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*Smart Energy and Sustainable Growth*
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ABB

NEMA MOTORS

# General Purpose motors

## Proven, reliable, available

BALDOR • RELIANCE

**Baldor-Reliance® General Purpose motors are energy efficient, durable, and readily available, minimizing overall operating costs and downtime. The robust design offers industry leading reliability, flexibility, and safety to meet the exact demands of a wide range of applications.**

# **Proven, reliable, available**
## Minimize your operating costs

As the world market leader, ABB offers the broadest range of NEMA motors available. We have long advocated the need for efficiency in motors, and highly efficient and reliable products have been at the core of our motor portfolio for decades.

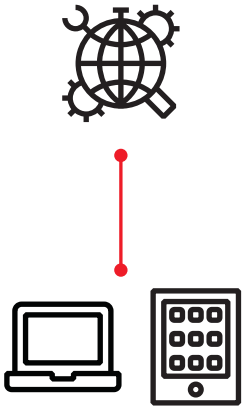
Baldor-Reliance General Purpose motors are energy efficient, durable, and readily available, minimizing overall operating costs and downtime. The robust design offers industry leading reliability, flexibility, and safety to meet the exact demands of a wide range of applications.

From lowering energy consumption and keeping your energy costs at a minimum to building rugged and robust motors that maximize productivity, we are committed to continuous innovation: applying new technologies to improve reliability and energy efficiency, lowering overall operating costs and downtime for the processing industries.

Whether that means designing a product for your specific application, accessing technical data or how you place your order, we make it easy to do business with us.

**When and where you need a motor**
Built in US manufacturing facilities and available from our industry leading global distribution network, Baldor-Reliance® motors are available when and where you need them. Visit baldor.abb.com to find a local distributor or service center. For a full list of ratings, visit **baldor.abb.com/catalog**

**Technical information at your fingertips**
Industry's best information making you more efficient and productive. Whether you are researching technical information on a specific product, designing a custom motor, or placing an order, our VIP ecommerce site has it all. Visit **www.baldorvip.com**



# No matter the environment, General Purpose motors are workhorses

## Robust design is strong inside and out

—
01 High grade materials make up a strong insulation system with Class F insulation and Class B temperature rise for operation in higher ambient temperature, overload conditions, and voltage tolerances.
—
02 Quickly and easily read motor nameplate specifications with a durable, high contrast nameplate.
—
03 Cast Iron / Steel band options allows you to choose the best option for the application and environment.
—
04 Stator end turns are fully laced to minimize conductor movement. Stators are dipped in modified, high solids content, UL recognized impregnating resin to eliminate corona and promote insulation longevity.

The extensive line of Baldor-Reliance single phase and three phase General Purpose motors are available in a wide variety of enclosure construction from industrial steel band open designs where water and dust exposure are moderate; to totally enclosed cast iron designs where exposure to water, dust, and corrosives exists.

While designed for standard and straightforward uses, general purpose motors can be modified to meet most specifications.

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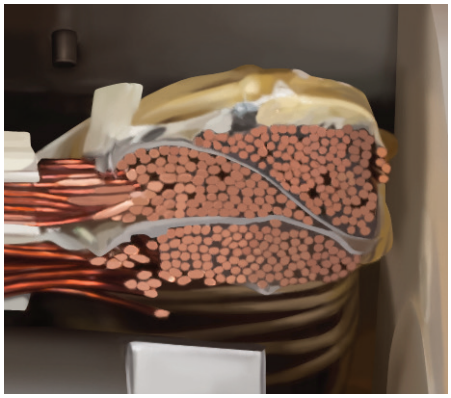

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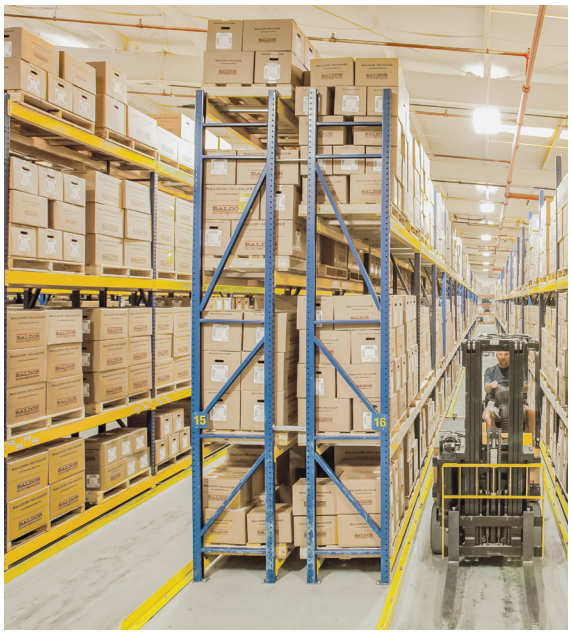
For a full list of ratings, visit www.baldor.com/catalog

# Minimize your capital costs
## Standardize on-site inventory

**In stock, ready to ship**
Baldor-Reliance General Purpose motors are the ideal choice when off-the-shelf availability is of highest importance. General Purpose motors are versatile to perform reliably in a variety of operations where highly custom and hazardous location certifications are not needed.

