## 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 OV. Models requiring extenal 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 coils or contacts, including long periods of nonoperation.
- Versatile coil/power connections.
- CE marked for EC applications.
- AIAG QS9000 designed, built and approved


Performance Data

| Parameter Units | Value for EV200 Series |
| :---: | :---: |
| Contact Arrangement, power contacts | 1 Form X (SPST-NO-DM) |
| Rated Operating Voltage VDC | 12-900 |
| Continuous (Carry) Current, Typical A Consult Factory for required conductors for higher | $500 @ 85^{\circ} \mathrm{C}, 400 \mathrm{mcm}$ conductors er $(500+A)$ currents |
| Make/Break Current at Various Voltages ${ }^{1 /} \mathrm{A}$ | See next page |
| Break Current at 320VDC ${ }^{1 /}$ A | 2,000, 1 cycle ${ }^{3 /}$ |
| Contact Resistance, Typ. (@200A) mohms | 0.2 |
| Load Life Cycles | See next page |
| Mechanical Life Cycles | 1 million |
| Contact Arrangement, auxiliary contacts | 1 Form A (SPST-NO) |
| Aux. Contact Current, Max. A | 2A@ 30VDC / 3A @ 125VAC |
| Aux. Contact Current, Min. mA | 100mA @ 8V |
| Aux. Contact Resistance, Max. ohms | 0.417 @ 30VDC / . 150 @ 125VAC |
| Operate Time @ $25^{\circ} \mathrm{C}$ |  |
| Close (includes bounce), Typ. ms | 15 |
| Bounce (after close only), Max. ms | 7 |
| Release (includes arcing), Max @ 2000A ms | 12 |
| Dielectric Withstanding Voltage Vrms | 2,200 @ sea level (leakage <1mA) |
| Insulation Resistance @ 500VDC megohms | $100^{21}$ |
| Shock, 11ms 1/2 sine, peak, operating G | 20 |
| Vibration, sine, 80-2000Hz., peak G | 20 |
| Operating Ambient Temperature ${ }^{\circ} \mathrm{C}$ | -40 to +85 |
| Weight, Nominal lb. ${ }^{\text {l }}$ (kg) | . 95 (.43) |

[^0]| 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.) | 130 ms | 130 ms | 130 ms |

## Part Numbering System


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Dimensions are in inches and millimeters unless otherwise specified. Values in brackets are metric equivalents.

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

KILOVAC EV200 Series (CZONKA ${ }^{\oplus}$ Relay, Type III) (Continued)

## Outline Dimensions



Estimated Make \& Break Power Switching Ratings


NOTES:

1) For resistive loads with 300 H maximum inductance. Consult factory for inductive loads.
2) Estimates based on extrapolated data. User is encouraged to confirm performance in application 3) End of life when dielectric strength between terminals falls below 50 megohms @ 500VDC.
3) The maximum make current is 650 A to avoid contact welding.

Electrical Load Life Ratings for Typical EV Applications

| Make/Break Life Capacitive \& Resistive Loads at 320VDC (1) (2) |  |  |
| :--- | :--- | :---: |
| @90\% capacitive pre-charge (make only) see chart below |  |  |
| Cycles | 50,000 |  |
| @80\% capacitive pre-charge (make only) see chart below | Cycles | 50 |
| @200A make/break (2 consecutive, reverse polarity) (1) | Cycles | 12 |
| $2,000 A$ (break only) (1) | Cycles | $1^{*}$ |
| Mechanical Life | Cycles | $\mathbf{1}$ million |

(1) Resistive load includes inductance $L=25 \mu \mathrm{H}$. Load @ 2500A tested @ $200 \mu \mathrm{H}$.
(2) Life based on projected Weibull Life with $95 \%$ teliability.

* Does not meet dielectric and IR after test.



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[^0]:    ${ }^{1}$ Main power contacts
    ${ }^{2} 50$ at end of life
    ${ }^{3 /}$ Does not meet dielectric \& IR after test, 1700 amp for unit with Aux. Contacts

