

From 15 to 22 kW, the booster system is equipped with CR, CRE, CRI, CRIE pumps with motors with integrated frequency control. The total efficiency of the motor including the frequency converter is better than the IE3 level in

- Hydro MPC-E maintains a constant pressure through continuous adjustment of the speed of the pumps.
- The system performance is adapted to the demand through cutting in/out the required number of pumps

Pump bases and heads are of either cast iron/stainless steel (CRI) or cast iron EN-GJS-500-7 (CR), depending on

The pumps are equipped with a service-friendly cartridge shaft seal, HQQE (SiC/SiC/EPDM)

- Stainless steel base frame to EN DIN 1.4301 up to CR 90; above CR 90 the pumps are placed on a
- Non-return valves are certified according to DVGW, isolating valves according to DIN and DVGW
- Control MPC in a steel cabinet, IP54, including main switch, all required fuses, motor protection, switching

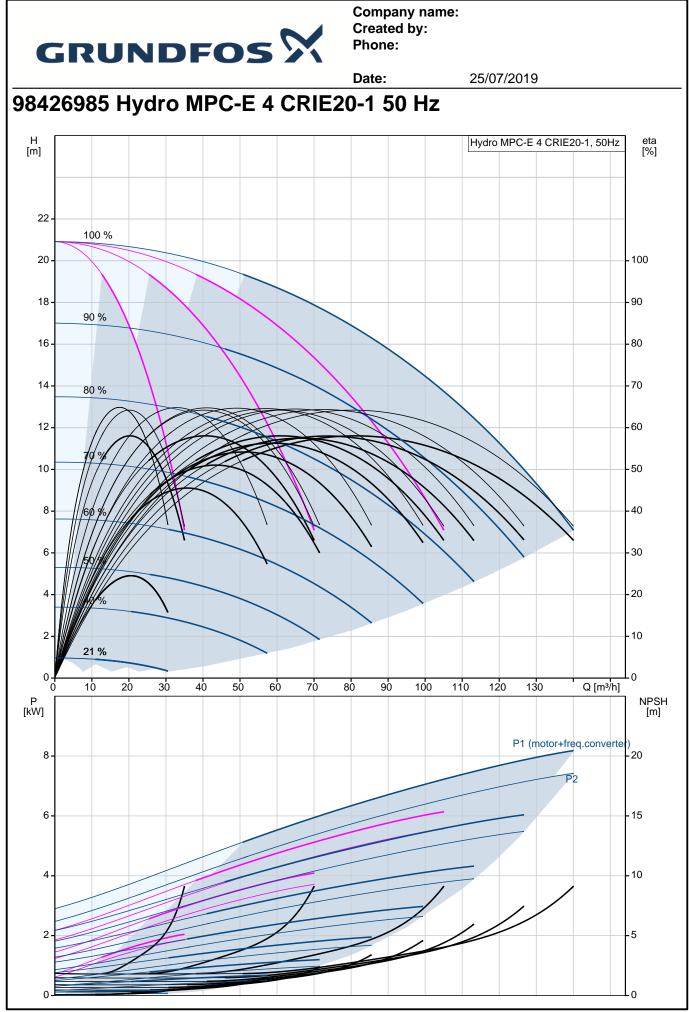
Dry-running protection and diaphragm tank are available according to the list of accessories.

Constant-pressure control through continuously variable adjustment of the speed Constant pressure at setpoint, independent of inlet pressure. Soft pressure build-up (To prevent water hammer during startup). Automatic cascade control of pumps for optimum efficiency. Selection of min. time between start/stop, automatic pump changeover and pump priority. Automatic pump test function to prevent idle pumps from seizing up. Possibility of standby pump allocation. Possibility of backup sensor (redundant primary sensor).