With a wide breadth of ratings and mounting configurations, you can reduce and standardize your on-site inventory to minimize capital costs.

**When off the shelf doesn't cut it**
Our time-saving local technical experts get to know your unique needs and requirements, so we can truly provide a motor that fits and meets your requirements. Work with our experienced engineering and manufacturing teams to ensure you get the right motor for your application. Visit **www.baldor.com/VIP**.

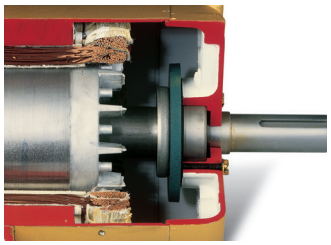


**Motor Mod-Express®**
Adaptable to your requirements, our industry leading regional Motor Mod Express program allows you to order a stock motor with a wide variety of additional features without going through a review and design process. Utilizing on-site inventory, we can quickly modify the motor and ship on short lead times.

For a full list of ratings, visit www.baldor.com/catalog

# Ready for any challenge

—
01 Internally mounted AEGIS® bearing protection ring bolts onto the bearing retainer ring
—
02 Designed and tested by our own engineering team, our carbon shaft grounding brush is spring loaded to maintain contact with the rotating shaft.
—
03 Brakes are available through 450 HP models
—
04 A variety of pump mounting configurations are available



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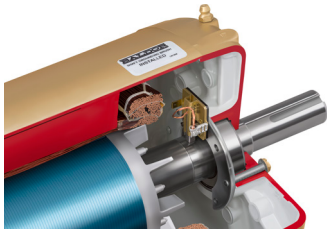

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General Purpose three phase motors are designed for both direct on line (DOL) and variable-speed operation. Designed to work over a wide variable torque speed range, these motors have an insulation system that meets the requirements of NEMA MG1 Part 31.4.4.2 for VFD use and are considered Inverter Ready.

**Bearing protection from induced currents**
To protect your critical asset from shaft induced currents that can be harmful to the motor, we offer an off-the-shelf solution. Shaft grounding motors feature bearing current mitigation devices mounted internally, shielding them from dust and other contaminants. Choose from options available from stock, through our Motor Mod Express program, or through custom configuration.

**Fast, accurate, and secure braking**
Operations and processes that face frequent cycling, starting, and stopping require a motor that can aid with decelerating the load and by holding the load in the event of an interrupted power supply. We offer an extensive line of brakemotors for these demanding applications.

**Pumping efficiency and reliability**
Baldor-Reliance pump motors provide exceptional value by increasing reliability and reducing maintenance costs. With an industry leading portfolio of premium efficient pump motors, we can meet your industrial and commercial applications. We help you save money by using winding designs that are industry leading in efficiency and can be counted on to stand up over time to the challenges of inverter use.

For a full list of ratings, visit www.baldor.com/catalog

BALDOR
Super-E
PREMIUM EFFICIENT INDUSTRIAL MOTOR
BALDOR · RELIANCE
Super-E Motor

# Shift to predictive maintenance

## Full transparency on motor health conditions

Convert your traditional motors into smart, wirelessly connected devices. The ABB Ability™ Smart Sensor measures key attributes to give you meaningful information on the condition and performance of the motor. This enables you to identify inefficiencies and reduce the risk of unplanned shutdowns. This allows you to plan maintenance based on actual need rather than a generic schedule.

**Easy-to-fit**

At the heart of the solution is a compact sensor unit that is easily attached to motors without the need for wiring. For already installed motors, retrofit kits are available that enable motors to be field upgraded with sensors. Mounting and configuring the sensors takes only a few minutes.

**Health checks**

Based on ABB's extensive know-how, advanced algorithms are used to analyze the data and produce meaningful information. The server sends this information directly to a smartphone or gateway and to a dedicated ABB Ability™ Smart Sensor portal. Data is also tracked over time for trend analysis.

