



Electric Automation
Automation specialists

Reference: EK370-40-21

Code: SK827040-DT

EK370-40-21 60V DC Contactor

Buy it at Electric Automation Network



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

EAN:	7320500051672
Minimum Order Quantity:	1 piece
Customs Tariff Number:	85364900

Dimensions

Product Net Width:	300 mm
Product Net Depth:	270 mm
Product Net Height:	225 mm
Product Net Weight:	17.5 kg

Container Information

Package Level 1 Units:	1 piece
Package Level 1 Width:	355 mm
Package Level 1 Length:	340 mm
Package Level 1 Height:	240 mm
Package Level 1 Gross Weight:	19.2 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:	2
Rated Operational Voltage:	Main Circuit 1000 V
Conventional Free-air Thermal Current (I_{th}):	acc. to IEC 60947-4-1, Open Contactors $\theta = 40\text{ °C}$ 550 A
Rated Operational Current AC-1 (I_e):	(690 V) 55 °C 470 A (690 V) 40 °C 550 A (690 V) 70 °C 400 A
Rated Operational Current AC-3 (I_e):	(1000 V) 55 °C 155 A (220 / 230 / 240 V) 55 °C 400 A (690 V) 55 °C 370 A (440 V) 55 °C Q55C415V:370 A (440 V) 55 °C 400 A (380 / 400 V) 55 °C 400 A (500 V) 55 °C 370 A
Rated Operational Power AC-3 (P_e):	(500 V) 250 kW (1000 V) 220 kW (690 V) 355 kW (220 / 230 / 240 V) 110 kW (380 / 400 V) 200 kW (440 V) 220 kW (415 V) 220 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 630 A
Rated Short-time Withstand Current (I_{cw}):	at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 3700 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 10 s 5300 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 1 min 3000 A
Maximum Electrical Switching Frequency:	AC-3 300 cycles per hour AC-1 300 cycles per hour AC-2 / AC-4 120 cycles per hour
Rated Insulation Voltage (U_i):	acc. to UL/CSA 600 V 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 $\theta \leq 70\text{ °C}$) °C
Rated Control Circuit Voltage (U_c):	DC Operation 60 V
Coil Consumption:	Pull-in at Max. Rated Control Circuit Voltage 60 Hz 4000 V·A Holding at Max. Rated Control Circuit Voltage 50 Hz 140 V·A Pull-in at Max. Rated Control Circuit Voltage 50 Hz 3500 V·A Holding at Max. Rated Control Circuit Voltage 60 Hz 125 V·A

Operate Time:	Between Coil Energization and NO Contact Closing 30... 60 ms Between Coil De-energization and NO Contact Opening 13...23 ms Between Coil De-energization and NC Contact Closing 10...20 ms Between Coil Energization and NC Contact Opening 25... 55 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:	Screw Terminals

Environmental

Ambient Air Temperature:	Close to Contactor Fitted with Thermal O/L Relay (0.85 ... 1.1 Uc) -25...+55 °C Close to Contactor without Thermal O/L Relay (0.85 ... 1.1 Uc) -40...+70 °C Close to Contactor for Storage -50...+70 °C
Maximum Operating Altitude Permissible:	3000 m
RoHS Status:	Following EU Directive 2002/95/EC August 18, 2005 and amendment

Technical UL/CSA

General Use Rating UL/CSA:	(600 V AC) 420 A
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Certificates and Declarations (Document Number)

Declaration of Conformity - CE:	1SFA1-27
RoHS Information:	1SFC101035D0202

Classifications

ETIM 5:	EC000066 - Magnet contactor, AC-switching
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