

Power transmission / industrial brakes / electronic technology / electronics / design engineering / supply

Unhindered market access to the USA and Canada

Electromagnetic brakes from RINGSPANN now have the UL and CSA approvals

The electromagnetic disc brakes from RINGSPANN rank among the essential components of countless drive systems in mechanical engineering and plant construction. They can be deployed for stopping, control and holding and cover a very large application spectrum with braking torques ranging from 94 to 6,590 Nm. These compact industrial brakes received their UL and CSA certifications just a few days ago. That makes it easier for all export-oriented manufacturers to gain access to international overseas markets – particularly those in north America and Canada.

Bad Homburg, June 2019. – For mechanical engineers and plant manufacturers who directly or indirectly deliver to North America or Canada, the seals of approval from the Underwriters Laboratories (UL) and the Canadian Standards Association (CSA) are among the most competitively relevant labels. They may not be mandatory; however, they greatly facilitate and accelerate access to the markets on the north American continent and many other overseas regions. RINGSPANN therefore recently had the electromagnetic disc brakes from its DH and DV series certified according to the criteria of UL and CSA. The EV and EH series are also poised for certification. That would make all spring activated RINGSPANN disc brakes that are electromagnetically released for braking torques ranging from 94 to 6,590 Nm perfectly equipped to be exported obstacle-free into the USA and Canada. “For German and European manufacturers who want to successfully gain a foothold in these regions with their systems, machines or drive units, the use of components with UL and CSA approval is a strategic competitive factor. And that is because, quite similar to our CE label, it confirms the adherence to safety standards”, explains Franz Eisele, who heads RINGSPANN’s brakes and clutches division.

Strict specifications by list

To be certified by the UL in Northbrook (Illinois), USA and the CSA Group – they have their European office in Frankfurt am Main – a product may only have materials or components installed that are listed by these two standards bodies. The adherence to this requirement is among other things also checked through test series. “Since it is therefore hardly feasible to retrospectively have existing products certified, we have deployed new magnets and new electronics for our compact electrical brakes. That made it possible for us to create the prerequisites for UL and CSA certification”, reports RINGSPANN divisional manager Franz Eisele.

The electrical alternative

RINGSPANN's electromagnetic disc brakes from the DH and DV series and the EV and EH series cover a very large application spectrum in mechanical engineering and plant construction. They convince particularly as a space-saving and low-maintenance alternative to hydraulic and pneumatic brake systems. Typical areas of deployment for these electrical brakes are for example the turbine, ventilator and fan industries, machine tool construction, winch and winding technology, wind power technology and general drive technology. The (emergency) stop function brings rotating shafts to a standstill within seconds, as a control unit they enable the controlled adherence or delay of defined forces, and as a holding system they prevent the unintended start-up of rotating components.

The electromagnetic RINGSPANN disc brakes can be installed in any position and can also be operated in synchronised groups. The DH and DV series feature electrical brakes with braking torques ranging from 94 to 570 Nm; the EV and EH series meanwhile feature braking torques ranging from 65 to 6,590 Nm. A remarkable technical feature of RINGSPANN's EV and EH brakes is that they only have an extremely low power consumption for the entire holding phase. "The smaller sizes only require 10 watts", stresses divisional manager Franz Eisele. With such excellent performance figures, the Homburg manufacturer is setting international standards and making a tangible contribution towards creating energy-efficient drive solutions. *ms*

563 words with 4,326 characters (with spaces)

Author: Marco Sturm (ms), freelance specialist journalist, Darmstadt

Note for editorial staff: Text and images available at www.pr-box.de!

Captions (3 pictures)

Bild 1: Now also with UL and CSA seal of approval: The electromagnetic disc brakes from RINGSPANN - indispensable components of countless drive systems in mechanical engineering and plant construction.

Bild 2: Franz Eisele, who heads RINGSPANN's brakes and clutches division, says: "For German and European manufacturers who want to successfully gain a foothold in these regions with their systems, machines or drive units, the use of components with UL and CSA approval is a strategic competitive factor."

Bild 3: Last electrical measurements on an electromagnetic disc brake in the test field of RINGSPANN prior to the launch of the CSA / UL version

All images: RINGSPANN

((Infobox))

A comprehensive range

RINGSPANN brakes are deployed as stopping, control and holding systems in all types of industries: In the turbine, ventilator and fan industries, machine tool construction, winch and winding technology, the wind power industry, general drive technology, conveyor and crane systems, lifting and handling systems, mining and construction machines, marine technology, recycling technology and metallurgy, and in many other areas. RINGSPANN provides its customers with a technologically almost comprehensive range of brakes, which comprises all important functional and design types. In order to make it easier for designers and engineers to select the right brake, RINGSPANN has also developed a calculation tool that can be used free of charge at www.ringspann.de. It enables you to determine braking torques (clamping forces) and braking forces. It allows you for example to calculate the braking of rotating masses in carriages, cable winches and conveyor belts.

124 words with 1,004 characters (with spaces)

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