

PRODUCT-DETAILS

TKC6-40E-68 Mini Contactor Relay 140-260VDC



General Information	
Extended Product Type	TKC6-40E-68
Product ID	GJH1213061R6408
EAN	4013614309298
Catalog Description	TKC6-40E-68 Mini Contactor Relay 140-260VDC
Long Description	The TKC6-40E 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 a switch position indication.

Ordering	
EAN	4013614309298
Minimum Order Quantity	1 piece
Customs Tariff Number	85365080
Dimensions	
Dimensions Product Net Width	52.5 mn
Product Net Width	52.5 mn 57.5 mn

TKC6-40E-68 2

Package Level I Width 115 mm Package Level I Height 54 mm Package Level I Depth / Length 280 mm Length 187 km Package Level I Gross 187 km Weight 401361441201 Environmental Environmental Ambient Air Temperature Operation -30 +70 mm Maximum Operating 2000 mm Altitude Permissible 2000 mm Resistance to Vibrations and to 10 trends on 20 mm 3g / 3 150 mm act to 16 60088-24 Following EU Directive 20116S/EI Technical UL/CSA Maximum Operating Voltage Rating Auxiliary Circuit 600 V AC/D Technical UL/CSA Maximum Operating Voltage Rating (B00 V AC/D S. Technical UL/CSA Maximum Operating Maximum Operating Average Holding Value DC S Warder Pullin Value DC S Warder Pu	Container Information	
Package Level 1 Height 54 mm Package Level 1 Depth / Length 288 mm Package Level 1 Gross 1.87 km Weight 4.01361441201 Environmental Ambient Air Temperature Operation -30 +70 °° Maximum Operating Allutude Permissible 3g / 3 150 H Resistance to Vibrations acro to IEC 60068-2-6 11 ms Pulse 15 Resistance to Shock acco 11 ms Pulse 15 In EC 60068-2-7 Following EU Directive 201165/EI Technical UL/CSA Maximum Operating Allutional Information Auxiliary Circuit 600 V ACD Additional Information Average Helding Value DC 5 Value DC 5 Value Pulse Pulse Value Pulse Value DC 5 Value Pulse Pulse Value Value Pulse Valu	Package Level 1 Units	10 piece
Package Level 1 Depth / Leongth 280 mm (Leongth) Package Level 1 Gross 1.87 km (Leongth) Package Level 1 EAN 401361441201 Environmental 401361441201 Ambient Air Temperature Operation -30 +70 ° Maximum Operating Annual Permissible (Properties) 2000 ° Minute Permissible (Properties) Assistance to Shock acc. 11 ms Pulse 15 ° Shock acc. 11 ms Pulse 15 ° Shock acc. to IEC 60068-2-2 11 ms Pulse 15 ° Shock acc. 11 ms Pulse 15 ° Shock acc. Technical UL/CSA Auxiliary Circuit 600 V AC/D ° Shock acc. 11 ms Pulse 15 ° Shock acc. Value of Package Early (Properties) Auxiliary Circuit 600 V AC/D ° Shock acc. 11 ms Pulse 15 ° Shock acc. Value of Package Early (Properties) Auxiliary Circuit 600 V AC/D ° Shock acc. 11 ms Pulse 15 ° Shock acc. Walker (Properties) Auxiliary Circuit 600 V AC/D ° Shock acc. 11 ms Pulse 15 ° Shock acc. Coll Econsellation Auxiliary Circuit 600 V AC/D ° Shock acc. 400 ° Shock acc. Coll Questing Limits (acc. to IEC 60947-5-1) for DC suply by Le Min Use Max. (at 9 · 5 ° Shock acc.) Coll Operating Limits (acc. to IEC 60947-5-1) for DC suply by Le Min Use Max. (at 9 · 5 ° Shock acc.) Coll Operating Limits <td>Package Level 1 Width</td> <td>115 mm</td>	Package Level 1 Width	115 mm
Length Package Level 1 Gross 1.87 k Weight	Package Level 1 Height	54 mm
Weight Package Level 1 EAN 401361441201 Environmental Ambient Air Temperature Operating Storage 40 + 85 1 Moximum Operating Alltide Permissible Scote 1 1 ms Pulse 15 to 10 C 80082-26 Resistance to Wibrations 2, 3 (7 3 150 H act. to 11 C 80082-27 Resistance to Shock acc. 1 1 ms Pulse 15 to 10 C 80082-27 RoHS Status Following EU Directive 2011/65/EI Technical UL/CSA Maximum Operating Auxiliary Circuit 600 V AC/D Votage UL/CSA General Use Rating (600 V AC) 5. Additional Information Coil Consumption Average Holding Value DC 5 V Average Pull-in Va		280 mm
