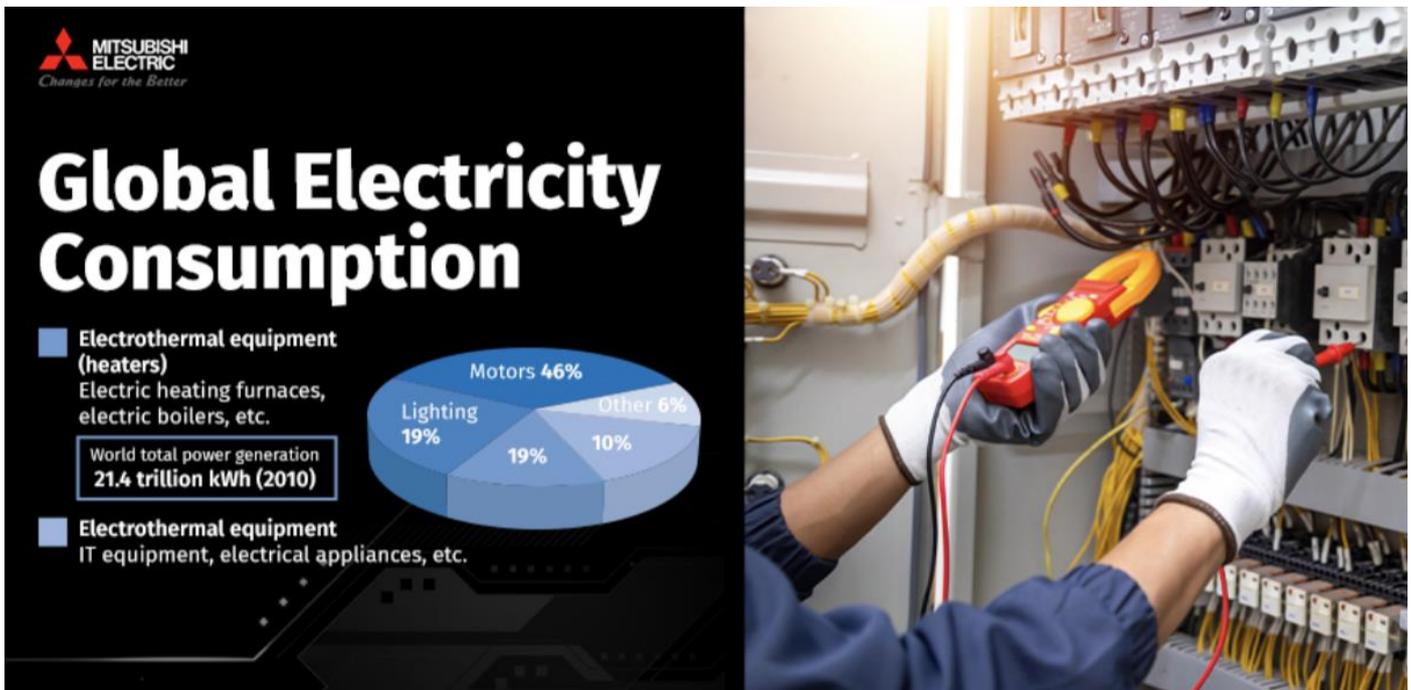


Energy Efficiency in Three-Phase Motors: Regulations & Solutions



As global warming countermeasures gain momentum, there is an increasing demand for CO₂ reduction worldwide. A key area of focus is the efficiency of three-phase motors, which play a significant role in global electricity consumption.

The Impact of Motor Efficiency

Motors account for nearly half of the world's electricity consumption—approximately **9.8 trillion kWh**. By improving motor efficiency by just **5%**, we can reduce global power generation by **2%**, significantly contributing to energy conservation efforts, to drive the adoption of high-efficiency motors, international standards were established in 2008.

IE Code Efficiency Standards

The **IEC Code 60034-30** defines efficiency classes for single-speed, three-phase, squirrel-cage induction motors. These classifications range from **IE1 to IE4**, where a higher number indicates superior efficiency. These standards help industries transition to energy-efficient motor solutions, reducing both power consumption and operational costs.

Mitsubishi Electric's High-Efficiency Motor Solution

Advanced High-Efficiency Technology for Sustainable Energy Savings

Key Features:

- **Compatible Mounting Dimensions:** Designed for easy replacement with existing Mitsubishi Electric motors, ensuring seamless upgrades with minimal modifications.
- **Optimized for Power Distribution Control Equipment:** Specially designed for integration with Mitsubishi Electric's power distribution control solutions, maximizing efficiency and performance.

Upgrading to high-efficiency motors is a crucial step toward reducing energy costs and lowering carbon emissions. Contact Mitsubishi Electric today to learn how our **Super Line P Series** motors can help you achieve your energy efficiency goals! Click here for more information <https://bit.ly/41GMbLT>

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