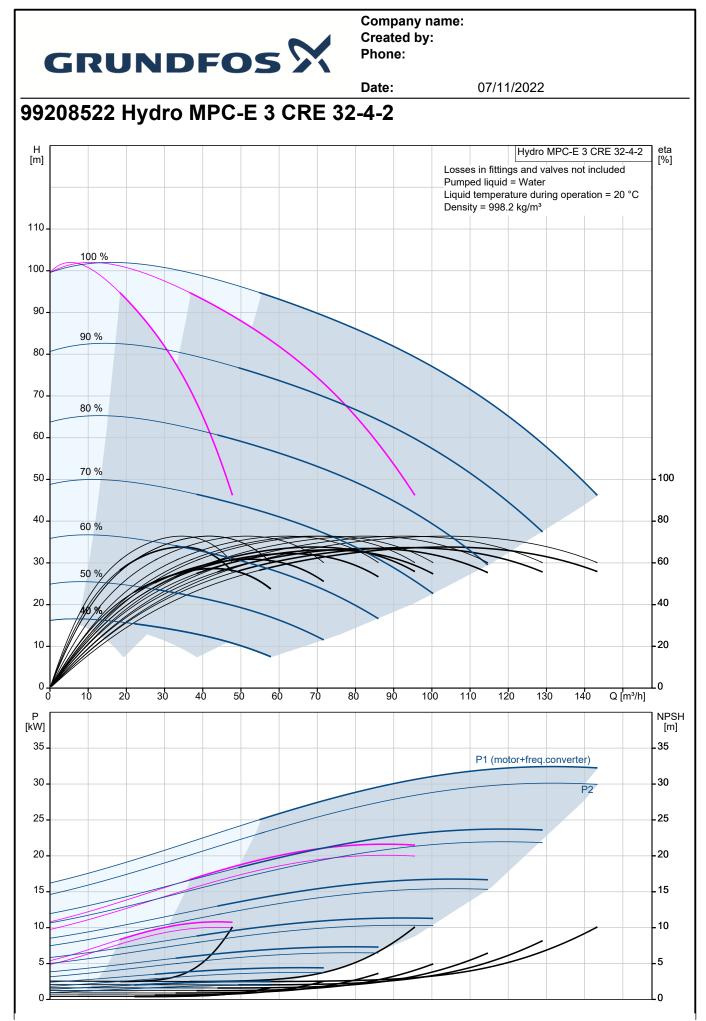


GRUNDFUS /		
	Date: 07/11/2022	
' .	Description	
	Hydro MPC-E 3 CRE 32-4-2	
	Notel Product picture may differ from actual product	
	Note! Product picture may differ from actual product Product No.: 99208522	
	Pressure booster system supplied as compact assembly according to DIN standard 1988/T5.	
	All pumps are speed-controlled.	
	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 CRE 32-4-2 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	
	* 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 o	
	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	



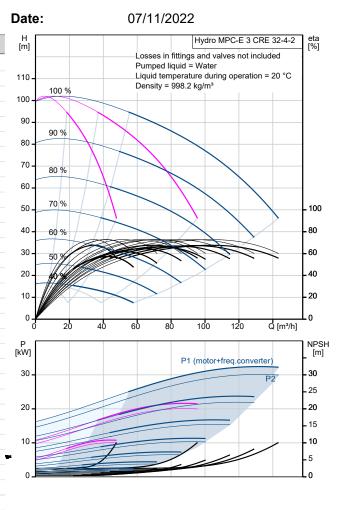
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Description			
			ent idle pumps from seizing up.
	Possibility of stand		
			ant primary sensor).
			h to another sensor/setpoint).
	Multi-sensor (up to	6 sensors to influ	ence the setpoint).
	Manual operation.		
	Possibility of exter	nal setpoint influe	nce.
	Log function.		
	Setpoint ramp.		
	Possibility of digita	l remote-control fu	Inctions:
	System on/off.		
	Max., min. or user-	defined duty	
	Up to 6 alternative		
			nfigured individually.
	Pump and system		
	Minimum and max		
		imum iimits of cur	
	Inlet pressure.		
	Non-return valve n	nonitoring.	
	Motor protection.		
	Sensors and cable		
	Alarm log with the		ngs/alarms.
	Display and indica		
	Colour screen disp		
		ht for operating in	dications and red indicator light for fault
	indications		
	Potential-free char	ngeover contacts f	or operation and fault.
	Grundfos bus com	munication	
It is possible to add CIM com	munication modules for		ith Scada/RMS
Pumps, piping, cabling compl	ete as well as Control N	communicating w	
Pumps, piping, cabling compl The booster system has beer There are options to upgrade	lete as well as Control M n preset and tested.	communicating w	
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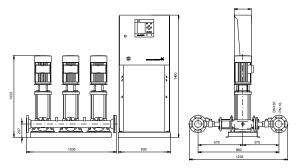


