



SOLUTIONS FOR

# Industry & Automation

PRODUCT RANGE



# Electric Motors

Bonfiglioli offers asynchronous and synchronous electric motors, in different sizes and powers, to suit any application.

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## GENERAL PURPOSE

Our standard general-purpose motors deliver reliable performance across a wide spectrum of industrial applications. They are built with quality materials and rigorously tested to minimize downtime, ensuring your operations run smoothly and efficiently.



Bonfiglioli

**IE1**

## BN/M Series <sup>(1)</sup>

The Bonfiglioli BN/M series of cost-effective 3-phase asynchronous induction motors are perfect for general purpose industrial applications.

These aluminum-framed motors offer: Availability in 2, 4, 6 poles configuration in both IEC and compact version.



## INDUCTION TECHNOLOGY

## MAIN BENEFITS

- Minimized mounting space thanks to compact flanges
- Minimal maintenance required
- Easy and flexible installation
- Excellent performance for heavy-duty applications
- Many options available
- Several certifications available

## TECHNICAL DATA

| 2 poles |  | Sizes   |         | Power [kW] |  |
|---------|--|---------|---------|------------|--|
|         |  | 4 poles | 6 poles |            |  |
|         |  | 56A     |         | 0.06       |  |
|         |  | 56B     | 63A     | 0.09       |  |
|         |  | 63A     | 63B     | 0.12       |  |
| 63A     |  | 63B     | 71A     | 0.18       |  |
| 63B     |  | 63C     | 71B     | 0.25       |  |
|         |  | 71A     |         |            |  |
| 71A     |  | 71B     | 71C     | 0.37       |  |
|         |  |         | 80A     |            |  |
| 71B     |  | 71C     | 80B     | 0.55       |  |
|         |  | 80A     |         |            |  |
| 71C     |  |         | 80C     |            |  |
| 80A     |  | 80B     | 90S     | 0.75       |  |
|         |  |         |         |            |  |
| 80B     |  | 80C     | 90L     | 1.1        |  |
|         |  | 90S     |         |            |  |
| 90SA    |  | 90LA    | 100LA   | 1.5        |  |
| 90SB    |  | 90LB    | 100LB   | 1.85       |  |
| 90L     |  | 100LA   | 112M    | 2.2        |  |
| 100L    |  | 100LB   | 132S    | 3          |  |
| 112M    |  | 112M    | 132MA   | 4          |  |
| 132SA   |  | 132S    | 132MB   | 5.5        |  |
| 132SB   |  | 132MA   | 160M    | 7.5        |  |
| 132M    |  | 132MB   |         | 9.2        |  |
| 160MR   |  | 160MR   |         |            |  |
| 160M    |  | 160M    | 160L    | 11         |  |
| 160MB   |  | 160L    | 180L    | 15         |  |
| 160L    |  | 180M    | 200LA   | 18.5       |  |
| 180M    |  | 180L    |         | 22         |  |
| 200LA   |  | 200L    |         | 30         |  |

## MAIN OPTIONS

| MAIN OPTIONS                                                                        |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                      |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Design versions                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     | Poles                                                                               |                                                                                     |                                                                                      | Insulation class                                                                      | IP protection                                                                         | Shaft extension                                                                       | Cooling                                                                               |                                                                                       |
|  |  |  |  |  |  |  |  |  |   |    |  |  |  |                                                                                       |
| B3                                                                                  | B14                                                                                 | B5                                                                                  | B34                                                                                 | B35                                                                                 | B5R                                                                                 | B14R                                                                                | 2                                                                                   | 4                                                                                   | 6                                                                                    | UP TO CL H                                                                            | UP TO IP56                                                                            | SECOND SHAFT EXTENSION                                                                | FORCED VENTILATION                                                                    |                                                                                       |
| Heaters                                                                             |                                                                                     | Winding treatment                                                                   | Corrosion protection                                                                |                                                                                     | Winding protection                                                                  |                                                                                     | Brake                                                                               |                                                                                     |                                                                                      | Feedback                                                                              |                                                                                       | Guard                                                                                 | Service type                                                                          |                                                                                       |
|  |                                                                                     |  |  |                                                                                     |  |                                                                                     |  |  |  |  |                                                                                       |  |  |  |
| ANTI CONDENSATION HEATERS                                                           |                                                                                     | TROPICALIZATION                                                                     | PAINTING CLASS UP TO CS <sup>(2)</sup>                                              |                                                                                     | THERMAL PROTECTIVE DEVICES                                                          |                                                                                     | DC BRAKE                                                                            | RELEASE LEVER                                                                       | MICRO SWITCH                                                                         | ENCODER                                                                               |                                                                                       | RAIN - TEXTILE GUARD                                                                  | S2                                                                                    | S3                                                                                    |

