



Catalog #: 100S-E09QJ431C
IEC 9 A Safety Contactor

Lifecycle status: ACTIVE

Technical Specifications

Mechanical

Number of normally open contacts as main contact	4
Number of normally closed contacts as main contact	0
Number of auxiliary contacts as normally open contact	3
Number of auxiliary contacts as normally closed contact	1
Vibration resistance	IEC 60068-2-6
Shock resistance	IEC 60068-2-27
Altitude, max	3000 m of installation site
Switching frequency, max	600 ops/hr, AC-1
Weight	AC/DC (electronic): 0.43 kg (0.95 lbs.)
Protection class	Contactor main contact: IP2X

Electrical

Voltage type for actuating	DC
Rated control supply voltage at DC	0 V
Type of electrical connection of main circuit	Screw connection
Rated impulse voltage withstand (Uimp)	6 kV
Operating time, closing delay	27 ms
Operating time, opening delay	17 ms

High energy efficient coil, pick-up	6 W @ 24V DC
High energy efficient coil, hold-in	1.7 W @ 24V DC
Main current circuit resistance	0.41 mΩ
Rated isolation voltage (Ui)	690V per IEC
Function	Non-reversing safety contactor
General purpose current (enclosed)	13.8 A @ 600V per UL/CSA
Power dissipation	0.8 W per pole at Ie, AC-1, 400V
Short time withstand (Icw)	3-pole: 80 A for 30 s (40 °C)
FLA	20 A @ 600V, 3-phase per UL/CSA HVAC applications
Rated operational current and power (enclosed)	9.5 A @ 125V DC, with 3-poles in series per UL/CSA
LRA	80 A @ 550-600V AC, 3-phase per UL/CSA HVAC applications
Electromagnetic compatibility	IEC 60947-1 - Environment A and B (100-E09...E38 only.)
Total power dissipation	2.3 W at Ie, AC-3, 400V, AC/DC control (120-250V)
Operating limits, dropout	(≤0.60) x Us @ DC control
Rating for switching AC motors	3-poles: 7.5 Hp @ 575V, AC-2, AC-3 (60 Hz)
Operating limits, pick-up	(0.85...1.1) x Us @ 50/60 Hz
MCCB current rating	Type 2 (per IEC 60947-4-1): 28 A @ 400V, 70 kA available fault current
DIN fuses (gG) current rating	Type 2 (per IEC 60947-4-1): 6 A @ 690V, 60 kA available fault current
Rated voltage (Ue)	24V, 48V, 110V, 220V, 440V DC
Rated operational current and power	5.8 A @ 115V AC, 500000 electrical operations, 1-phase per UL/CSA elevator duty
Switching of lighting loads	Tungsten lamps: 20 A @ 600V, 3-phase (break all lines) per UL/CSA
UL class RK5 fuses rating	Type 1 Combination (per UL 60947 and CSA 22.2 No. 14): 30 A @ 600V, 5 kA available fault current
Rated operational current (Ie)	9.5 A @ 500V, Star-Delta starting (50 Hz)
UL class J and CSA HRCI-J fuses rating	Type 1 Combination (per UL 60947 and CSA 22.2 No. 14): 30 A @ 600V, 100 kA available fault current
UL inverse-time circuit breaker	Type 1 Combination (per UL 60947 and CSA 22.2 No. 14): 60 A @ 600V, 5 kA available fault current
Switching of power transformers	Apparent power: 8 kVA @ 415V, AC-6a, 50 Hz (n = 30)

Rated operational power (Pe)	9 kW @ 240V, AC-1 active power load (50/60 Hz), ambient temperature 70 °C (158 °F)
Switching of DC loads	4-poles in series: 6 A @ 440V (Shunt-wound motors starting, reverse current breaking, reversing, stepping DC-3 at 60 °C)
Optional accessories	Side-mount auxiliary contacts, Mechanical interlocks
Features	Mirror contact performance on auxiliary contacts, Red N.C. low-power auxiliary contacts used for feedback circuit, SUVA third-party certification, AC/ DC operating coils, Mirror contact symbol on front

Environmental

Climatic withstand	Category B according to IEC 60947-1, annex Q
Ambient temperature	Storage: -60...80 °C (-76...176 °F)

Certification

Coil insulation class	Class F per IEC 60947-4-1
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