Environmental Ambient Air Temperature Operation -30 +70 ° Storage -40 +85 ° Maximum Operating Altitude Parmissible Resistance to Vibrations act. to IEC 60084-2-6 Resistance to Shock acc. to IEC 60084-2-7 RoHS Status Following EU Directive 2011/65/EI Technical UL/CSA Maximum Operating Vibrations Auxiliary Circuit 600 V AC/Di Voltage UL/CSA Additional Information Coil Consumption Average Holding Value DC 5 Notes acc. Coil Operating Limits (acc. to IEC 60084-5-1) for DC supply Left Min Left Auxiliary Circuit 600 V AC/Di Voltage UL/CSA Additional Information Coil Consumption Average Holding Value DC 5 Notes acc. Coil Operating Limits (acc. to IEC 60947-5-1) for DC supply Left Min Left Auxiliary Circuit 600 V AC/Di Voltage UL/CSA Connecting Capacity Flexible with Insulated Ferrule 1/2x 1 2.5 mm Flexible with Insulated Ferrule 1/2x 1 4 mm Flexible with Insulated Ferrule 1/2x 1 2 mm Flexible with Insulated Ferrule 1/2x 1 2 mm Flexibl	Package Level 1 Gross Weight	1.87 kg
Ambient Air Temperature Operation - 30 + 70 ° Storage - 40 + 80 ° Storage - 40 ° Storage - 40 ° + 80 ° Storage - 40 °	Package Level 1 EAN	4013614412011
Storage 40 +85 °t Maximum Operating Altitude Permissible Resistance to Vibrations act. to IEC 60088-2-6 Resistance to Shock acc. to IEC 60088-2-7 ROHS Status Following EU Directive 2011/65/EI Technical UL/CSA Maximum Operating Voltage UL/CSA Maximum Operating Voltage UL/CSA Maximum Operating Voltage UL/CSA Additional Information Coil Consumption Average Holding Value DC 5 of Average Publi-In Va	Environmental	
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acc. to IEC 60088-2-6 Resistance to Shock acc. 11 ms Pulse 15 to IEC 60088-2-27 ROHS Status Following EU Directive 2011/65/EI Technical UL/CSA Maximum Operating Voltage UL/CSA Maximum Operating Auxiliary Circuit 600 V AC/Di Voltage UL/CSA Additional Information Coil Consumption Average Holding Value DC 5 v Average Pull-in Value		2000 n
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Technical UL/CSA Maximum Operating Voltage UL/CSA General Use Rating UC/SA Additional Information Coil Consumption Average Holding Value DC 5 & Average Pull-in Value DC 5 & Value DC	Resistance to Shock acc. to IEC 60068-2-27	11 ms Pulse 15g
Maximum Operating Voltage UL/CSA General Use Rating (600 V AC) 5. UL/CSA Additional Information Coil Consumption Average Holding Value DC 5 V Average Pull-in	RoHS Status	Following EU Directive 2011/65/EU
Voltage UL/CSA General Use Rating UL/CSA Additional Information Coil Consumption Average Holding Value DC 5 V Average Holding Value DC 5 V Average Pull-in Va	Technical UL/CSA	
Additional Information Coil Consumption Average Holding Value DC 5 Vaverage Pull-in Value DC 5 Vaverage Value Val		Auxiliary Circuit 600 V AC/DC
Additional Information Coil Consumption Average Holding Value DC 5 Value DC	General Use Rating UL/CSA	(600 V AC) 5 A
