



**FACTOR
POTENCIA**

Products and Services Catalogue

2023

Table of Contents

*Click on the tabs
to see in detail*

Who we are

ABB Partners

Our proposal



G6 ACCIONAMENTS
I AUTOMATISMES

NAB-TEC
EQUIPOS Y CUADROS ELÉCTRICOS

ACELNOR
ACCIONAMIENTOS ELÉCTRICOS DEL NORTE

Table of Contents

Who we are

Factor Potencia is a brand which integrates 3 leading companies in the capital goods and services sectors associated to the quality of electrical energy and the improvement of energetic efficiency.

We have our headquarters in Granollers (Barcelona) and an office in Bilbao (Basque Country).

Table of Contents

Partners ABB

In 2000, we were the first Spanish partner in the ABB Drives Alliance network.

In 2012, we became the first certified as Authorized Value Provider.

We are able to offer the ABB guarantee
regarding our products and services.



**VALUE
PROVIDER**

Table of Contents

Our proposal

*Click on the tabs
to see in detail*

PRODUCTS

- Motion
- Electrification
- Instrumentation
- PLC
- Energy quality

INTEGRATION

- Electrical
equipment and
cabinets

SERVICES

- Technical service
- Project engineering

Motion

Drives

Motores

Arrancadores

Electrification

Low Voltage

Medium Voltage

Digital

Instrumentation

Flow measurement

Pressure measurement

Temperature measurement

Level measurement

Controllers, recorders and actuators

PLC

AC500 eCo

Compact and economical solution

AC500

Complex machinery and communications

AC800

Distributed control system for large processes

CP600

Control Pannel

Calidad de Energía

Measurement and monitoring

Reactive power compensation

Harmonic filtering

Our proposal
Integración



Electrical equipment and panels

At Factor Potencia we have a fully qualified workshop team to make all the electrical panels according to the client's request.

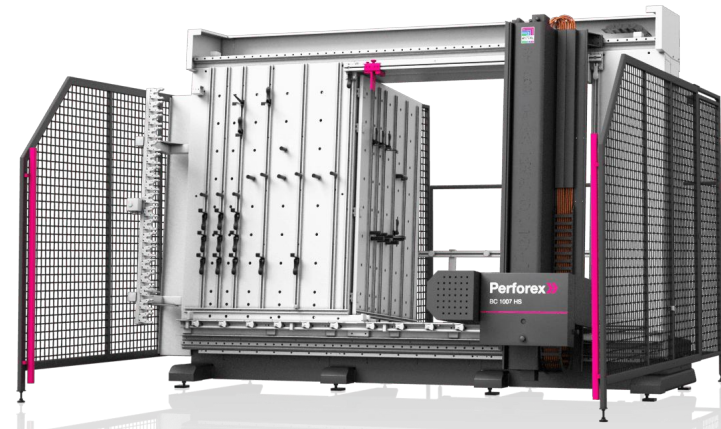
In addition, we have automated tools, such as PERFOREX, that help them during the manufacturing and assembly process.

Our **portfolio** includes:

Distribution boards

Control panels

Control panels



Servicio técnico



At Factor Potencia we consider quality as an essential value when offering solutions to our clients.

For this reason, our team made up of professionals, who have extensive experience and a high degree of demand, can offer the most efficient solution, adapting to the needs and characteristics of each client.



Commissioning of drives and soft starters

Official repair workshop for variators and soft starters.

Official ABB guarantees

Network quality study

Energy efficiency audits

After-sales service for all products.

Programming of frequency converters.

Project engineering

At Factor Potencia we consider quality as an essential value when offering solutions to our clients.

For this reason, our team made up of professionals, who have extensive experience and a high degree of demand, can offer the most efficient solution, adapting to the needs and characteristics of each client.



3D dimensioning

Previous and final schemes in e-Plan

Complete project engineering

HMI or SCADA supervision software

PLC programming

Our proposal
Products
Motion
Drives

*Click on the tabs
to see in detail*

LOW VOLTAGE

- ACS 180
- ACS 380
- ACS 480
- ACS 580
- ACQ 580 [Water]
- ACS 880 [Industrial]

