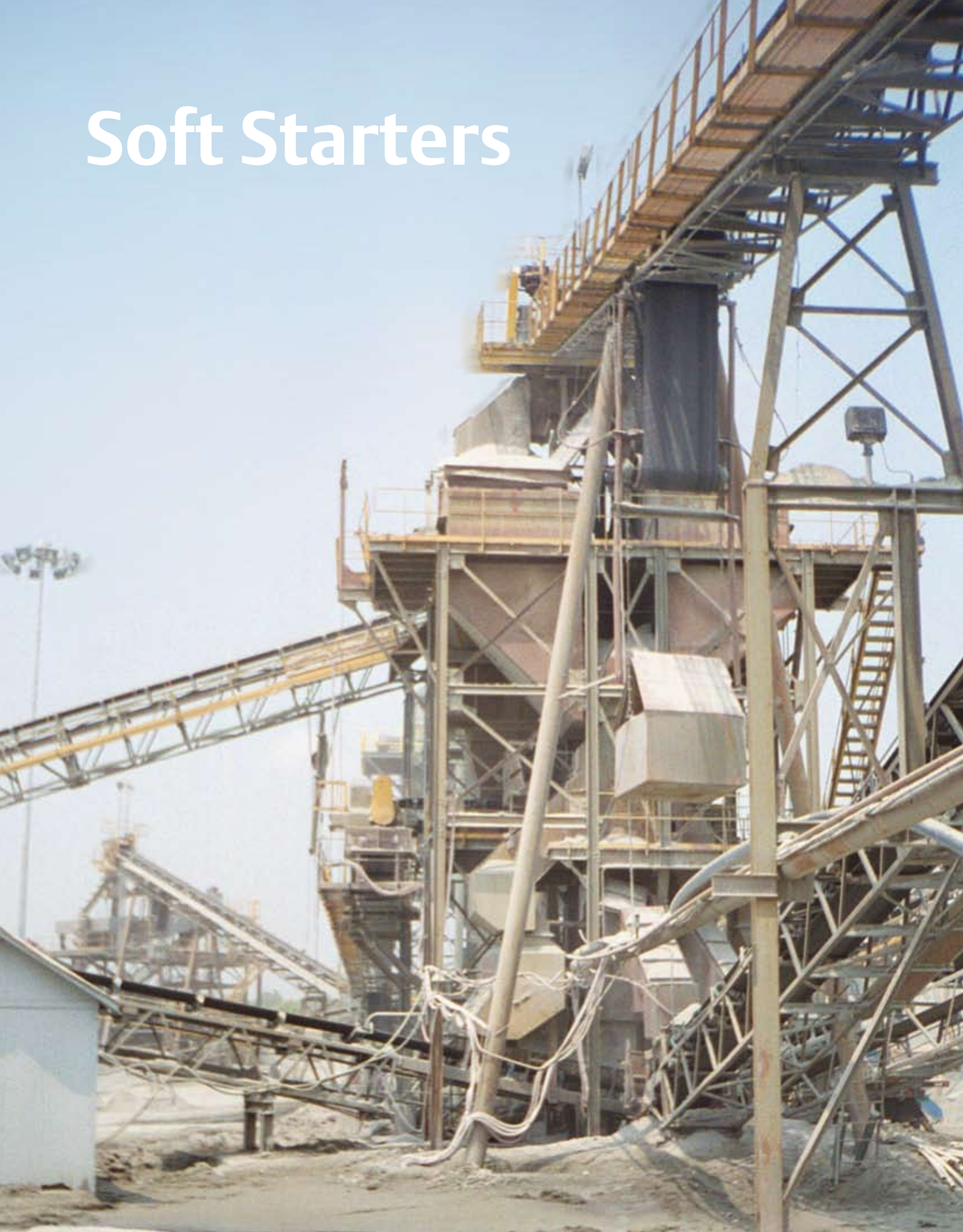


Soft Starters

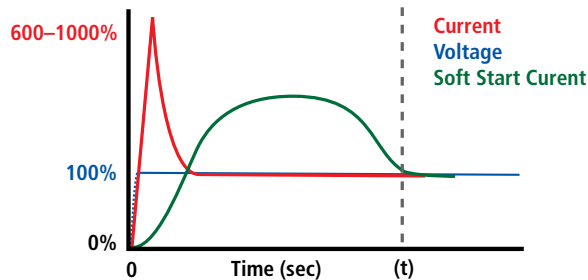


Soft Starters

Saftronics Soft Starters have been providing precise controlled AC motor starting and stopping for decades. We pioneered this motor control technology to limit the current to a motor on both acceleration and deceleration to provide a longer life to both motor and machinery.

