

45.5 mm

## PRODUCT-DETAILS

Product Net Height

## KC6-40E-P-2.4-51 KC6-40E-P-2.4-51 Mini Contactor Relay 17-32VDC, 2.4W



General Information	
Extended Product Type	KC6-40E-P-2.4-51
Product ID	GJH1213009R5401
EAN	4013614050251
Catalog Description	KC6-40E-P-2.4-51 Mini Contactor Relay 17-32VDC, 2.4W
Long Description	The KC6-40E-P mini contactor relay is a compact 4 pole contactor relay with soldering pins. 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). Due to the low coil consumption, this device can be directly controlled by a PLC. Further features are the noiseless and hum-free coil and a a switch position indication.

Ordering	
EAN	401361405025
Minimum Order Quantity	1 piece
Customs Tariff Number	85365080
Customs Tariff Number	85365
Differisions	
Product Net Width	47.5 mi

Product Net Depth / Length	51.5 mm
Product Net Weight	0.17 kg

Container Information	
Package Level 1 Units	10 piece
Package Level 1 Width	108 mm
Package Level 1 Height	69 mm
Package Level 1 Depth / Length	247 mm
Package Level 1 Gross Weight	1.775 kg
Package Level 1 EAN	4013614411779

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 DC 2.4 W Average Pull-in Value DC 2.4 W
Coil Operating Limits	(acc. to IEC 60947-4-1) for DC supply Uc Min Uc Max. (at $\theta$ ≤ 55 °C) (acc. to IEC 60947-5-1) for DC supply 0.85 1.1 x Uc (at $\theta$ ≤ 55 °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 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

