

## KILOVAC EV200P Series Latching Contactor With 1 Form X (SPST Latch) Contacts Rated 500+ Amps, 12-900 Vdc

### Product Facts

- Latching version of popular EV200 Series
- Designed to be the smallest, lowest cost, lightest weight sealed contactor in the industry at its current rating
- Optional auxiliary contacts for monitoring position of power contacts
- Hermetically sealed — operates in explosive/harsh environments with no oxidation or contamination of coil or contacts during long periods of non-operation
- Not position sensitive, can be mounted in any orientation
- RoHS versions available



### Physical Data

**Contact Arrangements** — Main Contacts — SPST, Latching  
Auxiliary Contacts 1 — Up to 2 Form A

**Dimensions** — See drawing

**Weight, Nominal** — .95 lb. (.43 kg)

### Environmental Data

**Shock, 11ms 1/2 Sine (Operating)** — 30 G<sub>peak</sub>

**Sine Vibration, 20 G<sub>peak</sub>** — 55-2000 Hz

**Random Vibration, 14.06 Grms** — 15 Hz (.002 G<sup>2</sup>/Hz), 100 Hz (.002 G<sup>2</sup>/Hz), 450 Hz (.12 G<sup>2</sup>/Hz), 900 Hz (.12 G<sup>2</sup>/Hz), 2000 Hz (.083 G<sup>2</sup>/Hz)

**Operating Temperature Range** — -40°C to +85°C

### Electrical Data

**Voltage Rating** — Main Contacts (Max) — 750 Vdc

**Current Rating, Continuous** — Main Contacts 2 — 500A

**Contact Resistance** — Main Contacts 3 — 0.2 mΩ max above 300A  
0.3 mΩ max between 50 and 300A

**Hot Switching Performance (Positive Polarity) 4** — 200A make/ break @ 270Vdc — 10,000 cycles  
600A make/ break @ 360Vdc — 100 cycles  
800A break only @ 360Vdc — 15 cycles  
2000A break only @ 360Vdc — 1 cycle

**Mechanical Life (Min)** — 1 million cycles

**Dielectric Withstand Voltage** — Terminal to Terminal/ Terminals to Coil — 1mA max @ 2,200 Vrms

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

### Coil Data 5

**Nominal Coil Voltage 6** — 12 Vdc

**Pick Up/Latch (Max) @ 25°C** — 9 Vdc

**Hold (Min)** — N/A

**Reset (Max)/Dropout (Min)** — 9 Vdc

**Duty Cycle, Max 7** — 20%

**Coil Resistance @ 25°C** — 2.5 Ω

**Operate Specs @ 25°C** —

Operate Time (Typ) — 15 ms

Operate Bounce (Max) — 7 ms

Release Time (Max) — 15 ms

### Notes:

<sup>1</sup> Product can be configured alternately with form B or C auxiliary switches if required. This changes the product part number, depending on specific auxiliary configuration. Consult TE for availability and part number

<sup>2</sup> Ambient conditions and conductor design affect rating. Terminal temperature rise should be 75°C max above ambient. Keep relay terminals below 150°C max continuous, 175°C max for two hours, and 200°C for 1 minute.

<sup>3</sup> Stabilized reading. Contact resistance may exceed spec in the first 10 minutes of current carry.

<sup>4</sup> Units are polarity sensitive. Approximately 50% de-rating for reverse polarity switching. Consult factory for review of specific requirements.

<sup>5</sup> Over temperature range unless noted. Suggested coil pulse = 50-100 ms.

<sup>6</sup> 24V and 48V coils available on request — consult factory.

<sup>7</sup> Intermittent Duty Coil. Coil overheating can occur if duty cycle is exceeded. Limit average coil power to 10W maximum.

### Ordering Information

Typical Part Number ►

**EV200 P 4 A N A**

**Series:** EV200 = 500+ Amp, 12-900VDC Contactor

**Contact Form:** P = Latching  
F = Latching with 1 SPDT Aux.

**Coil Voltage:** 4 = 12 Vdc  
5 = 24 Vdc  
6 = 48 Vdc

**Coil Terminations:** A = 15.3 in. (300 mm)

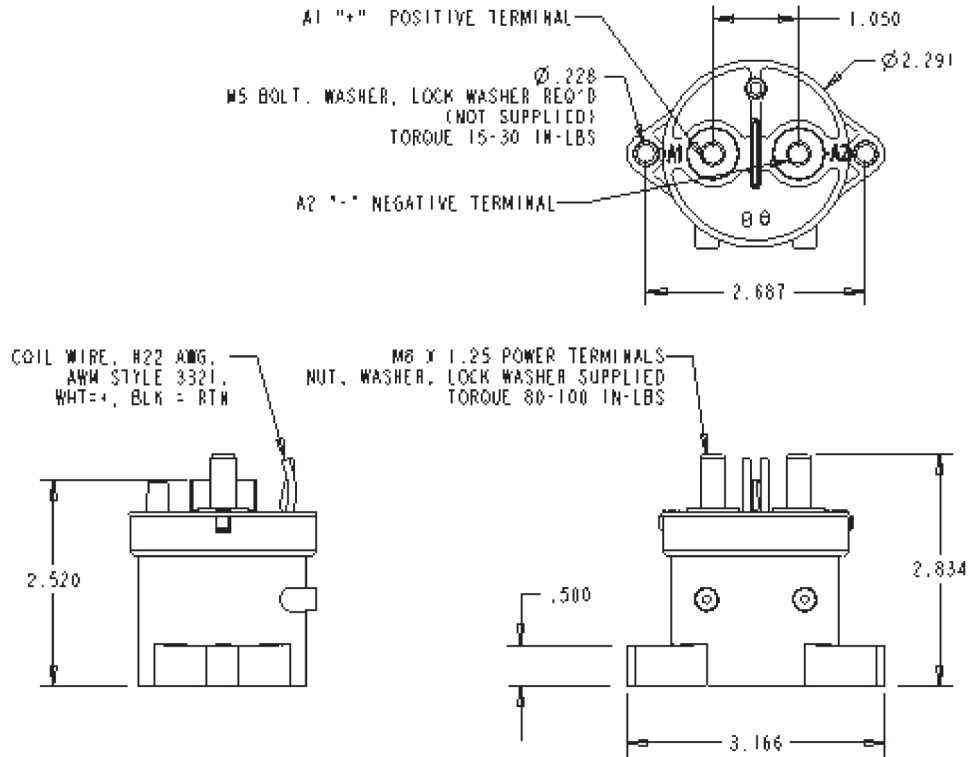
**Coil Termination Connector:** N = None

**Mounting & Power Terminals:** A = Bottom Mount & Male 10mm x M8 Threaded Terminals

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

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**Outline Dimensions**



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