

PumpDrive R Variable Speed System



Applications:

- Waste water
 - Tank drainage
 - Waste water transport
- Water
 - Water extraction/withdrawal
 - Water treatment/conditioning
 - Water distribution/transport
- Building services
 - Air-conditioning systems
 - Heat generation/distribution
 - Water supply systems
- Industry
 - Refrigeration/distribution
 - Heat generation/distribution
 - Water treatment
 - Fluid transport
 - Cooling lubricant distribution
 - Water extraction
 - Service water supply

More information:

www.ksb.com/products

PumpDrive R Variable Speed System

Energy-efficient pump operation

- Energy savings up to 60 %
- Dynamic pressure/differential pressure setpoint compensation
- Energy-saving mode with sleep mode function

Operating reliability

- The de-ragging function keeps the impeller clean. It can be triggered by start/stop command or as a time-based action with a programmable Off-Delay and Run-Time. The de-ragging feature is easy to configure, prolongs the lifetime and number of callouts due to blockage of the pump.
- Full motor protection with PTC data analysis
- Emergency operation at reduced speed in the event of excessive temperature, undervoltage or mains phase failure
- Mains phase failure monitoring
- Dry running of pump and no-flow/ low-flow detection
- Control terminals galvanically isolated from the power unit

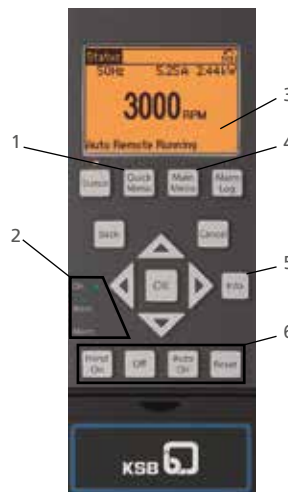
Ease of use

- Multi-functional graphical control panel
- Change between Manual / Off / Auto modes and alarm acknowledgement
- Help function for each parameter
- Separate operating hours counters, kWh meters and fault message memories for inverter and motor

Quick menu for quick start-up/commissioning

Flexibility

- Integrated interfaces (USB interface, RS485 interface)
- Bus communication integrated as standard (MODBUS (RTU))
- Optionally available interfaces for bus communication (no combinations)
 - Profibus DPV1
 - ProfiNet
 - Ethernet IP
 - Modbus TCP
 - DeviceNet
- Optional input (safe stop): One digital input for a safe stop function provided as additional terminal; eliminates the need for a mains contactor for Emergency OFF (level 2 to EN 13849-1 or SIL 2 to EN 61508)
- Extended input/output options on request



- 1 = Quick menu for quick start-up/ commissioning
- 2 = The traffic light function provides information about the pump system's operating status.
- 3 = Plain-text display in end user's language with illustration of curves (e.g. current, voltage, energy consumption, etc.)
- 4 = Main menu: Access to all system parameters with password protection for all frequency inverter settings
- 5 = Help function for each parameter
- 6 = Change between Manual / Off / Auto modes and alarm acknowledgement

Technical data

Mains supply	Mains voltage	3 ~ 380-480 V ±10 %
	Extended mains voltage range (on request)	3 ~ 200-240 V or 3~ 525-690 V
	Mains frequency	50 / 60 Hz
Environment	Enclosure	NEMA frame for cabinet-mounted models (IP 20) NEMA 12 for wall-mounted models (IP 55)
Rating		0.5 – 150 hp 150 hp – 1350 hp (on request)
Maximum permissible ambient temperature		122 °F



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