Mounting on DIN Rail THSS-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715 THSS-15 (95 x 15 mm Mounting Rail Pack Rail Rail Rail Rail Rail Rail Rail Rail	Minimum Switching Capacity	17 V 5 mA
Mounting Type	Mounting on DIN Rail	`
Number of Auxiliary	Mounting Position	Any, Position 1-6
Contacts NC         Number of Auxiliary         4           Contacts NO         4           Number of Poles         4           Number of Main Contacts         0           NC         0           Number of Main Contacts         0           NO         0           Power Loss         at Rated Operating Conditions per Pole 2 W           Product Main Type         KG6-P           Product Name         Mini Contactor Relay           Rated Control Circuit         17 32 V DC           Voltage (U <sub>c</sub> )         Auxiliary Circuit 50 Hz           Rated Frequency (f)         Auxiliary Circuit 50 Hz           Main Circuit 50 Hz         Main Circui	Mounting Type	
Contacts NO         A           Number of Main Contacts NO NC         0           Number of Main Contacts NO         0           Number of Main Contacts NO         0           Power Loss         at Rated Operating Conditions per Pole 2 W           Product Main Type         KC6-P           Product Name         Mini Contactor Relay           Rated Control Circuit Coult         17 32 V DC           Voltage (U <sub>c</sub> )         Auxiliary Circuit 50 Hz Auxiliary Circuit 50 Hz Auxiliary Circuit 50 Hz Auxiliary Circuit 60 Hz Main Circuit 60 Hz Mz Main Circuit 60 Hz Mz		0
Number of Main Contacts NC         0           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         KC6-P           Product Name         Mini Contactor Relay           Rated Control Circuit         17 32 V DC           Voltage (U <sub>c</sub> )         Auxiliary Circuit 50 Hz Main Circuit DC           Rated Impulse Withstand Voltage (U <sub>imp</sub> )         Auxiliary Circuit 6 WV Voltage (U <sub>imp</sub> )           Rated Insulation Voltage (U <sub>j</sub> )         690 V acc. to UL/CSA 6000 V Acc. t		4
NC         Number of Main Contacts NO         0           Power Loss         at Rated Operating Conditions per Pole 2 W           Product Main Type         KC6-P           Product Name         Mini Contactor Relay           Rated Control Circuit         17 32 V DC           Voltage (U_c)         Auxiliary Circuit 50 Hz Auxiliary Circuit 50 Hz Auxiliary Circuit 60 Hz Auxiliary Circuit 60 Hz Auxiliary Circuit DC Control Circuit DC Control Circuit DC Main Circuit D	Number of Poles	4
NO           Power Loss         at Rated Operating Conditions per Pole 2 W           Product Main Type         KC6-P           Product Main Type         Minic Contactor Relay           Rated Control Circuit         17 32 V DC           Voltage (U <sub>C</sub> )         Auxiliary Circuit 50 Hz Auxiliary Circuit 60 Hz Auxiliary Circuit 60 Hz Auxiliary Circuit 60 Hz Auxiliary Circuit 60 Hz Main Circuit DC           Rated Impulse Withstand         Auxiliary Circuit 6 KV           Voltage (U <sub>imp</sub> )         3 acc. to UL/CSA 600 V           Rated Operational Current A AC-15 (I <sub>e</sub> )         (24 V) 4 A           A C-15 (I <sub>e</sub> )         (220 / 240 V) 4 A           Reted Operational Current DC-13 (I <sub>e</sub> )         (24 V) 2.5 A           B C-13 (I <sub>e</sub> )         (110 V) 0.7 A           Reted Operational Voltage         Auxiliary Circuit 50 V DC           Remarks         No CA6 or CAF6 mountable           RoHS Date         No CA6 or CAF6 mountable           Standards         IEC/EN 80947-41           IEC/EN 80947-41         IEC/EN 80947-41 </td <td></td> <td>0</td>		0
Product Name         KC6-P           Product Name         Mini Contactor Relay           Rated Control Circuit         17 32 V DC           Voltage (U_c)         17 32 V DC           Rated Frequency (f)         Auxiliary Circuit 50 Hz Auxiliary Circuit DC Control Circuit DC Main Circuit DC Main Circuit DC           Rated Impulse Withstand         Auxiliary Circuit 6 kV           Voltage (U <sub>imp</sub> )         3           Rated Insulation Voltage         690 V acc. to UL/CSA 600 V           Rated Operational Current         (24 V) 4 A (240 V) 4 A (250 V) 2 A (260 V) 2 A (260 V) 2 A (260 V) 2 A (270 V) 0 A (280 V) 2 A (280 V) 3 A           Rated Operational Current         (24 V) 2.5 A (380 V 400 V) 3 A (380 V 400 V) 3 A (220 V 240 V) 0.4 A (220 V 240 V) 0.4 A           Rated Operational Voltage         Auxiliary Circuit 250 V DC Auxiliary Circuit 250 V DC           Remarks         No CA6 or CAF6 mountable           RoHS Date         1EC/EN 60947-4-1 1EC/EN 60947-4-1 1EC/EN 60947-5-1 UL 60947-5-1 UL 60947-5-1		0
Product Name         Mini Contactor Relay           Rated Control Circuit         17 32 V DC           Voltage (U <sub>c</sub> )         Auxiliary Circuit 50 Hz           Rated Frequency (f)         Auxiliary Circuit 60 Hz           Auxiliary Circuit 60 Hz         Auxiliary Circuit 60 Hz           Main Circuit DC         Main Circuit 50 Hz           Main Circuit 50 Hz         Main Circuit 50 Hz           Main Circuit 6 kV         Main Circuit 6 kV           Voltage (U <sub>imp</sub> )         acc. to UL/CSA 600 V           Rated Insulation Voltage         690 V           (U₁)         acc. to UL/CSA 600 V           Rated Operational Current         (24 V) 4 A           (20)         (240 V) 4 A           (240 V) 2 A         (220 V) 4 V) 0 A           Rated Operational Current         (24 V) 2.5 A           DC-13 (I <sub>e</sub> )         (24 V) 2.5 A           QCD (240 V) 0.4 A         (220 V) 240 V) 0.4 A           Rated Operational Voltage         Auxiliary Circuit 590 V AC           Auxiliary Circuit 250 V DC         Constant lies           Remarks         No CA6 or CAF6 mountable           Remarks         No CA6	Power Loss	at Rated Operating Conditions per Pole 2 W
