

Low voltage cast iron motors for mining applications South African market

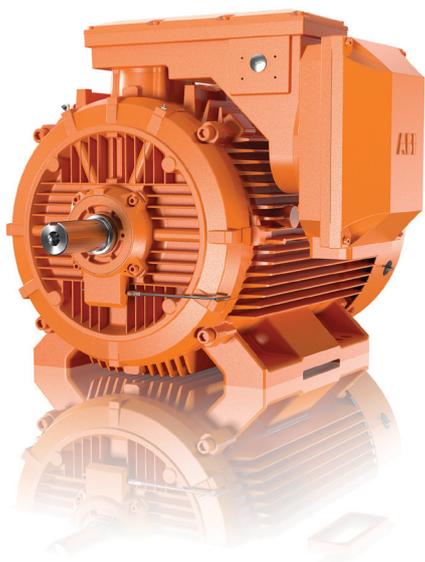


ABB has over 100 years of experience in electric motor design and manufacture. ABB's cast iron mining motor range is based on the motor industry's best practices together with specific mining sector requirements covering efficiency, standards and environmental protection.

Product range

- Output 0.25 to 1000 kW
- Poles 2 to 8 (higher pole numbers on request)
- Frame sizes IEC 71 to 450
- IE3 efficiency class (IE4 on request)
- Available voltages 525-550-950 V (DOL)
- Complies with SANS1804-1/-2

Standard features

- Mechanical dimensions according to SANS1804-2
- Cast iron frames and terminal box
- Protection class IP66 for dust and water
- PTC type winding temperature detectors
- Frame size 160 and above equipped with labyrinth bearing seals
- Painting system C3M acc. to ISO 12944-5:2007
- RAL2011 (orange) surface color
- Frame sizes 225-400 with adapter for terminal box on the side (LRS/RHS)

ABB motors have H class (180°C) varnish and insulation material. Motors fulfill class B temperature rise as standard. This gives a generous thermal margin and moderate class B winding temperature rise to ensure high efficiency as well as lower bearing temperatures, thus extending motors' grease lifetime and lubrication interval.

All motors are suitable for any type of variable-speed drive supply without filters up to 525 V. Terminal box adapter allows the main terminal box to be positioned on the right- or left-hand side of the motor frame.

Recommended optional features depending on application:

- Roller bearing on the drive end for belt driven applications. Option code 037.
- Winding heaters for motors with extended standstill periods. Option code 450 and 451.
- Separate cast iron terminal boxes for instrumentation and heaters. Option code 567, 568, 380, 418.
- Reinforced insulation for variable-speed drive supply with voltage above 525 V. Option code 405.
- Surface treatment upgrades to C4M, C5M and C5M-H. Option code 115, 754, 711.

Additional tailoring options also available.