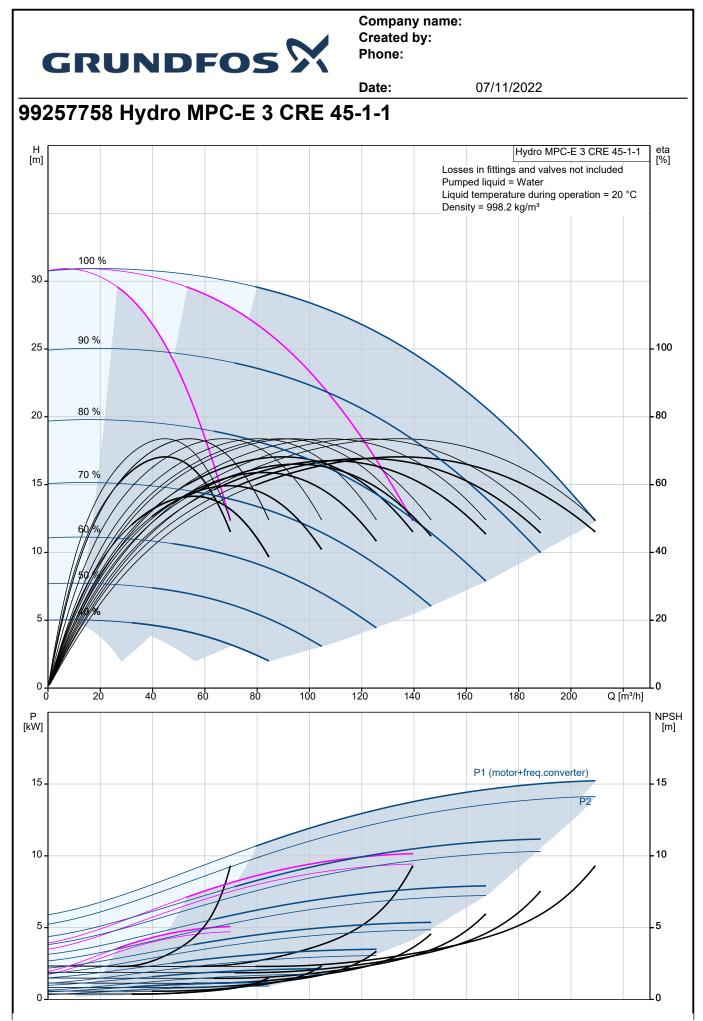


GRUNDFUS //								
	Date: 07/11/2022							
ty.	Description							
	Hydro MPC-E 3 CRE 45-1-1							
	Note! Product picture may differ from actual product							
	Product No.: 99257758							
	Pressure booster system supplied as compact assembly according to DIN standard 1988/T5.							
	All pumps are 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 CRE 45-1-1 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 values are certified according to DVGW, isolating values according to DIN and DVGW * Adapter with isolating value for connection of diaphragm tank 							
	 * 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 disphragm tank are available according to the list of accessories							
	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							



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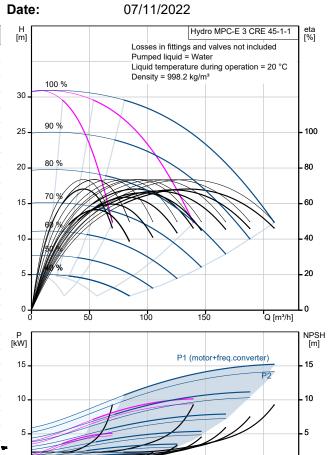


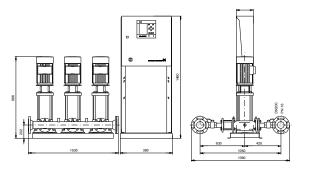


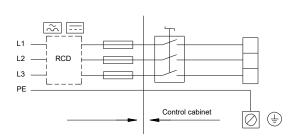
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Description	Value
General information:	
Product name:	Hydro MPC-E 3 CRE 45-1-1
Product No:	99257758
EAN number:	5713826112493
Technical:	
Rated flow:	162 m³/h
Max flow:	210 m³/h
Max flow system:	140 m³/h
Rated head:	22.1 m
Head max:	31 m
Main pump name:	CRE 45-1-1
Main pump No:	99072009
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:	DN200
Manifold outlet:	DN200
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/m ³
Electrical data:	550.2 Kg/m
Power (P2) main pump:	5.5 kW
Mains frequency:	50 / 60 Hz
Rated voltage:	3 x 380-415 V
Rated current of system:	33.6 A
Start. method:	electronically
Enclosure class (IEC 34-5):	IP54
	EMC DIRECTIVE(2014/30/EU)
Radio interference supression:	EMC DIRECTIVE(2014/30/EO)
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