Rated Control Circuit         17 32 V DC           Voltage (U <sub>c</sub> )         Auxiliary Circuit 50 Hz Auxiliary Circuit 50 Hz Auxiliary Circuit 50 Hz Auxiliary Circuit DC           Rated Frequency (f)         Auxiliary Circuit 50 Hz Auxiliary Circuit DC           Main Circuit DC         Main Circuit DC           Rated Impulse Withstand         Auxiliary Circuit 6 kV           Voltage (U <sub>imp</sub> )         Auxiliary Circuit 6 kV           Rated Insulation Voltage         690 V           (U <sub>1</sub> )         acc. to UL/CSA 600 V           Rated Operational Current         (24 V) 4 A           AC-15 (I <sub>e</sub> )         (120 V) 4 A           (240 V) 4 A         (380 / 400 V) 3 A           (240 V) 4 A         (380 / 400 V) 3 A           Rated Operational Current         (24 V) 2.5 A           DC-13 (I <sub>e</sub> )         (110 V) 0.7 A           (201 / 240 V) 0.4 A         Auxiliary Circuit 6 bV           Reted Operational Voltage         Auxiliary Circuit 500 V DC           Remarks         No CA6 or CAF6 mountable           RoHS Date         0056           Standards         IEC/EN 60947.4-1           IEC/EN 60947.4-1         IEC/EN 60947.4-1           IEC/EN 60947.4-1         IEC/EN 60947.4-1           IEC/EN 60947.4-1         IEC/EN 60947.4-1           UL 60947	Product Main Type	KC6-P
Voltage (U <sub>c</sub> )         Auxiliary Circuit 50 Hz Auxiliary Circuit 50 Hz Auxiliary Circuit 60 Hz Auxiliary Circuit 60 Hz Auxiliary Circuit 60 Hz Auxiliary Circuit 50 Hz Auxiliary Circuit 50 Hz Main Circuit 6 kV Voltage (U <sub>imp</sub> )           Rated Impulse Withstand Voltage (U <sub>imp</sub> )         Auxiliary Circuit 6 kV Main Circuit 50 Hz Main Circuit 40 H	Product Name	Mini Contactor Relay
Auxiliary Circuit 60 Hz		17 32 V DC
Rated Impulse Withstand Voltage (U <sub>Imp</sub> )         Auxiliary Circuit 6 kV           Rated Insulation Voltage (U <sub>I</sub> )         690 V acc. to UL/CSA 600 V           Rated Operational Current AC-15 (I <sub>e</sub> )         (24 V) 4 A (240 V) 4 A (250 V) 2 A (240 V) 4 A (250 V) 2 A (220 V) 4 A (380 V 400 V) 3 A           Rated Operational Current AC-13 (I <sub>e</sub> )         (24 V) 2.5 A (110 V) 0.7 A (220 V) 0.4 A (220	Rated Frequency (f)	Auxiliary Circuit 60 Hz Auxiliary Circuit DC Control Circuit DC Main Circuit 60 Hz
(U <sub>1</sub> )         acc. to UL/CSA 600 V           Rated Operational Current         (24 V) 4 A           AC-15 (I <sub>e</sub> )         (120 V) 4 A           (240 V) 4 A         (500 V) 2 A           (220 / 240 V) 4 A         (380 / 400 V) 3 A           Rated Operational Current         (24 V) 2.5 A           DC-13 (I <sub>e</sub> )         (110 V) 0.7 A           Rated Operational Voltage         Auxiliary Circuit 690 V AC           Remarks         No CA6 or CAF6 mountable           RoHS Date         0056           Standards         IEC/EN 60947-4-1           IEC/EN 60947-4-1         IEC/EN 60947-5-1           UL 60947-4-1         UL 60947-1-1		
AC-15 (I <sub>e</sub> )  (120 V) 4 A (240 V) 4 A (500 V) 2 A (500 V) 2 A (220 / 240 V) 4 A (380 / 400 V) 3 A  Rated Operational Current  DC-13 (I <sub>e</sub> )  (24 V) 2.5 A DC-13 (I <sub>e</sub> )  (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  RoHS Date  5tandards  IEC/EN 60947-4 IEC/EN 60947-4-1 IEC/EN 60947-5-1 UL 60947-4-1 UL 60947-4-1		
DC-13 (I <sub>e</sub> )         (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           RoHS Date         0056           Standards         IEC/EN 60947-1 IEC/EN 60947-4-1 IEC/EN 60947-5-1 UL 60947-5-1 UL 60947-4-1 UL 60947-4-1 IEC/EN 60947-5-1 UL 60947-4-1 IEC/EN 60947	·	(120 V) 4 A (240 V) 4 A (500 V) 2 A (220 / 240 V) 4 A
Auxiliary Circuit 250 V DC  Remarks  No CA6 or CAF6 mountable  RoHS Date  Standards  IEC/EN 60947-4-1  IEC/EN 60947-5-1  UL 60947-4-1  UL 60947-4-1		(110 V) 0.7 A
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	Rated Operational Voltage	
Standards  IEC/EN 60947-4-1  IEC/EN 60947-5-1  UL 60947-1  UL 60947-4-1	Remarks	No CA6 or CAF6 mountable
IEC/EN 60947-4-1 IEC/EN 60947-5-1 UL 60947-1 UL 60947-4-1	RoHS Date	0056
Terminal Type Soldering Pins	Standards	IEC/EN 60947-4-1 IEC/EN 60947-5-1 UL 60947-1
	Terminal Type	Soldering Pins

## Certificates and Declarations (Document Number)

CB Certificate	1SAA938001-2001
CQC Certificate	CQC2003010304064035

cUR Certificate	1SAA938000-1901
Data Sheet, Technical Information	1SBC100214C0201
Declaration of Conformity - CCC	2020980304001309
Declaration of Conformity - CE	1SAD938516-0001
EAC Certificate	1SAA938001-2701
Environmental Information	1SAC200069H0009
Instructions and Manuals	2CDC102047M6801
RMRS Certificate	1SAA938001-0704
RoHS Information	1SAD938516-0001
UR Certificate	1SAA938000-1801
Dimension Diagram	GJL1200438F0001

Classifications	
ETIM 4	EC000196 - Contactor relay
ETIM 5	EC000196 - Contactor relay
ETIM 6	EC000196 - Contactor relay
ETIM 7	EC000196 - Contactor relay
Object Classification Code	К
UNSPSC	39121500
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)
eClass	V11.0 : 27371001

## Categories

 $Low\ Voltage\ Products\ and\ Systems \rightarrow Control\ Products \rightarrow Contactors \rightarrow Mini\ Contactor\ Relays$ 

