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_{peak}

Sine Vibration, 20 G_{peak} — 55-2000 Hz

Random Vibration, 14.06 Grms — 15 Hz (.002 G^2/Hz), 100 Hz (.002 G^2/Hz), 450 Hz (.12 G^2/Hz), 900 Hz (.12 G^2/Hz), 2000 Hz (.083 G^2/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:

[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 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.

Catalog 5-1773450-5
Revised 3-13

www.te.com

Dimensions are shown for reference purposes only. Specifications subject to change.

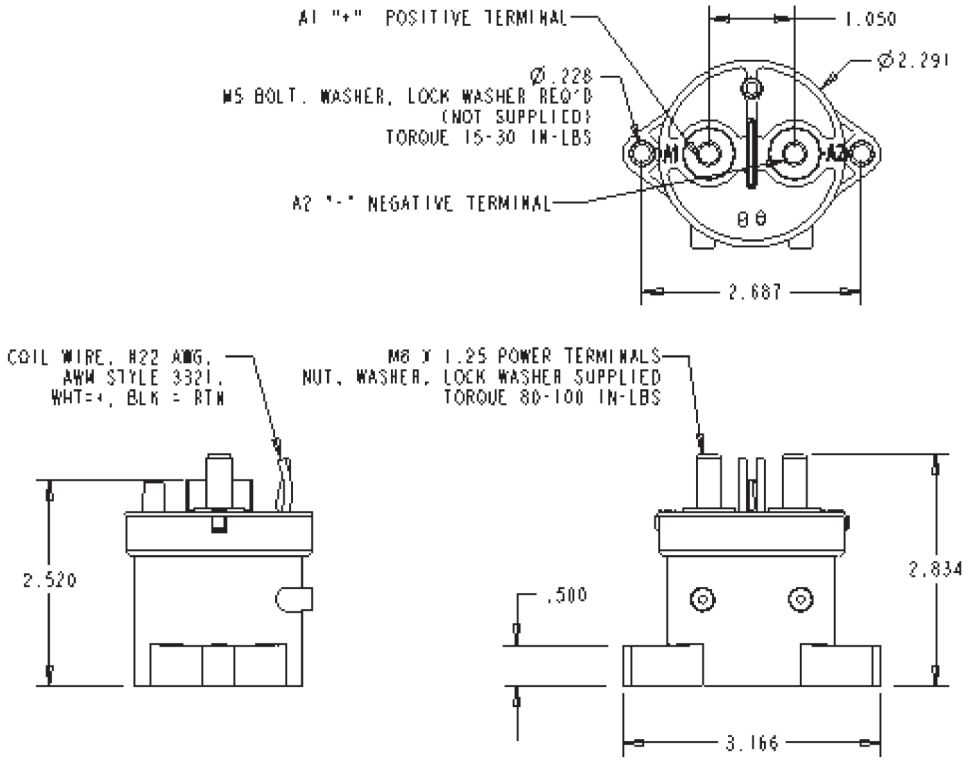
Dimensions are in millimeters unless otherwise specified.

USA: +1 800 522 6752
Asia Pacific: +86 0 400 820 6015
UK: +44 800 267 666

For additional support numbers please visit www.te.com

KILOVAC EV200P Series Latching Contactor (Continued)

Outline Dimensions



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