

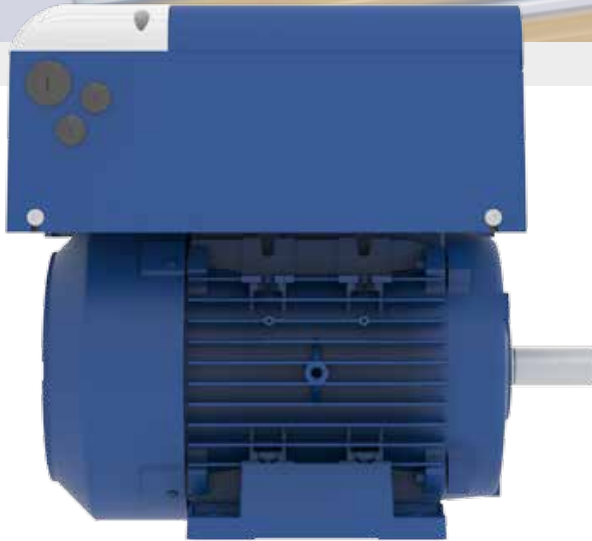
Fiche produit Motralec Ziehl Abegg Pmblue - fiche technique | Motralec

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Movement by Perfection



The Royal League in ventilation, control and drive technology



PMblue

Highly efficient IE4
motor technology

PMblue

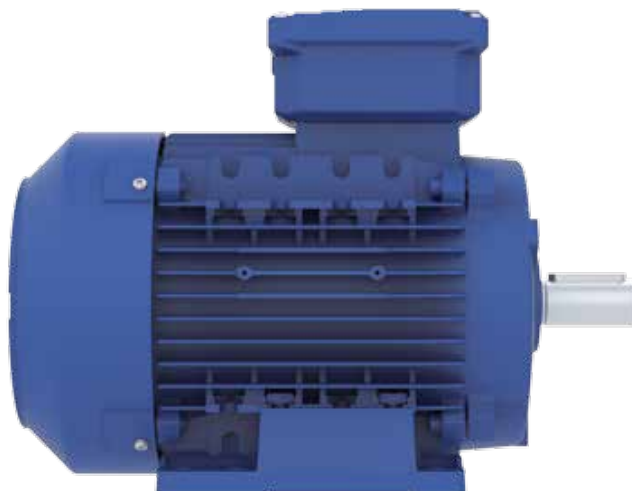
The latest, highest efficiency electric motor

The new standard in the ventilation and air-conditioning sector

The permanent-magnet internal rotor motors in the PMblue series were designed specially for ventilation and air-conditioning and already meet the requirements in the highest IE4 efficiency class, Super Premium Efficiency. When combined with our Cpro, C- and the new ZABluefin impellers the highest energy savings potential is guaranteed. The motors are operated using on the specially designed PMIcontrol EC controller developed by ZIEHL-ABEGG.

The benefits of the PMblue motors

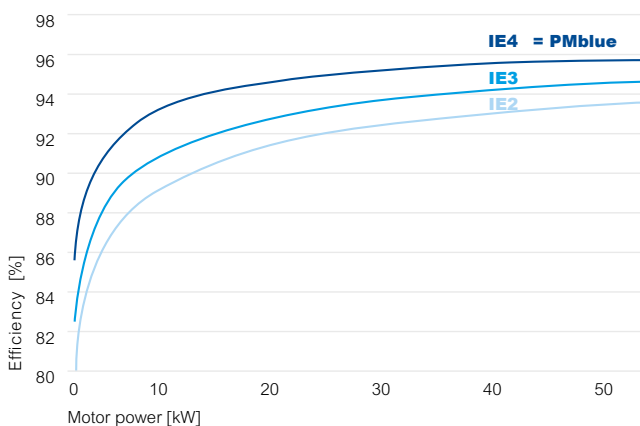
The motors have the highest efficiencies, even at low rotational speeds and in the partial load range. There are no system efficiency losses normally associated with motor blockage in the impeller. The PMblue motors have the same dimensions as today's IEC standard motors, making them directly interchangeable. The motors stand out with their low-noise and vibration-free operation and are also perfect for very high rotational speeds up to 5000 rpm. Since the PMblue motor and PMIcontrol controller come from one single source, the drive components are matched perfectly to one another. That facilitates simple and quick commissioning as no special configuration is necessary and the products comply with the open ZACode philosophy.



