

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, 0.07A@24V | 0.03A@48V | 0.02A@72V |
| Inrush Time (Max.) | 130ms | 130ms | 130ms |

Ordering Information

Typical Part Number ► **EV200 A A A N A**

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

Contact Form:
 A = Normally Open
 H = Normally Open with NO Aux. Contacts
 G = Normally Open with NC Aux. Contacts ⁴

Coil Voltage:
 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 = 15.3 in (390 mm)

Coil Terminal Connector:
 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 = 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 1** — See graph next page
 - Break Current at 320VDC 1** — 2,000 A, 1 cycle ³
 - 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 ²
 - 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:**
- 1 Main power contacts
 - 2 50 at end of life
 - 3 Does not meet dielectric & IR after test, 1700 amp for unit with Aux. Contacts
 - 4 Meets IEC 60947-4-1 Annex F Mirror Contact

IEC2136/02

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

7 KILOVAC High Voltage DC Contactors

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