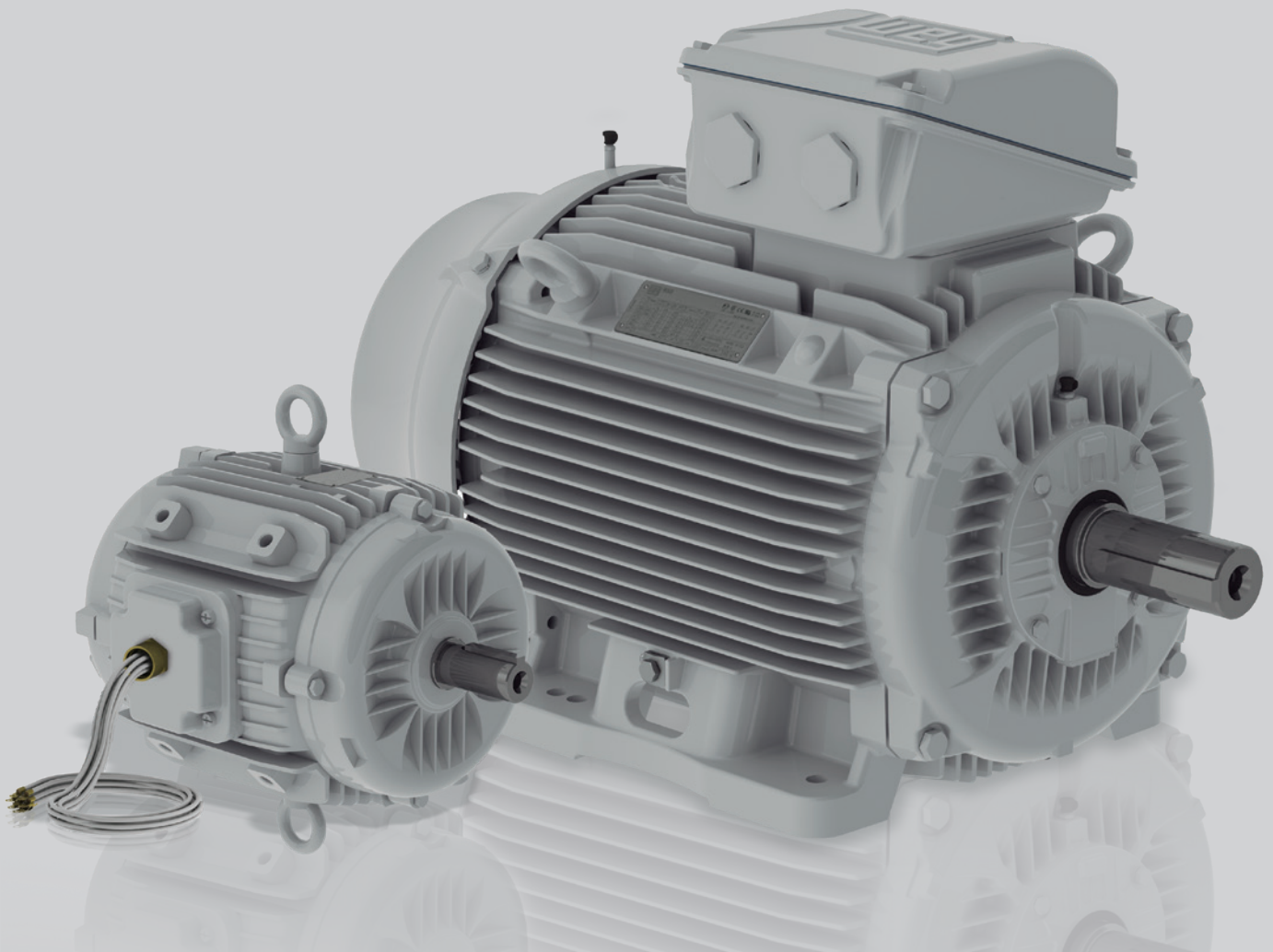




B&P Elektromotoren

W22 Smoke Extraction

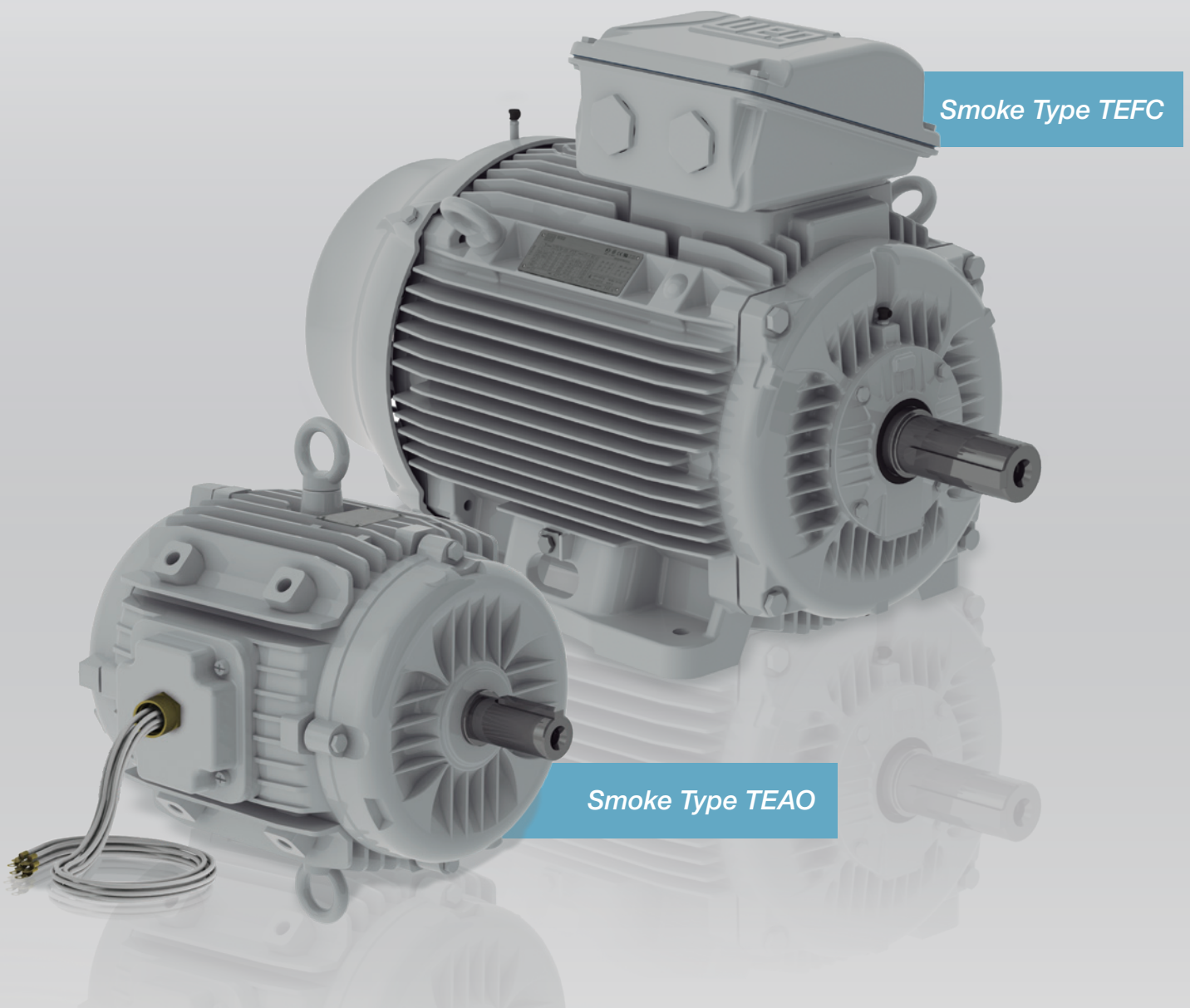


Motors | Automation | Energy | Transmission & Distribution | Coatings

W22 Smoke Extraction

Ensuring security in business and industrial installations is one of the main concerns of designers and company owners in the conception of business centers, factories, warehouses, parking garages, tunnels and other places with great concentration of people.

The Smoke Extraction motors were developed so as to ensure the air circulation in closed environments. In emergency situations, they withstand operation at high temperatures and ensure fast smoke extraction and heat, besides delaying the fire propagation, allowing free access to the emergency exits.



Smoke Type TEFC

Smoke Type TEAO

The project of the Smoke Extraction motor is based on the requirements of the European safety standard for smoke and heat exhaustion systems - EN12101*:

Designed to operate at the maximum temperature of 200 °C, 250°C, 300 °C or 400 °C for up to 2 hours**.