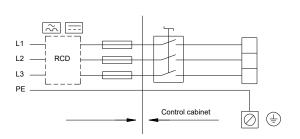


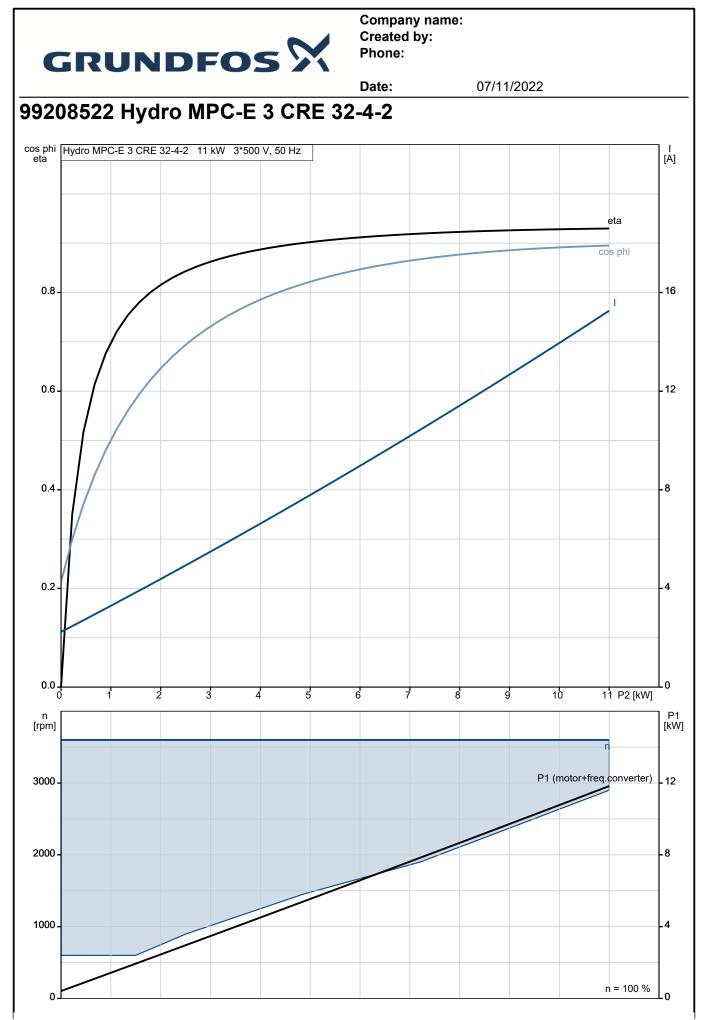
Description	Value
General information:	
Product name:	Hydro MPC-E 3 CRE 32-4-2
Product No:	99208522
EAN number:	5712608723117
Technical:	
Rated flow:	108 m³/h
Max flow:	144 m³/h
Max flow system:	96 m³/h
Rated head:	78.2 m
Head max:	101.9 m
Main pump name:	CRE 32-4-2
Main pump No:	99071955
Number of pumps:	3
Non-ret. valve:	at discharge side
Materials:	
Manifolds:	EN/DIN 1.4571/ AISI 316 Ti
Installation:	
Range of ambient temperature:	5 40 °C
Maximum operating pressure:	16 bar
Manifold inlet:	DN150
Manifold outlet:	DN150
Pressure rating:	PN 16
Earth connection:	N, PE
System design:	D
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:	11 kW
Mains frequency:	50 / 60 Hz
Rated voltage:	3 x 380-415 V
Rated current of system:	63.6 A
Start. method:	electronically
Enclosure class (IEC 34-5):	IP54
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
Diaphragm tank:	Yes

