**TMEIC Introduces the Next Generation of MV Flameproof Solutions**

*Flameproof motors offer robust explosionproof performance.*

Toshiba Mitsubishi-Electric Industrial Systems Corporation (TMEIC) is proud to introduce the next generation of MV flameproof machines, available in two versions­—rib cooled (IC411) and tube cooled (IC511) motors. The flameproof solutions meet all relevant international standards including IEC, EN, NEMA, and ATEX directive, as well as the proven tough design requirements needed in the oil and gas industry.

TMEIC’s flameproof motors are built and tested to withstand the pressure caused by an internal explosion without incurring any damage. They prevent flame propagation outside of the enclosure and are certified for gas groups IIA, IIB and IIC.

Options are available for both direct-on-line (DOL) and variable frequency drive (VFD) operation. Certified TMEIC motor-drive packages with optimized thermal behavior, reliability, efficiency and power range offer even higher productivity and system efficiency.

Operating voltages are 3kV to 13.8kV at 50 or 60Hz. These motors do not require purging or pressurization of the system before starting. The motor is certified up to IEC frame 630 and rated up to 2,000kW.

TMEIC’s motor designs are based on more than 100 years of expertise. Our highly reliable machines are capable of withstanding harsh operating environments, corrosive dust and more. Typical applications can be found in chemical plants, oil operations, gas works, mining sites or in agriculture.

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| **Rib cooled design, type IC411** | | | |
| Output power | | Up to 1,250kW | |
| Motor Voltage | | Up to 6.6kV | |
| Frame size | | 250 ~ 500 | |
| Poles | | 2-8P as standard  (10P+ as option) | |
| Frequency | | 50Hz, 60Hz, VFD | |
| Cooling | | IC411 | |
| Protection | | IP55 | |
| Mounting | | Horizontal | |
| Bearings | | Anti-friction | |
| Standards | | IEC, NEMA | |
| Explosion proof type | | | Ex db |
| Area Classification | | Zone 1&2 (Div. 1 & II) | |
| Certification | | SGS Baseefa | |
| Gas group | | IIA / IIB | |
|  | |  | |
| **Tube cooled design, type IC511** | | | |
| Output power | Up to 2,000kW | | |
| Motor Voltage | Up to 13.8kV | | |
| Frame size | 630 | | |
| Poles | 2-8P as standard  (10P+ as option) | | |
| Frequency | 50Hz, 60Hz, VFD | | |
| Cooling | IC511, IC516 | | |
| Protection | IP55 | | |
| Mounting | Horizontal | | |
| Bearings | Anti-friction, Sleeve | | |
| Standards | IEC, NEMA | | |
| Explosion proof type | | Ex db | |
| Area Classification | | Zone 1&2 (Div. I & II) | |
| Certification | | SGS Baseefa | |
| Gas group | | IIA / IIB / IIC | |

**Media inquiries: Crystal von Beck, Marketing Manager, Email: crystal.vonbeck@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 following the merger of the industrial systems departments of Toshiba Corporation and Mitsubishi Electric Corporation. TMEIC manufactures and sells variable frequency drives, motors, photovoltaic inverters 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 and DC motors, photovoltaic inverters and variable frequency drive systems. TMEIC Corporation specializes in the Renewable Energy, Metals, Material Handling, Oil & Gas, Mining, Testing and other industrial markets worldwide. We drive industry. [www.tmeic.com](https://www.tmeic.com/North%20America)

TMEIC Corporation, 2060 Cook Dr., Salem, VA 24153, USA

Tel: +1 540 283-2000

www.tmeic.com