

## KILOVAC EV100 Series Contactor With 1 Form X Contacts Rated 100 Amps Continuous, 400 Vdc

### Product Facts

- Lowest cost, smallest 100A hermetically sealed contactor in the industry
- Bottom mount - not position sensitive
- Hermetically sealed - intrinsically safe. Operates in expositive/harsh environments without oxidation or contamination of contacts, including long periods of non-operation
- Typical applications include automotive battery switching and backup, power/motor control circuit isolation, circuit protection and safety
- 9-36 Vdc coil, internal coil economizer included



### Physical Data

**Contact Arrangements** —  
Main Contacts — SPST-NO (form X)  
**Dimensions** — See drawing  
**Weight, Nominal** — 4.58 oz (130g)

### Environmental Data

**Shock, 11ms 1/2 Sine (Operating)** — 20 G<sub>peak</sub>  
**Sine Vibration, 20 G<sub>peak</sub>** —  
55-2000 Hz  
**Noise Emission (at 100 mm distance)** — 70dB(a)  
**Operating Temperature Range** —  
-40°C to +85°C

### Electrical Data

**Voltage Rating** —  
Main Contacts (Max) — 750 Vdc  
**Current Rating, Continuous** —  
Main Contacts — 100A  
Short Term - 3 mins. — 200A  
**Contact Voltage Drop** —  
Main Contacts — 0.05 max @ rated current  
**Resistive Load Performance (Positive Polarity)** —  
50A make/break @ +400Vdc —  
50,000 cycles  
100A make/break @ +400Vdc —  
6,000 cycles  
100A make/break @ -400Vdc —  
1,000 cycles  
200A make/break @ +400 Vdc —  
500 cycles  
1,000A break only @ +400 Vdc —  
5 cycles  
600A make only — 10 cycles  
**Mechanical Life (Min)** —  
1 million cycles  
**Dielectric Withstand Voltage** —  
Between Open Contacts — 2,200 Vrms  
Contacts to Coil — 1,500 Vrms/4,000 Vdc

### Maximum Short Circuit Current (1/2 cycle, 50 Hz)

(through closed contacts) — 1,250 A

### Insulation Resistance

Terminal to Terminal/ Terminals to Coil —  
100MΩ min @ 500Vdc new  
50MΩ min @ 500Vdc end of life

### Coil Data

**Coil Voltage Range** — 9-36 Vdc  
**Max. Pickup Current (20°C)** —  
1.5 A  
**Avg. Hold Current (20°C)** —  
0.25@12 Vdc/0.15@24 Vdc  
**Pickup Voltage (20°C)** —  
≥9 Vdc  
**Dropout Voltage (20°C)** —  
≤ 8 Vdc  
**Pickup Pulse (Max)** —  
100 ms  
**Coil Resistance ± 5% (20°C)** —  
8.0 Ω  
**Coil Economizer Frequency** —  
19.6 kHz  
**Coil Power Typ (over temp range)** —  
3-4 W  
**Main Contacts** —  
Operate time (max.) - 30 ms  
Operate bounce (max) - 5 ms  
Release time - 10 ms

### Ordering Information

#### Typical Part Number ►

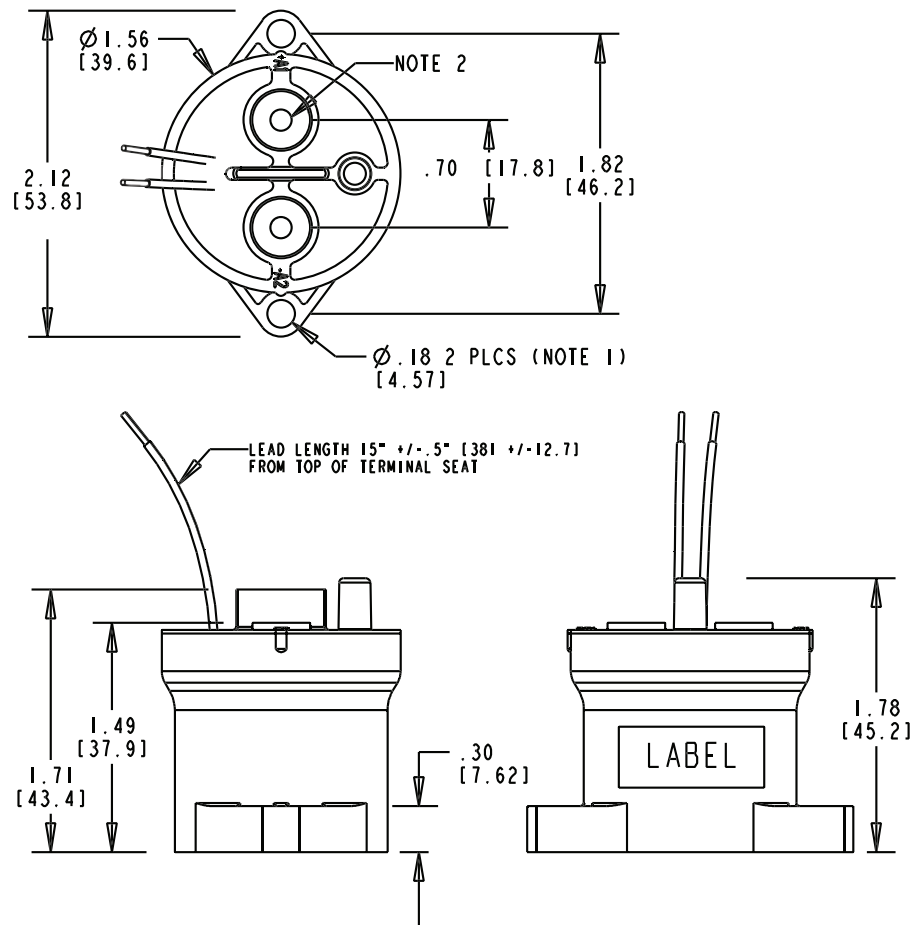
**Series:** EV100 = 100A, 400 Vdc Contactor  
**Contact Form:** A = Normally Open  
**Coil Voltage:** A = 9-36 Vdc  
**Coil Wire Length** A = 15 in. (.4 m)  
**Coil Terminal Connector:** N = None - Stripped Wires  
**Mounting & Power Terminations:** A = Bottom Mount (2 x #8); M5 x10

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

**KILOVAC EV100 Series** (Continued)

**Outline Dimensions**

**Bottom Mount**



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