



Digi SoftStart™ Medium Voltage Soft Starter

Digi SoftStart™

AMI Automation is a world class company with design, engineering, and manufacturing experience that allows covering a multiplicity of ranges, capacities and configurations as the applications required.

AMI Automation portfolio includes design and manufacture of Digi SoftStart™, a line of Medium Voltage Soft Starters. Extensive factory testing of the power conversion equipment allows complete testing before shipment.

The main advantages are:

- ▶ Power is applied gradually, no voltage and current transients. Smooth starting is done by torque control achieving gradual acceleration of the motor preventing jerks and extending the life of mechanical components.
- ▶ Precise digital control over the current limit, as a software controlled response at full speed which economizes energy regardless of load.
- ▶ Allows simple adjustment of start performance to suit the specific motor and load. Speed and torque control are used only during startup, when they are required, and there after the motor is transferred directly to the power line.

Medium Voltage Soft Starter

Digi SoftStart™ is a microprocessor-based Bidirectional Controlled Thyristor (BCT) incorporating advanced control technology with a dedicated I/O system. It has been designed to be the softstater of medium to large motors where the need for advanced control requirements, high speed of response, expanded diagnostic capability and various I/O interfaces are beyond the capability of conventional analog control.



Our expertise allows to offer many alternatives:

- ▶ Air Cooled
- ▶ Up to 6.9 KV available
- ▶ Three sizes for Current ranges at 400A, 720A and 1000A
- ▶ Configurable digital soft start operation and transfer to Line Bypass Operation
- ▶ TECMV-BCT based – AMI most innovative design for thyristors easy access and overall operation
- ▶ Our SmartDisplay™ friendly HMI interfase for configuration, diagnostics and operation includes display readouts (barmeter, needle type, etc.)
- ▶ Communication capabilities (Ethernet IP®, Modbus TCP®, ProfiNET®, Profibus®, and many other protocols)
- ▶ Seamless PLC integration with a variety of brands, using communication or I/O
- ▶ Custom manufacture available
- ▶ Ready to use with AMI DigiFEX™ field excitation system
- ▶ Smooth integration with AMI DigiGear™ product line
- ▶ ISO-9001-2015 manufacturing
- ▶ Optional Analog Meters can be supplied in addition to the Smart Display

Features and benefits:

- ▶ Common spare parts with DigiFEX™ systems
- ▶ Configured and monitored with the friendly AMI Smart Display™
- ▶ Ease of use, high-performance trending and other diagnostic functions
- ▶ The controller has flash memory and real time clock. It also has a numerous industrial communication capability including:
 - Profibus-DP®
 - EthernetIP®
 - Modbus TCP®
- ▶ Smart Display®
 - Local Operation
 - Alarms and Faults
 - Trending
- ▶ Dedicated softstater control buttons for manual operation of the motors, including integration with DigiFEX™
- ▶ Indicating status led and display
- ▶ Full access to all parameters and variables
- ▶ Ethernet Tool Port connectivity, for Modbus TCP, ProfiNet and other.

