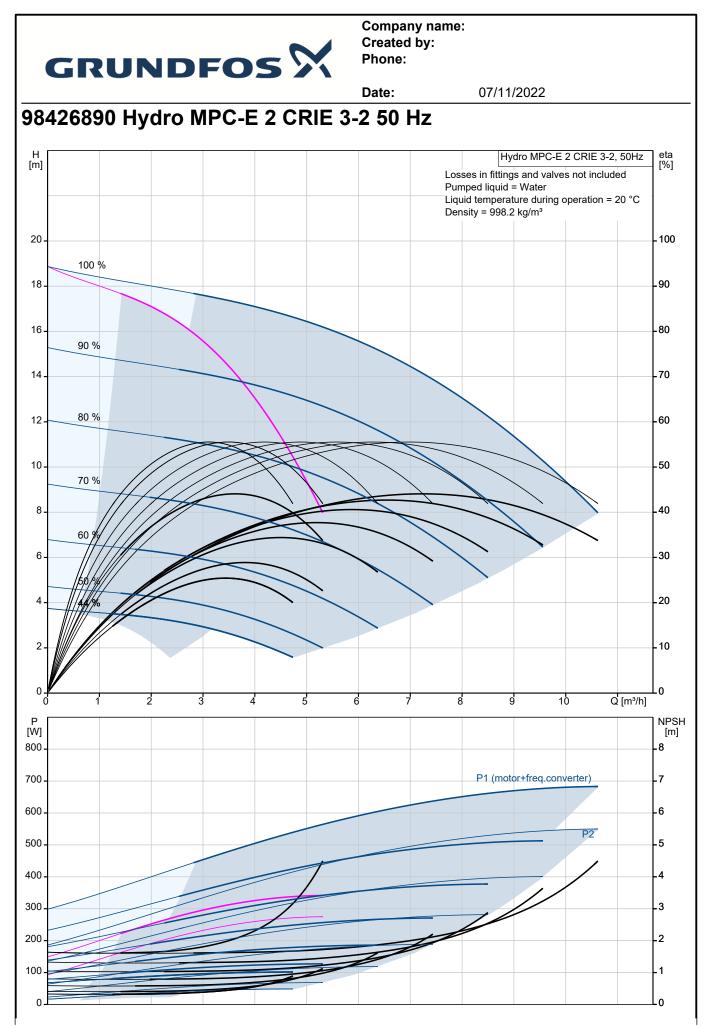


	JKUNDFUS //
	Date: 07/11/2022
ty.	Description
	Hydro MPC-E 2 CRIE 3-2
	Note! Product picture may differ from actual product
	Product No.: 98426890
	Pressure bester system supplied as compact accombly according to DIN standard 1099/TE
	Pressure booster system supplied as compact assembly according to DIN standard 1988/T5.
	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 3-2 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
	<ul> <li>* Stainless steel base frame to EN DIN 1.4301 up to CR 90; above CR 90 the pumps are placed on a</li> </ul>
	galvanized I-Beam frame
	* One non-return valve (POM) and two isolating valves for each pump
	<ul> <li>* Non-return valves are certified according to DVGW, isolating valves according to DIN and DVGW</li> <li>* Adapter with isolating valve for connection of diaphragm tank</li> </ul>
	* 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

