

## PRODUCT-DETAILS

# EK1000-40-11 220-230V 50Hz / 240V 60Hz EK1000-40-11 220-230V 50Hz / 240V 60Hz Contactor



## General Information

|                       |                                                                                                                                                                                    |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Extended Product Type | EK1000-40-11 220-230V 50Hz / 240V 60Hz                                                                                                                                             |
| Product ID            | SK827044-AL                                                                                                                                                                        |
| EAN                   | 7320500194249                                                                                                                                                                      |
| Catalog Description   | EK1000-40-11 220-230V 50Hz / 240V 60Hz Contactor                                                                                                                                   |
| Long Description      | A 4-pole Contactor suitable for Distribution and Rail way applications AC and DC switching.<br>Operated with control voltage, versions from 24....690 AC, 50/60 Hz and 24-220 V DC |

## Ordering

|                        |          |
|------------------------|----------|
| Minimum Order Quantity | 1 piece  |
| Customs Tariff Number  | 85364900 |

## Popular Downloads

|                                   |                 |
|-----------------------------------|-----------------|
| Data Sheet, Technical Information | 1SBC100122C0202 |
| Instructions and Manuals          | 5309660-30      |

## Dimensions

|                            |          |
|----------------------------|----------|
| Product Net Width          | 270 mm   |
| Product Net Depth / Length | 225.5 mm |

|                    |         |
|--------------------|---------|
| Product Net Height | 272 mm  |
| Product Net Weight | 15.8 kg |

## Technical

|                                                              |                                                                                                                                                                                                                                                                                                                                                         |
|--------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Number of Main Contacts NO                                   | 4                                                                                                                                                                                                                                                                                                                                                       |
| Number of Main Contacts NC                                   | 0                                                                                                                                                                                                                                                                                                                                                       |
| Number of Auxiliary Contacts NO                              | 1                                                                                                                                                                                                                                                                                                                                                       |
| Number of Auxiliary Contacts NC                              | 1                                                                                                                                                                                                                                                                                                                                                       |
| Rated Operational Voltage                                    | Main Circuit 1000 V                                                                                                                                                                                                                                                                                                                                     |
| Conventional Free-air Thermal Current ( $I_{th}$ )           | acc. to IEC 60947-4-1, Open Contactors q = 40 °C 1000 A                                                                                                                                                                                                                                                                                                 |
| Rated Operational Current AC-1 ( $I_e$ )                     | (1000 V) 40 °C 1000 A<br>(1000 V) 60 °C 800 A<br>(1000 V) 70 °C 720 A<br>(690 V) 40 °C 1000<br>(690 V) 55 °C 800<br>(690 V) 60 °C 800 A<br>(690 V) 70 °C 720                                                                                                                                                                                            |
| Rated Short-time Withstand Current ( $I_{cw}$ )              | at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 6400 A<br>at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 1200 A<br>at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 3400 A<br>at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 6800 A<br>at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 4400 A |
| Maximum Electrical Switching Frequency                       | (AC-1) 300 cycles per hour                                                                                                                                                                                                                                                                                                                              |
| Rated Insulation Voltage ( $U_i$ )                           | acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V<br>acc. to UL/CSA 600 V                                                                                                                                                                                                                                                                               |
| Rated Impulse Withstand Voltage ( $U_{imp}$ )                | 8 kV                                                                                                                                                                                                                                                                                                                                                    |
| Mechanical Durability                                        | 5 million                                                                                                                                                                                                                                                                                                                                               |
| Maximum Mechanical Switching Frequency                       | 3600 cycles per hour                                                                                                                                                                                                                                                                                                                                    |
| Coil Operating Limits                                        | (acc. to IEC 60947-4-1) $U_c$ (at $\theta \leq 70$ °C)                                                                                                                                                                                                                                                                                                  |
| Rated Control Circuit Voltage ( $U_c$ )                      | 50 Hz 220 ... 230 V<br>60 Hz 240 V                                                                                                                                                                                                                                                                                                                      |
| Coil Consumption                                             | Holding at Max. Rated Control Circuit Voltage 50 Hz 125 V·A<br>Holding at Max. Rated Control Circuit Voltage 60 Hz 140 V·A<br>Pull-in at Max. Rated Control Circuit Voltage 50 Hz 3500 V·A<br>Pull-in at Max. Rated Control Circuit Voltage 60 Hz 4000 V·A                                                                                              |
| Operate Time                                                 | Between Coil De-energization and NC Contact Closing 10 ... 20 ms<br>Between Coil De-energization and NO Contact Opening 13 ... 23 ms<br>Between Coil Energization and NC Contact Opening 25 ... 55 ms<br>Between Coil Energization and NO Contact Closing 30 ... 60 ms                                                                                  |
| Degree of Protection                                         | acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20                                                                                                                                                                                                                                                                                            |
| Connecting Terminals (delivered in open position) Main Poles | Flat type c/w screws and bolts                                                                                                                                                                                                                                                                                                                          |
| Terminal Type                                                | Main Circuit: Bars                                                                                                                                                                                                                                                                                                                                      |

## Environmental

|                                        |                                                                                                                                                                                                                             |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ambient Air Temperature                | Close to Contactor Fitted with Thermal O/L Relay (0.85 ... 1.1 $U_c$ ) -25 ... +55 °C<br>Close to Contactor without Thermal O/L Relay (0.85 ... 1.1 $U_c$ ) -40 ... +70 °C<br>Close to Contactor for Storage -50 ... +70 °C |
| Maximum Operating Altitude Permissible | 3000 m                                                                                                                                                                                                                      |
| RoHS Status                            | Following EU Directive 2011/65/EU                                                                                                                                                                                           |

## Certificates and Declarations (Document Number)

|                                    |                     |
|------------------------------------|---------------------|
| CQC Certificate                    | CQC2003010304094983 |
| Declaration of Conformity<br>- CCC | 2020980304001285    |
| Declaration of Conformity<br>- CE  | 2CMT2015-005442     |
| Environmental Information          | 1SFC101013D0201     |
| Instructions and Manuals           | 5309660-30          |
| RoHS Information                   | 2CMT2016-005874     |

## Container Information

|                                   |               |
|-----------------------------------|---------------|
| Package Level 1 Units             | box 1 piece   |
| Package Level 1 Width             | 281 mm        |
| Package Level 1 Depth /<br>Length | 342 mm        |
| Package Level 1 Height            | 224 mm        |
| Package Level 1 Gross<br>Weight   | 17.5 kg       |
| Package Level 1 EAN               | 7320500194249 |

## Classifications

|                                       |                                           |
|---------------------------------------|-------------------------------------------|
| Object Classification Code            | Q                                         |
| ETIM 4                                | EC000066 - Magnet contactor, AC-switching |
| ETIM 5                                | EC000066 - Magnet contactor, AC-switching |
| ETIM 6                                | EC000066 - Power contactor, AC switching  |
| ETIM 7                                | EC000066 - Power contactor, AC switching  |
| eClass                                | V11.0 : 27371003                          |
| UNSPSC                                | 39121529                                  |
| IDEA Granular Category<br>Code (IGCC) | 4755 >> Contactors                        |

## Categories

Low Voltage Products and Systems → Control Products → Contactors → Block Contactors

