

# Why Energy Efficiency is so Important

## Motors at the forefront of global efforts to reduce emissions

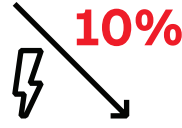
Up to 70% of electricity consumed by industry is used by electric motor systems. The technological advancement and adoption of high-efficiency motors and variable speed drives on the market, are key factors in achieving significant energy efficiency improvements in industry and infrastructure.



Electric motors consume **over 45%** of the world's electricity.



By 2040 the number of motors **will double**.



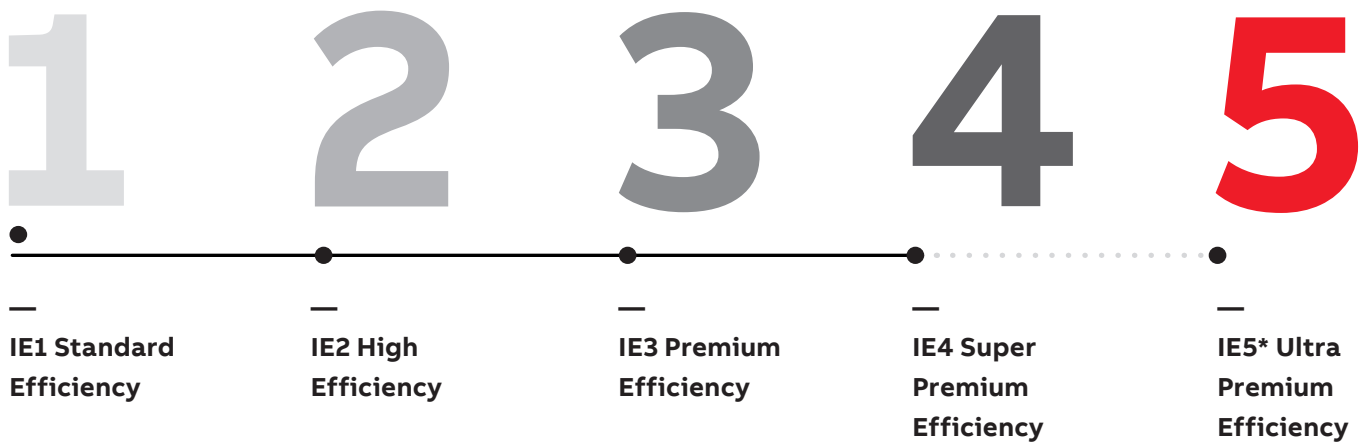
Adoption of high-efficiency motor systems would cut **global electricity consumption by up to 10%**.



Changing just one motor can make a difference.

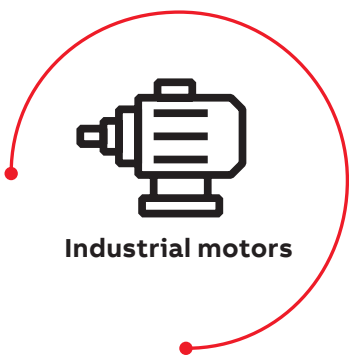
International Efficiency (IE) standards stipulate the energy efficiency of low voltage AC motors. These IE codes serve as a reference for governments who specify the efficiency levels for their minimum energy performance standards (MEPS).

## Five levels of motor efficiency



\*The IE5 class has not been specified in the standard yet, but some manufacturers have already developed motors that will be compliant.

## Switching up to IE5+ efficiency levels



When added to the existing motor of a pump, fan or compressor, a variable speed drive can typically reduce power consumption by **25%**. Replacing 80% of motors with IE5 levels **will save more energy than the annual energy consumption of Poland**.

