



# HRVS-DN

Medium Voltage Soft Starter 2.3kV to 15kV



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# 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](http://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)

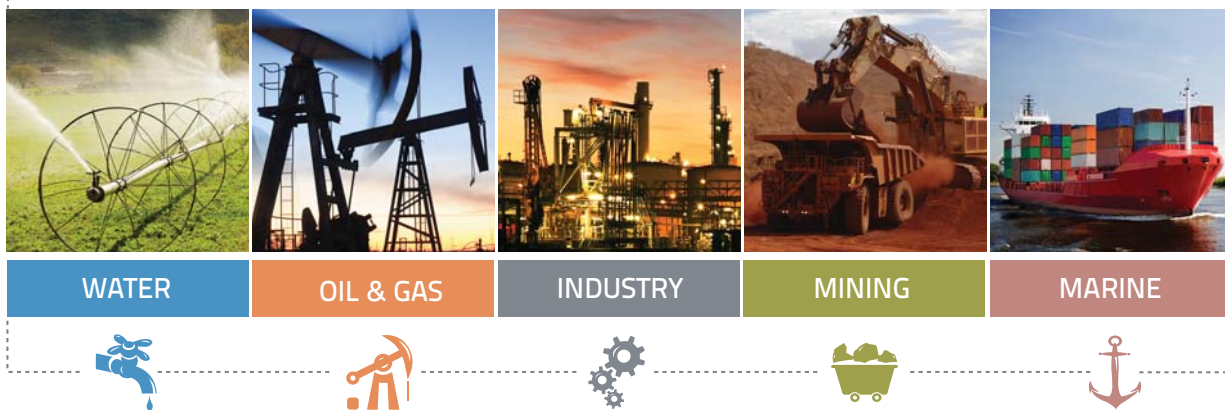
## DC Injection Brakes

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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