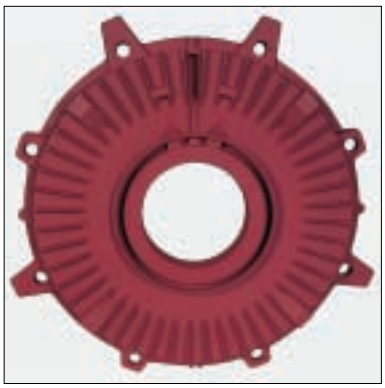
## Frame

Frame and endshields are made of cast iron. Motor feet are cast on. For each shaft centre height only one frame length is used.

**To ensure optimum use of material, the finite element method was used for the design. The frame design ensures the highest possible strength, torsional rigidity, and vibrostability.**

Segmental ribs and asymmetric arrangement of the terminal box make for a larger heat-radiating frame surface. In addition, cooling ribs are arranged on the frame inside around the endwindings.
Main and auxiliary terminal boxes are arranged on the cable duct on top of the frame. Cable entry can be from any direction.
D-end and N-end endshields are identical. Endshields are ribbed inside and out for increased mechanical strength and cooling, respectively.

FEM Frame volume model



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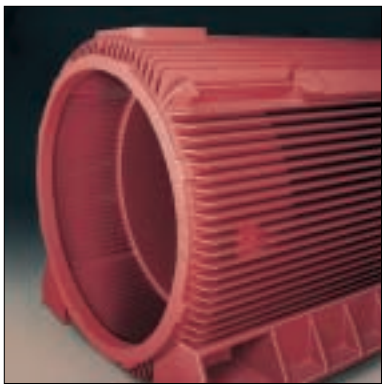
Enshield showing external ribs



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Casting of a size 560 frame

## Corrosion protection

**Paint systems used by us are free from lead and other heavy metals, i. e. they are toxicologically harmless.**

Paint systems for long-term protection are chosen in accordance with site conditions to meet the requirements of climate groups **MODERATE** or **WORLDWIDE** to EN 60721.

■ **Standard paint system for climate group MODERATE**

Suitable for indoor and outdoor installation, normal industrial, non-corrosive atmospheres. Basis of finishing paint: Polyurethane resin

■ **Special paint system for climate group WORLDWIDE**

Suitable for outdoor installation in corrosive chemical atmospheres. Basis of finishing paint: Special plastics

**Both paint systems are resistant to light, resistant to temperatures up to 120°C, non-porous, elastic, and resistant to impact and abrasion.**

Prior to applying the high-quality primer, intermediate and finishing coats either by spraying or flooding, all cast iron parts are thoroughly sandblasted to ensure excellent keying of the coatings and hence a long-term corrosion protection.