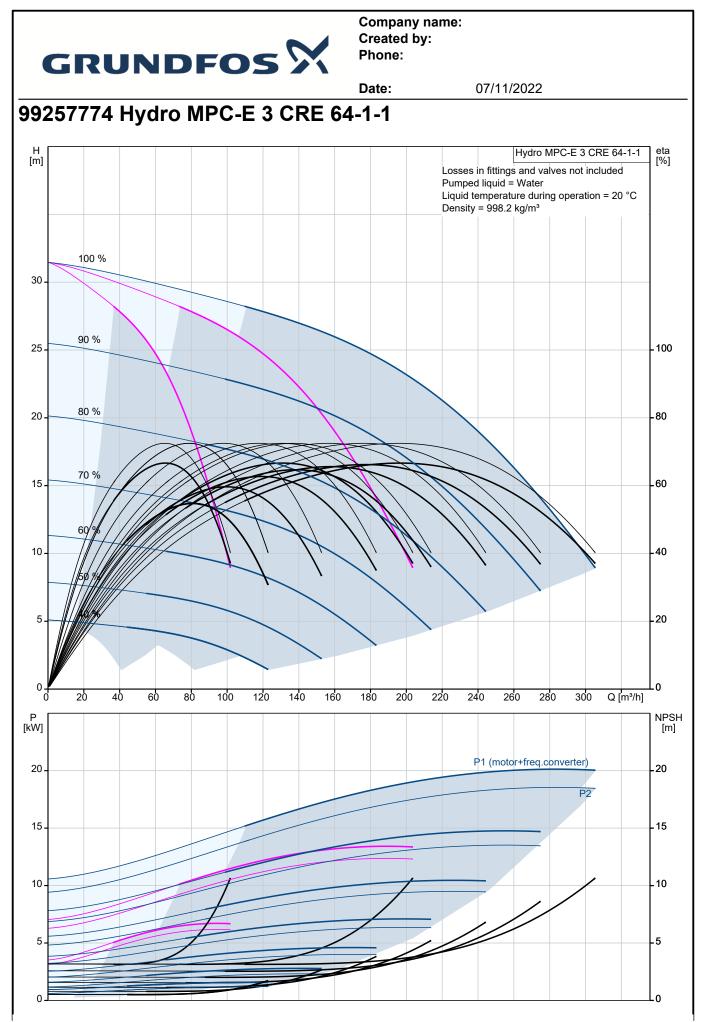


	GRUNDFUS //							
	Date: 07/11/2022							
ty.	Description							
	Hydro MPC-E 3 CRE 64-1-1							
	Note! Product picture may differ from actual product							
	Product No.: 99257774							
	Pressure booster system supplied as compact assembly according to DIN standard 1988/T5.							
	All pumps are 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 64-1-1 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 valves are certified according to DVGW, isolating valves according to DIN and DVGW 							
	 * 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							



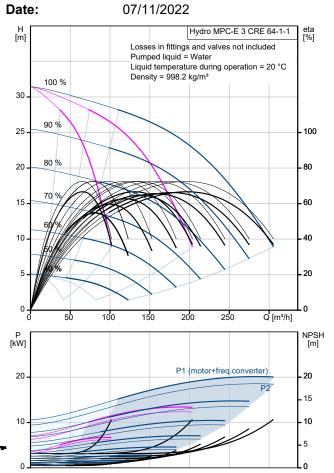
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Description						
			vent idle pumps from seizing up.			
Possibility of standby pump allocation.						
Possibility of backup sensor (redundant primary sensor).						
			h to another sensor/setpoint).			
		6 sensors to influ	ence the setpoint).			
	Manual operation.					
	Possibility of extern	nal setpoint influe	nce.			
	Log function.					
	Setpoint ramp.					
	Possibility of digita	l remote-control f	unctions:			
	System on/off.					
	Max., min. or user-	defined duty.				
	Up to 6 alternative	setpoints.				
	Digital inputs and o	outputs can be co	nfigured individually.			
	Pump and system	monitoring function	ons:			
	Minimum and max	mum limits of cur	rent value.			
	Inlet pressure.					
	Non-return valve m	onitoring.				
	Motor protection.	C C				
	Sensors and cable	s monitored for m	alfunction.			
	Alarm log with the	previous 24 warn	ngs/alarms.			
	Display and indicat		0			
	Colour screen disp					
	-	-	dications and red indicator light for fault			
	indications					
	Potential-free chan	geover contacts t	or operation and fault.			
	Grundfos bus com	munication				
It is possible to add CIM comm	-		rith Scada/BMS.			
Pumps, piping, cabling comple	nunication modules for te as well as Control N	communicating w				
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Pumps, piping, cabling comple The booster system has been There are options to upgrade ti	nunication modules for te as well as Control M preset and tested.	communicating w				
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It is possible to add CIM comm Pumps, piping, cabling comple The booster system has been f There are options to upgrade th boosting system. Flow media: Allowed liquid temp.: System pressure max.: Flow (Plant): Flow without one stand-by pum Nom. current of plant: Nominal power: Net weight:	te as well as Control M preset and tested. he pressure Water 5 °C 60 °C 16 bar 306 m³/h pacc. DIN 1988/T5: 42.3 A 7.5 kW	communicating w				
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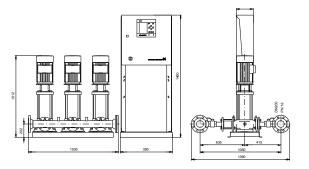


