

PRODUCT-DETAILS

EK550-40-21 48V DC

EK550-40-21 48V DC Contactor



General Information

Extended Product Type	EK550-40-21 48V DC
Product ID	SK827041-DD
EAN	7320500002223
Catalog Description	EK550-40-21 48V 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

Dimensions

Product Net Width	296 mm
Product Net Depth / Length	225.5 mm
Product Net Height	272 mm
Product Net Weight	15.5 kg

Technical

Number of Main Contacts NO	4
Number of Main Contacts NC	0
Number of Auxiliary Contacts NO	2
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 800 A
Rated Operational Current AC-1 (I_e)	(1000 V) 40 °C 800 A (1000 V) 60 °C 650 A (1000 V) 70 °C 575 A (690 V) 40 °C 800 (690 V) 55 °C 650 (690 V) 60 °C 650 A (690 V) 70 °C 575
Rated Operational Current AC-3 (I_e)	(440 V) 55 °C 550 A (500 V) 55 °C 550 A (690 V) 55 °C 550 A (1000 V) 55 °C 175 A (380 / 400 V) 55 °C 550 A (220 / 230 / 240 V) 55 °C 550
Rated Operational Power AC-3 (P_e)	(415 V) 315 kW (440 V) 315 kW (500 V) 400 kW (690 V) 500 kW (1000 V) 35 kW (380 / 400 V) 280 kW (220 / 230 / 240 V) 160 kW
Rated Breaking Capacity AC-3 acc. to IEC 60947-4-1	8 x I_e AC-3
Rated Making Capacity AC-3 acc. to IEC 60947-4-1	10 x I_e AC-3
Short-Circuit Protective Devices	gG Type Fuses 800 A
Rated Short-time Withstand Current (I_{cw})	at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 5300 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 1000 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 3000 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 5500 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 3700 A
Maximum Electrical Switching Frequency	(AC-1) 300 cycles per hour (AC-2 / AC-4) 120 cycles per hour (AC-3) 300 cycles per hour
Rated Insulation Voltage (U_i)	acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V 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 $\theta \leq 70^\circ\text{C}$)
Rated Control Circuit Voltage (U_c)	DC Operation 48 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

Technical UL/CSA

General Use Rating UL/CSA	(600 V AC) 540 A
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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	3000 m
RoHS Status	Following EU Directive 2011/65/EU

Certificates and Declarations (Document Number)

CQC Certificate	CQC2003010304094982
Declaration of Conformity - CCC	2020980304001264
Declaration of Conformity - CE	2CMT2015-005442
Environmental Information	1SFC101013D0201
Instructions and Manuals	5309660-30
RoHS Information	2CMT2016-005882

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	17.2 kg
Package Level 1 EAN	7320500002223

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 Code (IGCC)	4755 >> Contactors

Categories

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

