



Brochure

Process performance  
premium efficiency motors  
The environmental choice to reduce  
energy costs and carbon emissions

Process performance premium efficiency motors deliver superior reliability and reduced energy consumption: a sustainable choice for the future.



# Innovative thinking – highest efficiency and reliability with off-the-shelf availability

ABB's new generation Process performance premium efficiency motors deliver maximum value over their entire life cycle. Their IE3 efficiency rating makes them an ideal environmental choice for motor users seeking to save energy and reduce their carbon footprint.

## New levels of efficiency

Rising energy costs and increasing concerns about the environment are focusing attention on ways to further reduce energy consumption. Motor-driven systems account for 64 percent of all the electricity used in industry, giving motors a major role to play in efforts to reduce energy use.

Cutting-edge design, quality materials, and advanced manufacturing techniques make ABB's Process performance premium efficiency motors extremely reliable and energy efficient, even under the most challenging conditions.

## Future-proof solution

The motors comply with the latest efficiency standards and requirements. ABB closely follows developments in the global regulatory environment, and ensures that its products stay ahead.

Process performance premium efficiency motors with the IE3 efficiency rating already meet the requirements of the EU MEPS (European Minimum Energy Performance Standard) scheme set to come into force in 2015. These motors are available now for delivery from stock.

Motors for the super premium IE4 efficiency class are also already available. IE4 motors from frame size 280 upwards can be purchased now, and the whole range in sizes 160 to 355 will be available during 2011.

## Excellent all-round performance

Process performance premium efficiency motors offer enhanced operating performance, low starting currents, and an excellent torque curve. They produce less noise, are subject to lower mechanical stresses, and run cooler than less efficient motors.

Cooler running is a big advantage. Reducing the temperature of the bearings and winding extends the lubrication intervals and increases the useful life of the motor. This translates into higher reliability, easier maintenance, and a longer life cycle –

factors which reduce the overall cost of ownership. As a result ABB's Process performance premium efficiency motors have longer warranties than many other types of motor.

With an extensive range of accessories available, ABB's Process performance premium efficiency motors are particularly suitable for industrial and OEM use. They are ideal for all applications demanding efficiency and reliability, especially under challenging conditions.

Motor types	M4BP
Frame sizes	160 to 355
Output range	11 to 355 kW
Poles	2 to 6 poles
Frame material	Cast iron
Voltage	up to 690 V, 50 & 60 Hz



# Contact us

For more information please contact:  
**[www.abb.com/motors](http://www.abb.com/motors)**

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