(1) Starting July 1<sup>st</sup>, 2021, the Ecodesign Directive (EU) 2019/1781 introduces new binding energy efficiency requirements for induction motors. According to this regulation, BN/M motors are available for discontinuous duty only for powers equal and above 0.12kW.

(2) Motors can be supplied with surface protection class C5 according to UNI EN ISO 12944-2. Contact Bonfiglioli's technical service for further details.



## IE2

### BE/ME Series <sup>(1)</sup>

The Bonfiglioli BE/ME series of cost-effective 3-phase asynchronous induction motors are perfect for general purpose industrial applications.

These aluminum-framed motors offer: Availability in 2, 4, 6 poles configuration in both IEC and compact version.



INDUCTION TECHNOLOGY

### MAIN BENEFITS

- Minimized mounting space thanks to compact flanges
- Minimal maintenance required
- Easy and flexible installation
- Excellent performance for heavy-duty applications
- Many options available
- Several certifications available

### TECHNICAL DATA

| Sizes   |         |         | Power |
|---------|---------|---------|-------|
| 2 poles | 4 poles | 6 poles | [kW]  |
|         | 63A     |         | 0.12  |
|         | 63B     |         | 0.18  |
|         | 71A     |         | 0.25  |
|         | 71B     |         | 0.37  |
|         | 80A     |         | 0.55  |
| 80A     | 80B     | 90S     | 0.75  |
| 80B     | 90S     | 100M    | 1.1   |
| 90SA    | 90LA    | 100LA   | 1.5   |
| 90L     | 100LA   | 112M    | 2.2   |
| 100L    | 100LB   | 132S    | 3     |
| 112M    | 112M    | 132MA   | 4     |
| 132SA   | 132S    | 160MA   | 5.5   |
| 132SB   | 132MA   | 160MB   | 7.5   |
| 132MB   | 132MB   |         | 9.2   |
| 160MA   | 160M    |         | 11    |
| 160MB   | 160L    |         | 15    |
| 160L    | 180M    |         | 18.5  |
|         | 180L    |         | 22    |

### MAIN OPTIONS

| Design versions           |                   |                                        |                            |          |               |              |  | Poles | Insulation class | IP protection | Shaft extension        | Cooling              |
|---------------------------|-------------------|----------------------------------------|----------------------------|----------|---------------|--------------|--|-------|------------------|---------------|------------------------|----------------------|
|                           |                   |                                        |                            |          |               |              |  |       |                  |               |                        |                      |
| B3                        | B14               | B5                                     | B34                        | B35      | BSR           | B14R         |  | 2     | 4                | 6             |                        |                      |
|                           |                   |                                        |                            |          |               |              |  |       | UP TO CL H       | UP TO IP56    | SECOND SHAFT EXTENSION | FORCED VENTILATION   |
| Heaters                   | Winding treatment | Corrosion protection                   | Winding protection         | Brake    | Feedback      | Guard        |  |       |                  |               |                        |                      |
|                           |                   |                                        |                            |          |               |              |  |       |                  |               |                        |                      |
| ANTI CONDENSATION HEATERS | TROPICALIZATION   | PAINTING CLASS UP TO C5 <sup>(2)</sup> | THERMAL PROTECTIVE DEVICES | DC BRAKE | RELEASE LEVER | MICRO SWITCH |  |       |                  |               |                        |                      |
|                           |                   |                                        |                            |          |               |              |  |       |                  |               | ENCODER                | RAIN - TEXTILE GUARD |

(1) Starting July 1<sup>st</sup>, 2021, the Ecodesign Directive (EU) 2019/1781 introduces new binding energy efficiency requirements for induction motors. According to this regulation, BE/ME motors are available for discontinuous duty only for powers equal and above 0.75kW.

(2) Motors can be supplied with surface protection class C5 according to UNI EN ISO 12944-2. Contact Bonfiglioli's technical service for further details.

