



**HRVS-DN**  
Medium Voltage Soft-Starter, for  
Asynchronous and Synchronous Motors  
50-2700A, 1500-15000V



## HRVS-DN

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Incorporating microprocessor circuitry with fiber optic control, the HRVS-DN is the ideal soft-starting solution for medium voltage asynchronous as well as synchronous motors. The sophisticated control ensures superior acceleration and deceleration, thus, eliminating current and mechanical shocks. The starter can be supplied as Chassis (IP00) or Enclosed (IP31-67, NEMA 1-6X) with options such as Line and Bypass vacuum contactors or circuit breakers, disconnect switches, main and control protection fuses, motor protection relay, etc.



Synchronous motor driving an iron ore pump

### HRVS-DN Advantages at a glance

- Heavy duty design at 50°C ambient temperature
- Reduced inrush current and mechanical shock
- Third generation microprocessor circuitry
- Soft, stepless acceleration & deceleration
- Unique starting & stopping characteristics
- Sophisticated motor protection package
- User friendly, easy setup and operation
- IP31-standard, higher protection by special order
- Synchronous motor starting, utilizing unique module
- Innovative low voltage test modes
- Advanced "wireless" Electronic Potential Transformer
- Unique, fiber-optic firing system, isolating between MV and LV
- Fault indication to each individual thyristor
- Fully featured motor insulation circuitry (optional)
- Each starter is tested for Partial Discharge (Korona)
- Power factor capacitors - direct connection to the line contactor
- Two optional methods of delivery: Chassis or Complete system
- RS-485 with MODBUS, PROFIBUS & TCP (others-upon request)
- Wide 45-65Hz Auto-tracking for continuous frequency variation

## Static & Rotating Exciters

Static: 60-240Vdc, 40-1000A  
Rotating: Any Range



HRVS-DN with static exciter

### Excitation system advantages

- Integratable with Solcon's HRVS-DN medium or low voltage soft starter as well as independently
- Applicable models for static or rotating exciter
- The field application system is initiated by an optional relay card after the completion of the starting sequence
- Full motor and exciter protection features
- Single motor field voltage/current control
- DC control via keypad or communication
- MPS 3000 for "Out of step" protection



Medium voltage water pumps



Water injection pump on board an FPSO

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