

KILOVAC EV100 Series Contactor With 1 Form X Contacts Rated 100 Amps Continuous, 600 Vdc

Product Facts

- Hermetically sealed
- Operates in explosive/ harsh environments without oxidation or contamination of contacts, during long periods of non-operation
- 8kV isolation between open contacts permits use for high voltage isolation and carry
- Coil economizer allows for operation between 9-36 VDC
- Designed and built in accordance with AS 9100



Description

Low cost, 600 Vdc, 100 amp, hermetically sealed DC contactor

Economized coil for low power consumption between 9-36 VDC

Bottom mount, not position sensitive

One million cycle mechanical life

Applications

Power/motor control circuit isolation, circuit protection and safety in industrial machinery

Automotive battery switching and backup

Solar inverter switching

Automotive pre-charge

Test Equipment

Power distribution

Electrical

Contact arrangement: SPST-NO (Form X., Double Make)

Voltage rating: 5-600 Vdc at 100 Amps

50K cycles Make/Break: 50 Amps at 400 Vdc

25K cycles Make/Break: 50 Amps at 600 Vdc

Holding current: 0.15 Amps at 24 Vdc

Operate time: 30 ms max.

Physical or Other Properties

Hermetically sealed

Safe for harsh/corrosive environments

No contact oxidation over periods of non-use

Mechanical

Small size: 1.5" x 1.5" approximately

Weight: 130 grams

Performance Data

Physical Data

Contact Arrangement, Main Contacts — SPST-NO (Form X)

Dimensions — See drawings on next

Weight — 4.58 oz (130g)

Electrical Data

Voltage Rating, Main Contacts Switching (Max) — 750VDC

Current Rating, Main Contacts

Switching — Continuous 1 — 100A

Short Term, 3 Minutes ² — 200A

Contact Voltage Drop, Main Contacts — 0.05 max @ rated current

Resistive Load Performance (polarity sensitive) —

50A make/break @ +400Vdc — 50,000 cycles

50A make/break @ +600Vdc — 25,000 cycles

100A make/break @ +400Vdc — 6,000 cycles

100A make/break @ +600Vdc — 5,000 cycles

100A make/break @ -400Vdc — 1,000 cycles

100A make/break @ -600Vdc — 25 cycles

200A make/break @ +400Vdc — 500 cycles

200A make/break @ +600Vdc — 200 cycles

1,000A break only @ +400Vdc —

600A break only @ +600Vdc — 5 cycles 600A make only — 10 cycles

Maximum Short Circuit Current (1/2 cycle, 60 Hz) — 1,250A (through closed contacts)

Dielectric Withstand Voltage — Between Open Contacts — 2,2000Vrms

Contacts to Coil — 1,500Vrms/4,000Vdc Insulation Resistance, Terminal to

Terminal / Terminals to Coil — When New — 100 megohms, min.

@ 500Vdc At End of Life — 50 megohms, min. @ 500Vdc

Mechanical Life — 106

Operate & Release Time

Operate Time Max. — 30ms

Operate Bounce Max. — 5ms

Release Time — 10ms

Environmental Data

Shock, 11ms 1/2 sine (operating)
— 20G peak

Sine Vibration, 20G peak — 55-2,000 Hz.

Operating Temperature Range -40°C to $+85^{\circ}\text{C}$

Noise Emission (at 100 mm distance) — 70dB(a)

Notes

- 1 8.4mm² conductor. Current rating is affected by conductor size. Keep terminals below 150°C max. continuous.
- ² 3 minutes at +40°C ambient, 1 minute at -80°C ambient with 8.4mm² (#8 AWG) conductor.

For factory-direct application assistance, dial 800-253-4560, ext. 2055, or 805-220-2055.

KILOVAC High Voltage DC Contactors

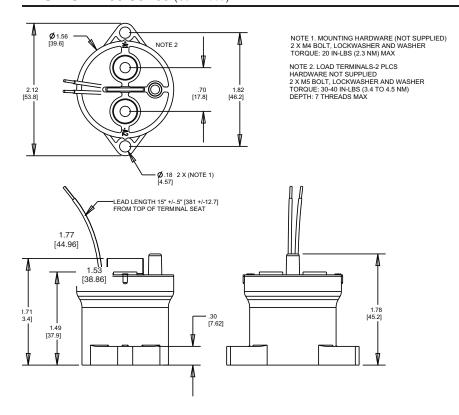
Catalog 5-1773450-5



KILOVAC EV100 Series (Continued)

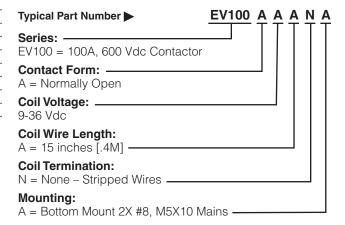
Outline Dimensions

Bottom Mount



Coil Data (Internal Coil Economizer)	
Coil Voltage Range	9-32 Vdc
Maximum Pickup Current (20°C)	1.5A
Average Holding Current (20°C)	0.25A@12Vdc/0.15A@24Vdc
Pickup Voltage (20C)	≥ 9Vdc
Dropout Voltage	≤ 8Vdc
Pickup Pulse (max.)	100 ms
Coil Resistance +/-5% (20°C)	Ω 0.8
Coil Economizer Frequency	19.6 kHz
Coil Power Typ. (over temp range)	3-4W

Ordering Information



Specifications are subject to change without notice.

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单击下面可查看定价,库存,交付和生命周期等信息

>>TE Connectivity(泰科)