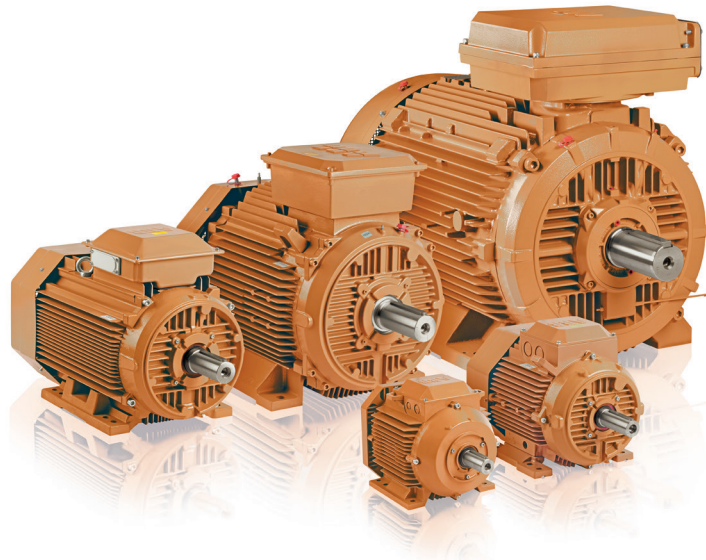


Product note

Low voltage cast iron motors for mining applications South African market



Superior reliability with robust design

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.

- Output: 0.25 – 1000 kW
- Poles 2 to 8 (Higher pole numbers on request)
- Frame size: IEC 71 – 450
- IE3 efficiency class
- Available voltages 230 – 1300 V (DOL)

Standard features

- All cast iron and steel construction
- IP66
- H-class insulation
- Mechanical dimensions according to SANS1804-2
- Frame 160 and above equipped with labyrinth bearing seals
- RAL2011 (orange) surface color
- PTC type winding temperature detectors

Class H insulation with class B temperature rise. ABB's motors have a generous thermal margin and moderate class B winding temperature rise to ensure high efficiency as well as lower bearing temperatures, thus extending grease lifetime and lubrication interval.

All motors are suitable for any type of variable-speed drive supply without filters up to 575 V .

Terminal box side mounting adaptor available as modification part. Adaptor 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 575 V. Option code 405.
- Surface treatment upgrades to C4M, C5M and C5M-H. Option code 115, 754, 711.

Hundreds of additional tailoring options also available. For variants and dimension drawings please see Process performance motor catalog.

For more information please contact:
www.abb.com/motors&generators

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