



spanning the globe
servicing your industry
supporting your application

HRVS-DN - Setting a New Standard

Ratings: 2.3kV to 15kV, up to 15MW

The HRVS-DN digital Medium Voltage Soft Starter is designed for use with standard MV AC induction or synchronous motors. This highly sophisticated soft starter ensures smooth, stepless acceleration and deceleration. The HRVS-DN eliminates high inrush current and damaging mechanical torque shock on equipment during startup and stopping.

The HRVS-DN is available as a complete starter including disconnect switch, in-line contactor, and bypass contactor or as a chassis unit for integration into custom switchgear.



HRVS-DN Advantages

At a Glance

- Eliminates high inrush current and damaging mechanical torque on startup
- Soft, stepless acceleration & deceleration
- User friendly, easy to set-up and operate
- Heavy duty design: 50°C ambient rated
- Innovative, full function low voltage test mode
- Advanced Electronic Potential Transformer [EPT] utilizing Patent Pending “wireless” fiber-optic controlled firing system
- Partial Discharge tested (corona-free) to ensure long term reliability
- NEMA 1-4X (IP31-IP67) Packages
- Optional chassis model/OEM kit
- RS 485 Communications with MODBUS, PROFIBUS, DeviceNet, or MODBUS/TCP protocols (others available on request)
- Auto-tracking frequency range (45-65hz) ideal for Marine/Offshore and Generator applications
- Pump control software
- Sophisticated motor protection and options



Starting & Stopping

Start and stop your toughest applications utilizing our world renowned “Pump Control Program.” Choose the most effective curve for:

- Soft start and soft stop
- Current limit
- Torque & Current Control ramps
- Pump Control Characteristics
- Pulse (kick) start
- Tach-encoder feedback (option)
- Dual adjust: 2 start/stop characteristics for varying loads, two speed motors, etc.
- Multi-motor control models

Available Options

- Motor Insulation Alarm: Continuously checks motor insulation for problems; alarm and trip levels are programmable
- Analog Output of motor current (programmable 0-10 VDC, 0/4-20mA or inverse)
- Motor Protection Relay
- Synchronous motor control (brush type or brushless)
- Multi-motor starting
- Continuous line-ups with horizontal bus bar connections

For More Information:

Do you need additional engineering information?

Visit: www.solconusa.com/solconusa-documentation.html

Downloads: MV Catalog, HRVS-DN Manual, MV Applications

ACROSS INDUSTRIES

- Ball Mill
- Pulp Mill
- SAG Mill
- Centrifuges
- Sinter Fans
- Turbo Blowers
- Centrifugal Blowers
- Blast Furnace Blowers
- Gas Compressors
- Turbo Compressors
- Screw Compressors
- Cryogenic Compressors
- Centrifugal Compressors
- Reciprocating Compressors
- Conveyors and Monorail Systems
- Fire Fighting Pumps
- Water & Ballast Pumps
- LP and HP Gas Compressors
- Thrusters (Bow, Stern & Pods)
- Hydraulic Pumps & Power Packs
- Refrigeration Chillers & Compressors
- High Pressure Seawater Injection Pumps
- Main Propulsion Motors (Variable Pitch Propellers)
- LNG & LPG Cargo Pumps (Multi-Start Application)

AROUND THE GLOBE



Medium Voltage Soft Starters

Product	Description	Ratings
HRVS-DN	Digital, Heavy Duty	2300-15000V, up to 15MW
HRVS-DN MEGA	Digital, Heavy Duty, High Power	2300-15000V, up to 15-50MW
DriveStart	Digital, IGBT-Based Starter	2300-6600V, 60-500A

Low Voltage Soft Starters

Product	Description	Current & Voltage Range	Bypass	Controlled Phases
RVS-DX	Digital, Standard Duty	8-170A, 230-600V	Internal	3-Phase
RVS-DXM	Digital, Standard Duty	210-1100A, 208-690V	Internal	3-Phase
RVS-DN	Digital, Heavy Duty	8-3000A, 230-1200V	External	3-Phase
RVS-AX	Analog, Standard Duty	8-170A, 230-600V	Internal > 31 A	3-Phase
Solstart	Compact Analog, Standard Duty	8-58A, 230-600V	Internal	2-Phase

Motor Protection

Product	Description	Monitors
MPS-3000	Full motor protection for medium voltage or low voltage motors	All three phase currents, voltages and up to 10 RTD inputs
TPR6-14	RTD relay	Accepts up to 14 PT100 RTD inputs or thermistor inputs
MIP	Motor insulation protection system	Monitors MV or LV motors. Provides status indication (alarm and trip)

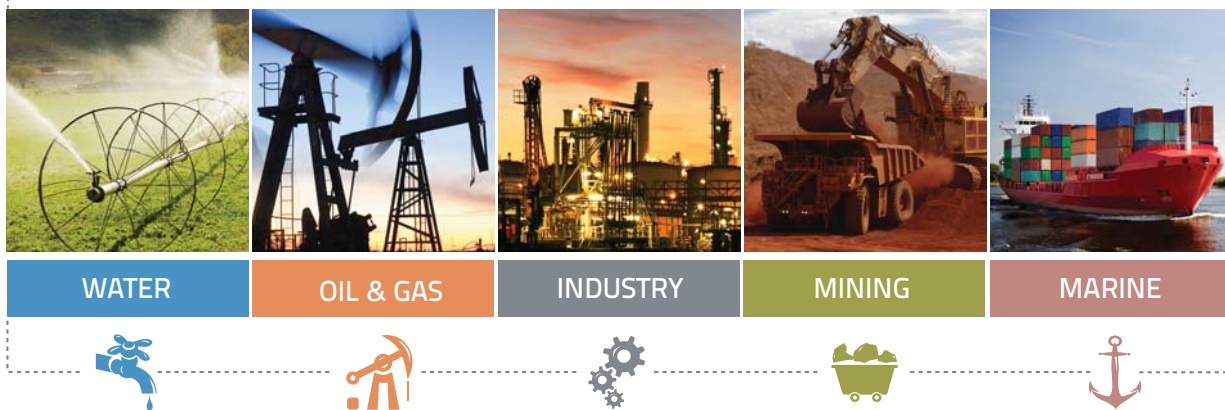
DC Injection Brakes

Product	Description	Current & Voltage Range
Solbrake	Controlled stopping of 3 phase motors	10-820A, 230-690V

SCR Power Controls

Product	Description	Current & Voltage Range
TPS	Low voltage SCR power controller for resistive loads	8-1500A, 230-1000V
MV-TPS	Medium voltage SCR power controller for resistive loads	60-300A, 4160-6600V

MEETING YOUR NEEDS ACROSS INDUSTRIES



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