

## KILOVAC EV200 Series Contactor With 1 Form X (SPST-NO) Contacts Rated 500+ Amps, 12-900 Vdc

### Product Facts

- Designed to be the smallest, lightest weight, lowest cost sealed contactor in the industry with its current rating (500+A carry, 2000A interrupt at 320VDC)
- Built-in coil economizer — only 1.7W hold power @ 12VDC and it limits back EMF to 0V. Models requiring external economizer also available
- Optional auxiliary contact for easy monitoring of power contact position
- Hermetically sealed — intrinsically safe, operates in explosive/harsh environments with no oxidation or contamination of coil or contacts, during long periods of non-operation
- Versatile coil/power connections
- UL Recognized for the U.S. and Canada (File E208033) All contact ratings & coil versions may not be UL Recognized
- CE marked for EC applications
- AIAG QS9000 designed, built and approved
- RoHS versions available



EV200 Series Contactor  
(CZONKA Relay, Type)

| Coil Operating Voltage (Valid Over Temperature Range) |                             |             |             |
|-------------------------------------------------------|-----------------------------|-------------|-------------|
| Voltage (Will Operate)                                | 9-36VDC                     | 32-95VDC    | 48-95VDC    |
| Voltage (Max.)                                        | 36VDC                       | 95VDC       | 95VDC       |
| Pickup (Close) Voltage Max.                           | 9VDC                        | 32VDC       | 48VDC       |
| Hold Voltage (Min.)                                   | 7.5VDC                      | 22VDC       | 34VDC       |
| Dropout (Open) Voltage (Min.)                         | 6VDC                        | 18VDC       | 27VDC       |
| Inrush Current (Max.)                                 | 3.8A                        | 1.3A        | 0.7A        |
| Holding Current (Avg.)                                | 0.13A @ 12V,<br>0.07A @ 24V | 0.03A @ 48V | 0.02A @ 72V |
| Inrush Time (Max.)                                    | 130ms                       | 130ms       | 130ms       |

### Ordering Information

Typical Part Number ▶

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

Contact Form: A A A N A  
 A = Normally Open  
 H = Normally Open with NO Aux. Contacts  
 G = Normally Open with NC Aux. Contacts <sup>4</sup>

Coil Voltage: A  
 A = 9-36VDC (1 = requires external coil economizer)  
 D = 32-95VDC (2 = requires external coil economizer)  
 J = 48-95VDC (3 = requires external coil economizer)  
 R = 28VDC with Mechanical Economizer

Coil Wire Length: A  
 A = 15.3 in (390 mm)

Coil Terminal Connector: N  
 N = None  
 C = Molex Mini-fit Jr, 2 Skt, Female 18-24,  
 P/N 39-01-2020 & 39-00-0060 +red is pin 1  
 (A length only)

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

### Performance Data

Contact Arrangement, Power Contacts — 1 Form A (SPST-NO)

Rated Operating Voltage — 12 - 900 VDC

Continuous (Carry) Current, Typical — 500 A @ 85°C, 400 mcm conductors

Consult Factory for required conductors for higher (500+ A) currents

Make/Break Current at Various Voltages <sup>1</sup> — See graph next page

Break Current at 320VDC <sup>1</sup> — 2,000 A, 1 cycle <sup>3</sup>

Contact Resistance, Typ. (@200A) — 0.2 mohms

Load Life — See graph next page

Mechanical Life — 1 million cycles

Contact Arrangement, Auxiliary Contacts — 1 Form A (SPST-NO)

Aux. Contact Current, Max. — 2A @ 30VDC / 3A @ 125VAC

Aux. Contact Current, Min. — 100mA @ 8V

Aux. Contact Resistance, Max. — 0.417 ohms @ 30VDC / .150 ohms @ 125VAC

Operate Time @ 25°C — Close (includes bounce), Typ. — 15 ms  
 Bounce (after close only), Max. — 7 ms  
 Release (includes arcing), Max @ 2000A — 12 ms

Dielectric Withstanding Voltage — 2,200 Vrms @ sea level (leakage <1mA)

Insulation Resistance @ 500VDC — 100 megohms <sup>2</sup>

Shock, 11ms 1/2 Sine, Peak, Operating — 20 G

Vibration, Sine, 80-2000Hz., Peak — 20 G

Operating Ambient Temperature

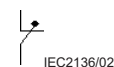
— -40°C to +85°C

Weight, Nominal — .95 lb. (.43 kg)

### Notes:

- <sup>1</sup> Main power contacts
- <sup>2</sup> 50 at end of life
- <sup>3</sup> Does not meet dielectric & IR after test, 1700 amp for unit with Aux. Contacts

- <sup>4</sup> Meets IEC 60947-4-1 Annex F Mirror Contact



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