PRESS RELEASE

HVS®240 and HVS®420: High-Voltage Connectors for High-Performance Electric Motors

Shielded connector systems for up to 410 A and 1,200 V DC, even under demanding environmental conditions

Fridolfing, September, 2026 – With the shielded connector systems HVS®240 and HVS®420, Rosenberger is expanding its portfolio for high-voltage power transmission in electric mobility. Designed for connecting electric motors, the systems support an operating voltage of up to 1,200 V DC and continuous currents of up to 285 A for the HVS®240 and 410 A for the HVS®420 when using copper conductors. Both systems are designed for long-term reliability and are qualified for use under demanding environmental conditions.

High Performance and Robust Design

The HVS® connectors are safety-critical components for high-voltage power transmission. Both systems feature an HVIL (High Voltage Interlock) function, which helps monitor the high-voltage connection. For dielectric strength, they are rated for a test voltage of 5,000 V DC.

The aluminum connector housings allow for use in a temperature range from −40 °C to +140 °C. The HVS®240 and HVS®420 are qualified to vibration stress level IV and meet the requirements of LV215-2. When mated, the connectors achieve protection classes IP6K9K, IPX8, and IPXXD; when unmated, they provide protection against accidental contact in accordance with IPXXB. Both systems are RoHS-compliant.

Two Sizes for Different Performance Requirements

The HVS®240 is designed for cable cross-sections of 16 mm², 25 mm², 35 mm², and 50 mm² and achieves a current-carrying capacity of up to 285 A at 80 °C with copper conductors or 235 A with aluminum conductors. The HVS®420 is rated for cable cross-sections of 35 mm², 50 mm², 70 mm², and 95 mm² and supports up to 410 A with copper conductors or 317 A with aluminum conductors at 80 °C. Both systems are designed for up to 50 mating cycles.

Different color codes (A black, B white, C blue, D violet) allow for unambiguous identification of the connections. Custom variants are available on request.

For Electric Drive Technology

With their combination of high voltage and current-carrying capacity, dielectric strength, robust mechanical design, and protection against environmental influences, the HVS®240 and HVS®420 connector systems are tailored to the high safety and performance requirements of electric drive systems. This provides two coordinated solutions for different power ranges in electric mobility.

For more information, visit: https://www.rosenberger.com/hvs

PRESS RELEASE

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The connector systems are designed for connecting electric motors in electrified vehicles and cover various power ranges. HVS®240: Cable cross-sections 16 mm², 25 mm², 35 mm², and 50 mm²; current-carrying capacity up to 285 A (Cu) or 235 A (Al) at 80 °C; blue seal. HVS®420: Cable cross-sections 35 mm², 50 mm², 70 mm², and 95 mm²; current-carrying capacity up to 410 A (Cu) or 317 A (Al) at 80 °C; red seal.

About Rosenberger

Rosenberger is a globally renowned manufacturer of electronic components and systems, recognized for cutting-edge technologies, engineering excellence, and uncompromising quality. Headquartered in Germany, the Rosenberger Group operates worldwide with numerous sales and production locations, offering a broad range of standardized and customized connectivity solutions in RF, high-voltage, and fiber optic technologies.

Rosenberger ensures the reliable transmission of signals, data, and power in the most demanding application areas. Leading high-tech companies across sectors such as mobile communications and telecommunications, industrial measurement technology, automotive electronics, medical and industrial electronics, data centers, and aerospace rely on Rosenberger products for their precision and outstanding reliability. The CNC machining division manufactures precision parts for a variety of industries, including the automotive and commercial vehicle sectors, shipbuilding, and conventional mechanical and plant engineering.

Since its founding in 1958, Rosenberger has been family-owned and currently employs more than 15,500 people worldwide. The company’s employees are known for their dedication, innovative spirit, and commitment to quality, all firmly rooted in the values of a traditional family business.

For more information, please visit: www.rosenberger.com

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