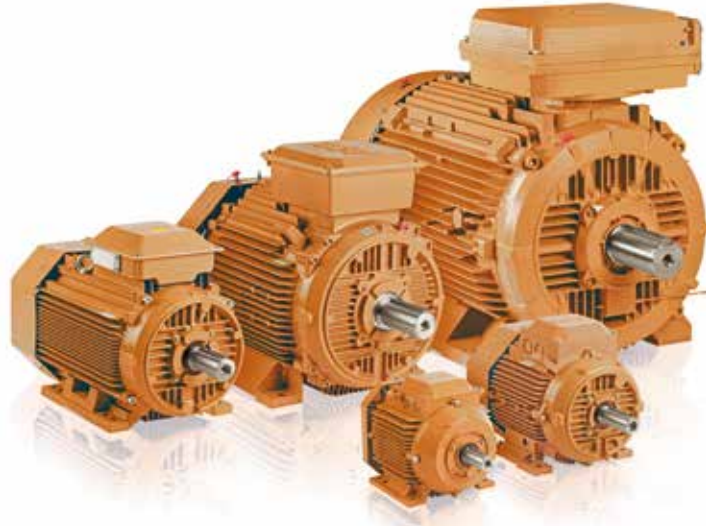


Product note

Low voltage cast iron motors for mining applications



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: 0.55 – 1000 kW
- Poles 2 to 8 (Higher pole numbers on request)
- Frame size: IEC 80 – 450
- IE3 efficiency class
- Available voltages 230 – 1300 V (DOL)

Standard features

- Cast iron frame
- Metal fan (cast iron or steel depending on frame size)
- IP66
- Frame 160 and above equipped with labyrinth bearing seals
- RAL2011 (orange) surface color
- PTC type winding temperature detectors

Class F 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 *.

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. The adaptor also provides a mounting point for additional auxiliary terminal boxes.

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 600 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.

* Up to supply voltage 500 V. From 500 V to 600 V standard insulation technology is applicable if cable length between motor and drive is 150 meters or more. Above 600 V special insulation for VSD duty is mandatory. Above 100 kW output bearing insulation is also required. Maximum voltage with VSD is 700 V.

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

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