PMblue motor

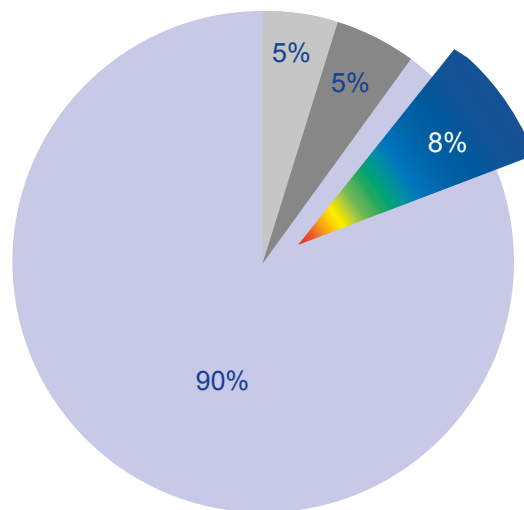
The PMblue series comprises the motor sizes 90, 112, 132 and 160. The motors are available in the 5,5 kW to 22,0 kW power ranges.

Use the energy savings potential with PMblue, the IE4 energy saving motor



Comparison of efficiency at 4-pole motors with 50 Hz

IE4 motors, as opposed to IE2 drives, stand out with 7.5% higher efficiency. In a total cost calculation of fans for room ventilation technology plants across a time frame of 10 years, the cost component for energy lies at over 90%. By using energy-efficient IE4 class motors, energy consumption and consequentially corresponding energy costs of up to 40% can be saved as compared with IE2 products.



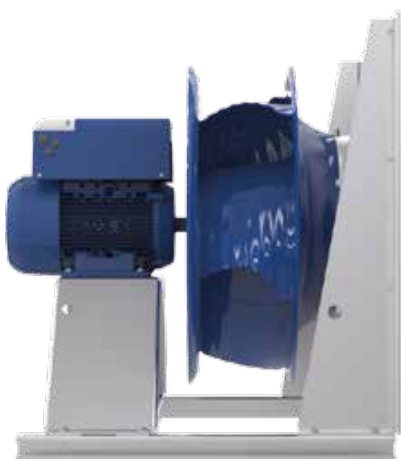
Cost distribution across 10 years

- Energy costs more than **90%**
- Energy savings potential up to **8%**
- Investment costs less than **5%**
- Maintenance costs less than **5%**





PMcontrol



PMblue with PMIcontrol and ZAbuefin high-performance centrifugal fan



ZAbuefin centrifugal fan

An investment that quickly pays off

At today's energy costs, an investment in the energy-saving PMblue motors pays off quickly. At a fan operating time of 6,000 hours per year at full load, the higher investment is amortised in less than 2 years.

CO₂-savings protect the environment

Reduced energy requirements lead to less environmental damage. At circa 160,000 MWh of sold drive power per year, using IE4 motors can prevent the generation of up to 20,000 tons of CO₂.

Example calculation of energy savings Comparison IE2 to IE4

Motor 5.5 kW, 4-pole

Motor IE2

Minimum efficiency = 87.7%

$P_{input} = 6.27 \text{ kW}$

$P_{loss} = 0.77 \text{ kW}$

Savings = 0.3 kW

Difference in efficiency (only) 4.4% lower losses

Motor IE4

Minimum efficiency = 92.1%

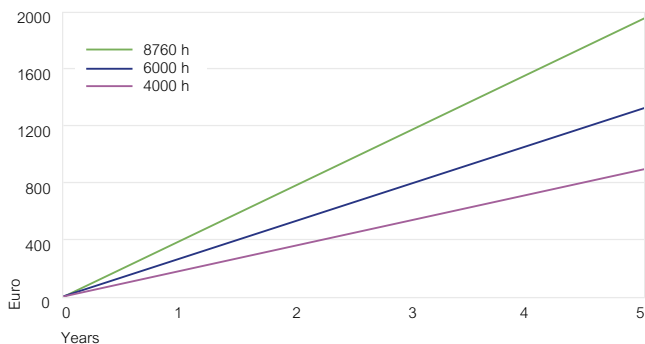
$P_{input} = 5.97 \text{ kW}$

$P_{loss} = 0.47 \text{ kW}$

Legal requirements

New energy laws and impending regulations in the EU on minimum efficiencies (e.g., ErP, EnEV, EPBD, DIN EN 13779, etc.) require the significant reduction of energy consumption in air-conditioning systems.

Energy cost savings



PMblue and PMIcontrol

A top team for the highest performance

PMIcontrol turns the PMblue motor technology into a new energy saving miracle

The intelligent, self-sufficient control engineering with electronics developed specially for the PM motor technology provides the highest degree of functionality and exceptional performance. Together, the top team meets the highest demands in air-conditioning and easily fulfils the ErP Directive 2015 and the forthcoming ErP 2020. We offer PMIcontrol pre-programmed, with several selection options for standard and special applications. That means you save time and money during commissioning.

The Royal League



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Moteur Ziehl Abegg PMBLUE



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Voir la gamme Ziehl Abegg sur notre site :

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DEMANDER UN PRIX >