



KILOVAC K250 HIGH VOLTAGE DC CONTACTOR

- Versatile industry leading performance
- Smaller size and lighter weight
- Bi-directional high power switching

KILOVAC K250 High Power DC Contactor

Sets a New Industry Standard Performance for Current Carry and Isolation Voltage Relative to Package Size and Weight



RUGGED

- Hermetically sealed
- Designed for harsh environments

SMALL SIZE/LIGHTWEIGHT

 Small and lightweight for its service ratings compared to other contactors on the market

VERSATILE

- Bi-directional power switching
- Auxiliary contacts

RELIABLE

- Continuous current carry 250 amps
- Isolation voltage 1000 Vdc

ENHANCED PERFORMANCE

• Electronic coil economization for increased low power holding capability TE Connectivity (TE)'s K250 high voltage DC contactor is hermetically sealed and designed for harsh environments. It is rated at 250 amps continuous, with an isolation voltage of 1000 Vdc, offering bi-directional power switching capability. Additional key features include an electronic coil economizer for low power holding capability, as well as auxiliary contacts in a smaller size, lighter weight package.

APPLICATIONS

- Power Distribution
- Alternative Energy
- Circuit Protection
- Energy and Battery Storage
- Motor Control Circuit Isolation

MARKETS

- Charging Systems
- Military and Commercial Ground Vehicle Power Systems
- Test Equipment

MATERIALS

- Contact Arrangement: Main Contacts SPST-NO (form X)
- Auxiliary Contacts (.1A/6Vdc 100 milliohm max): SPDT
- Weight, Nominal: 180g

MECHANICAL/ENVIRONMENTAL

- Shock, 11ms 1/2 sine (operating): 20G peak
- Sine Vibration, 15G_{pk}: 55-2000 Hz
- Operating Temperature Range: -40°C to +85°C
- Noise Emission (at 100mm distance): 70dB (a)

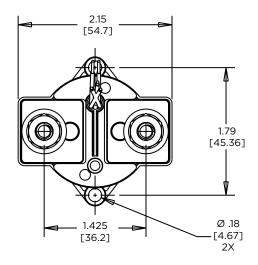
ELECTRICAL

- Voltage Rating Main Contacts (max): 1000 Vdc
- Current Rating, Continuous: Main Contacts [Note 1]: 250Δ
- Contact Voltage Drop: Main Contacts (max @250A): 85mV

• Resistive Load Performance:

100A make/break @ 600Vdc: 1000 cycles 150A make/break @ 400Vdc: 1000 cycles 250A break only @ 400Vdc: 100 cycles 250A break only @ 600Vdc: 50 cycles 1000A break only @ 400Vdc: 5 cycles 5 cycles 600A break only @ 600Vdc: 80A break only @1000Vdc: 3 cycles 600A make only: 25 cycles

- Maximum Short Circuit Current (1/2 cycle, 60 Hz) (through closed contacts or closure into load): 1250 A
- Mechanical Life: 100,000 cycles



Dielectric Withstand Voltage:

Between Open Contacts: 4250 Vdc Contacts to Coil: 4250 Vdc

Insulation Resistance (Terminal to Terminal/Terminals to Coil):

100 M Ω min @ 1000Vdc [new] 50 M Ω min @ 1000Vdc [end of life]

Notes: [1] 4/0 AWG/150 $\rm mm^2$ conductor. Current rating is affected by conductor size. Keep terminals below 150° C $\rm max$ continuous.

COIL (INTERNAL PWM COIL ECONOMIZER)

- Coil Voltage Range: 12-36 Vdc
- Max Pickup Current (20°C): 3.0A
- Average Holding Current (20°C): .28A @ 24Vdc
- Pickup Voltage (20°C): ≥12Vdc
- **Dropout Voltage:** ≤8Vdc
- Pickup Pulse (max): 100ms
- Coil Resistance +/-5% (20°C): 8.0Ω
- Coil Economizer Frequency: 19.6kHz
- Coil Power Typ. (over temp range): 5.2W
- Main Contacts:

Operate Time (max): 30ms Operate Bounce (max): 5ms

Release Time: 10ms

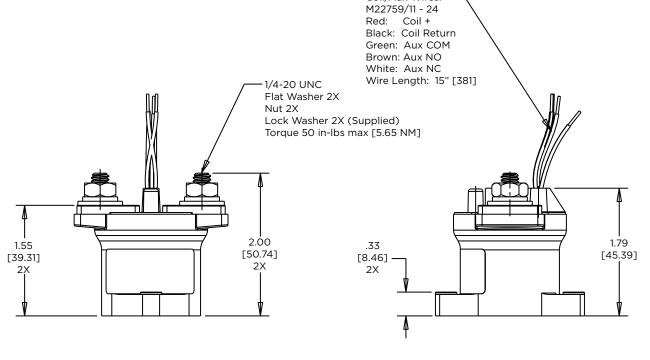
Aux Contacts Simultaneity WRT Mains: 5ms

ORDERING INFORMATION

Part Number: 1-1618414-2

Coil/Aux Wires:

Recommended Termination Lug: TE PN 2-36932-2



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KILOVAC K250 HIGH VOLTAGE DC CONTACTOR

TE Connectivity Aerospace, Defense & Marine 2900 Fulling Mill Road Middletown, PA 17057



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