

PRODUCT NOTE

Modular induction motor

Optimized for industry duty solutions



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01 ABB's modular induction motor, type NMI.

Pre-engineered motors

NMI motors combine cost-efficient standardized designs and short lead times with safety, productivity, energy efficiency and reliability. They are targeted at applications where a highly customized motor is not needed.

The pre-engineered N-series complements ABB's A-series engineering motors that can be fine-tuned to the customer's precise needs.

Key benefits



Low cost of ownership

- High power density and efficiency reduces the cost of ownership



High productivity

- Reliable, proven core technology and low vibration



Easy to buy, integrate and use

- Easy to integrate due to compact flexible design



Reliable partner

- Support throughout the whole product lifecycle

ABB's modular induction motor, type NMI, is optimized to meet the industry duty needs of power, water and other industries. With its complete package of services and support, it provides a cost-efficient solution for safe area applications.

Reduced cost of ownership

The NMI modular induction motor's pre-engineered platform ensures ABB can meet customer requirements for short delivery times and on-time delivery.

With its high power density and efficiency, the NMI motor reduces the cost of ownership. In fact, high power density enables it to provide the same output power with a smaller frame size, which means less weight, a smaller installation footprint and lower costs.

The motor is available for horizontal or vertical mounting. Vertical mounting is specifically designed for vertical, condensate and circulating water pumps.

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02 The NMI motor is
available for horizontal
or vertical mounting.

High productivity

Great reliability, ensured by the NMI motor’s proven core technology and low vibration, results in high productivity. Each motor is thoroughly tested before it leaves the factory. Downtime is further reduced by our global ABB service network, a complete portfolio of services covering the entire product life cycle, and spare parts availability.

Easy to buy, integrate and use

The motor is easy to integrate into the process due to its compact design, interface flexibility, and low noise.

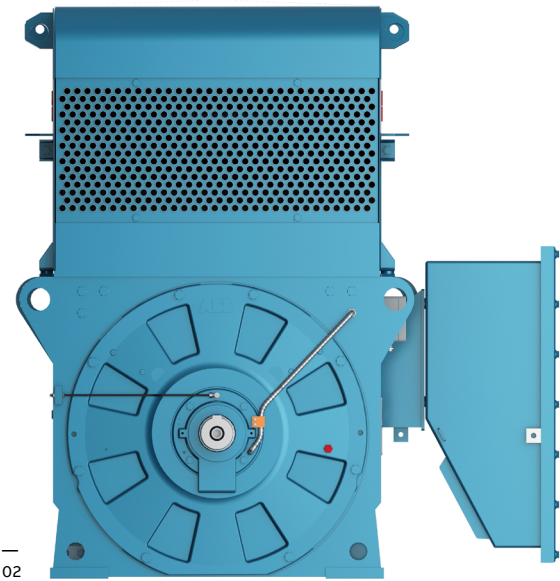
The entire order-to-delivery process has been streamlined by providing easy-to-use online tools: MachSize and DocStage.

Using the MachSize tool, qualified customers and partners can select a number of pre-engineered option packages that have been developed around the needs of specific industries.

DocStage is a web-based system for sharing and managing documentation, which gives customers direct access to documentation and 3D drawings for their motors.

Technical specifications	
Output power	up to 8,100 kW
Frame size	355 to 630
Number of poles	2 to 16
Voltages	up to 13.8 kV
Frequency	50, 60 Hz *)
Ambient	-20°C to +40°C
Cooling method	air-to-air, air-to-water
Protection class	IP55, IP24
Enclosure material	welded steel
Bearings	antifriction and sleeve **)
Mounting	horizontal or vertical ***)
Standards	IEC 60034-1, NEMA MG1(Electrical)
Supply	DOL, VSD ****)
A compressor variant for serial OEMs is also available in frame sizes 400-500.	

*) 60Hz not available for 2 pole
**) Sleeve bearing only available for frame sizes 500-630 and 400-450 2-pole
***) Vertical mounting not available for frame size 355, 2 pole of frame size 400-630, 4 pole of frame size 630
****) 2-pole VSD not available for frame sizes 500-630



Your reliable partner

ABB motors are based on reliable designs, proven in thousands of installations, and provide high productivity in demanding conditions.

With ABB you always have a partner to discuss different motor solutions to optimize your process. Our services do not stop at sales. We make it easy for you to reach us at every stage of your motor’s life cycle.

ABB’s extensive global network ensures local service delivery whenever and wherever you need it. The worldwide network includes over 60 service centers and more than 150 authorized service providers.

We offer predefined maintenance programs for all lifetime phases of all ABB motors, and preventive diagnosis and updates can help to further boost your competitiveness when needed.

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Learn more from the
ABB High voltage modular induction motors page.



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For more information please visit:
new.abb.com/motors-generators

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