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TMEIC announces rugged new drive for rolling mills, TMdrive-70e2

Roanoke, Virginia. (May 3, 2013) – TMEIC announces an improved version of its rugged TMdrive-70 medium voltage, variable frequency drive, used to provide high torque and overload capability to main drives on hot strip mills and cold mills. Other applications include driving fans, pumps, compressors, grinding mills and mine hoists. The new TMdrive-70e2 features lower cost, higher power level, reduced footprint, and enhanced safety features. Designed and built in Japan for high reliability, the drive has a very high mean time to failure (MTBF) similar to the original TMdrive-70, proven over 12 years of mill operating experience.

The IEGT-based drive is water-cooled and designed for operation with induction or synchronous motors. It operates at up to 3,300 Vac, and offers 3-level Pulse Width Modulated output power at levels up to 36,000 kVA. The drive has a full regenerating converter which can operate in either the conventional Pulse Width Modulated mode with the incoming Power Factor (PF) at 1.0, or in the patented Fixed Pulse Pattern Control mode for enhanced voltage stability. The inverter output frequency is variable from 0 to 75 Hz, (up to 90 Hz with derating) allowing operation with a wide variety of motor designs. Inverter frequency can be controlled over a variety of standard Local Area Networks allowing computer speed control for coordinated drive system applications such as driving multiple stands on a hot strip mill.

The new drive has enhanced safety features meeting IEC 618005-2 (Safety Integration Level 2) and ISO 13849 (Category 3). These requirements are met with independent gate command lockouts via two hardware inputs.

For more information, contact: info@tmeic.com

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About Toshiba Mitsubishi-Electric Industrial Systems Corporation (TMEIC)

Toshiba Mitsubishi-Electric Industrial Systems Corporation (TMEIC) was formed in 2003 from the merger of the industrial systems departments of Toshiba Corporation and Mitsubishi Electric Corporation. TMEIC manufactures and sells variable frequency drives, motors, and advanced automation systems for a range of industrial applications. We drive industry.

The North American operation –

TMEIC Corporation, headquartered in Roanoke, VA, designs, develops and engineers advanced automation, large AC machines and variable frequency drive systems. TMEIC Corporation specializes in the Metals, Material Handling, Oil & Gas, Mining, Testing and other industrial markets worldwide. We drive industry. www.tmeic.com