* EN12101 - Smoke and heat control systems - Part 3: Specification for powered smoke and heat exhaust ventilators - April 2005

** Only once



W22 Smoke Extraction Characteristics

- Efficiency*: High Efficiency (IE2), Premium Efficiency (IE3)
- Cooling method: TEAO (Totally Enclosed Air Over) TEFC (Totally Enclosed Fan Cooled)
- Mounting: B3 or B30 (Pad mounted)
- Rated output: 0,18 to 500 kW
- Number of poles: 2 to 8
- Frequency: 50//60 Hz and 60 Hz
- Voltage: 50//60 Hz: 220-230-240/380-400-415//460 V (up to 100L)
380-400-415/660-690//460 V (112M up to 355M/L)
60 Hz: 230/400 V (up to 100L)
400/690 V (112M to 355M/L)
- Frames: 80 up to 355M/L
- Colour: RAL 9006 - Grey
- Ambient temperature: -20 °C to 40 °C, at 1000 m.a.s.l.
- Grease: Mobil Polyrex EM
- Class "H" insulation
- Degree of protection: IP55
- Special impregnation system to withstand high temperatures
- Special terminal block to withstand high temperatures
- Duty: S1 / S2 (according to temperature class – only once).
- Motors designed to operate at maximum temperatures: 200 °C (2 hours), 250 °C (2 hours), 300 °C (1 and 2 hours) or 400 °C (2 hours).

