AC contactor as inverter

Overview

How does a traction inverter work?

The battery and the traction inverter are electrically isolated by main contactors when the vehicle is switched off for safety reasons. The main positive contactor is between the positive battery pole and the traction inverter while the main negative contactor is between the negative battery pole and the traction inverter.

What is AC contactor?

An AC contactor is an electromechanical switching device designed to switch AC loads on/off. It is used for switching high-current AC loads. The working principle of the AC contactor involves electromagnetic force cooperating with the spring force to make and break the connection between the source and load.

What are the components of an AC contactor?

There are three main components of an AC contactor: 1. Coil or Electromagnet The coil or electromagnet acts as a control switch. It is wound with a number of turns of insulated wire and can be energized by AC voltage or DC voltage.

What is the difference between a positive and negative contactor?

The main positive contactor is between the positive battery pole and the traction inverter while the main negative contactor is between the negative battery pole and the traction inverter. Both these contactors are required for safety robustness.

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