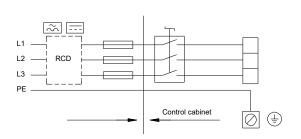


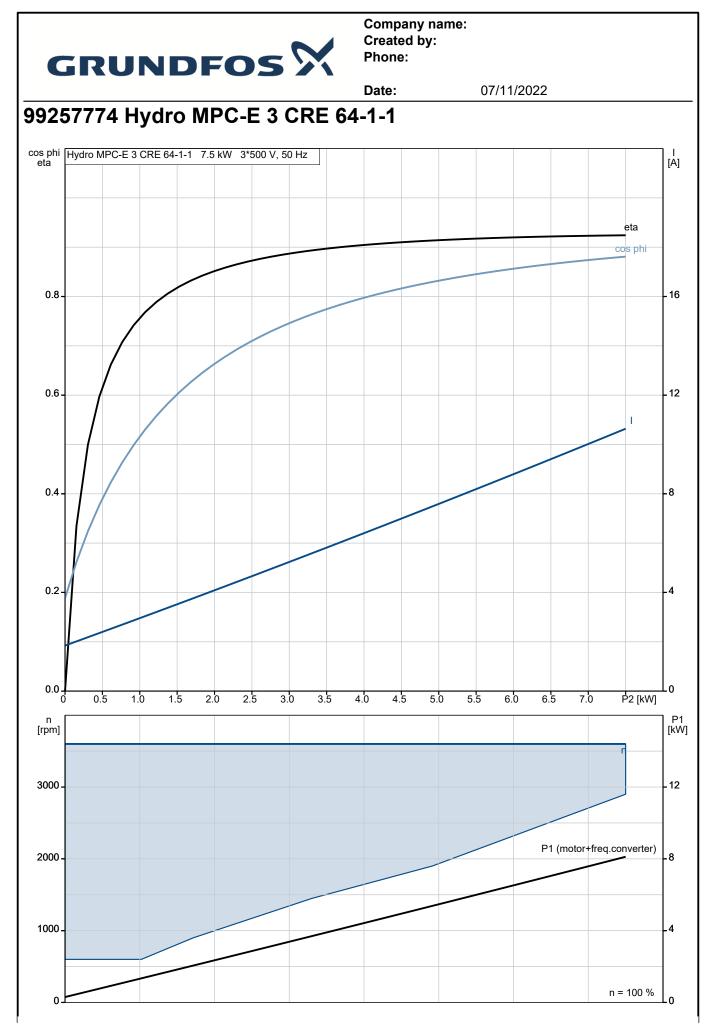
Description	Value
General information:	
Product name:	Hydro MPC-E 3 CRE 64-1-1
Product No:	99257774
EAN number:	5713826112851
Technical:	
Rated flow:	231 m³/h
Max flow:	306 m³/h
Max flow system:	184 m³/h
Rated head:	20.8 m
Head max:	32 m
Main pump name:	CRE 64-1-1
Main pump No:	99072057
Number of pumps:	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/m³
Electrical data:	
Power (P2) main pump:	7.5 kW
Mains frequency:	50 / 60 Hz
Rated voltage:	3 x 380-415 V
Rated current of system:	42.3 A
Start, method:	electronically
Enclosure class (IEC 34-5):	IP54
Radio interference supression:	EMC DIRECTIVE(2014/30/EU)
Radio Interference supression.	
Number of phases of main pump:	3
Controls:	
Control type:	E
Dry running protection, mechanical:	PRESSURE SENSOR 0-4 BAR
Tank:	
	12
•	
Volume of pressure tank: Diaphragm tank:	12 I Yes

