



## HRVS-DN PowerStart

Digital, Heavy Duty, Medium Voltage Soft Starter  
 2.3-13.8kV, up to 48MW

The HRVS-DN is a heavy duty Medium Voltage Soft Starter, designed for all Medium Voltage AC induction motors. The HRVS-DN's sophisticated motor control technology ensures smooth acceleration and deceleration as it minimizes the effect of high in-rush current and mechanical torque shock. Advanced features include customizable starting curves, unique voltage and current measurements, as well as monitoring capabilities. The flexible design, enhanced motor protection and a superior global reputation make the HRVS-DN the starting solution of choice for Medium Voltage applications - even under the most demanding conditions.

The HRVS-DN's flexible configuration is designed to meet the requirements of new applications, retrofits and OEM customization. It is available with Marine approvals and with ProGear, Solcon's fully Type Tested Arc Resistant switchgear.

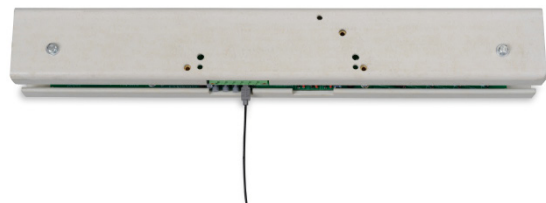
### New Capabilities & Features

Medium Voltage Control Panel  
 (MVCP)



The new, advanced medium voltage control panel features an innovative design with new communication and control capabilities. In addition, the power and expansion capabilities deliver a modular concept to enhance the end-user experience.

Electronic Current & Potential Transformer  
 (ECPT)



The Electronic Current & Potential Transformer (ECPT) provides complete isolation between the medium voltage and the low voltage compartments via a single fiber optic link. It also provides current, voltage and temperature readings to optimize the HRVS-DN capabilities.

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## Advanced Features

- Configurable starting & stopping characteristics
- Enhanced motor protection package
- User friendly setup and operation
- Multi-soft start and multi-soft stop
- Unique synchronous motor starting module
- Pump and load control
- Advanced Electronic Current & Potential Transformer (ECPT) utilizes fiber optics for complete isolation between Low and Medium Voltage sections
- Partial Discharge test according to EN50178/625.1
- Direct Power Factor Capacitor connection
- 45-65Hz Auto-tracking frequency range
- Easy to conduct Low Voltage test
- EMC compliant design and tested
- Communication options: Modbus, Profibus, DeviceNet, Anybus
- Compact 2-phase control configuration (optional)
- Event recorder logs 99 events and includes real-time clock
- Data Logger - An integrated current and voltage wave recorder with a sampling rate of up to 50kHz and advanced graphic software interface for remote waveform monitoring (optional)
- Multi-language interface including Russian and Chinese

## Models | 2.3-13.8kV, 60-1,800A

Mains Voltage (kV)	Rated Current (A)	Motor kW (kW)
2.3	60	200
	110	360
	200	660
	320	1,060
	400	1,330
	500	1,660
	600	2,000
	700	2,300
3.3	800	2,660
	1,000	3,330
	60	280
	110	520
	200	950
	320	1,530
	400	1,910
	500	2,390
600	2,850	
700	3,325	
800	3,820	
1,000	4,780	

Mains Voltage (kV)	Rated Current (A)	Motor kW (kW)
4.16	60	360
	110	660
	200	1,200
	320	1,930
	400	2,410
	500	3,010
	600	3,610
	700	4,210
	800	4,820
	1,000	6,030
6.6	70	670
	140	1,340
	250	2,390
	300	2,870
	400	3,820
	500	4,780
	600	5,736
	700	6,740
	800	7,650
	1,000	9,570
1,200	11,500	
1,400	14,000	
1,600	16,000	
1,800	18,000	

Mains Voltage (kV)	Starter Current (A)	Motor kW (kW)
10	70	1,020
	140	2,040
	250	3,650
	300	4,300
	400	5,800
	500	7,250
	600	8,700
	700	10,150
	800	11,600
	1,000	14,500
1,200	17,400	
1,400	22,000	
1,600	25,000	
1,800	28,000	

Mains Voltage (kV)	Starter Current (A)	Motor kW (kW)
11	70	1,100
	140	2,200
	250	4,000
	300	4,800
	400	6,400
	500	8,000
	600	9,600
	700	11,200
	800	12,800
	1,000	16,000
1,200	19,200	
1,400	22,400	
1,600	25,600	
1,800	28,800	
13.8	70	1,400
	140	2,800
	250	5,000
	300	6,000
	400	8,000
	500	10,000
	600	12,000
	700	14,000
	800	16,000
	1,000	20,000
1,200	24,000	
1,000	20,000	
1,200	24,000	

## How To Order

Example:

HRVS-DN - 1000A - 3.3kV - 230V - 230V - 3P

Rated Current

Mains Voltage

Control Voltage

Control Input Voltage

Options

115VAC, 230VAC  
125VDC, 220VDC

115VAC, 230VAC  
110VDC, 125VDC  
220VDC

- 2P - 2-phase control
- 3M - Modbus
- 3P - Profibus
- 3D - DeviceNet
- 3A - Anybus
- 4 - Insulation test
- 5 - Analog output
- M - Marine standard
- MSS - Multi motor soft-start/stop
- SDL - Solcon Data Logger
- U - UL & CUL standard

## For More Information

 [www.solcon.com](http://www.solcon.com)

 [contact@solcon.com](mailto:contact@solcon.com)