## 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 OV. 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 nonoperation

■ Versatile coil/power connections

- UL Recognized $\quad{ }_{\text {for }}$ Canada (File E208033) All contact ratings \& coil versions may not be UL Recognized
- CE marked for CE EC applications

■ AIAG QS9000 designed, built and approved

■ RoHS versions available


| 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.) | $\begin{aligned} & \hline 0.13 \mathrm{~A} @ 12 \mathrm{~V}, \\ & 0.07 \mathrm{~A} @ 24 \mathrm{~V} \end{aligned}$ | 0.03A@48V | 0.02A@72V |
| Inrush Time (Max.) | 130 ms | 130 ms | 130 ms |

## Ordering Information

Typical Part Number
Series:
EV200 $=500+$ Amp, 12-900VDC Contactor

## Contact Form:

$\qquad$
A = Normally Open
H = Normally Open with NO Aux. Contacts
G = Normally Open with NC Aux. Contacts

## Coil Voltage:

A = 9-36VDC ( 1 = requires external coil economizer)
D = 32-95VDC ( $2=$ requires external coil economizer)
$J=48-95 V D C \quad(3=$ requires external coil economizer)
R $=28 \mathrm{VDC}$ with Mechanical Economizer

## Coil Wire Length:

A = 15.3 in ( 390 mm )

## Coil Terminal Connector:

$\mathrm{N}=$ 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 — $500 \mathrm{~A} @ 85^{\circ} \mathrm{C}, 400 \mathrm{mcm}$ 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 @ $25^{\circ} \mathrm{C}$ -
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, $11 \mathrm{~ms} 1 / 2$ Sine, Peak, Operating - 20 G
Vibration, Sine, $80-2000 \mathrm{~Hz}$.,
Peak - 20 G
Operating Ambient Temperature -
$-40^{\circ} \mathrm{C}$ to $+85^{\circ} \mathrm{C}$
Weight, Nominal — . 95 lb . (. 43 kg )

## Notes:

1 Main power contacts
250 at end of life
3 Does not meet dielectric \& IR after test, 1700 amp for unit with Aux.
Contacts to change.

Dimensions are in millimeters unless otherwise specified.

## KILOVAC EV200 Series (CZONKA Relay, Type III) (Continued)

## Outline Dimensions



Estimated Make \& Break Power Switching Ratings


NOTES:

1) For resistive loads with 300 HH maximum inductance. Consult factory for inductive Ioads. 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 @ 500 VDC . 4) The maximum make current is 650 A to avoid contact welding.

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


805-220-2055.

