

# ABB IEC low voltage motors

## Global product offering

ABB is a leader in power and automation technologies that enable utility, industrial and commercial customers to improve performance, reduce cost and minimize environmental impact. ABB partners with customer-focused distributors to deliver a very wide range of innovative and high-quality products, solutions and services.

Product / Offering	Benefits and features	Suggested applications
<p><b>Standard induction motors</b></p> <p>General performance aluminum motors M1AA 63-250 IE1 M2AA 63-250 IE2, IE3 0,12–55 kW</p>  <p>General performance cast iron motors M2BAX71-355 IE2, IE3 0,25–355 kW</p> <p>Process performance aluminum motors M3AA 63-280 IE2, IE3 0,12–90 kW</p>  <p>Process performance cast iron motors M3BP 71-450 IE2, IE3, IE4 0,25–1000 kW</p>	<p>Simple and light weight, available wherever you are.</p> <p>Competitive, reliable in tough ambient conditions. Available wherever you are.</p> <p>Improve customer’s processes over the total life cycle while achieving significant Energy and maintenance savings. Maximum adaptability to customer needs with light weight and good corrosion resistance.</p> <p>Improve customer’s processes over the total life cycle while achieving significant Energy and maintenance savings. Maximum adaptability to customer needs. Safe running in harsh environments.</p>	<p>Pumps, fans, conveyors, food and beverage machinery, compressors, general machinery</p> <p>Pumps, fans, conveyors, food and beverage machinery, compressors, general machinery</p> <p>Pumps, fans, crushers, mills, centrifugal machines, presses, grinders and general process applications</p> <p>Pumps, fans, crushers, mills, centrifugal machines, presses, grinders and general process applications</p>
<p><b>Motors for explosive atmospheres</b></p> <p>Dust ignition protection motors M3GP 71-450 0,25–1000 kW</p> <p>Flameproof, non-sparking motors</p> 	<p>Maximum security, reliability and flexibility. A very wide range of motors, fully certified by third party according to ATEX and IECEx.</p>	<p>Applications where explosion hazards may exist due to flammable gases, flammable liquid-vapors, combustible liquid-vapors.</p>
<p><b>Motors for marine applications</b></p> <p>Aluminum and cast iron marine motors M3BP 71-450 M2BAX 71-355 M3AA 63-280 0,25–1000 kW</p> 	<p>With the broadest offer of marine motors in the market place, ABB also has the biggest installed base. These motors offer the highest level of confidence with maximum adaptability to customer needs. High efficient for lowest environmental impact and quick investment pay-back.</p>	<p>On deck and under deck pumps, fans, deck cranes, thrusters, winches, hydraulic power packs and compressors.</p>

Product / Offering	Benefits and features	Suggested applications
<p><b>Brake motors</b></p> <p>Specific brake motors M3VR, M3AR 63-132 0,12–11 kW</p>  <p>Cast iron motors M3BP 90-355 with built in brake</p>	<p>Easy selection, economic and with short delivery times.</p> <p>Continuous operation and sustainability, highest tailoring degree. “Just for me” customer convenience.</p>	<p>Horizontal non overhauling applications typically with parking brakes on conveyors and gearing applications.</p> <p>Severe duty applications, typically for vertical overhauling movement, demanding duty cycles or harsh ambient conditions in applications like cranes and hoists, escalators and lifts or machine tools in industries like F&amp;B, Metal, Marine, Mining and Wind.</p>
<p><b>AC induction low inertia motors</b></p> <p>HDP M3EB/H 100-250 3–750 kW</p> 	<p>Operation in harsh conditions needing excellent dynamic response thanks to low inertia. These motors offer high overload capacity and very high power density and can be used to tailor customer's processes to their exact needs.</p>	<p>Applications that need high dynamic response and precise control of angular position, velocity and acceleration. A reliable alternative for DC motors.</p>
<p><b>Mining motors</b></p> <p>Underground mining M3JM 80-355 Ex d I Mb IP66 0,55–710 kW</p>  <p>Safe area mining M3BP 71-450 IP 66 0,37–1000 kW</p>	<p>High ingress IP66 protection ensures maximum tightness and protection against dust. High visibility in dusk and dusty ambients and maximum corrosion resistance. These motors offer maximum reliability while meeting the requirements set by the biggest mining operators.</p>	<p>Mine operations both in surface and underground. The explosion atmospheres version features Group I classification.</p>
<p><b>Motors for special applications</b></p> <p>High speed motors Motors for high ambient temperatures Roller table motors Permanent magnet motors Water cooled motors</p> 	<p>Safe bearing working conditions, state of the art insulation system, maximum tailoring possibilities and good interchangeability.</p>	<p>Motors for a wide range of applications aimed to profitably grow the business of our customers in the process industry.</p>

Please note: This is ABB's global offering and some products might not be available in your country. Refer to [abb.com](http://abb.com) for your location.

# Contact us

## **ABB**

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