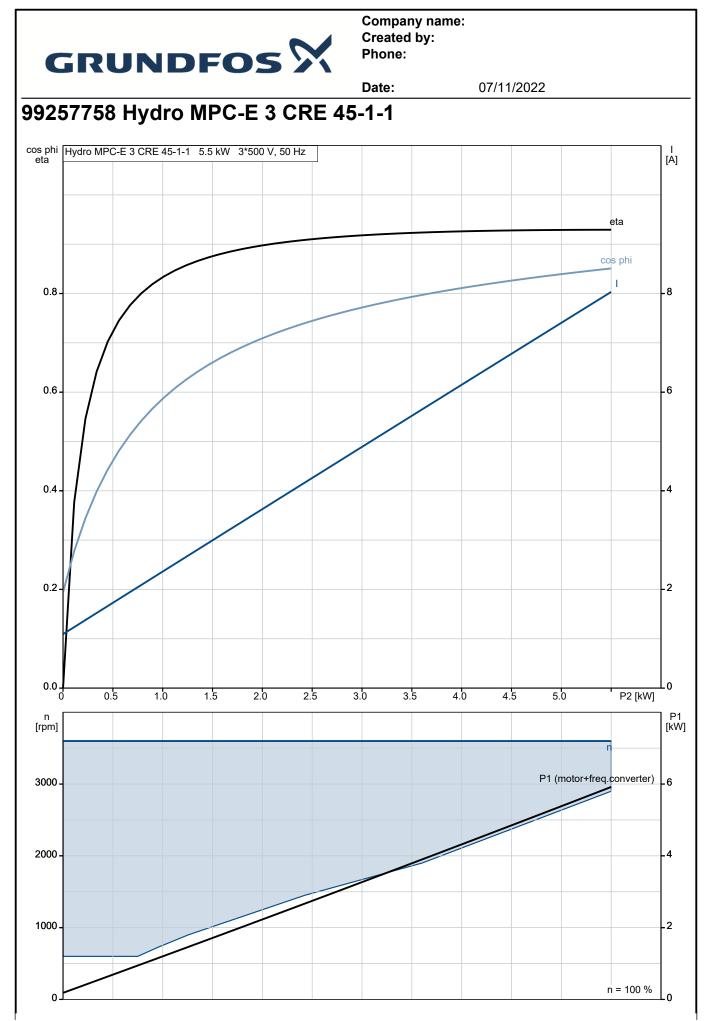
Volume of pressure tank:	121
Diaphragm tank:	Yes
Others:	
Basis plant:	Y
Net weight:	491 kg
Gross weight:	527 kg
Sales region:	Great Britain
Config. file no:	98272440
Config.file Control MPC:	98271947
Config.file Hydro MPC:	98272014







0

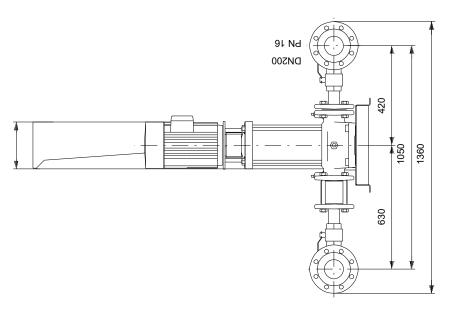


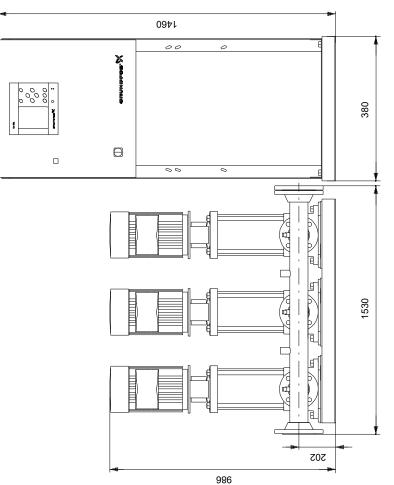


Date:

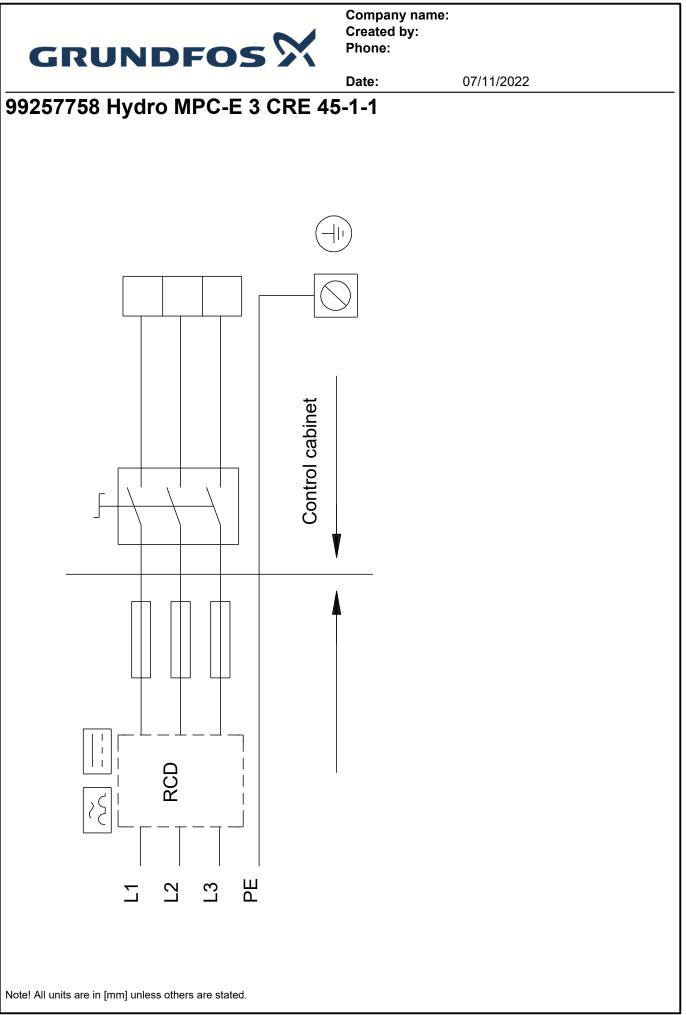
07/11/2022

99257758 Hydro MPC-E 3 CRE 45-1-1





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:** Total **Product name** Amount **Product No** Hydro MPC-E 3 CRE 45-1-1 1 99257758 Price on request

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