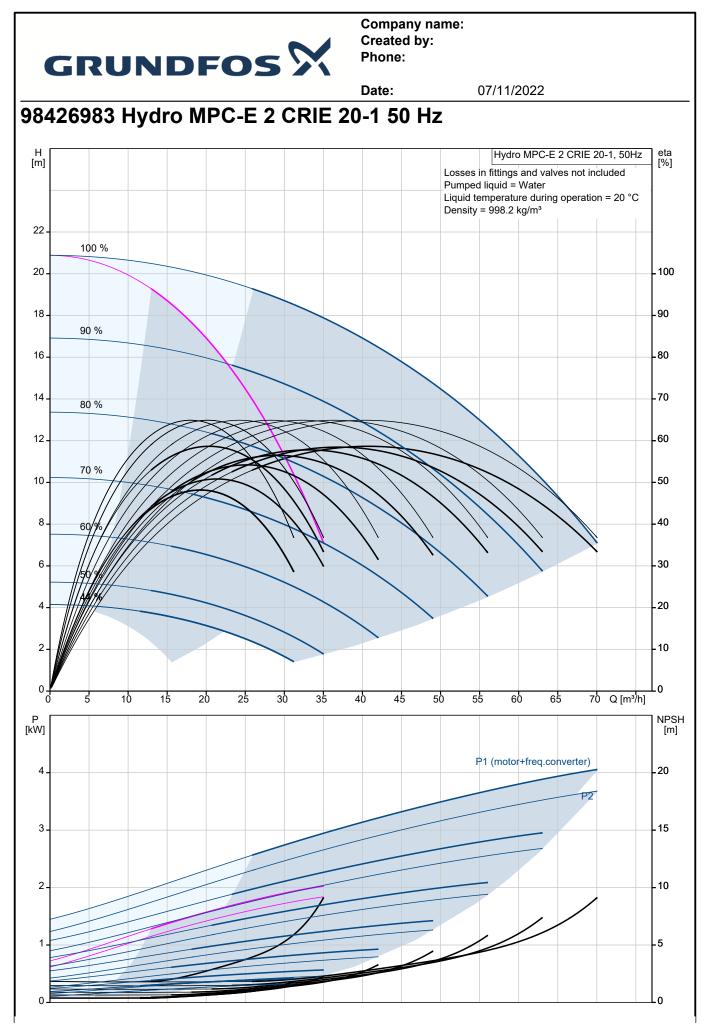


GRUNDFUS //								
	Date: 07/11/2022							
ty.	Description							
	Hydro MPC-E 2 CRIE 20-1							
	Note! Product picture may differ from actual product							
	Product No.: 98426983							
	Pressure booster system supplied as compact assembly according to DIN standard 1988/T5.							
	Pressure booster system supplied as compact assembly according to DNV standard 1900/15.							
	All pumps are speed-controlled.							
	From 0.37 to 11 kW, the booster system is equipped with CR, CRE, CRI, CRIE pumps with electronically commutated permanent-magnet motors with extremely high efficiency. The total efficiency of the motor including the							
	frequency converter applies to IE5 level in IEC60034-31.							
	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							
	IEC60034-31, even though this standard only applies to the motor.							
	* 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 and through parallel control of the pumps in operation.							
	* Pump changeover is automatic and depends on load, time and fault.							
	The system consists of these parts: :vertical, multistage, centrifugal pumps, type CRIE 20-1							
	Pump parts in contact with the pumped liquid are made of stainless steel EN DIN 1.4301							
	Pump bases and heads are of either cast iron/stainless steel (CRI) or cast iron EN-GJS-500-7 (CR), depending on							
	pump type; other vital parts are made of stainless steel EN DIN 1.4301							
	The pumps are equipped with a service-friendly cartridge shaft seal, HQQE (SiC/SiC/EPDM) * Two stainless steel manifolds to EN DIN 1.4571							
	* Stainless steel base frame to EN DIN 1.4301 up to CR 90; above CR 90 the pumps are placed on a							
	galvanized I-Beam frame							
	 * One non-return valve (POM) and two isolating valves for each pump * Non-return valves are certified according to DVGW, isolating valves according to DIN and DVGW 							
	* Adapter with isolating valve for connection of diaphragm tank							
	 * Pressure gauge and pressure transmitter (analog output 4-20 mA) 							
	* Control MPC in a steel cabinet, IP54, including main switch, all required fuses, motor protection, switching							
	equipment and microprocessor-controlled CU 352.							
	Dry-running protection and diaphragm tank are available according to the list of accessories.							
	Pump operation is controlled by Control MPC with the following functions:							
	* Intelligent multipump controller, CU 352. Constant-pressure control through continuously variable adjustment of the speed of							
	each individual pump.							
	PID controller with adjustable PI parameters (Kp + Ti).							
	Constant pressure at setpoint, independent of inlet pressure.							
	Soft pressure build-up (To prevent water hammer during startup). On/off operation at low flow.							
	Automatic cascade control of pumps for optimum efficiency.							
	Selection of min. time between start/stop, automatic pump changeover and pump							

