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Contacts in No Time

Wires and cables routinely have to be connected to copper busbars when manufacturing control gear and switchgear systems.

The conventional approach is time-consuming and uses screw clamps or fixed conductor connection clamps.

But help is at hand, thanks to the launch of a new range of maintenance-free conductor connection clamps from Rittal. The clamps utilize push-in technology, providing users with a fast, easy and secure method for connecting conductors to busbars.

Rittal's push-in clamps also have a whole host of other advantages as well as extremely quick and easy cable connection. They are maintenance-free and can be used for many different types of conductors.

Rittal has developed a new generation of conductor connection clamps enabling panel builders and switchgear manufacturers to connect cables and wires directly to busbars.

The new push-in conductor connection clamps are available in two clamping ranges, 0.5–4 mm2 and 1.5–16 mm2, and for copper busbars, 5 and 10 mm thick in each clamping range.

The push-in conductor connection clamps enable quick and easy attachment to the busbar. The stripped end of the conductor is connected to the busbar simply by pushing them together, and the connection is held securely in place with a separate spring mechanism. The spring optimises conductivity by removing oxide layers that have formed on the busbar. And optimal contact is maintained by the integral contact block with its defined and raised contact points.

You can achieve quick and easy connections with solid, multi-wire and ultrasonic welding conductors and also fine wire conductors with wire end ferrules and twin wire end ferrules.

The clamp can reduce issues such as incorrect compression/torques and loosening while its maintenance-free design improves reliability and keeps running costs down.

The conductor connection clamp can be used for numerous applications, such as connecting protective and neutral conductors to busbars or as short circuit-resistant voltage taps on the copper bars of a main busbar system. It is also possible to make string distributors or distributor blocks with a large number of connector clamps for outgoing cables.

Thanks to its numerous UL and IEC certifications, the new conductor connection clamp is suitable for use worldwide including in maritime and offshore applications. It is currently tested by ABS, DNV-GL and LR, and approvals are planned to be completed by September.

Further information at www.rittal.co.uk and www.friedhelm-loh-group.com or on twitter @rittal_ltd.

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Image

Picture shows: Connection Clamps

Notes

Rittal, headquartered in Herborn, Hessen, Germany, is a leading global provider of solutions for industrial enclosures, power distribution, climate control and IT infrastructure, as well as software and services. Systems made by Rittal are deployed across a variety of industrial and IT applications, including vertical sectors such as the transport industry, power generation, mechanical and plant engineering, IT and telecommunications. Rittal is active worldwide with 10,000 employees and 58 subsidiaries.

Its broad product range includes infrastructure solutions for modular and energy-efficient data centres with innovative concepts for the security of physical data and systems. Leading software providers Eplan and Cideon complement the value chain, providing interdisciplinary engineering solutions, while Rittal Automation Systems offers automation systems for switchgear construction.

Founded in Herborn in 1961 and still run by its owner, Rittal is the largest company in the Friedhelm Loh Group. The Friedhelm Loh Group operates worldwide with 18 production sites and 78 international subsidiaries. The entire group employs more than 11,500 people and generated revenues of around €2.2 billion in 2014. For the seventh time in succession, the family business has won the accolade “Top German Employer” in 2015.

Further information can be found at www.rittal.com and www.friedhelm-loh-group.com.