IE3

## BX/MX Series <sup>(1)</sup>

The Bonfiglioli BX/MX series of cost-effective 3-phase asynchronous induction motors are perfect for general purpose industrial applications.

These aluminum-framed motors offer: Availability 4 poles configuration in both IEC and compact version.



INDUCTION TECHNOLOGY

## MAIN BENEFITS

- Minimized mounting space thanks to compact flanges
- Minimal maintenance required
- Easy and flexible installation
- Excellent performance for heavy-duty applications
- Many options available
- Several certifications available

## TECHNICAL DATA

| Sizes   | Power |
|---------|-------|
| 4 poles | [kW]  |
| 63A     | 0,12  |
| 63B     | 0,18  |
| 63C     | 0,25  |
| 71A     | 0,25  |
| 71B     | 0,37  |
| 80A     | 0,55  |
| 80B     | 0,75  |
| 90S     | 1,1   |
| 90LA    | 1,5   |
| 100LA   | 2,2   |
| 100LB   | 3     |
| 112M    | 4     |
| 132S    | 5,5   |
| 132MA   | 7,5   |
| 132MB   | 9,2   |
| 160M    | 11    |

| Sizes   | Power |
|---------|-------|
| 4 poles | [kW]  |
| 160L    | 15    |
| 180M    | 18,5  |
| 180L    | 22    |
| 200LAK  | 30    |
| 225SAK  | 37    |
| 225SBK  | 45    |
| 250MAK  | 55    |
| 280SAK  | 75    |
| 280BSK  | 90    |
| 315SAK  | 110   |
| 315SBK  | 132   |
| 315SCK  | 160   |
| 315MAK  | 200   |
| 355MAK  | 250   |
| 355MBK  | 315   |
| 355MCK  | 355   |

## MAIN OPTIONS

| Design versions                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                       | Insulation class                                                                      | IP protection                                                                       | Shaft extension                                                                       | Cooling                                                                               | Heaters                                                                               |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  |  |  |  |  |  |    |    |  |  |  |  |
| B3                                                                                  | B14                                                                                 | B5                                                                                  | B34                                                                                 | B35                                                                                 | B5R                                                                                 | B14R                                                                                  | UP TO CL H                                                                            | UP TO IP56                                                                          | SECOND SHAFT EXTENSION                                                                | FORCED VENTILATION                                                                    | ANTI CONDENSATION HEATERS                                                             |
| Winding treatment                                                                   | Corrosion protection                                                                | Winding protection                                                                  | Brake                                                                               |                                                                                     |                                                                                     | Feedback                                                                              | Guard                                                                                 |                                                                                     |                                                                                       |                                                                                       |                                                                                       |
|  |  |  |  |  |  |  |  |                                                                                     |                                                                                       |                                                                                       |                                                                                       |
| TROPICALIZATION                                                                     | PAINTING CLASS UP TO C5 <sup>(2)</sup>                                              | THERMAL PROTECTIVE DEVICES                                                          | DC BRAKE                                                                            | RELEASE LEVER                                                                       | MICRO SWITCH                                                                        | ENCODER                                                                               | RAIN - TEXTILE GUARD                                                                  |                                                                                     |                                                                                       |                                                                                       |                                                                                       |

(1) Starting July 1<sup>st</sup>, 2023, the Ecodesign Directive (EU) 2019/1781 introduces new binding energy efficiency requirements for induction motors. According to this regulation, BX heavy duty motors without brake are available for discontinuous duty only in the power range from 75 to 200kW.

(2) Motors can be supplied with surface protection class C5 according to UNI EN ISO 12944-2. Contact Bonfiglioli's technical service for further details.

## IE4

### BY Series

The Bonfiglioli BY series from 75kW to 200kW are 3-phase asynchronous induction motors suitable for general purpose industrial applications. These cast iron-framed motors offer: Availability 4 poles configuration in IEC version.



