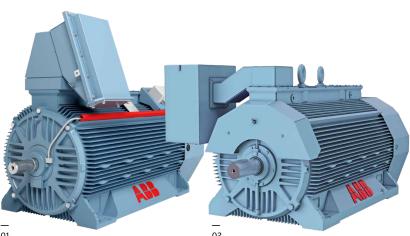


PRODUCT NOTE

NXR series – Rib cooled induction motors

Configured to order motors for different applications



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01 NXR EN (IEC) motor 02 NXR US (NEMA) motor NXR is designed for both direct-online (DOL) and variable speed drive (VSD) operation.

The latest generation of multipurpose rib cooled motors offers high power density, easy configurability and built-in serviceability. They incorporate experience ABB has gained over more than 130 years of manufacturing electric motors.

Configured to order (CTO) motors

NXR EN (IEC) motors are targeted at applications where a highly customized motor is not needed in global. With their standardized designs and short lead times, the NXR IEC standard pre-engineered motors meet most common needs across a wide range of industries.

Modified to order (MTO) motors

NXR US (NEMA) motors for the North America market are available from a North America stocking location with standard features to allow for modified-to-order capability at competitive lead times. ABB's modified-to-order capability enables you to add the modifications to meet your application needs.

High power density for compact installations

The new motors set a benchmark for the industry, offering more watts per kilogram than has ever been achieved before with rib cooled motors. High power density means that for a given output you can often use a motor one frame size smaller than with conventional products. This helps to save space and enables more compact installations.

ABB's latest generation of rib cooled motors, type NXR, offer high power density, easy configurability and built-in serviceability. It is the best solution to meet different applications for power, water and other industries. IEC and NEMA standards are met with dedicated product lines.

Easy to buy

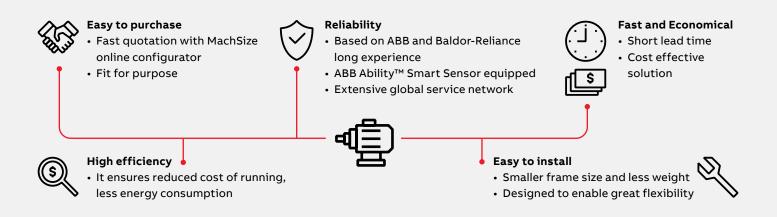
The entire order-to-delivery process has been streamlined by providing easy-to-use online tools: MachSize and DocStage.

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. If you want to try it, please contact ABB.

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

Common key features and benefits

- Rigid, weight-optimized frame is engineered to minimize vibration
- Fixing points make accessory fitting straightforward
- Flexible repositioning of main terminal box on site by ABB service personnel
- Built-in serviceability features reduce downtime and cost of not running
- Optimized ABB motor and VSD packages are easy to install and operate
- 3D models available on request
- ABB Ability™ Smart Sensor is available as an option
- · Performance data, drawings and other information is readily available



NXR EN (IEC) key features and benefits

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- Versions with VSD operation which optimizes the motor's performance, minimizes energy consumption and control your process more accurately
- Interchangeable terminal boxes reduce need for spare motors
- Cable tray for auxiliary wiring ensures clear cable routing, which keeps the airflow free and ribs easy to clean
- Optional ingress protection level available up to IP66

NXR US	(NEMA)	key fe	atures	and	benefits
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- True NEMA mounting in 5000 and 5800 frames for drop in replacement
- One motor type with many possibilities. Product is available for DOL, or VFD, so no need to change between product lines, you can utilize the same product, we design it for you.
- NXR is the general-purpose version for Class I and II Division 2 T-code area
- Thanks to the long experience of over 130 years manufacturing and applying motors, we provide our customers with safe, reliable and efficient solutions to many key applications in industries.

NXR US – Main specifications			
Output power	250 Hp - 1000 Hp		
Frame size	5000, 5800		
Number of poles	2 to 6		
Voltages	460, 2300/4000, 4160		
Frequency	60 Hz (50 Hz re-ratable)		
Standard duty	DOL - 1.15 VFD - 1.00		
Insulation class	F		
Cooling	TEFC (IC411), TEBC (IC416)		
Protection	IP54 (option IP55)		
Enclosure material	Cast iron		
Bearings	Ball and roller (convertible)		
Mounting	Horizontal or wall-mount		
tandards NEMA MG-1 part 20 and IE			



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Output power	100 to 1800 kW	
Frame size	315 to 500	
Number of poles	2 to 12	
Voltages	Up to 11.5 kV	
Frequency	50/60 Hz, VSD	
Standard duty	S1	
Insulation class	F	
Cooling	IC411, IC416	
Protection	IP55 (optionally IP56, IP65 and IP66)	
Enclosure material	Cast iron	
Bearings	Antifriction / Sleeve (NXR 500 2-pole)	
Mounting	Horizontal or Vertical	
Standards	IEC (electrically NEMA feature available)	



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