Vienna, 11th May 2015

**Soft starter for electric motors**

TELE presents the new 3PH soft starter with true 3ph control and integrated current control for a nominal motor power 2.2 kW up to 22kW.

**Tele offers you the new MS3 soft starter for a continuous starting procedure of asynchronous 3ph motors. The unit is thyristor based and integrates current measurement and current limiting without external components and wiring. This function controls and limits exactly the maximum motor current that is used to start the whole system without overloading the motor and drive mechanics. Additional power peaks and flickers in the mains are reduced to a minimum, so the stability of the supply is much higher compared to star/delta or direct motor starters. The overall size of the new MS3 is very compact and saves space in the cabinet. The fan-less design improves time between maintenance. The full 3ph control paired with current control makes the MS3 the ideal device for heavy starting drives and machines. Power dissipation in start and standby mode is extremely low, due to the use of modern and state of the art control and power devices, we have been informed by Mr. Kunst, product specialist for power electronics at TELE.**

Asynchronous motors are the most common drive type in machinery, automation, HVAC, pumps and transport business. Direct starting these types of motors causes a high inrush current, mechanical stress and destabilization of the mains. Using soft starters to start the motor, eliminates or at least minimizes those disadvantages and guarantees a long lasting and low maintenance operation system.

**Adaptable to nearly any drive demand**

The new MS3 soft starter is available in different power sizes from 2.2kW up to 22kW @ 400VAC and allows the independent adjustment of maximum current, start and stopping time as well as the start and stop torque. Five LEDs and 1 to 3 output relays keep you informed about the drive status. Auxiliary supply is generated directly from the mains terminals and eliminates external wiring. To protect man and machine, a phase rotation detection and external over temperature detection is integrated as standard.

**The working principle of soft starters**

The MS3 reduces the motor voltage during the starting phase by phase angle voltage control with 6 thyristors. From applying the start signal to the MS3, the unit supplies the motor with the appropriate voltage ramp to generate the requested torque with a maximum starting current for a defined starting time. Following that procedure, the machine starts in the most protective and soft mode for the machine and mechanics. After that set time the motor voltage should be a nominal voltage and the thyristor power devices are shorted by built in bypass contactors to eliminate power losses during normal run condition. Removing the start signal sets the thyristors in full conduction firing, opens the bypass in a powerless mode and runs the full procedure from mains voltage to zero voltage in the reversed mode as described before.

**Digital images can be downloaded via the following link: http://www.tele-online.com/organisation/kontakt/presse/ .**

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# About TELE TELE a family owned company, founded 1963 in Vienna, Austria and is known as a pioneer in monitoring relays. The company offers a wide range of automation components for monitoring and control purposes. In Austria TELE holds 60% market share in time relays and is the market leader in that business. The annual 15 Mio Euro turnover of 2013 includes 11,4 Mio Euro of export business. The factory in Vienna employs more than 90 employees in development and production. Export sales include two subsidiaries in Germany and United Kingdom and a worldwide network of more than 60 distributors.