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**Coated power supply units for Ex applications**

Three power supplies and three DC/DC converters in the Quint Power series from Phoenix Contact are now approved for use in potentially explosive areas.

The power supply units with coated PCB are designed for extreme requirements. They conform to standard EN 60079-15 and may be used in hazardous areas. IECEx approval has already been granted: here the devices are suitable for use in Class I, Division 2, Groups A to D or A to H. Due to the coating, all modules provide optimum protection in extreme ambient conditions such as dust, corrosive gases or 100% humidity. In addition, they satisfy the requirements of railway standard EN 50155. The single-phase power supplies are designed for a 24 V DC output voltage and currents of 5, 10, and 20 A. The DC/DC converters provide a constant voltage of 18 to 32 V DC with output currents of 5, 10, and 20 A, even at the end of very long cables.

For maximum availability of the connected loads, SFB (selective fuse breaking) technology ensures reliable tripping of circuit breakers. Faulty current paths are thereby switched off selectively, the fault is located immediately, and important system parts remain in operation. For magnetic tripping of circuit breakers, the 20 A modules supply a peak current of 120 A for 12 ms, for example. Preventive function monitoring of voltage and current visualizes critical operating states and indicates them to the controller via the active switching output or the floating relay contact, before errors can occur. This comprehensive range of functions increases the availability of the supplied loads.

**Ends**

**Aug 2014**

**PR4671GB**

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