



Manufacturer Approved Device Usage Clarification

Issued By: Black Box Innovations Inc.

This serves to clarify the approved use of Black Box Innovations Inc Electric Vehicle Energy Management Systems, including but not limited to EVEMS240-100, EVEMS240-200, EVEMS240-100-3R, and EVEMS240-200-3R. These devices are individually field inspected and labeled as approved by an INTERTEK inspector under the SPE-1000 program. Intertek is a Nationally Recognized Testing Laboratory (NRTL) recognized in both the US and Canada similar to UL and CSA. Each one of our devices bears the easily recognizable ETL symbol indicating this.

We are currently using a Normally Open Contactor switching system that is also separately certified by both UL and CSA. It is rated by these NRTLs for 50A Continuous Resistive Load and 40 FLA as is our product. These ratings are clearly shown on our approved label. Additionally, they have an LRA rating of 240A at 240/277V as shown in our installation manual and specification sheet. Torque specifications for electrical connections are also listed in the installation manual and on the device and appropriate tools to meet these torque specifications are available.

The Normally Open contactor that is used allows for FLA, and LRA ratings. They also provide for normally open fail-safe operation where the contactor is designed to open if it loses the control signal to close. This is considered by many stakeholders to be a safer option than a standard latching relay that, by its design, will remain in whatever state it was in last if it loses its control signal. If this latching relay fails in a closed or energized state, the system will be left without protection for the electrical service equipment and infrastructure. Latching relays also very often do not have an approved FLA or LRA rating for use in inductive or other loads. Normally open contactors are also considered to be safer as they provide maintenance and visual inspection options not available to a latching relay and have a long history of safe use in the electrical industry.

Therefore, Intertek has approved our products for general use and as an EVEMS. This is also clearly shown on the approved label of each device.

We have also developed installation, testing, and maintenance documentation and a proprietary verification tool that can be used for testing our devices as referred to in the developing CSA SPE – 343 standard.

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Regulatory Compliance Liaison

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info@blackboxelectrical.com

www.blackboxelectrical.com