

KILOVAC EV200B Series Contactor With 1 Form Y (SPST-NC) Contacts Rated 500+ Amps, 12-900 Vdc

Product Facts

- Normally closed version of popular EV200 series contactors
- 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 nonoperation
- Not position sensitive, can be mounted in any orientation
- RoHS versions available



Physical Data

Contact Arrangements —

Main Contacts — SPST, Normally Closed

Dimensions — See drawing

Weight, Nominal — .95 lb. (.43 kg)

Environmental Data

Shock, 11ms 1/2 Sine

(Operating) — 30 G_{peak} (Closed) 10 G_{peak} (Open)

Sine Vibration, 10 G_{peak}— 55-2000 Hz

Random Vibration, 7.1 Grms -

15 Hz (.001 G²/Hz), 100 Hz (.04 G²/Hz), 1000 Hz (.04 G²/Hz), 1500 Hz (.02 G²/Hz)

Operating Temperature Range – -40°C to +85°C

Electrical Data

Voltage Rating -

Main Contacts (Max) — 750 Vdc

Current Rating, Continuous —

Main Contacts 1 — 500A

Contact Resistance -

Main Contacts 2

 $0.2~\text{m}\Omega$ max above 300A $0.3~\text{m}\Omega$ max between 50 and 300A

Hot Switching Performance (Positive Polarity) 3 -

200A make/ break @ 270Vdc — 10,000 cycles

600A make/ break @ 360Vdc —

100 cycles

800A break only @ 360Vdc —

15 cycles

1500A 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 - $100M\Omega$ min @ 500Vdc new $50M\Omega$ min @ 500Vdc end of life

Coil Data 4

Nominal Coil Voltage 5 -

Low range — 9.6-14 Vdc High range — 19-28 Vdc

Pick Up (Max) @ 25°C — 9.6/18.5 Vdc

Pick Up @ Max Coil Temperature -10.5/22 Vdc

Hold (Min) — 6/12 Vdc

Dropout (Min) — 4/9 Vdc Pickup Current, Peak 6 @ 25°C —

Operate Specs @ 25°C —

Operate Time (Typ) — 15 ms Operate Bounce (Max) — 5 ms Release Time (Typ) - 15 ms

Economizer Operating Frequency — 18 kHz

Hold Current —

0.9A/12 Vdc 0.3A/24 Vdc

Notes:

- ¹ 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.
- Stabilized reading. Contact resistance may exceed spec in the first 10 minutes of current carry.
- ³ Units are polarity sensitive. Approximately 50% de-rating for reverse polarity switching. Consult factory for review of specific requirements.
- ⁴ Over temperature range unless noted.
- 5 Voltage ranged sensed by contactor 10 ms after application of source voltage.
- ⁶ Pickup duration 100 ms.

Ordering Information

Typical Part Number EV200 B A A N A Series: EV200 = 500+ Amp, 12-900VDC Contactor Contact Form: B = Normally Closed D = Normally Closed, 1 SPDT Aux. Coil Voltage (with Economizer): -A = 12/24 Vdc**Coil Terminals:** A = 15.3 in. (300 mm)Coil Terminal Connector: _ N = None**Mounting & Power Terminations:**

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

KILOVAC High Voltage

A = Bottom Mount & Male 10 Max. M8

Threaded Terminals



KILOVAC EV200B Series Contactor (Continued)

Outline Dimensions