# Find your solution

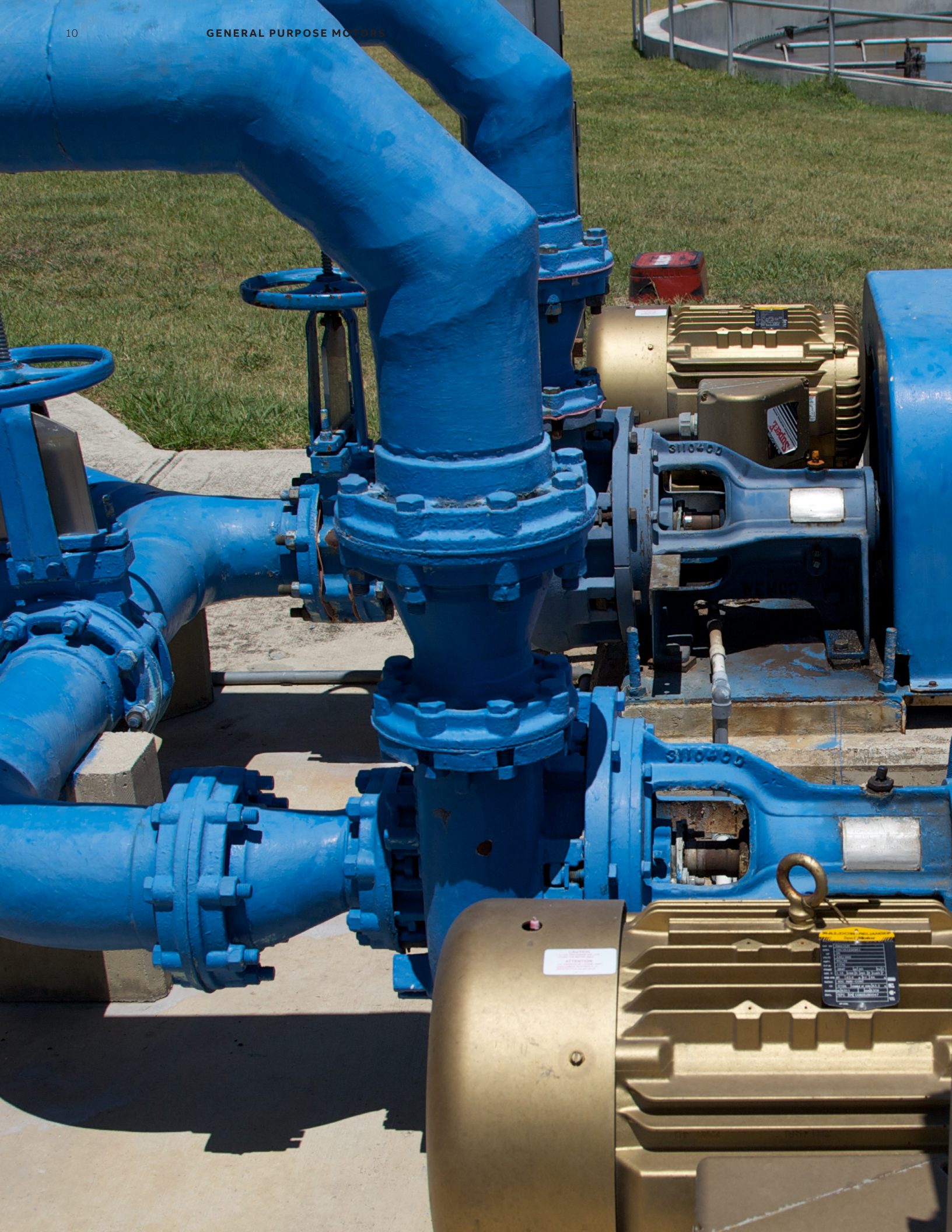
## General Purpose motor offering

| | Three phase Totally enclosed | Single phase Totally enclosed |
|---|---|---|
| **NEMA frame** | 42 - 500 | 42 - 250T |
| **Hp** | 1/8 - 400 | 1/12 - 15 |
| **Voltage 60 Hz** | 115/208 - 230 volts (Single phase)<br>115/230 volts (Single phase)<br>200 volts<br>230/460 volts<br>460 volts<br>575 volts | |
| **Speed** | 3600 RPM<br>1800 RPM<br>1200 RPM<br>900 RPM | |
| **IP code** | IP44* | |
| **Mounting style** | Foot mounted<br>C-face<br>C-face footless<br>JM, JP, West Coast pump | |
| **Frame material** | Heavy gauge steel frame<br>Cast Iron | |

*IP54 when Drain Fitting Kit #HA5027A03 is installed

| | Three phase Open | Single phase Open |
|---|---|---|
| **NEMA frame** | 48 - 449T | 48 - 210T |
| **Hp** | 1/4 - 450 | 1/6 - 10 |
| **Voltage 60 Hz** | 115/208 - 230 volts (Single phase)<br>115/230 volts (Single phase)<br>200 volts<br>230/460 volts<br>460 volts<br>575 volts | |
| **Speed** | 3600 RPM<br>1800 RPM<br>1200 RPM<br>900 RPM | |
| **IP code** | IP22 | |
| **Mounting style** | Foot mounted<br>C-face<br>C-face footless<br>JM, JP, West Coast pump | |
| **Frame material** | Heavy gauge steel frame<br>Cast Iron | |

For a full list of ratings, visit www.baldor.com/catalog



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**new.abb.com/motors-generators**

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