MEDIUM VOLTAGE

- ACS 2000
- ACS 580 MV

Motors

LOW VOLTAGE

- Process
- ATEX
- SynRM
- HDP

MEDIUM VOLTAGE

- NXR
- MMI

Soft Starters

PSR

Compact range. 2 phase control. 0.75 kW - 30 kW

PSE

Efficient range. 2 phase control. 4w - 110kw

PSTX

Advanced range. 3 phase control. 15 kW - 710 kW

Factor Potencia

Intelligent soft start solution, with self-learning algorithm

Low Voltage

Protections

Motor Control Centers

Motor Protection and Control

Contactors

Measuring Equipment

Enclosures

Electronic Relays

Power Supplies

UPS (Uninterrupted Power Supply)

Safety Products (Jokab Safety)

Medium Voltage

Medium Voltage Cells

Transformers

Protection Relays

Digital

ABB Ability

ABB Ability™ solutions provide safer, smarter and more sustainable infrastructures through data-driven insights that reduce costs, increase comfort and optimize efficiency.



Powers
from 0.25 kW
up to 22 kW

Our proposal
Products
Motion
Drives

ACS 180

Designed for compact machines, it is optimized for ease of use and reliable performance.

It incorporates features that simplify ordering and delivery, and reduce commissioning costs.



- Reliable operation
- Optimal converter
- Easy drive
- Scalability
- Energy efficiency

- Greater reliability in adverse conditions.
- Rated characteristics for use with heavy and light load.
- Intuitive interface, parameter structure and pressure control terminals.
- Sensorless vector control with induction and permanent magnet motors.
- Motor control based on current demands.

Powers
from 0.25 kW
up to 22 kW

Our proposal
Products
Motion
Drives

ACS 380

Designed in a compact and adaptable way for machinery manufacturers whose performance must be constant and reliable.

The architecture and user interfaces of all ABB Full Compatibility drives make them easy to use



- Consistent performance
- Easy configuration and adaptation
- Reliability and consistent high quality

- Control mixers, centrifuges, conveyors and cranes.
- Thanks to the intuitive control panel and the integration of essential functions.
- Subjected to tests at maximum temperatures with full nominal loads.

Powers
from 0.75 kW
up to 22 kW

Our proposal
Products
Motion
Drives

ACS 480

Designed to simplify the selection, configuration and operation of various basic applications without complications.

Provides a cost-effective and reliable solution for your motor control needs.



- One product, many applications
- Reliability and high quality
- Easier than ever
- Immediate availability

- Control compressors, conveyors, fans, and much more.
- The product and its controls guarantee a reliable and safe process.
- Reduces startup and configuration time.
- Fast delivery worldwide.

Powers
from 0.75 kW
up to 500 kW

Our proposal
Products
Motion
Drives

ACS 580

Designed to control a wide range of constant and variable torque applications.

A standard wall and cabinet mount kit, supplied in a single compact package.



- One product, many applications
- Reliability and high quality
- Easier than ever
- Immediate availability

- Control mixers, crushers, pumps, and much more.
- Suitable for robust and complex applications.
- Main settings and control macros help for quick setup.
- Fast delivery worldwide.

Powers
from 0.75 kW
up to 500 kW

ACQ 580 (Water)

Designed to ensure optimal operation of clean and waste water pumps, while ensuring low energy consumption.

The converter controls virtually any type of motor, and allows connectivity with a wide range of Modbus protocols.



Robust and compact converters, with built-in pump functionalities such as:

- Flow calculation without sensor
- Multipump control
- Level control
- Smooth pipe filling
- Hand-Off Auto Control Panel
- PC Drive Composer

Powers
from 0.75 kW
up to 3200 kW

ACS 880 (Industrial)

Designed to meet the needs of the most demanding industrial applications, such as cranes, extruders, winches, or winders.

It features a wide range of control options, a high overload capacity, and an intuitive user interface.



- Direct DTC Torque Control
 - Communications
 - Simple commissioning
 - Energy and information optimizer
- For exact open and closed loop control.
 - Connection of the main automation networks.
 - Removable memory drive.
 - For monitoring and saving energy.

Powers
from 200 kW
up to 2.6 MW

Our proposal
Products
Motion
Drives

ACS 2000

Designed to provide flexibility when configuring the frequency converter, without compromising reliability.

Reliable motor control ensures high endurance and smooth process control, resulting in high availability and efficiency.



- Energy efficiency
- One product, many applications
- Flexible design
- Maximum motor compatibility

- Motor control based on process demand.
- Control pumps, fans, compressors, conveyors and more.
- For easier integration with the electrical grid.
- Both with IEC or NEMA motors, as well as with older motors.