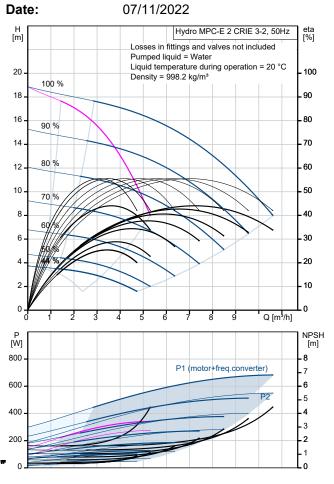


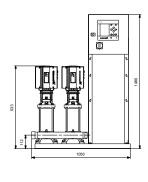
Description			
			vent idle pumps from seizing up.
	Possibility of stand		
			ant primary sensor).
			h to another sensor/setpoint).
	Multi-sensor (up to	6 sensors to influ	ence the setpoint).
	Manual operation.		
	Possibility of extern	nal setpoint influer	nce.
	Log function.		
	Setpoint ramp.		
	Possibility of digita	remote-control fu	inctions:
	System on/off.		
	Max., min. or user-	•	
	Up to 6 alternative		<b>a</b>
	•	•	nfigured individually.
	Pump and system		
	Minimum and max	mum limits of cur	rent value.
	Inlet pressure.		
	Non-return valve m	ionitoring.	
	Motor protection.		- 16
	Sensors and cable		
	Alarm log with the		ngs/alarms.
	Display and indicat Colour screen disp		
	-	•	dications and red indicator light for fault
	indications	it for operating in	
		deover contacts f	or operation and fault.
	Grundfos bus com	-	or operation and ladit.
It is possible to add CIM comm	-		ith Scada/BMS.
Pumps, piping, cabling comple	nunication modules for ete as well as Control N	communicating w	
Pumps, piping, cabling comple The booster system has been	nunication modules for ete as well as Control N preset and tested.	communicating w	
Pumps, piping, cabling comple The booster system has been There are options to upgrade	nunication modules for ete as well as Control N preset and tested.	communicating w	
Pumps, piping, cabling comple The booster system has been There are options to upgrade boosting system.	nunication modules for ete as well as Control M preset and tested. the pressure	communicating w	
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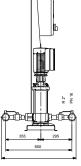


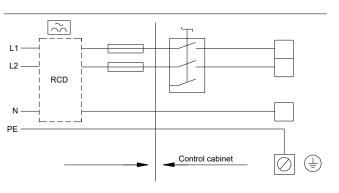


Description	Value		
General information:			
Product name:	Hydro MPC-E 2 CRIE 3-2		
Product No:	98426890		
EAN number:	5711494817948		
Technical:			
Rated flow:	7 m³/h		
Max flow:	10.8 m³/h		
Max flow system:	5 m³/h		
Rated head:	13.5 m		
Head max:	18.9 m		
Main pump name:	CRIE 3-2		
Main pump No:	98389726		
Number of pumps:	2		
Non-ret, valve:	at discharge side		
Materials:	at alconargo clao		
Manifolds:	EN/DIN 1.4571/ AISI 316 Ti		
Installation:			
Range of ambient temperature:	540 °C		
Maximum operating pressure:	16 bar		
Maximum permissible inlet pressure:	15.3 bar		
	10.0 541		
Manifold inlet:	R 2"		
Manifold outlet:	R 2"		
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/m³		
Electrical data:			
Power (P2) main pump:	0.37 kW		
Mains frequency:	50 Hz		
Rated voltage:	1 x 200-240 V		
Rated current of system:	4 A		
Start. method:	electronically		
Enclosure class (IEC 34-5):	IP54		
Radio interference supression:	EMC DIRECTIVE(2014/30/EU)		
Number of phases of main pump:	1		
Controls:			
Control type:	E		
Dry running protection, mechanical:	PRESSURE SENSOR 0-4 BAR		
Tank:			
Volume of pressure tank:	12		
Diaphragm tank:	Yes		
Others:			
Basis plant:	Y		
Net weight:	89 kg		
Gross weight:	110 kg		
Sales region:	Great Britain		
Config. file no:	98272353		
Config.file Control MPC:	98271946		
Config file Llydro MDC:	00070014		