Diaphragm tank:	Yes
Others:	
Basis plant:	Y
Net weight:	642 kg
Gross weight:	680 kg
Sales region:	Great Britain
Config. file no:	98272425
Config.file Control MPC:	98271947
Config.file Hydro MPC:	98272020







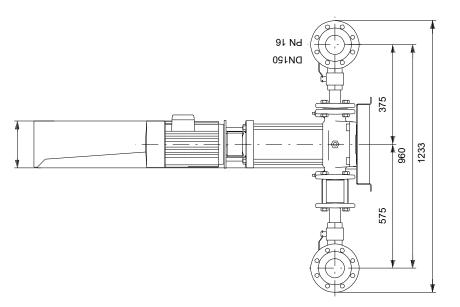


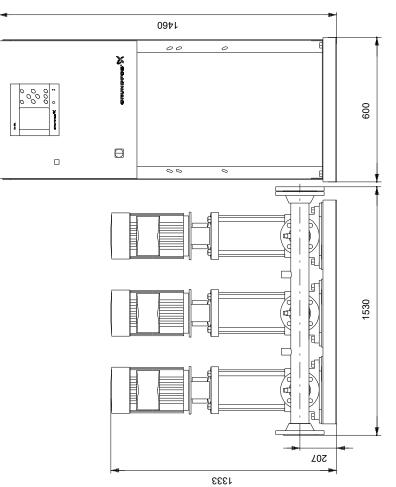


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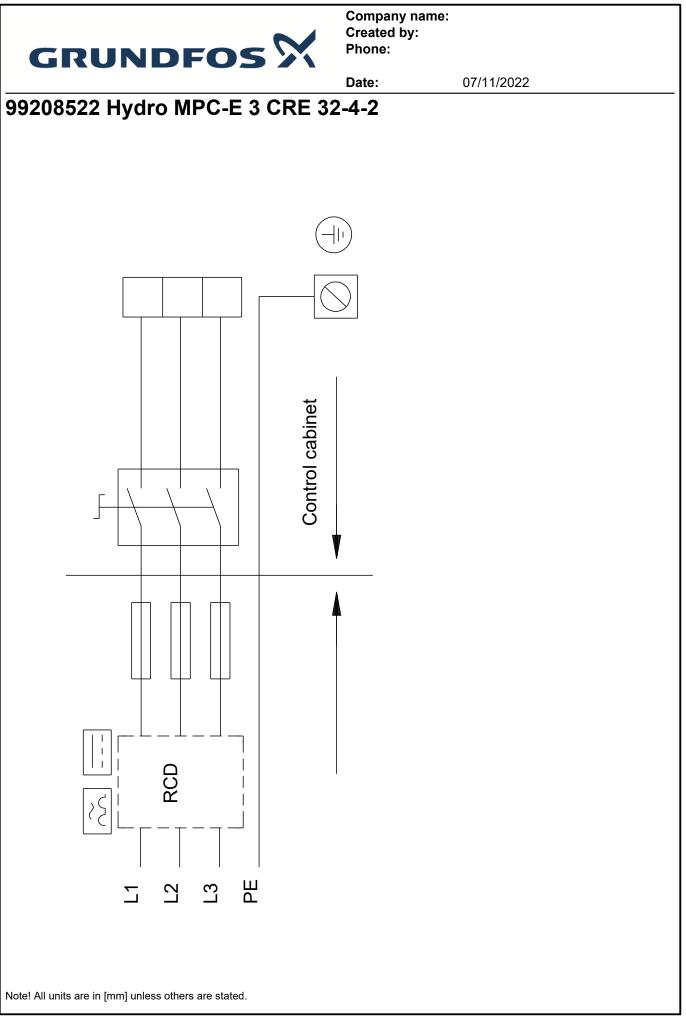
07/11/2022

99208522 Hydro MPC-E 3 CRE 32-4-2





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** Amount **Product No** Total Hydro MPC-E 3 CRE 32-4-2 1 99208522 Price on request