

EVC 250 Main Contactor

for hybrid, full-electric and fuel cell vehicles, and vehicle charging systems

Product News

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The EVC 250 main contactor (EVC 250) is a next generation product that has specifically been designed for use in hybrid, full-electric and fuel cell vehicles, as well as in vehicle charging systems and that works without pressurized contact chambers.



The new EVC 250 features larger contact gaps, optimized switching dynamics, high performance arc suppressing magnets and other measures to effectively control the switching arc. The contactor achieves continuous current ratings of 250A which ensures a safe short circuit carry capability of 6kA and complies with the demanding switching requirements in hybrid and electric vehicles. Service replacement due to pressure loss or gas leaking is no longer necessary.

This innovative design allows for compact dimensions of only 93 x 55.3 x 49.8mm (3.7 x 2.2 x 2.0"). Due to the contactor's simplified construction, with optimized parts, the EVC 250 can allow for a fully automated production. In addition to the standard version with separate coils for pull-in and hold with automatic, internal switch, a second version with single coil for pulsed excitation (PWM) is also available. The EVC 250 fulfills the insulation requirements of IEC 60664.

Product highlights

- Compact high voltage main contactor
- Voltage rating up to 450VDC
- Continuous current up to 250A at 85°C
- Short circuit carry currents up to 6kA

Typical applications

DC high voltage applications as main contactor in

- Hybrid vehicles
- Full battery electric vehicles, fuel-cell cars and
- DC battery charging systems

Product Communications

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