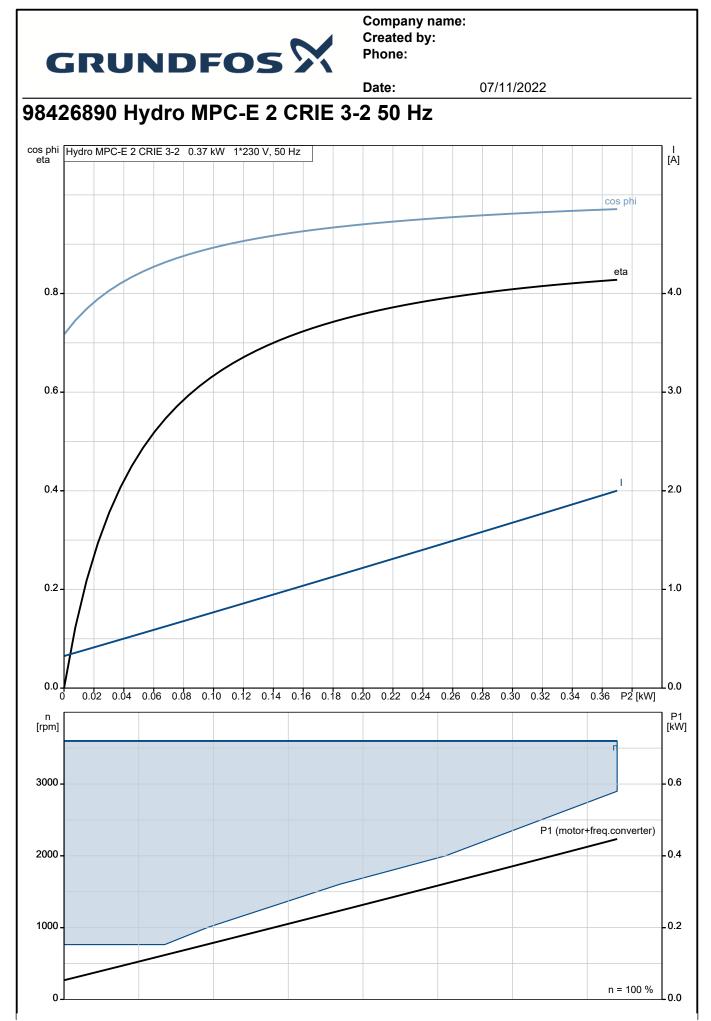






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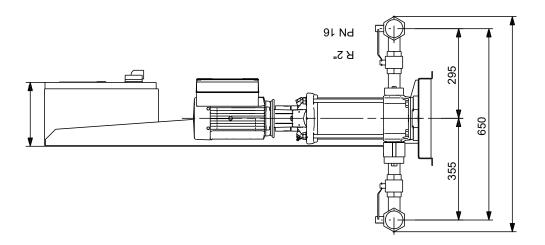
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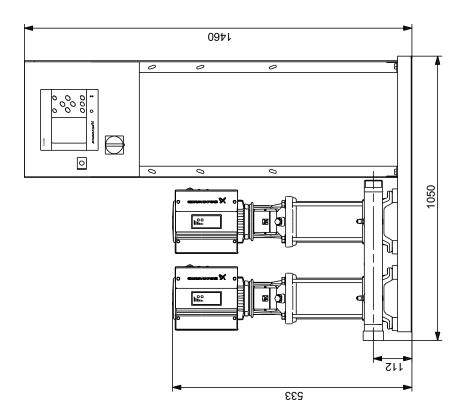




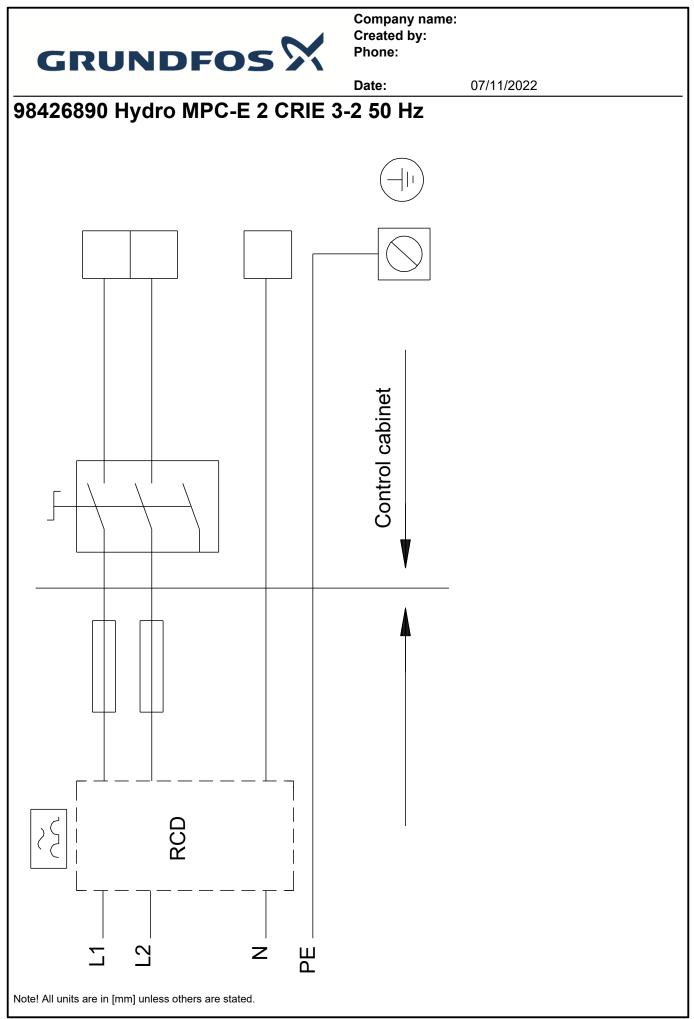
07/11/2022

## 98426890 Hydro MPC-E 2 CRIE 3-2 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:

 Date:
 07/11/2022

 Order Data:
 Product No
 Total

 Hydro MPC-E 2 CRIE 3-2
 1
 98426890
 Price on request

 Hydro MPC-E 2 CRIE 3-2
 1
 98426890
 Price on request