

PRODUCT-DETAILS

# K6-40E-F-02

## K6-40E-F-02 Mini Contactor Relay 42V 40-450Hz



### General Information

Extended Product Type	K6-40E-F-02
Product ID	GJH1211003R0402
EAN	4013614231360
Catalog Description	K6-40E-F-02 Mini Contactor Relay 42V 40-450Hz

**Long Description**

The K6-40E-F mini contactor relay is a compact 4 pole contactor relay with flat pin connection. 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). Further features are the silent coil, a switch position indication and the integrated possibility for rail or wall mounting.

### Ordering

EAN	4013614231360
Minimum Order Quantity	1 piece
Customs Tariff Number	85365080

### Dimensions

Product Net Width	52.5 mm
Product Net Height	57.5 mm

Product Net Depth / Length	46.5 mm
Product Net Weight	0.17 kg

## Container Information

Package Level 1 Units	10 piece
Package Level 1 Width	115 mm
Package Level 1 Height	54 mm
Package Level 1 Depth / Length	280 mm
Package Level 1 Gross Weight	1.77 kg
Package Level 1 EAN	4013614410505

## Environmental

Ambient Air Temperature	Operation -25 ... +55 °C Storage -40 ... +80 °C
Maximum Operating Altitude Permissible	2000 m
Resistance to Vibrations acc. to IEC 60068-2-6	3g / 3 ... 150 Hz
Resistance to Shock acc. to IEC 60068-2-27	11 ms Pulse 15g
RoHS Status	Following EU Directive 2011/65/EU

## Technical UL/CSA

Maximum Operating Voltage UL/CSA	Auxiliary Circuit 600 V AC/DC
Contact Rating UL/CSA	A600
General Use Rating UL/CSA	(600 V AC) 5 A
Pilot Duty of Contact Elements acc. UL508	A600

## Additional Information

Coil Consumption	Average Holding Value 50 Hz 3.5 V·A Average Pull-in Value 50 Hz 3.5 V·A
Coil Operating Limits	(acc. to IEC 60947-5-1) for AC supply 0.85 ... 1.1 x U <sub>c</sub> (at $\theta \leq 55$ °C)
Conventional Free-air Thermal Current (I <sub>th</sub> )	Auxiliary Circuit 6 A
Degree of Protection	Auxiliary Circuit Terminals IP20 Control Circuit Terminals IP20
Maximum Electrical Switching Frequency	AC-15 600 cycles per hour DC-13 600 cycles per hour
Mechanical Durability	10000000 cycle
Mini Contactor Type	Mini Contactor Relay
Minimum Switching Capacity	17 V 5 mA

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
Mounting Position	Any, Position 1-6
Mounting Type	DIN-rail Screw
Number of Auxiliary Contacts NC	0
Number of Auxiliary Contacts NO	4
Number of Poles	4
Number of Main Contacts NC	0
Number of Main Contacts NO	0
Power Loss	at Rated Operating Conditions per Pole 2 W
Product Main Type	K6-F
Product Name	Mini Contactor Relay
Rated Control Circuit Voltage ( $U_c$ )	42 V AC
Rated Frequency (f)	Auxiliary Circuit 50 Hz Auxiliary Circuit 60 Hz Auxiliary Circuit DC Control Circuit 400 Hz Control Circuit 50 Hz Control Circuit 60 Hz 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 AC-15 ( $I_e$ )	(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
Rated Operational Current DC-13 ( $I_e$ )	(110 V) 0.7 A (220 / 240 V) 0.4 A (24 V) 2.5 A
Rated Operational Voltage	Auxiliary Circuit 12 ... 240 V DC Auxiliary Circuit 12 ... 500 V AC/DC Auxiliary Circuit 690 V
RoHS Date	0056
Standards	IEC/EN 60947-1 IEC/EN 60947-4-1 IEC/EN 60947-5-1 UL 60947-1 UL 60947-4-1
Terminal Type	Flat-Pin Connections

### Certificates and Declarations (Document Number)

CB Certificate	1SAA938001-2001
CCC Certificate	1SAA938000-3804
cULus Certificate	cUL_E48139

cUR Certificate	1SAA938000-1901
Data Sheet, Technical Information	1SBC100173C0201
Declaration of Conformity - CE	1SAD938516-0001
EAC Certificate	1SAA938001-2701
Environmental Information	1SAA938002-2401
Instructions and Manuals	2CDC102047M6801
RMRS Certificate	1SAA938001-0704
RoHS Information	1SAD938514-0001
UL Certificate	UL_E48139
UR Certificate	1SAA938000-1801
Dimension Diagram	GJL1200437F0001

## Classifications

ETIM 4	EC000196 - Contactor relay
ETIM 5	EC000196 - Contactor relay
ETIM 6	EC000196 - Contactor relay
ETIM 7	EC000196 - Contactor relay
Object Classification Code	K
UNSPSC	39121500
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)
eClass	7.0 27371001

## Categories

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