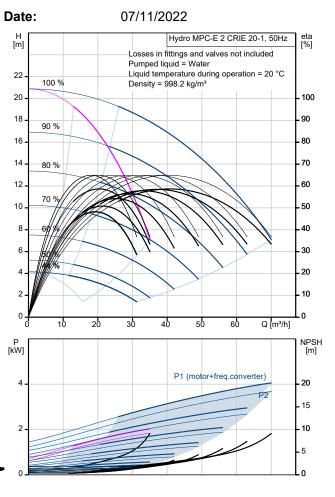


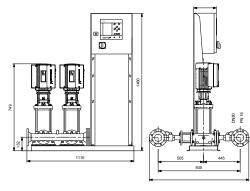
Description							
			vent idle pumps from seizing up.				
Possibility of standby pump allocation.							
Possibility of backup sensor (redundant primary sensor).							
	Secondary sensor	(Possible to switc	h to another sensor/setpoint).				
	Multi-sensor (up to	6 sensors to influ	ence the setpoint).				
	Manual operation.						
	Possibility of exterr	nal setpoint influer	nce.				
	Log function.						
	Setpoint ramp.						
	Possibility of digita	remote-control fu	Inctions:				
	System on/off.						
	Max., min. or user-	defined duty.					
	Up to 6 alternative	•					
			nfigured individually.				
	Pump and system	•	•				
	Minimum and maxi						
	Inlet pressure.						
	Non-return valve m	ionitorina.					
	Motor protection.	5					
	Sensors and cable	s monitored for m	alfunction.				
	Alarm log with the						
	Display and indicat						
	Colour screen disp						
		•	dications and red indicator light for fault				
	indications	1 5	5				
	Potential-free chan	geover contacts f	or operation and fault.				
	Grundfos bus com	-	•				
It is possible to add CIM comm	-		ith Scada/BMS.				
Pumps, piping, cabling comple	nunication modules for ete as well as Control M	communicating w					
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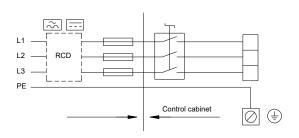