Coil Consumption Average Holding Value DC 5 V Average Pull-in Value DC 5 V Coil Operating Limits (acc. to IEC 60947-5-1) for DC supply Uc Min Uc Max. (at 0 ≤ 55 °C Connecting Capacity Flexible with Ferrule 1/2x 1 2.5 mr Flexible with Insulated Ferrule 1/2x 1 2.5 mr Rigid 1/2x 1 4 mr Connecting Capacity Flexible with Ferrule 1/2x 1 2.5 mr Rigid 1/2x 1 2.5 mr Flexible with Insulated Ferrule 1/2x 1 2.5 mr Flexible 1/2x 1 2.5 mr Flexible with Insulated Ferrule 1/2x 1 2.5 mr Flexible 1/2x 1 2.5 mr Flexible vith Insulated Ferrule 1/2x 1 2.5 mr Flexible 1/2x 1 2.5 mr Flexible vith Insulated Ferrule 1/2x 1 2.5 mr Flexible 1/2x 1 2.5 mr Flexible vith Ferrule 1/2x 1 2.5 mr Flexible with Insulated Ferrule 1/2x 1 2.5 mr Flexible with Insulated Ferrule 1/2x 1 2.5 mr Flexible vith Ferrule 1/2x 1 2.5 mr Flexible with Insulated Ferrule 1/2x 1 2.5 mr Flexible vith Insulated Ferrule 1/2x 1 2.5 mr Flexible vith Ferrule 1/2x 1 2.5 mr Flexible vith Insulated Ferrule 1/2x 1 2.5 mr Flex		
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Connecting Capacity Auxiliary Circuit Auxiliary Circuit Auxiliary Circuit Connecting Capacity Control Circuit Control Circuit Control Circuit Conventional Free-air Flexible with Insulated Ferrule 1/2x 1 2.5 mm Rigid 1/2x 1 4 mm Auxiliary Circuit 7 minals IP2 Conventional Free-air Thermal Current (I _{th}) Degree of Protection Auxiliary Circuit Terminals IP2 Control Circuit Terminals IP2 Control Circuit Terminals IP2 Fire and Smoke Standards Maximum Electrical Switching Frequency (AC-15) 600 cycles per hot Switching Frequency (DC-13) 600 cycles per hot Mechanical Durability 10000000 cycl Mini Contactor Type Mini Contactor Type Mini Contactor Type Mini Contactor Rela Minimum Switching Capacity TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 6071 TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 6071	Coil Consumption	Average Holding Value DC 5 W Average Pull-in Value DC 5 W
Auxiliary Circuit Flexible with Insulated Ferrule 1/2x 1 2.5 mm Flexible 1/2x 1 2.5 mm Rigid 1/2x 1 2.5 mm Rigid 1/2x 1 2.5 mm Flexible with Ferrule 1/2x 1 2.5 mm Flexible with Insulated Ferrule 1/2x 1 2.5 mm Flexible 1/2x 1 2.5 mm Flexible with Insulated Ferrule 1/2x 1 2.5 mm Flexible 1/2x 1 2.5 mm Flexible 1/2x 1 2.5 mm Flexible 1/2x 1 2.5 mm Rigid 1/2x 1 4 mm Conventional Free-air Thermal Current (I _{th}) Degree of Protection Auxiliary Circuit 7 erminals IP2 Control Circuit Terminals IP2 Control Circuit Terminals IP2 Main Circuit Terminals IP2 Fire and Smoke Standards Maximum Electrical Switching Frequency Mechanical Durability Mechanical Durability 10000000 cycles per hou Mechanical Durability Mini Contactor Type Mini Contactor Type Minimum Switching Capacity TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 6071 TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 6071	Coil Operating Limits	(acc. to IEC 60947-5-1) for DC supply Uc Min Uc Max. (at $\theta \leq 55~^{\circ}\text{C}$
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Conventional Free-air Thermal Current (Ith) Degree of Protection Auxiliary Circuit 6 Auxiliary Circuit 6 Auxiliary Circuit Terminals IP2 Control Circuit Terminals IP2 Control Circuit Terminals IP2 Main Circuit Terminals IP2 (AC-15) 600 cycles per hour with Circuit Terminals IP2 (AC-15) 600 cycles per hour Maximum Electrical (AC-15) 600 cycles per hour Mechanical Durability Mechanical Durability Mini Contactor Type Mini Contactor Type Mini Contactor Type Mini Contactor Type Mini Contactor Rela Minimum Switching Capacity Mounting on DIN Rail TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 6071 TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 6071	Connecting Capacity Control Circuit	Flexible with Ferrule 1/2x 1 2.5 mm Flexible with Insulated Ferrule 1/2x 1 2.5 mm Flexible 1/2x 1 2.5 mm Rigid 1/2x 1 4 mm
