

## 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)** — 75,000 cycles

**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:

- 1 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
- 2 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.
- 3 Stabilized reading. Contact resistance may exceed spec in the first 10 minutes of current carry.
- 4 Units are polarity sensitive. Approximately 50% de-rating for reverse polarity switching. Consult factory for review of specific requirements.
- 5 Over temperature range unless noted. Suggested coil pulse = 50-100 ms.
- 6 24V and 48V coils available on request — consult factory.
- 7 Intermittent Duty Coil. Coil overheating can occur if duty cycle

### Dielectric Withstand Voltage

Terminal to Terminal/ Terminals to Coil — 1mA max @ 2,200 Vrms

### Insulation Resistance

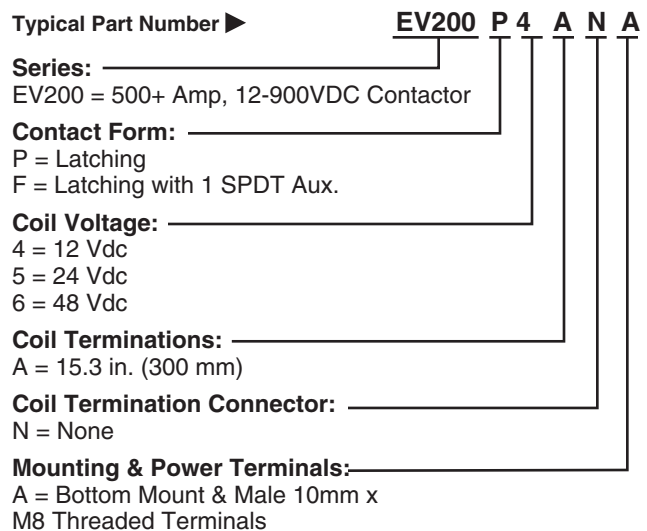
Terminal to Terminal/ Terminals to Coil — 100MΩ min @ 500Vdc new  
 50MΩ min @ 500Vdc end of life

### Coil Data 5

**Nominal Coil Voltage** 6 — 12 Vdc

### Ordering Information

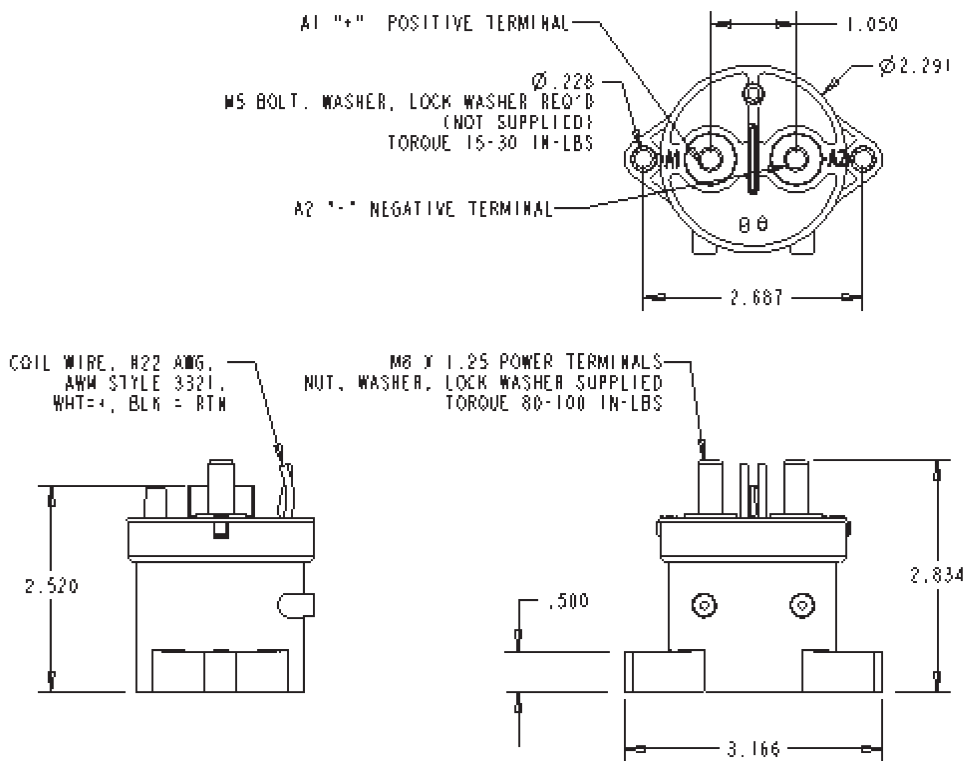
Typical Part Number ►



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

## KILOVAC EV200P Series Latching Contactor (Continued)

### Outline Dimensions



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