

# KSB SuPremE<sup>®</sup> in IE5\* – The World's Most Efficient Magnet-less Pump Motor





Your contact:

KSB SuPremE® motor 7,5 kW

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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.

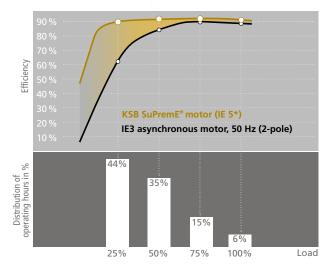
### Compatible

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

#### **Technical data**

Synchronous reluctance motor of efficiency cla	ass 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 Dat KSB PumpDrive 380-480 V (3-phasig) 50/60 Hz	
Basic type of construction	B3 and V15, and many others

Unparallelled 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.



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Ambient temperature

IP55 enclosure

40 °C without derating