

PRODUCT NOTE

# ABB NXR 5000 and 5800 frame motors

Designed and Manufactured by ABB



ABB NXR 5000 and 5800 frame motors continue to be designed and engineered to meet the demands of the North America market, including local support and availability.

We value our North American customers, therefore providing reliable, applicable and easy-to-buy NXR motors remains one of our top priorities.

### Designed for North America

ABB NXR motors for use in North America are designed and engineered in North America with NEMA frames to meet market needs.

### Modified for you

We remain committed to providing you the motor you need when you need it. NXR 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.

Working with your local sales teams and North America based ABB application engineers, ABB's modified-to-order capability enables you to add the modifications to meet your application needs.

### Made by ABB

ABB has been manufacturing industrial electric motors for more than 125 years and this experience is built into every ABB high voltage induction motor. Every NXR motor is designed with cost-efficient, standardized designs to be safe, energy efficient and reliable.

### Supported in North America

Local people and expertise remain at the core of our offering. ABB NXR motors are supported by a dedicated sales force and application engineering team in North America to ensure we are always taking care of you.



#### Dedicated salesforce

ABB's dedicated Large AC salesforce is located throughout North America to work with you on your large motor needs.



#### Application engineering

Local engineering teams with deep application knowledge ensure proper design and motor selection.



#### ABB Services

Local certified ABB service technicians and authorized service repair facilities are there for the lifecycle of your motor, to reduce unplanned downtime and extend equipment life.



#### Training

ABB offers on-site, classroom and online training.

## Designed for you - Made by ABB

Buying low and medium voltage motors has never been easier. ABB's NXR general purpose motors combine cost-efficient standardized designs and short lead times with safety, productivity, energy efficiency and reliability.

### ABB's modified-to-order capability enables you to add the modifications to meet your application needs.

ABB NXR modifications are completed in our Athens, GA USA factory. The Athens facility will continue to expand the modification capabilities offering to meet your needs.

### ABB NXR motors up to 1000 Hp are stocked in the US with the following features:

- Stock completed motors 460V and 2300/4000V
- 2-6 pole
- 100 ohm platinum winding RTDs - Stators have 7 RTDS - 2 per phase (one spare)
- Corrosion-resistant paint protection on interior metal surfaces
- Cast iron frame and end brackets
- 0.005" foot flatness
- Insulated ODE bearing and brackets
- Stainless steel hardware - ANSI
- Class F insulation
- Service Factor of 1.15 DOL
- 3.5 PU surge capability
- Suitable for use on a VSD 2:1 CT / 10:1 VT (4:1 CT with blower Mod)
- CSA approval Class 1 Div II
- IP54 - Standard - IP55 with Mod
- 100 ohm platinum winding RTDs
- Coil head space heaters
- Stock brackets, caps, lead channels and NEMA MTBs
- Standard auxiliary box for accessories – non-metallic
- Performance data, drawings and other information is readily available

### Available modifications:

- ABB Ability Smart Sensor for motors
- Standard NXR rerates
- Bearing changes – Ball to roller
- Bearing RTDs provisions
- Blower kits for blower cooling (with tach)
- Shaft ground for non-CSA motors
- Vibration provisions
- Modifiable MTB positions – F1, F2, F3

### All ABB NXR motors are designed to match customer needs and requirements for quality, safety and dependability.



Modified-to-order capability allows for application specific offerings



Global supply chain with localized support



Patented internal cooling allows for more power per pound



Installation made easy due to flexible foundations and simple lead connections

