

## PRODUCT-DETAILS

# EK1000-40-11 380-400V 50Hz / 440V 60Hz EK1000-40-11 380-400V 50Hz / 440V 60Hz Contactor



## Información General

|                       |                                                                                                                                                                                   |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Extended Product Type | EK1000-40-11 380-400V 50Hz / 440V 60Hz                                                                                                                                            |
| Product ID            | SK827044-AP                                                                                                                                                                       |
| EAN                   | 7320500194348                                                                                                                                                                     |
| Catalog Description   | EK1000-40-11 380-400V 50Hz / 440V 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 |

## Clasificaciones

|                                       |                                           |
|---------------------------------------|-------------------------------------------|
| 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  |
| IDEA Granular Category<br>Code (IGCC) | 4755 >> Contactors                        |

## Información de Embalaje

|                       |             |
|-----------------------|-------------|
| Package Level 1 Units | box 1 piece |
|-----------------------|-------------|

|                                |               |
|--------------------------------|---------------|
| Package Level 1 Width          | 281 mm        |
| Package Level 1 Depth / Length | 342 mm        |
| Package Level 1 Height         | 224 mm        |
| Package Level 1 Gross Weight   | 17.5 kg       |
| Package Level 1 EAN            | 7320500194348 |

## Certificados y Declaraciones (Número de Documento)

|                                |                 |
|--------------------------------|-----------------|
| Declaration of Conformity - CE | 2CMT2015-005442 |
| Environmental Information      | 1SFC101013D0201 |
| Instructions and Manuals       | 5309660-30      |
| RoHS Information               | 2CMT2016-005878 |

## Ambiente

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

## 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 ( $I_e$ )           | (690 V) 40 °C 1000 A<br>(690 V) 55 °C 800 A<br>(690 V) 70 °C 720 A                                                                                                                                                                                                                                                                                      |
| 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 UL/CSA 600 V<br>acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 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 $\theta \leq 70^\circ\text{C}$ )                                                                                                                                                                                                     |
| Rated Control Circuit Voltage ( $U_c$ )                      | 50 Hz 380 ... 400 V<br>60 Hz 440 V                                                                                                                                                                                                                                     |
| Coil Consumption                                             | Holding at Max. Rated Control Circuit Voltage 50 Hz 140 V·A<br>Holding at Max. Rated Control Circuit Voltage 60 Hz 125 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                                                                                                                                                                                                                                                     |

## Dimensiones

|                            |          |
|----------------------------|----------|
| Product Net Width          | 270 mm   |
| Product Net Depth / Length | 225.5 mm |
| Product Net Height         | 272 mm   |
| Product Net Weight         | 15.8 kg  |

## Descargas Populares

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

## Clasificación

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

## Categorías

Productos y sistemas de baja tensión → Aparatos de control → Contactores → Contactores

