

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 non operation
- 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 $+85^{\circ}\text{C}$

Electrical Data

Voltage Rating -

Main Contacts (Max) — 750 Vdc

Current Rating, Continuous —

Main Contacts 1 — 500A

Contact Resistance -

Main Contacts 2 — 0.2 m Ω max above 300A

0.2 m Ω max above 300A 0.3 m Ω 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.
- 2 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