Control Circuit Terminals IP2 Main Circuit Terminals IP2 Fire and Smoke Standards Maximum Electrical Switching Frequency Mechanical Durability Mini Contactor Type Minimum Switching Capacity Mounting on DIN Rail Control Circuit Terminals IP2 Main Circuit Terminals IP2 Maximum Electrical (AC-15) 600 cycles per hou (DC-13) 600 cycles per hou (DC-13) 600 cycles per hou Minimum Contactor Type Minimum Switching Th35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 6071 TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 6071		Auxiliary Circuit 6 A
Fire and Smoke Standards Maximum Electrical (AC-15) 600 cycles per hou Switching Frequency (DC-13) 600 cycles per hou Mechanical Durability Mini Contactor Type Mini Contactor Rela Minimum Switching Capacity Mounting on DIN Rail TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 6071 TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 6071	Degree of Protection	Auxiliary Circuit Terminals IP20 Control Circuit Terminals IP20 Main Circuit Terminals IP20
Switching Frequency (DC-13) 600 cýcles per hou Mechanical Durability 10000000 cycl Mini Contactor Type Mini Contactor Rela Minimum Switching 17 Capacity 5 m. Mounting on DIN Rail TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 6071 TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 6071	Fire and Smoke Standards	EN 45545 (Hazard levels HL2, HL3
Mini Contactor Type Mini Contactor Rela Minimum Switching Capacity Mounting on DIN Rail TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 6071 TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 6071		(AC-15) 600 cycles per hou (DC-13) 600 cycles per hou
Minimum Switching Capacity Mounting on DIN Rail TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 6071 TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 6071	Mechanical Durability	10000000 cycle
Capacity 5 m. Mounting on DIN Rail TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 6071 TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 6071	Mini Contactor Type	Mini Contactor Relay
TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 6071		17 \ 5 mA
Mounting Position Any, Position 1-	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

DIN-rail

Mounting Type

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	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	TKC6
Product Name	Mini Contactor Relay
Rated Control Circuit Voltage (U _c)	140 260 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
Rated Operational Current AC-1 (I _e)	(220 / 240 V) 40 °C 20 A (220 / 240 V) 55 °C 16 A (380 / 440 V) 55 °C 16 A
Rated Operational Current AC-15 (I _e)	(24 V) 4 A (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 DC-13 (I _e)	(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
RoHS Date	0056
Standards	IEC/EN 60947-1 IEC/EN 60947-4-1 IEC/EN 60947-5-1
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
Certificates and Declarations (Document Number)	
Data Sheet, Technical	1SBC100214C0201
Information Declaration of Conformity - CE	1SAD938516-0001
EAC Certificate	1SAA938001-2701
Environmental Information	15A630001-2701

1SAC200069H0009

2CDC102001C0202

1SAD938516-0001

RoHS Information

Environmental Information

Instructions and Manuals

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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	V11.0 : 27371001

Categories

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

