

Representative Image

Alternate Catalog No. K6S-31Z-2.8
Catalog No. GJH1213001R7312

Description: K6S-31Z-2.8-72 Mini Contactor Relay 17-32VDC, 2.8W

UPC No 4013614185403

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The K6S-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 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.

Descriptors

Category	AF Contactors

Specifications

Product Type	Mini Contactors (B6, B7)
General Use Rating UL/CSA	(600 V AC) 5 A
Object Classification Code	K
Terminal Type	Screw Terminals
Rated Control Circuit Voltage	17 ... 32 V DC
Number of Main Contacts NO	0
Connecting Capacity Auxiliary Circuit UL/CSA	Stranded 1/2x 22-10 american wire gauge
Number of Main Contacts NC	0
Maximum Operating Voltage UL/CSA	Auxiliary Circuit 600 V AC / DC
Resistance to Vibrations acc. to IEC 60068-2-6	3g / 3 ... 150 Hz
Number of Auxiliary Contacts NO	3
RoHS Status	Following EU Directive 2011/65/EU
Reference Ambient Air Temperature	Operation -25 ... +55 °C
Rated Operational Voltage	Auxiliary Circuit 12 ... 240 V DC Auxiliary Circuit 12 ... 500 V AC / DC Auxiliary Circuit 690 V
Number of Auxiliary Contacts NC	1
Tightening Torque UL/CSA	Auxiliary Circuit 7 in-lb (pound inch) Control Circuit 7 in-lb (pound inch)
Maximum Operating Altitude Permissible	2000 m
Standards	IEC/EN 60947-1 IEC/EN 60947-4-1 IEC/EN 60947-5-1 UL 60947-1 UL 60947-4-1
Conventional Free-air Thermal Current	Auxiliary Circuit 6 A
Rated Operational Current AC-15	(120 V) 4 A (220 / 240 V) 4 A (240 V) 4 A (24 V) 4 A (380 / 400 V) 3 A (500 V) 2 A

by ABB

Specifications

Rated Frequency	Auxiliary Circuit 50 Hz Auxiliary Circuit 60 Hz Auxiliary Circuit DC Control Circuit DC Main Circuit 60 Hz Main Circuit 50Hz Main Circuit DC
Maximum Electrical Switching Frequency	AC-15 600 cycles per hour DC-13 600 cycles per hour
Short-Circuit Protective Devices	gG Type Fuses 6 A
Rated Insulation Voltage	690 V acc. to UL/CSA 600 V
Mechanical Durability	10000000 cycle
Coil Operating Limits	(acc. to IEC 60947-4-1) for DC supply Uc Min. ... Uc Max. (at θ ≤ 55 °C) (acc. to IEC 60947-5-1) for DC supply 0.85 ... 1.1 x Uc (at θ ≤ 55 ° C)
Secondary Rated Impulse Withstand Voltage	Auxiliary Circuit 6 kV
Rated Operational Current DC-13	(110 V) 0.7 A (220 / 240 V) 0.4 A (24 V) 2.5 A
Connecting Capacity Control Circuit	Flexible with Ferrule 1/2x 1 ... 2.5 square mm Flexible with Insulated Ferrule 1/2x 1 ... 2.5 square mm Flexible 1/2x 1 ... 2.5 square mm Rigid 1/2x 1 ... 4 square mm
Coil Consumption	Average Holding Value 50 Hz 2.8 V - A Average Pull-in Value 50 Hz 2.8 V - A
Degree of Protection	Auxiliary Circuit Terminals IP20 Control Circuit Terminals IP20 Main Circuit Terminals IP20
Connecting Capacity Auxiliary Circuit	Flexible with Ferrule 1/2x 1 ... 2.5 square millimetre Flexible with Insulated Ferrule 1/2x 1 ... 2.5 square millimetre Flexible 1/2x 1 ... 2.5 square millimetre Rigid 1/2x 1 ... 4 square millimetre
Mounting on DIN Rail	TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715 TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715
Wire Stripping Length	Auxiliary Circuit 9 mm

Classifications

ETIM 4	EC000196 - Contactor relay
ETIM 6.0	EC000196 - Contactor relay
ETIM 7	EC000196 - Contactor relay
ETIM 5.0	EC000196 - Contactor relay
eClass	7.0 27371001

Dimensions

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

Package Information

Package Level 1 Width	115 mm
Package Level 1 Height	54 mm
Package Level 1 Depth / Length	280 mm
Package Level 1 EAN	4013614411229
Package Level 1 Units	10 piece

Package Information

Package Level 1 Gross Weight	1.82 kg

Ordering

Minimum Order Quantity	1
Customs Tariff Number	85365080