maximum Operating Altitude Permissible	2000 m
Resistance to Shock acc. to IEC 60068-2-27	11 ms Pulse 15g
Resistance to Vibrations acc. to IEC 60068-2-6	3g / 3 ... 150 Hz
RoHS Information	2CMT2021-006277
WEEE B2C / B2B	Business To Business
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)

## Certificates and Declarations (Document Number)

CB Certificate	1SAA938001-2001
Declaration of Conformity - CE	1SAD938517-0001
Declaration of Conformity - UKCA	1SAD938501-1001

EAC Certificate	1SAA938001-2701
Environmental Information	1SAC200069H0009
Instructions and Manuals	2CDC102047M6801
REACH Declaration	2CMT2021-006202
RMRS Certificate	1SAA938001-0704
RoHS Information	2CMT2021-006277

Container Information

Package Level 1 Units	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	4013614411199

Classifications

eClass	V11.0 : 27371001
ETIM 6	EC000196 - Contactor relay
ETIM 7	EC000196 - Contactor relay
ETIM 8	EC000196 - Contactor relay
ETIM 9	EC000196 - Contactor relay
Object Classification Code	K
UNSPSC	39121500

Categories

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

