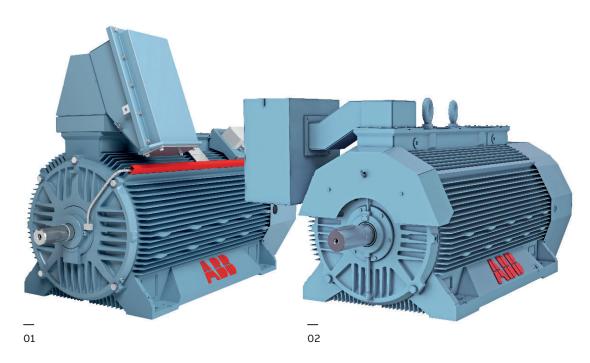


PRODUCT NOTE

NXR series – Rib cooled induction motors

Configured to order motors for different applications



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.

O1 NXR EN (IEC) motor

O2 NXR US (NEMA) motor

NXR is designed for both direct-online (DOL) and variable speed drive (VSD) operation.

Configured to order (CTO) motors

NXR EN (IEC) and NXR US (NEMA) 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.

They incorporate experience ABB and Baldor-Reliance have gained over more than 130 years of manufacturing electric motors.

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.

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
- Provided with ABB Ability[™] Smart Sensor mounted as default and for free
- Performance data, drawings and other information is readily available



Easy to purchase

- Fast quotation with MachSize online configurator
- Fit for purpose

High efficiency



Reliability

- Based on ABB and Baldor-Reliance long experience
- ABB Ability[™] Smart Sensor equipped
- Extensive global service network



Fast and Economical

- Short lead time
- Cost effective solution



Easy to install

- · Smaller frame size and less weigh
- · Designed to enable great flexibility



NXR EN (IEC) key features and benefits

- 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

It ensures reduced cost of running,

less energy consumption

- 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 EN – Main specifications	
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 or Sleeve
Mounting	Horizontal or Vertical
Standards	IEC (electrically NEMA feature available)

NXR US (NEMA) key features and benefits

- 3.5 PU surge capability
- Suitable for use on a VFD 2:1 CT/10:1 VT (most ratings)
- CSA Approved
- · Class I Division II Group C &D approved
- Insulated ODE bearing
- The paint is a specially formulated modified epoxy coating with UV protection
- Shaft extension modifications that allow drop in replacements - 5000 and 5800 frames

NXR US – Main specifications	
Output power	250 Hp - 1750 Hp
Frame size	5008 to 7110
Number of poles	2 to 8
Voltages	460, 2340/4000
Frequency	60 Hz (50 Hz re-ratable)
Standard duty	DOL - 1.15 VFD - 1.00
Insulation class	F
Cooling	TEFC, TEBC
Protection	IP54 (option IP55)
Enclosure material	Cast iron
Bearings	Ball and roller (convertible)
Mounting	Horizontal
Standards	Above NEMA





For more information please visit: