



PRODUCT NOTE





IEC low voltage motors

North American 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.

Standard induction motors				
Product / offering		Stock availability in US	Benefits and features	Suggested applications
General performance aluminum motors - Export only		-	Simple and light weight, available wherever you are.	Pumps, fans, conveyors, food and beverage machinery, compressors, general machinery
M2AA 56-250 IE1, IE2 0.06 - 55 kW		-	Competitive, reliable in tough ambient conditions. Available wherever you are.	Pumps, fans, conveyors, food and beverage machinery, compressors, general machinery
General performance cast iron motors M2BAX 71-355 IE2, IE3 0.25 - 355 kW		IE3 K-generation IEC 160-250 11-55 kW	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.	Pumps, fans, crushers, mills, centrifugal machines, presses, grinders and general process applications
Process performance aluminum motors - Can be used in US or exported M3AA 63-280; IE2, IE3 0,12-90 kW		IE3 K-generation IEC 80-280 0.25-90 kW	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.	Pumps, fans, crushers, mills, centrifugal machines, presses, grinders and general process applications
Process performance cast iron motors M3BP 71-450; IE2, IE3, IE4 0,25-1000 kW		-		
Process performance NEMA cast iron motors M3BN 586-588 500-800 HP				


Motors for explosive atmospheres

Product / offering	Stock availability in US	Benefits and features	Suggested applications
<p>Flameproof motors Ex d/Ex de M3JP, M3KP 80-450; IE2, IE3 0.55-950 kW - Export only</p> 	IEC 80-225, 4-pole, 0.55-45 kW	Maximum security, reliability and flexibility. A very wide range of motors, fully certified by third party according to ATEX and IECEx, wide range of local certificates available.	Applications where explosion hazards may exist due to flammable gases or dust, flammable liquid-vapors, combustible liquid-vapors.
<p>Dust ignition protection motors Ex t - Export only</p> 	-		
<p>Cast iron M3GP 71-450; IE2, IE3 0.25-1000 kW</p> 	-		
<p>Aluminum M3AA 71-250, IE2, IE3 0.25-79 kW</p>			
<p>Non-sparking motors Ex nA Cast iron M3GP 71-450; IE2, IE3 0.25-1000 kW - Export only</p> 	IEC 80-280, 4-pole 0.55-90 kW		
<p>Increased safety aluminum motors Ex ec M3AA 160-250 IE2, IE3 11-90 kW - Export only</p>	-		

Other applications

Product / offering	Stock availability in US	Benefits and features	Suggested applications
<p>Motors for marine applications</p> <p>Aluminum motors M3AA 63-280 IE2, IE3 0.12-90 kW - Can be used in US or exported</p> 	IE3 K-generation IEC 160-250 11-55 kW	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 efficiency for lowest environmental impact and quick investment pay-back.	On deck and under deck pumps, fans, deck cranes, thrusters, winches, hydraulic power packs and compressors.
<p>Cast iron motors M3BP 71-450 IE2, IE3, IE4 0.25-1000 kW - Can be used in US or exported</p>	IE3 K-generation IEC 80-280 0.25-90 kW		
<p>Cast iron motors M2BAX 71-355 IE2, IE3 0.25-355 kW - Export only</p>	-		

Product / offering	Stock availability in US	Benefits and features	Suggested applications
<p>Brake motors - Export only Universal aluminum 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 in severe duty applications, with 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&B, Metal, Marine, Mining and Wind.</p>
<p>AC induction low inertia motors - Can be used in US HDP M3EB/M3EH 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>Mining motors - Export only Underground mining M3JM 80-355 Ex d I Mb IP66 0.55-710 kW</p> <p>Safe area mining M3BP 71-450 IP66 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>IEC Stainless steel motors for food and beverage industry - Can be used in US M3MA 80-90, IE3 0.55-1.5 kW</p> <p>M3MA 100-132, IE3 up to 7.5 kW available Q1/2018</p>	-	<p>Withstands extreme washdown conditions - easy to clean, H1 food grade grease used to avoid food contamination and maximize food safety. Encapsulated windings ensure longer lifetime in humid conditions.</p>	<p>Applications in harsh industries like meat, poultry, fish, dairy, beverage and basically wherever high food safety is essential.</p>

Product / offering	Stock availability in US	Benefits and features	Suggested applications
Synchronous reluctance motor-drive packages - Can be used in US M3AL/M3BL 132-315 5.5-315 kW	-	Synchronous reluctance motor-drive packages provide the advantages of permanent magnet motors together with the cost-efficiency, simplicity and service-friendliness of an induction motor. Two packages available: <ul style="list-style-type: none"> · IE4 SynRM package for highest efficiency performance · High output SynRM package for compact machine design 	Suitable for a wide range of applications such as pumps, fans, compressors, extruders, conveyors and mixers.
	-	Safe bearing working conditions, state of the art insulation system, maximum tailoring possibilities and good interchangeability.	Motors for a wide range of applications aimed to profitably grow the business of our customers in the process industry.
Motors for special applications - Can be used in US High speed motors Motors for high ambient temperatures Roller table motors Permanent magnet motors Water cooled motors			