*IE1 Standard Efficiency is also available.

Optional Features

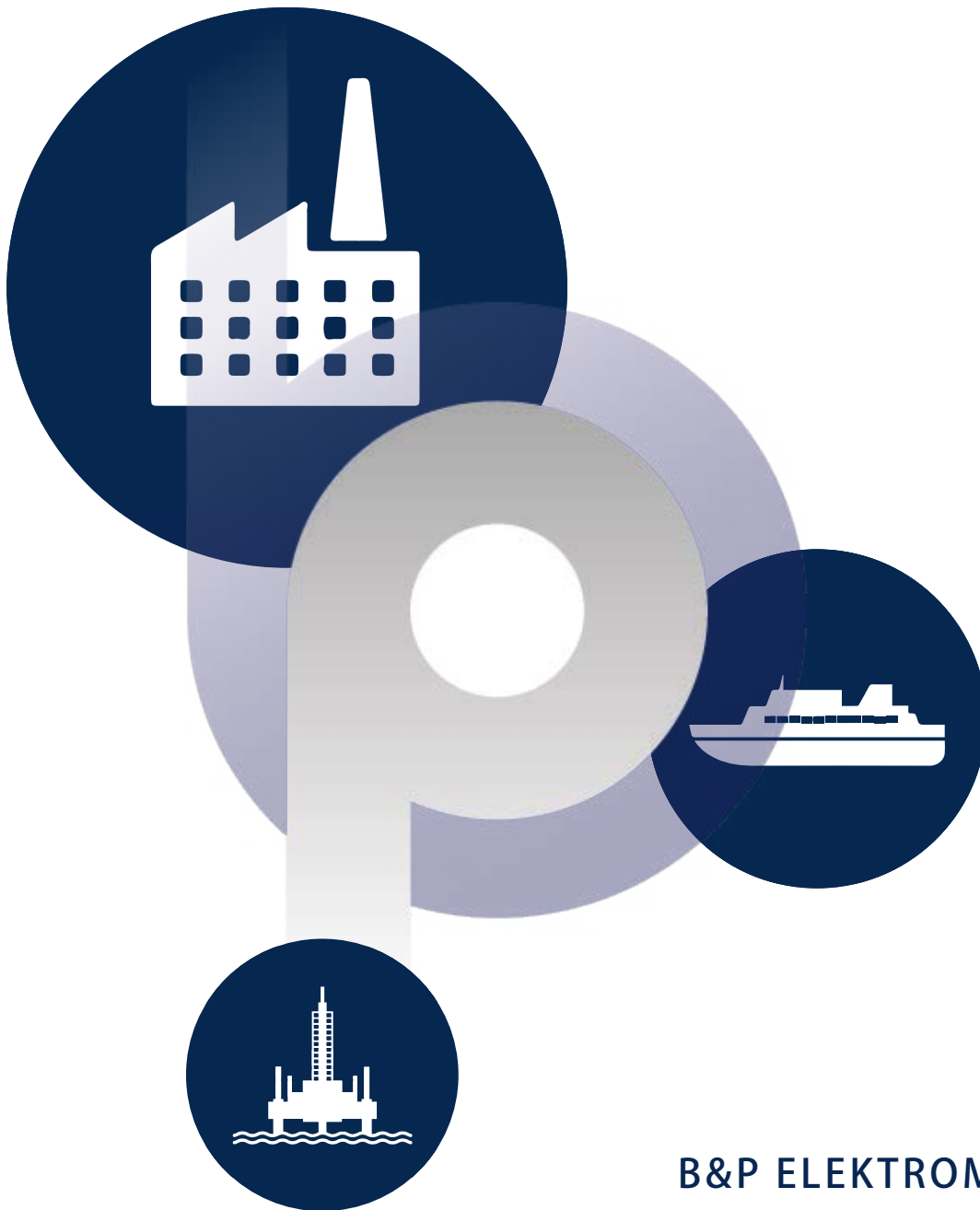
- Other outputs – available upon request
- Other number of poles (10 or 12 poles) – available upon request
- Other mounting forms: Flange FF, C-DIN, NEMA C or D
- Other voltages
- Degree of protection: IP56, IP65, IP66
- Without terminal box (with 1 meter flying leads, extra length available upon request)
- Maximum ambient temperature 50 °C
- Two-speed motor (Dahlander winding or two windings)

WISE® (WEG Insulation System Evolution)

Motor suitable to operate with frequency inverter**, thanks to the exclusive insulation system WISE®, developed by WEG, which enhances the winding insulation resistance.

**Insulation for voltages above 575 V, upon consultation.

Operating with a frequency inverter, the ventilation and air circulation systems may **save up to 70% of electric energy.**



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