INDUCTION TECHNOLOGY

### MAIN BENEFITS

- High torque at low speeds
- Minimal maintenance required
- Easy and flexible installation
- Excellent performance for heavy-duty applications
- Long life and resistance to harsh operating conditions

### TECHNICAL DATA

| Sizes   | Power [kW] |
|---------|------------|
| 4 poles |            |
| 280SAK  | 75         |
| 280BSK  | 90         |
| 315SAK  | 110        |
| 315SBK  | 132        |
| 315SCK  | 160        |
| 315MAK  | 200        |

### MAIN OPTIONS

| Design versions                                                                     |                                                                                     |                                                                                     | Insulation class                                                                    | IP protection                                                                       | Shaft extension                                                                       | Cooling                                                                               |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  |  |  |  |  |   |  |
| B3                                                                                  | B5                                                                                  | B35                                                                                 | UP TO CL H                                                                          | UP TO IP56                                                                          | SECOND SHAFT                                                                          | FORCED VENTILATION                                                                    |
| Heaters                                                                             |                                                                                     | Winding treatment                                                                   | Corrosion protection                                                                | Winding protection                                                                  | Feedback                                                                              | Guard                                                                                 |
|  |                                                                                     |  |  |  |  |  |
| ANTI CONDENSATION HEATERS                                                           |                                                                                     | TROPICALIZATION                                                                     | PAINTING CLASS UP TO C5 <sup>(1)</sup>                                              | THERMAL PROTECTIVE DEVICES                                                          | HEAVY DUTY ENCODER                                                                    | RAIN GUARD                                                                            |

(1) Motors can be supplied with surface protection class C5 according to UNI EN ISO 12944-2. Contact Bonfiglioli's technical service for further details.



2535  
870

MODEL:428

GMB

7239  
572



# Eplan



## ENHANCE YOUR ELECTRICAL DESIGN

Intense competition is putting pressure on machine builders and system integrators to deliver machines with higher throughput and reduced operating cost in shorter timeframes, leading to a significant increase in the complexity of the machine design process.



DOCUMENTS



MULTILANGUAGE  
SUPPORT



COMMERCIAL  
DATA



LOGIC  
DATA



2D/3D  
DATA



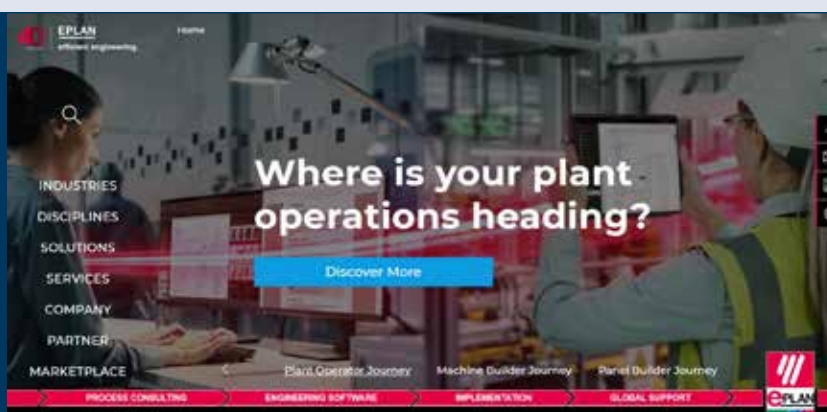
PRODUCTION  
DATA

## SYSTEM DESIGN CHALLENGE

Bonfiglioli and EPLAN work together to provide efficient engineering solutions, aimed at reducing the gap between the initial concept and its development, programming and commissioning.

- **Better quality of documentation:** the EPLAN Data Portal provides users with up-to-date device data from numerous component manufacturers, saving time for manual data collection and minimizing the risks of faulty data.
- **Shorter system design times:** by including macro-information, function templates, production data and drawings, EPLAN allows users to drag and drop Bonfiglioli drawing templates into their own electrical drawings, reducing the time needed for cabinet planning.

## BONFIGLIOLI PRODUCTS AVAILABLE ON EPLAN DATA PORTAL



ACTIVE NEXT  
GENERATION SERIES



ACTIVE CUBE  
SERIES



AGILE  
SERIES



AXIAVERT  
SERIES

# Smart Sizer



## COMPLETE SIZING FOR DRIVE AND TRANSMISSION SOLUTIONS

Smart Sizer is a software tool that supports customers in sizing **fully integrated multi-axis servo systems**, including motors, gear units and servo drives, for up to 50 axes in either shared or independent configurations.



## INTUITIVE MECHATRONIC SIZING TOOL FOR CUSTOMERS AND CAE ENGINEERS

With Smart Sizer, customers can select, size and design their own customised, high-performance applications. In addition, the Bonfiglioli engineering team, drawing on its in-depth product expertise, uses Smart Sizer to provide a high-quality customer support service, developing optimised, energy-efficient and tailored engineering solutions to meet individual requirements.

