SOFTSTART UK











The Softstart MV DS digital soft-starter

Designed for the controlled starting – and stopping – of large medium voltage motors up to 6.6kV with 11kV models in development.

Such motors generate huge torques and draw enormous currents when started direct-on-line and auto-transformer starting is expensive, bulky and provides only a moderate solution.

Controlled starting by precise digital voltage control offers the smoothest starting torque solution, maintaining the line current below current limit levels. This not only protects the whole drive installation but also protects the driven machinery from excessive torque surges that can cause substantial damage and expensive plant downtime.





Standards	
ISO 9001 : 2008	Quality Standard
IEC 60470 : 2000	Vacuum Contactors
IEC 60228 : Class 5	High Voltage Cables
UCI 895, BSS 6195 Type 5	High Voltage Cable Dielectric Strength
IEC 60332-2 IEEE 383	High Voltage Cable Fire Propagation
EN 62271 : 2004	Part 200 High Voltage Switchgear and Control Gear
IEC 60694 : 1996	Common Specification for High Voltage Switchgear
IEC 60270 : 2000	High Voltage Test Techniques
IEC 60071 : 1996	Insulation Co-ordination
EN 50178 : 1998	Electronic Equipment for use in power installation
IEC 60664 : 2007	Insulated coordination within low voltage systems.
IEC 61238 : 2003	Cable Lugs (High Voltage)
2006/95/EC	Low Voltage Directive
	CE Certificate of Incorporation.
IEC 61000-6-2	Electromagnetic Compatibility - Immunity
IEC 61000-6-3	Electromagnetic Compatibility – Emission
	Type test certification



Custom built to your needs

The MV DS is designed to host a wide variety of options, enabling it to be customised to the client's precise needs. Slip-ring motors can be accommodated by incorporating a rotor shorting resistor package, bi-directional motor control is available and power factor correction is offered, along with 110V or 230V control. Cable entry can be accommodated from the bottom, the top or the rear and internal and external cable boxes can be incorporated in the design.

Power when you need it

The MV DS is a heavy-duty fullyrated design, allowing a start capacity of up to 400% FLC for 30secs at a rated temperature of 50°C without derating. Designed for arduous environments, a comprehensive motor protection package is included and a motor insulation test facility is offered as an option. Variations in the supply voltage are catered for by a 45-65Hz tracking capability and the construction is designed for corrosive environments. Tacho feedback enables uneven torque loads, such as encountered on crushers and long conveyors, to be smoothly controlled, protecting the plant as a whole.

Simple Control and Monitoring

For precise and simplified control and monitoring, the MV DS is digitally controlled via a powerful industrial PC, mounted on the cabinet door. The full colour 8.4" (12.1" optional) display enables the engineer to commission the starter quickly and simply and thereafter to see exactly what is happening with the plant. Ethernet and Modbus control facilitates full remote monitoring and control in a wide variety of languages.

Softstart MV DS digital soft-starter The UK's first 2.3 / 11kV high power soft-starter **SPECIFICATIONS** Stack Weight (kg) Total Weight (kg) ** System Voltage Motor Dimensions (mm) Current Power (kW) * (Vac) (Amps) Length Depth * kW sizes are for indication only. ** Total weights are estimated and may vary depending upon components used.

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