Description	Value
General information:	
Product name:	Hydro MPC-E 2 CRIE 20-1
Product No:	98426983
EAN number:	5711494818877
Technical:	
Rated flow:	50.6 m³/h
Max flow:	70 m³/h
Max flow system:	31 m³/h
Rated head:	14.3 m
Head max:	20.4 m
Main pump name:	CRIE 20-1
Main pump No:	98390783
Number of pumps:	2
Non-ret, valve:	at discharge side
Materials:	at discharge side
Manifolds:	EN/DIN 1.4571/ AISI 316 Ti
Installation:	EN/DIN 1.4371/ AISI 310 11
	540 °C
Range of ambient temperature:	
Maximum operating pressure:	16 bar
Maximum permissible inlet pressure:	15.2 bar
Manifold inlet:	DN80
Manifold outlet:	DN80
Pressure rating:	PN 16
Earth connection:	N, PE
System design:	A
Liquid:	
Pumped liquid:	Water
Liquid temperature range:	5 60 °C
Selected liquid temperature:	20 °C
Density:	998.2 kg/m ³
Electrical data:	000.2 kg/m
Power (P2) main pump:	2.2 kW
Mains frequency:	50 Hz
	3 x 380-415 V
Rated voltage:	8.8 A
Rated current of system: Start_method:	
	electronically
Enclosure class (IEC 34-5):	
Radio interference supression:	EMC DIRECTIVE(2014/30/EU)
Number of phases of main pump:	3
Controls:	
Control type:	E
Dry running protection, mechanical:	PRESSURE SENSOR 0-4 BAR
Tank:	
Volume of pressure tank:	12 I
Diaphragm tank:	Yes
Others:	
Basis plant:	Υ
Net weight:	168 kg
Gross weight:	189 kg
Sales region:	Great Britain
0	98272411
Config. file no:	
Config.file Control MPC:	98271946

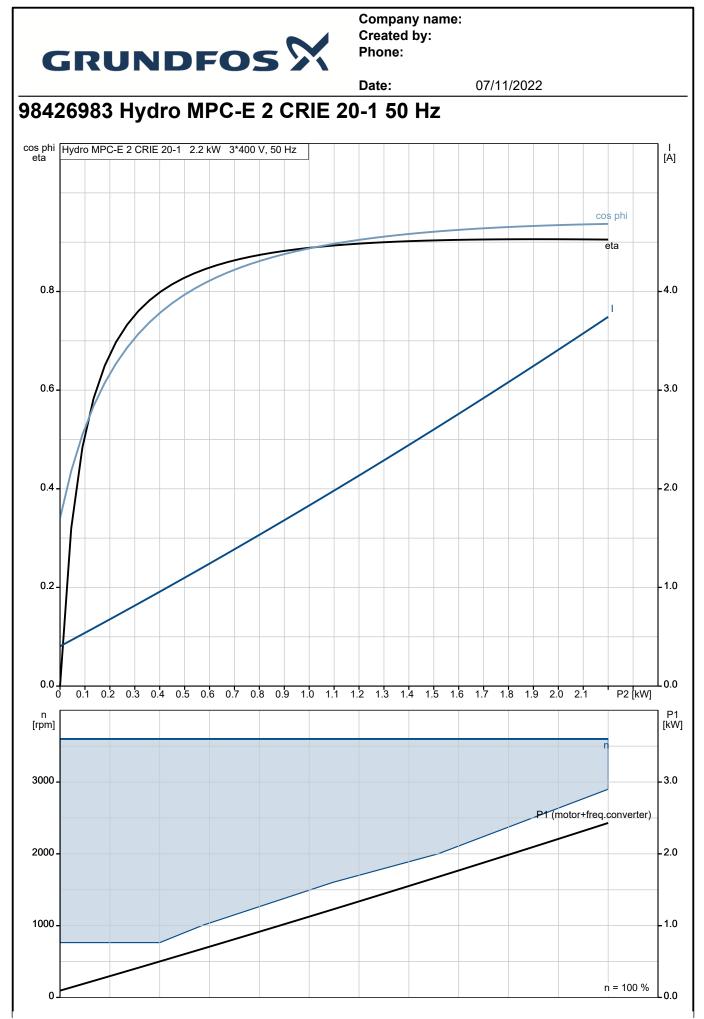






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Config.file Hydro MPC:

