



Catalog #: 100-E12QJ10 Preferred Availability

Contactor, IEC, 12 A, 24V DC Low Consumption, Fast Drop-Out,  
3 NO Poles, 1 NO 0 NC Auxiliary Contacts, Screw Terminals

Lifecycle status: ACTIVE

## Technical Specifications

### Mechanical

Number of auxiliary contacts as normally open contact	1
Number of auxiliary contacts as normally closed contact	0
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	24 V
Type of electrical connection of main circuit	Screw connection
Rated impulse voltage withstand (Uimp)	6 kV
Operating time, closing delay	27 ms
Optional overload relays	Electronic
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	0.46 mΩ
Rated isolation voltage (Ui)	690V per IEC
Function	Non-reversing contactor
General purpose current (enclosed)	16 A @ 600V per UL/CSA
Power dissipation	1 W per pole at Ie, AC-1, 400V
Short time withstand (Icw)	3-pole: 80 A for 30 s (40 °C)
FLA	25 A @ 600V, 3-phase per UL/CSA HVAC applications
Rated operational current and power (enclosed)	9.6 A @ 220-240V, 3-phase per UL/CSA
LRA	150 A @ 440-480V, 3-phase AC per UL/CSA HVAC applications
Electromagnetic compatibility	IEC 60947-1 - Environment A and B (100-E09...E38 only)
Total power dissipation	2.6 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 kW @ 690V, AC-2, AC-3 (50 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 @ 400 V, 70 kA available fault current
DIN fuses (gG) current rating	Type 2 (per IEC 60947-4-1): 32 A @ 400 V, 100 kA available fault current
Rated voltage (Ue)	24, 48, 110, 220, 440V DC
Rated operational current and power	7.60 A @ 460V AC, 500000 electrical operations, 3-phase per UL/CSA elevator duty
Coil voltage	24V DC
Switching of lighting loads	Tungsten lamps: 25 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 A @ 690V, 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: 9 kVA @ 400V, AC-6a, 50 Hz (n = 30)
Rated operational power (Pe)	7.5 kW @ 690V, AC-2, AC-3 switching of 3-phase motors (50

Hz), ambient temperature 60 °C (140 °F)

Switching of DC loads

3-poles in series: 27 A @ 220V (Shunt-wound motors-starting, reverse current breaking, reversing, stepping: DC-3 at 60 °C)

Optional accessories

Side-or front-mount auxiliary contacts, Mechanical interlocks, Connecting bars

Features

Panel mounting or mounting on 35 mm DIN rail, AC/DC electronic coil, Made of environmentally friendly materials

Environmental

Climatic withstand

Category B according to IEC 60947-1, annex Q

Ambient temperature

Storage: -60 °C...80 °C (-76 °F...176 °F)

Certification

Coil insulation class

Class F per IEC 60947-4-1



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