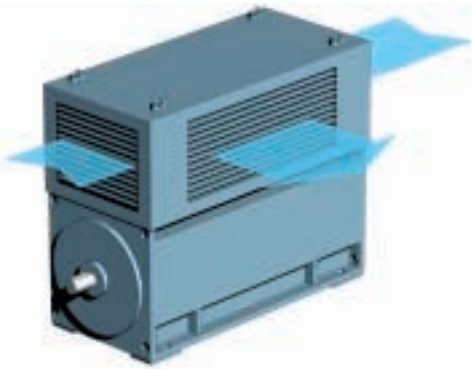
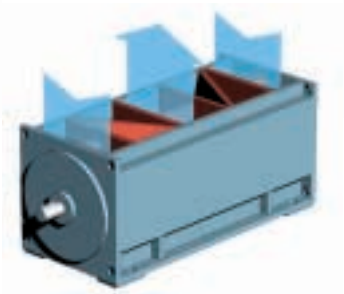
- To relevant standards IEC, VDE, DIN, ISO, EN
- With squirrel-cage or slipring rotor
- Degrees of protection: IP23, IP24W, IP55
- Types of protection Exe and Exp to EN 60079
- 'Non sparking' to EN 60079-15
- Rated voltages from 2 to 15 kV
- Rated frequency 50 or 60 Hz
- Converter-fed or connected to the system
- Construction IM B3 and IM V1 (others on request)
- Number of poles 2p=2 to 2p=20 (higher number of poles on request)
- Designs can be modified to meet customer's specification
- Motors can be designed for voltages < 1,000 V or for converter operation

Modular design

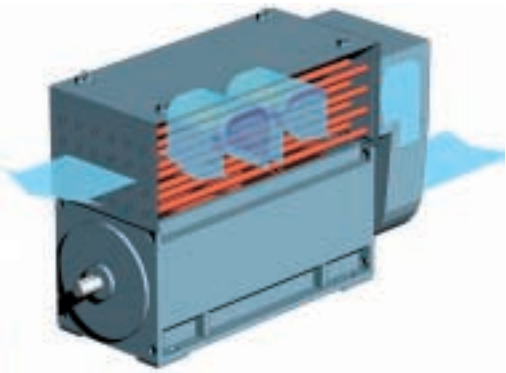
The design is based on a standard frame to which components can be added, as required. Thus, machines can be adapted to almost any application requirements. By means of computer-assisted design techniques, the best power-to-weight ratio is determined and components are optimized.



Internally ventilated,
with top-mounted air guide cover,
IP23, IC01,
for outputs up to 7,000 kW

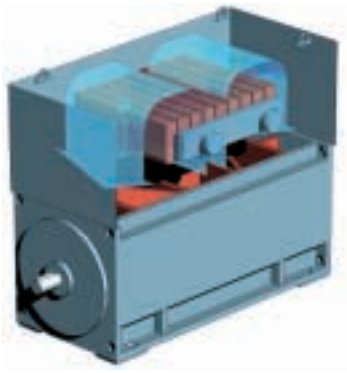


Standard frame



Top-mounted air/air tube-type heat exchanger,
IP55, IC611,
for outputs up to 17,000 kW

Internally ventilated,
with top-mounted weather protection
hood, IP24W, IC01,
for outputs up to 15,000 kW



Top-mounted water/air heat exchanger,
IP55, IC81W,
for outputs up to 25,000 kW

Compact design

Space-saving motor design, e.g. for encapsulated units

IP23, IC01,
for outputs up to 1,500 kW