### BONFIGLIOLI PRODUCTS AVAILABLE ON SMART SIZER



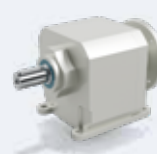
DRIVES SERIES



ASYNCHRONOUS MOTORS SERIES



SYNCHRONOUS MOTORS SERIES



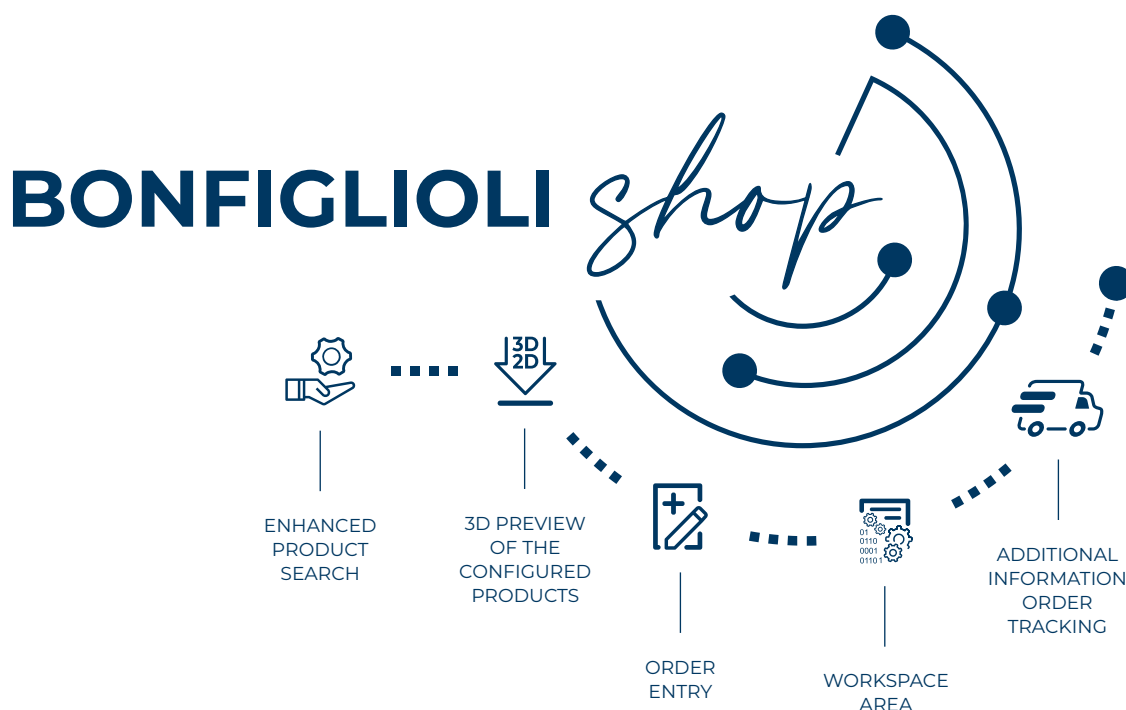
INDUSTRIAL GEAR UNITS SERIES



PRECISION PLANETARY GEAR UNITS SERIES

# Software for ordering and selection

Bonfiglioli shop is Bonfiglioli's e-business platform created to facilitate customers purchases and product configuration. Fully integrated with the Bonfiglioli product database, it offers more flexibility to configure a solution and track orders.



## A COMPLETE E-BUSINESS PLATFORM TO BE THE MASTER OF YOUR SOLUTIONS

Bonfiglioli shop guides customers, distributors and agents through the process of selecting the right product for their specific needs and also gives support for design activities and order management. The system greatly accelerates the product selection and ordering process and also guarantees improved security and accuracy.

Thanks to web-based technology, customers can stay connected with Bonfiglioli's technical service 24 hours a day, 365 days a year, from anywhere around the world. Registered customers have access to constantly updated technical specifications and drawings, specifically created for the exact product designation they need. This service provides users with on-line assistance to support them with:

- Configuring Bonfiglioli products
- Downloading technical datas/drawings in 3D and 2D
- Benefiting from Bonfiglioli's help during product selection





We have a relentless commitment to excellence, innovation & sustainability. Our team creates, distributes and services world-class power transmission & drive solutions to keep the world in motion.

#### HEADQUARTERS

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