

KSB SuPremE® in IE5* – The World's Most Efficient Magnet-less Pump Motor



Energy diet



Applications:

- Centrifugal pump applications
 - Service/drinking water supply
 - Irrigation and drainage
 - Heating and cooling circuits
 - Fire-fighting water handling
 - Condensate transport
- Rotating Equipment
 - Positive displacement pumps
 - Fans
 - Compressors
- And much else

More information:

www.ksb.com/products



KSB SuPremE® motor 7,5 kW

Your contact:

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- Energy savings of 70 % or more are possible**
 The speed-controlled KSB SuPremE® motor works like an energy diet: The large efficiency gain of up to 60 % due to speed control is increased even further by an energy saving of up to 15 % in the motor alone..

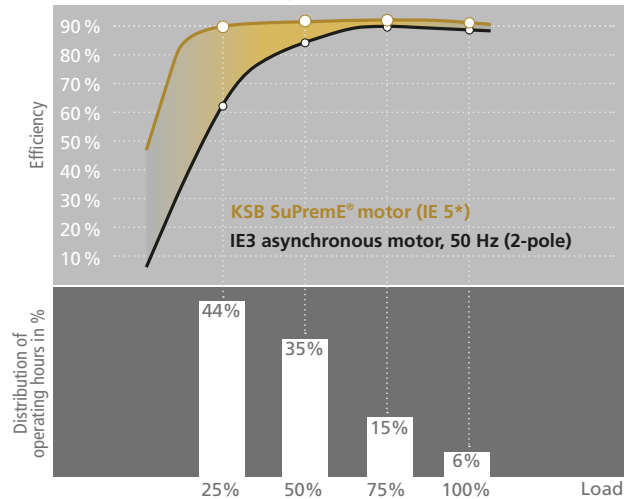
- Future-proof with efficiency class IE5**
 Meets the IE5* efficiency requirements.

- Sustainable**
 Built completely without magnetic materials, its total environmental footprint is significantly smaller than that of permanent-magnet synchronous and asynchronous motors.

- Robust**
 The use of non-critical, durable materials, as well as the fully matured reluctance principle make the KSB SuPremE® motor* a durable, reliable drive that is in no way inferior to other types of drive.

- Compatible**
 Wherever there is room for an IE2 asynchronous motor, a KSB SuPremE® motor with identical connecting dimensions can also get the work done efficiently.

Unparalleled potential savings due to extremely high efficiency – especially in the part-load range.



The diagram shows the efficiency curve plotted over the load of a 7.5 kW, 1500 rpm KSB SuPremE® motor in comparison to a 2-pole, IE3 asynchronous motor. Load profile to "Blue Angel" requirements.

Source: Dipl.-Ing. M. Wiele, Prof. Prof. h. c. mult. Dr.-Ing. Peter F. Brosch, Hochschule Hannover, University of Applied Sciences and Arts, Faculty I, Drives and Automation Technology.

* IE5 in accordance IEC/TS 60034-30-2

* IE5 in accordance with IEC/TS 60034-30-2 up to 15/18.5 kW (only for 1500 rpm types rated 0.55 kW, 0.75 kW, 2.2 kW, 3 kW, 4 kW: IE5 in preparation)

The products illustrated as examples are partly fitted with options and accessories incurring a surcharge.

Technical data

Synchronous reluctance motor of efficiency class IE5*	
Combination with KSB PumpDrive	
Drive for dry-installed centrifugal pumps outside potentially explosive atmospheres	
IEC power ratings	0.55 kW – 45 kW
Rated speed	1500 and 3000 rpm
Speed range	0 – 2100 rpm at 1500 rpm rated speed
Speed range	0 – 4200 rpm at 3000 rpm rated speed
Versorgungsspannung gemäß technischer Daten KSB PumpDrive 380-480 V (3-phasig) 50/60 Hz	
Basic type of construction	B3 and V15, and many others
IP55 enclosure	
Ambient temperature	40 °C without derating



www.none-more-efficient.com



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