DC Contactor Application and Analysis Sheet

Trombetta offers a variety of DC contactors. We also offer engineered products specifically designed to your application needs. In order to assure the correct Trombetta product selected is satisfactory or will require further changes, detailed information concerning your application is required.

A Trombetta representative will review this information with you.

We appreciate the opportunity to discuss your application needs.

DC Contactor ï An electro-mechanical relay that can switch high current from a battery to a load (motor, starter) or can be used as a main power relay.

General Project Information:

Company: _____

Name: _____Title: _____

Contacts Involved in Project/Approval: (purchasing agent, engineer, QC, service, etc.)

Name: _____Title:_____

1. Does your company require any special development criteria requirements, such as ISO or QS Certification? _____
2. Briefly describe the application: _____
   _____
   _____

What are the DC Contactor Operating Requirements?

1. DC Voltage: _____
2. Maximum sustained duty cycle: _____%
3. Maximum on time: _____ Minimum off time: _____ (specify in seconds, minutes, hours or days)
4. Resistive Carry: _____ amps Inductive Carry: _____ amps (please estimate a mixed load if applicable)
5. Peak inductive inrush current capability: _____ amps
6. Pull in voltage (at 25°C or 77°F): _____ (pull in voltage will increase when temperature rises)
7. Hold voltage (at 25°C or 77°F): _____ (hold voltage will increase when temperature rises)
8. Minimum current to energize coil (at 25°C): _____ amps (for PLC requirement ï Trombetta can assist you with this)
9. Contact material: Copper: _____ Silver alloy: _____
10. Standard operating temperature range: _____ (in Celsius or Fahrenheit)
11. Grounding method: Isolated: _____ Through bracket: _____
12. Number of terminals: 3____ 4_____ 5_____ 6_____
    Life cycles: Electrical: _____ (we only rate our products using this category) Mechanical: _____
14. Mounting position of contactor: Vertical _____ Horizontal_____ (Trombetta can assist you with this too)
15. Mounting bracket of contactor: Flat bracket: _____ Curved bracket: _____ Other: _____
16. Break Current: _____ (when the contactor is turned off)

What Environmental Factors need to be Considered?

1. Ambient Temperature (°C or °F) Max: _____ Min: _____
2. Are rapid temperature swings anticipated? _____
3. What heat dissipation factors could affect the DC Contactor? Enclosures? _____ Heat sinks or power supplies? _____
4. Briefly describe the operating environment: _____
5. Please identify extreme operating conditions (high temperature, minimum supply voltage, etc.)? _____
6. Check all that apply:

Moisture: _____	Dust: _____	Chemical Spray: _____
Dirt: _____	Humidity: _____	Ultraviolet Light: _____
Salt Spray: _____	Shock: _____	Electrical Noise: _____
Oil: _____	Vibration: _____	

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What Safety Requirements are there?

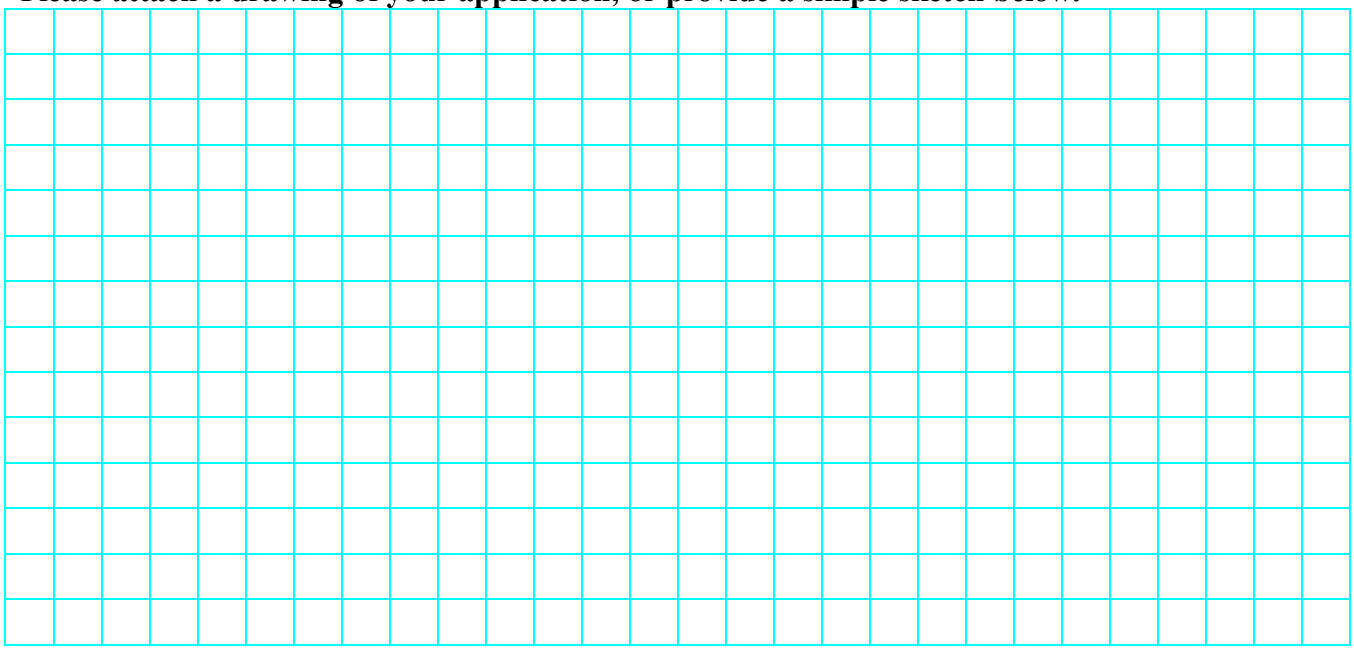
1. Could personnel come into contact with the contactor housing? _____
2. What happens if the contactor fails to energize or de-energize? Can personal injury or mechanical damage occur?
   _____

CUSTOMER IS RESPONSIBLE FOR ANY AGENCY APPROVALS OR CERTIFICATIONS

Project Data:

1. What is the projected annual production volume? _____
2. Are prototypes and pre-production units required? _____
3. What are the price targets? _____
4. What development target dates are there for prototypes, pre-production and production? _____ (if applicable)

Please attach a drawing of your application, or provide a simple sketch below.



Thank you for considering Trombetta.

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