



PRODUCT-DETAILS

EK1000-40-11 110V DC

EK1000-40-11 110V DC Contactor



General Information	
Extended Product Type	EK1000-40-11 110V DC
Product ID	SK827044-DE
EAN	7320500200766
Catalog Description	EK1000-40-11 110V DC Contactor
Long Description	A 4-pole Contactor suitable for Distribution and Rail way applications AC and DC switching. 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
CAD Dimensional Drawing	2CDC001079B0201

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 $\Theta = 40\text{ °C}$ 1000 A
Rated Operational Current AC-1 (I_e)	(1000 V) 40 °C 1000 A (1000 V) 60 °C 800 A (1000 V) 70 °C 720 A (690 V) 40 °C 1000 A (690 V) 55 °C 800 A (690 V) 60 °C 800 A (690 V) 70 °C 720 A
Rated Short-time Withstand Current Low Voltage (I_{cw})	at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 6400 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 1200 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 3400 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 6800 A 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
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 $\theta \leq 70\text{ °C}$)
Rated Control Circuit Voltage (U_c)	DC Operation 110 V
Coil Consumption	Holding at Max. Rated Control Circuit Voltage 50 Hz 125 V·A Holding at Max. Rated Control Circuit Voltage 60 Hz 140 V·A Pull-in at Max. Rated Control Circuit Voltage 50 Hz 3500 V·A 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 Between Coil De-energization and NO Contact Opening 13 ... 23 ms Between Coil Energization and NC Contact Opening 25 ... 55 ms 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 Close to Contactor without Thermal O/L Relay (0.85 ... 1.1 U_c) -40 ... 70 °C Close to Contactor for Storage -50 ... 70 °C

Maximum Operating Altitude Permissible	Without Derating 3000 m
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Material Compliance

Conflict Minerals Reporting Template (CMRT)	9AKK108467A5658
REACH Declaration	2CMT2021-006202
RoHS Information	2CMT2021-006277
RoHS Status	Following EU Directive 2011/65/EU
WEEE B2C / B2B	Business To Business
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)

Certificates and Declarations

CQC Certificate	CQC2003010304094983
Declaration of Conformity - CCC	2020980304001285
Declaration of Conformity - CE	2CMT2015-005442

Container Information

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	7320500200766

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
ETIM 8	EC000066 - Power contactor, AC switching
eClass	V11.0 : 27371003
UNSPSC	39121529
IDEA Granular Category Code (IGCC)	4755 >> Contactors

Categories

Low Voltage Products and Systems → Control Products → Contactors → Block Contactors → EH and EK Contactors → EK1000