Powers
from 200 kW
up to 5.8 MW

Our proposal
Products
Motion
Drives

ACS 580 MV

The drive's integrated features and compact design
provide energy efficiency without
effort for a wide range of applications.



- One product, many applications
- ABB CommonDrives Architecture
- H-Bridge cascade technology

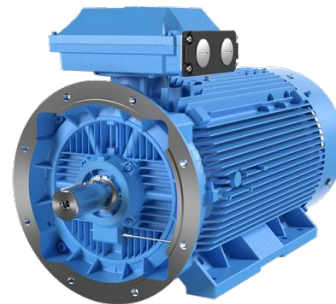
- For variable square torque, such as pumps, fans.
- To simplify, optimize and maximize the process.
- Featuring superior harmonic mitigation in a compact, lightweight design.

Process

Powers
from 0.12 kW
up to 1300 kW

It has a wide range of high-performance process performance induction motors.

Designed to optimize operational efficiency, ensuring longevity and reliability.



- Superior performance
- Sustainability
- Reliability
- Profitable

- To offer unmatched efficiency.
- Significantly reducing energy consumption
- Which guarantees perfect operation and long service life
- Long-term savings by reducing maintenance costs and reducing energy consumption.

ATEX

Powers
up to 1000 kW

Designed to operate in locations with explosive atmospheres, these motors are the ideal solution for any industry that needs extra protection.



- Ex Certificates
- Extensive protection
- Configurable

- Certificates for anywhere in the world.
- Up to IP66 protection
- Adaptable to the needs of any industry (chemical, food, marine).

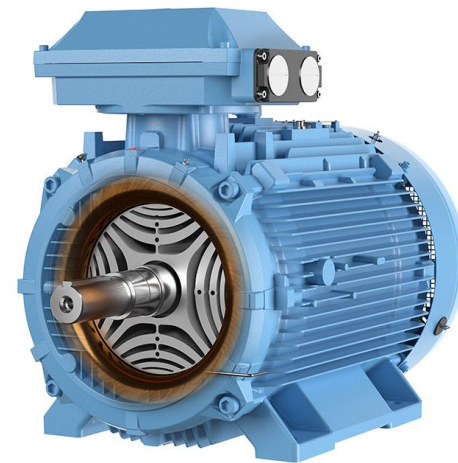
Powers
from 1.1 kW
up to 350 kW

Our proposal
Products
Motion
Motors

SynRM

Designed to combine the performance of permanent magnet motors with the simplicity and ease of service of induction motors.

The rotor of a synchronous reluctance motor has no magnets or windings so it does not suffer power losses.



- Environmental impact
- Sustainability
- Reliability
- Production quality

- Reduced by using less electricity and lowering CO2 emissions.
- By meeting efficiency standards and increasing productivity.
- Guaranteeing more sustainable performance by minimizing engine failures.
- Precise torque and speed control

Powers
from 2 kW
up to 2000 kW

Our proposal
Products
Motion
Motors

HDP

Designed for difficult operating conditions and to be used individually powered or with a frequency converter.



- Compact size
- International regulations
- Optimized solutions
- Modular structure

- Thanks to the high power density.
- UL and EAC certifications.
- To meet the expectations of machinery manufacturers.
- To achieve greater flexibility in the process.

Powers
from 2 kW
up to 2000 kW

Our proposal
Products
**Motion
Motors**

NXR

Designed to offer high power density, as well as simple configurability and simple maintenance.

They are intended for applications where a highly customized engine is not needed.



- Higher power density
- Easy configurability
- Integrated service
- VDF control

- Helping to save space and allowing more compact installations.
- Thanks to the existing fixing points along the sides of the engine.
- Facilitating maintenance activities and reducing downtime.
- Optimizing the engine, minimizing consumption, and controlling with greater precision.

MMI

Powers
from 160 kW
up to 8100 kW

Designed to IEC 60034 and NEMA MG1 standards, they offer a cost-effective solution for safe area applications.

They are easy to integrate due to their compact design, flexibility of use, and reduced noise.



- IEC and NEMA certificates
- Full range
- Optimized solutions

- With performance in line with the requirements of efficiency, inertia and load torque.
- Designed for fixed speed applications with DOL power supply.
- To be mounted horizontally or vertically, designed for water pumps.

Low Voltage

Protections

Automatic Switches

Manual Switches

Modular Protections



FACTOR POTENCIA

info@factorpotencia.com +34 938 40 55 54

Avda. Sant Julià 202-204

Granollers, Barcelona

08403