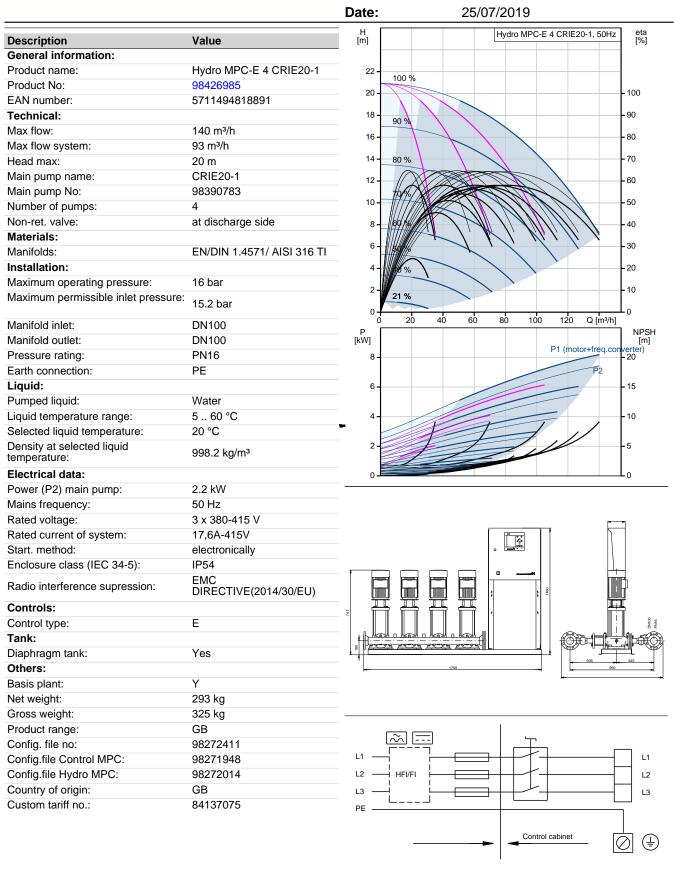
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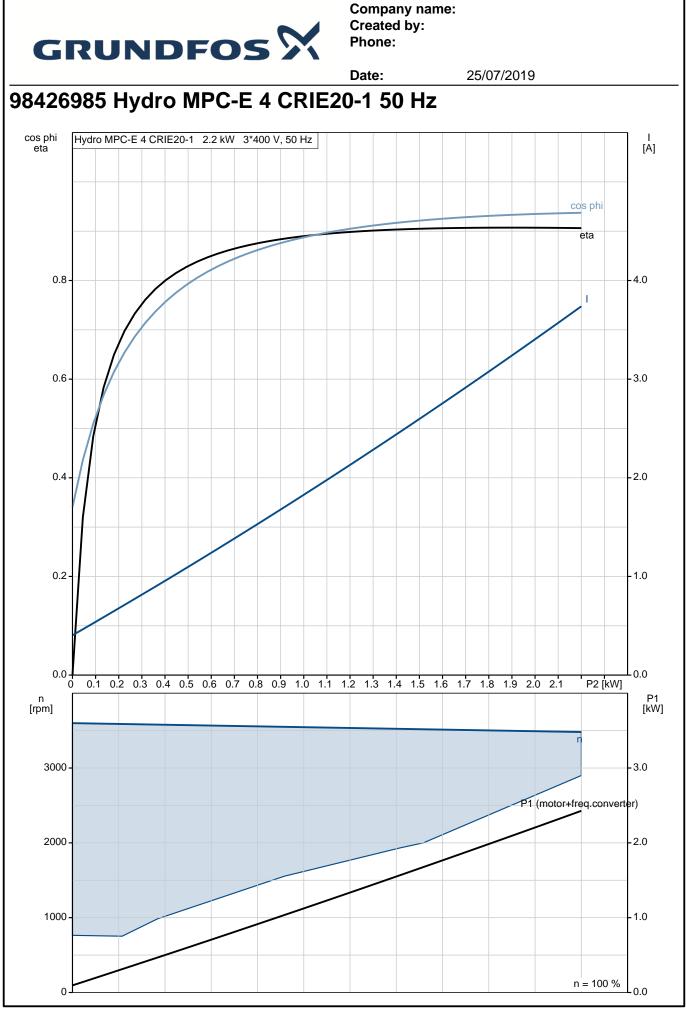
			Date:	25/07/2019
Qty.	Description			
Qty.	It is possible to add CIM commun Pumps, piping, cabling complete	Multi-sensor (up to Manual operation. Possibility of extern Log function. Setpoint ramp. Possibility of digital System on/off. Max., min. or user-o Up to 6 alternative s Digital inputs and o Pump and system r Minimum and maxii Inlet pressure. Non-return valve m Motor protection. Sensors and cables Alarm log with the p Display and indicati Colour screen displ Green indicator ligh indications Potential-free chang Grundfos bus comr nication modules for as well as Control M eset and tested. Water 5 °C 60 °C 16 bar 140 m <sup>3</sup> /h	econdary sensor (Possible to switch to another sensor/setpoint). lulti-sensor (up to 6 sensors to influence the setpoint). lanual operation. ossibility of external setpoint influence. ogg function. etpoint ramp. ossibility of digital remote-control functions: ystem on/off. lax., min. or user-defined duty. p to 6 alternative setpoints. igital inputs and outputs can be configured individually. ump and system monitoring functions: linimum and maximum limits of current value. let pressure. on-return valve monitoring. lotor protection. ensors and cables monitored for malfunction. larm log with the previous 24 warnings/alarms. isplay and indication functions: olour screen display. ireen indicator light for operating indications and red indicator light for fault dications otential-free changeover contacts for operation and fault. irundfos bus communication. extion modules for communicating with Scada/BMS. s well as Control MPC are mounted on the base frame. et and tested. //ater °C 60 °C 6 bar 40 m³/h cc. DIN 1988/T5: 93 m³/h 80-415 V 7,6A-415V 2 kW	
	System pressure max.: Flow (Plant): Flow without one stand-by pump Mains suply: Nom. current of plant: Nominal power:	16 bar 140 m³/h acc. DIN 1988/T5: 380-415 V 17,6A-415V 2.2 kW	93 m³/h	
	Maximum head: 20 m	aximum head: 20 m		





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