KILOVAC LEV100 Series 900 Vdc Contactor With 1 Form X Contacts Rated 100A Continuous

Product Facts

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 Hermetically sealed intrinsically safe.
Operates in explosive/harsh environments without oxidation or contamination of contacts, including long periods of non-operation

Electronics

- 8kV isolation between open contacts permits use for high voltage isolation and carry
- 12, 24 and 48 Vdc coils
- Designed and built in accordance to AIAG QS9000
- Not position sensitive, can be mounted in any orientation
- Solid copper contacts



Description

Lowest cost, 900 Vdc 100 amp, hermetically sealed DC contactor in the industry

Compact package available in side- or bottom-mount configurations, not position sensitive

Applications

Power/motor control circuit isolation, circuit protection and safety in industrial machinery

Automotive battery switching and backup

Mechanical

Compact epoxy-sealed resin enclosure occupies only about 4 in³ (65.5 cm³)

Robust integral mounting plate on either bottom or side of enclosure accepts two M4 screws

Inert gas filled contact chamber

Flying leads for coil connections

Load terminals threaded for M5 bolts (not included)

Performance Data

Physical Data Contact Arrangement, Main

Contacts — SPST-NO-DM (1 Form X) Dimensions — See drawings on next page

Weight — 6.7 oz (190g)

Contact Data

Contact Arrangement, Main Contacts — SPST-NO-DM (1 Form X) Voltage Rating, Main Contacts Switching (Max) — 900VDC

Current Rating, Main Contacts Switching —

Continuous 1 — 100A Short Term, 3 Minutes 2 — 200A

Hot Switching Performance (Polarity Sensitive) —

50A make/break @ +400Vdc — 50,000 cycles

100A make/break @ +400Vdc — 6,000 cycles

100A make/break @ -400Vdc — 1,000 cycles 200A make/break @ +400Vdc — 500

cycles

1,000A break only @ +400Vdc — 25 cycles

600A make only — 25 cycles Maximum Short Circuit Current

(1/2 cycle, 60 Hz) — 1,250A (through closed contacts) Dielectric Withstand Voltage ³ — Between Open Contacts — 5,600Vrms/8,000Vdc

Contacts to Coil — 2,000Vrms/4,000Vdc

Insulation Resistance, Terminal to Terminal / Terminals to Coil —

When New — 100 megohms, min. @ 500Vdc At End of Life — 50 megohms, min. @ 500Vdc

Mechanical Life — 1 million cycles

Operate & Release Time Operate Time Max. — 25ms Operate Bounce Max. — 5ms

Release Time — 10ms

Environmental Data

Shock, 11ms 1/2 sine (operating) — 20G peak Sine Vibration, 20G peak — 55-2,000 Hz.

Operating Temperature Range — -40°C to +85°C Noise Emission (at 100 mm distance) — 70dB(a)

Notes

- 1 8.4 mm² conductor. Current rating depends upon conductor size.
 Keep terminals below 175°C max continuous.
- ² 3 minutes at +40°C ambient with 8.4 mm² (#8 AWG) conductor.
- ³ 2,000Vrms minimum under all conditions, until end of life.

KILOVAC High Voltage DC Contactors

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

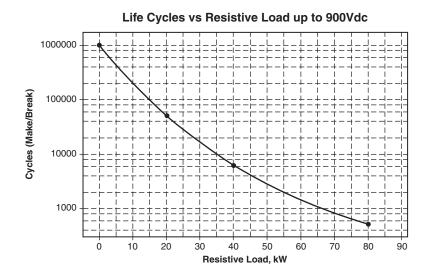
Catalog 5-1773450-5 Revised 9-08

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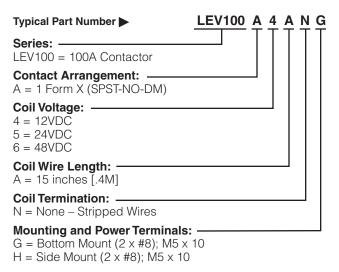
Dimensions are in inches and millimeters unless otherwise specified. Values in brackets are metric equivalents. Dimensions are shown for reference purposes only. Specifications subject to change. USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803 South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 44-8706-080-208 7–29

Coil Operating Voltage (Valid Over Temperature Range)				
Nominal Voltage	12Vdc	24Vdc	48Vdc	
Maximum Voltage	16Vdc	28Vdc	52Vdc	
Pick Up Voltage (20°C)	8Vdc	16Vdc	33Vdc	
Drop Out Voltage (20°C)	≤1.2Vdc	≤2.4Vdc	≤4.8Vdc	
Coil Current (Nominal at 20°C, 12vdc)	461mA	250mA	122mA	
Coil Power Nominal @ Vnom, +20°C	5.5W	6.0W	6.0W	
Pickup (Close) Voltage Max.@85°C	9.6Vdc	19.2Vdc	38.4Vdc	
Coil Resistance Nominal @ +20°C ± 5% (ohms)	26	96	392	

KILOVAC LEV100 Series 900 Vdc Contactor (Continued)



Ordering Information



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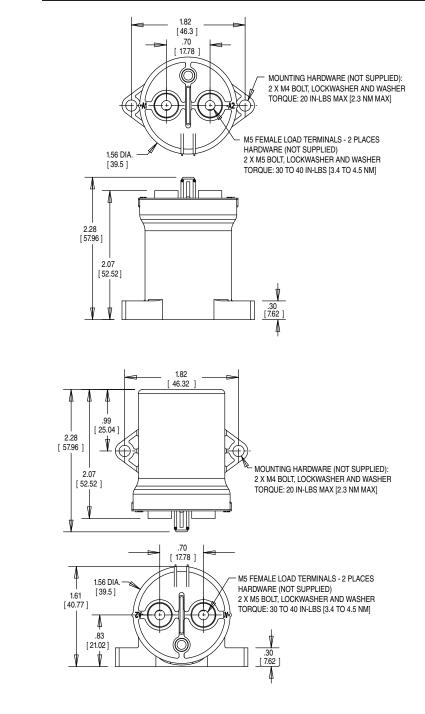
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KILOVAC LEV100 Series 900 Vdc Contactor (Continued)

Bottom Mount

Side Mount



Product Offering

Bottom Mount Models			
3-1618389-7	LEV100A4ANG	12Vdc coil	15" [.4m] leads
9-1618389-8	LEV100A5ANG	24Vdc coil	15" [.4m] leads
3-1618391-7	LEV100A6ANG	48Vdc coil	15" [.4m] leads
Side Mount Models			
4-1618391-0	LEV100A4ANH	12Vdc coil	15" [.4m] leads
4-1618391-1	LEV100A5ANH	24Vdc coil	15" [.4m] leads
4-1618391-2	LEV100A6ANH	48Vdc coil	15" [.4m] leads
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