



RELIABLE, ROBUST, EFFICIENT

SIMOTICS HV Waterline

The new, standardized high-performance motor solution for all pump applications in the water, waste water, and power generation industries.

Optimize efficiency and optimized lifetime costs

The SIMOTICS HV Waterline is Siemens' HV motor platform covering the complete range of motors for water applications, from high speed two-pole to high-pole motors, to vertical and horizontal, as well as complete standard design or customized to specific customer requirements. SIMOTICS HV Waterline stands for:

- flexibility in design
- customized solutions
- high efficiency
- fast and reliable engineering

No over-engineering, but honest performance. Optimum efficiency – not only in terms of energy, but also, when it comes to your overall productivity and fast delivery.

SIMOTICS HV Waterline were developed to answer the most stringent demands of the industry for quality, and long-term reliable operation.

Optimize performance

With the proven Siemens quality, all SIMOTICS HV Waterline series motors feature numerous advantages that count in daily operating practice. From the optimized design of the housings, and the high degree of protection to the proven long-life Micalastic® insulation system with VPI impregnation, and IC611 cooling as a standard. The standardized motor platform enables for cost-efficient motors, with an optimized lead time and a high degree of design flexibility, according to customer requirements.

SIMOTICS HV Waterline: best fit for all of your water applications:

Water & Waste Water

- desalination
- irrigation
- (waste) water storage & network
- (waste) water treatment
- pumping stations
- sewage networks
- drinking water network

Power Generation

- boiler feed water pumps
 - cooling water pumps
 - water intake pumps
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SIEMENS

Optimize availability and reliability

A SIMOTICS HV Waterline series motor gives you a new perspective: many years of care-free operation, a global service organization that gets your motor up and running quickly, when the need for spare parts or preventive maintenance or even optimizing your plant operation, arises: The Siemens global service organization is ready to assist you with your SIMOTICS HV Waterline motors whenever needed. In addition, all models feature digitalization features for smooth, autonomous operation, allowing remote monitoring and multiple other options.

SIMOTICS HV Waterline – complete and optimized drive systems

The SIMOTICS HV Waterline motors have been optimized to operate with SINAMICS MV drives, such as the air/water cooled SINAMICS PERFECT HARMONY GH180 for applications from 180 kVA to 24,4 MVA, the water cooled SINAMICS PERFECT HARMONY GH150 (4 to 47 MVA) and SINAMICS GM150 (1 to 13 MVA (IGBT, air/water cooled), and 5 to 24 MVA (IGCT, water cooled), respectively).

SIDRIVE IQ – trust your choices

While it is good to know your motors for pumping applications are reliable, wouldn't you feel better if they told you they need servicing? Making them part of your digital enterprise with SIDRIVE IQ, our holistic solution and service to Industrial IoT, is the first step to achieve certainty about the health of your high voltage motors (and medium voltage converters).

Siemens is your partner in water applications

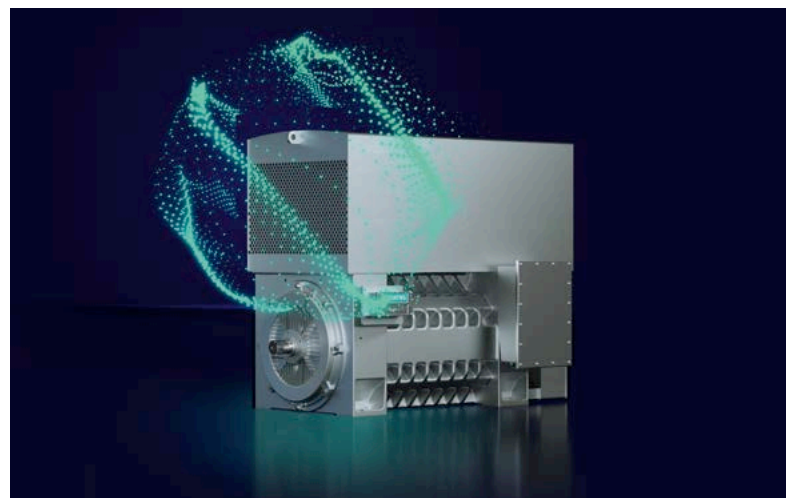
Thanks to our outstanding performance in numerous installations worldwide, we have proven to be a reliable partner. Not delivering a mere product, but smoothly cooperating with OEMs, EPCs and eventually end-customers in order to find the perfect fit for both the pump-unit and the project. Our service is not only available upon request, but with remote monitoring a proactive service approach can also be established.

Technical data

Power rating	250 kW to 29 MW @ 50Hz (31 MW @ 60 Hz)
Rated voltage	675 V to 13.8 kV
Shaft height	315, 355, 400, 450, 500, 560, 630, 710/800/900
VSD and DOL operation	✓
Speed	Up to 3600 rpm, including high pole configurations
Degree of protection	IP23, IP24W, IP55, IP56 non-heavy-sea
Modular cooling design	Air-/air- and Air-/water-cooling, open cooling (IC 411, IC416, IC71W, IC511, IC516, IC 611, IC616, IC 81 W, IC 86 W, IC01)
Ambient temperatures	Up to 60 °C
Standards	Compliance to IEC/NEMA
Type of construction	Horizontal and vertical mounting

Highlights

- Designed for high availability and reliability in all water applications
- High efficiency motor designed for maximum productivity
- Low vibration/low noise
- Best starting performance and high power density
- Autonomous lubrication and cooling concepts
- All standard cooling concepts available
- Anti friction bearings, sleeve bearings if required/on request
- Best design for most challenging environmental conditions and highest load capacity
- Rugged, long-life MICALASTIC insulation system
- Global service network
- Short delivery times, high delivery reliability
- IQ ready: best fit for integrated digitalization approach



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