

Motor starting and protection

Keep things moving with protection and control - at every level.

Our broad portfolio of motor starting and protection solutions are fully scalable, allowing you to keep things moving whatever the extent of your operations.

When it comes to keeping total cost of ownership down and boosting profitability, continuous operation and energy efficiency is essential. This is just what our broad portfolio of motor starting and protection solutions delivers. Thanks to our best in-class, innovative technology, our solutions prevent downtime and can stand up to any conditions. And with our Selected Optimized Coordination tool, choosing the right solution for your needs couldn't be easier.

So don't compromise. Keep things moving with protection and control - at every level.



Essential solutions
for stand-alone machinery



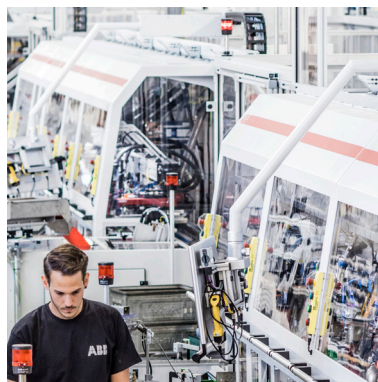
Get the essentials right with fast, reliable installations

Application examples:

- HVAC & R
- Compressors
- Water pumps



Enhanced solutions
for discrete automation



Get robust protection with enhanced safety, control and monitoring

Application examples:

- Elevator machinery
- Cranes
- Food & Beverage
- Machines for metal and wood processing
- Printing machines



Advanced solutions
for process industries



Get ahead with smart data and predictive applications, to keep your plant running

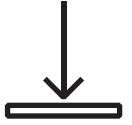
Application examples:

- Wastewater
- Pulp & Paper
- Mining & Minerals
- Oil & Gas
- Chemicals
- Cement & Glass

Premium efficiency motors

During the starting phase of an IE3 motor, the starting current can be roughly 25% higher than in IE1/IE2 motors, which may lead to unwanted tripping of the protection device. In addition, a correct evaluation of the electrical endurance of the contactor should be carried out.

ABB's control and protection low voltage products are IE3 compatible, offering users premium motor starting solutions, with small footprints.



up to **80 %**
reduced coil energy consumption
with the AF contactor range

2011

**IE2
minimum**

2015

**IE3
or IE2 + variable speed drive
(for motors 7.5-375 kW)**

2017

**IE3
or IE2 + variable speed drive
(for motors 0.75-375 kW)**

Selected optimized coordination tables

ABB provides coordination tables for the selection of low voltage equipment, specifically tested for starting and protecting IE3 motors in the SOC tool. Essential, enhanced and advanced solutions can be selected there. Product selection for different types of starting methods are available as well, including direct-on-line, star-delta and softstarters. Usage of coordination tables helps reduce the time for selection and design of solutions as well as the risk of unwanted downtime, e.g. caused by nuisance tripping. This provides protection and safety, further driving down the total cost of ownership.



more than
1800
tested and validated
coordination tables available



[Link to SOC tables](#)

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**You can find the address of your local
sales organization on the ABB homepage**

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