Control Techniques offers a complete range of low-voltage AC motor soft starters suitable for both normal and heavy duty applications., plus packaged models such as our “Crusher-Duty” soft starters. Our soft starters feature a universal voltage input which can accommodate 200 – 600 VAC 3Ø input supply. Modbus, Profibus, DeviceNet, RS485, LonWorks and FIPIO options are available.

Solid State Reduced Voltage Starting vs. Across-the-line Contactor Starting

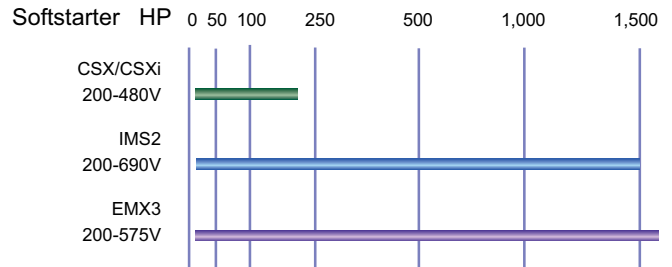


Soft starting extends the current waveform over the start time, which allows the user to limit the current level to what is required to start the load.

Soft Starter Advantages

- “Jerk Free” Machinery Control
- Reduced Maintenance on Machinery, e.g., Bearings, Belts, Gears
- Cost Effective, Quick Payback with Reduced Downtime, Parts and Repairs
- Simple Startup and Installation
- Compact Size, Enables Packaging for Harsh Environments
- Proven Method to Extend Motor Life
- Eliminates Electromechanical Starters and the Maintenance Required for these Devices
- Built-in Bypass for Critical Applications
- Serial and Fieldbus Communications
- Wide Range of Voltage and Current
- Three Product Families-Basic to Advanced

Soft Starters AT-A-GLANCE



The smallest and easiest to use **CSX/CSXi series** sets up with simple pot adjustments. It has a very small foot print that includes a built-in bypass contactor, resulting in significant space savings.



The **IMS2 series** offers a total motor starting solution for higher horsepower range. This digital soft starter combines a high level of functionality with flexibility and ease of use.



The **EMX3 series** utilizes the latest digital technology and feature set in soft starters, including new adaptive acceleration technology for the ultimate in control. NEW



The **DY5** is an electronic AC motor brake that can be applied to most starters. Installation is simple and fast. Use the DY5 to stop AC motors safely and quickly.

| Soft Starter Features | CSX | CSXi | IMS2 | EMX3 |
|--|-----|------|------|------|
| Compact Unit w/ Built-in Bypass | x | x | | x* |
| X-Line Contactor Replacement for MCC Application | x | x | | |
| Time Voltage Ramp (TVR) | x | | | |
| Serial Communication Options | x | x | x | x |
| Protected Chassis up to 150 hp | x | x | x | x |
| Current Limit & Current Ramp Starting Modes | | x | x | x |
| Integrated Motor Protection | | x | x | x |
| Simple Digital Operation | | | x | x |
| Wide Variety of Start/Stop Modes | | | x | x |
| Configurable Bus Bars for Easy Integration | | | x | x |
| Protected Chassis up to 1500 hp | | | x | x |
| Fwd/Rev Jog & DC Injection Braking | | | | x |
| DeviceNet Communication Option | x | x | x | x |

*THE EMX3 COMES WITH INTEGRAL BYPASS AS STANDARD UP TO 220 AMP AND OPTIONAL ABOVE UP TO 1600 AMP.