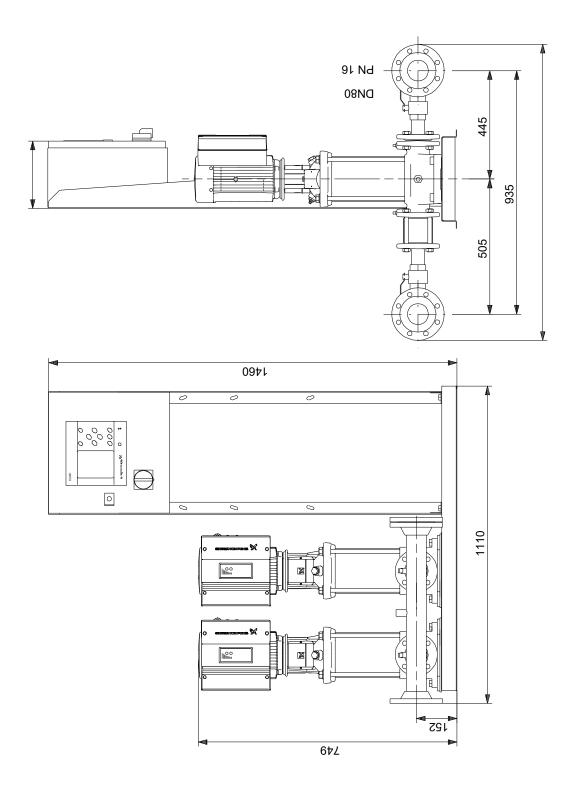




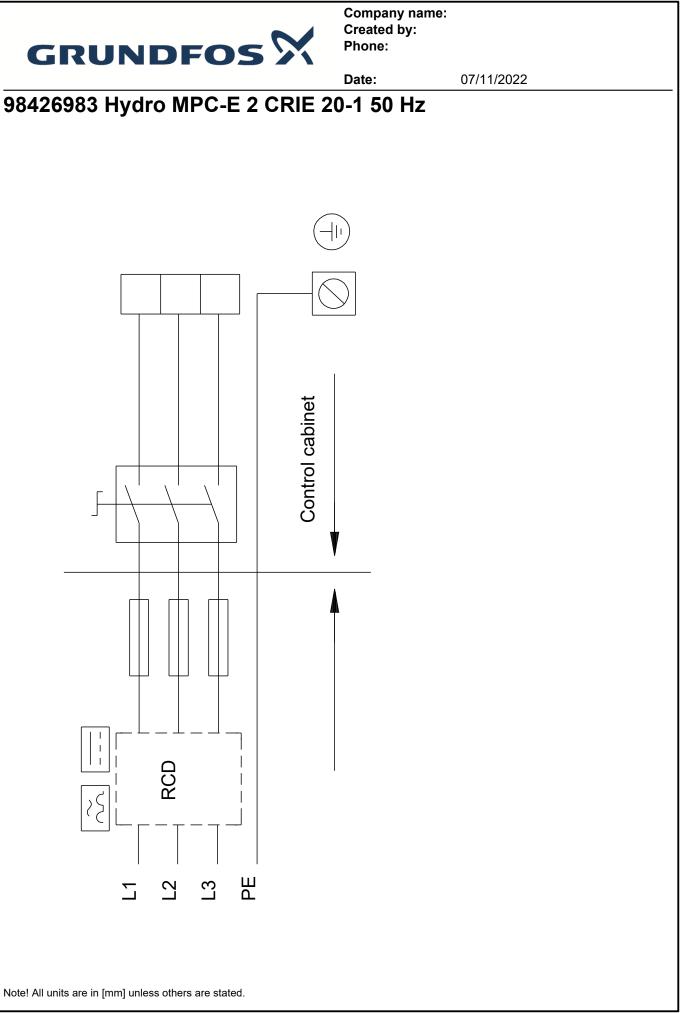
Date:

07/11/2022

98426983 Hydro MPC-E 2 CRIE 20-1 50 Hz



Note! All units are in [mm] unless others are stated. Disclaimer: This simplified dimensional drawing does not show all details.





Your pos.

Position

Company name: Created by: Phone:

07/11/2022 Date: **Order Data: Product name Product No** Total Amount | Hydro MPC-E 2 CRIE 20-1 1 98426983 Price on

		90420903	request