volume of pressure tank.	121
Diaphragm tank:	Yes
Others:	
Basis plant:	Y
Net weight:	555 kg
Gross weight:	594 kg
Sales region:	Great Britain
Config. file no:	98272460
Config.file Control MPC:	98271947
Config.file Hydro MPC:	98272014





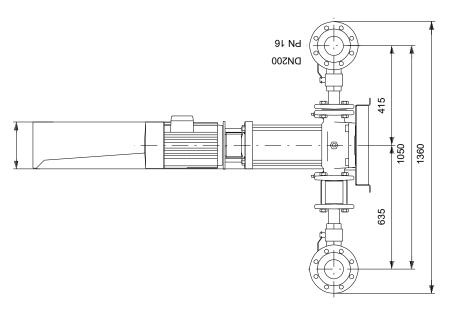


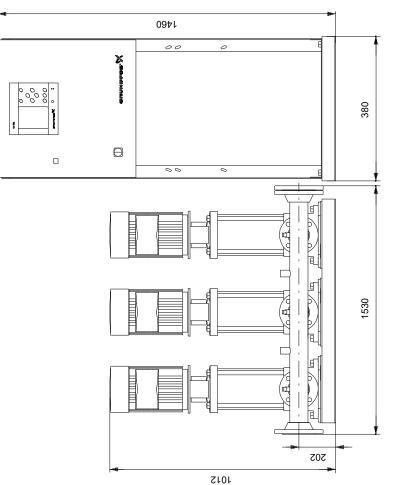




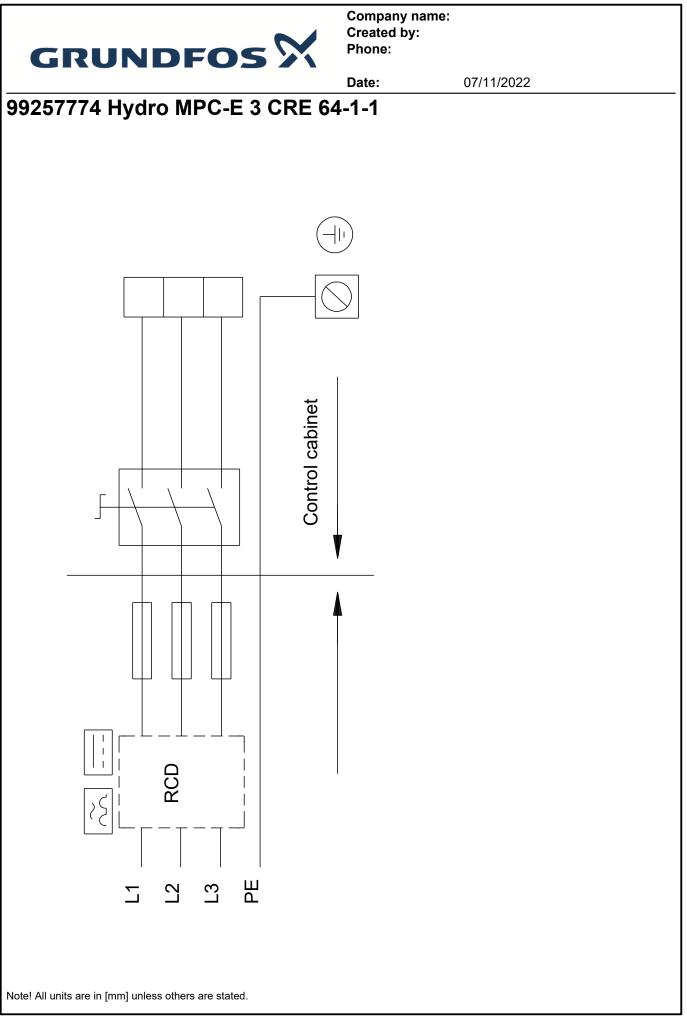
07/11/2022

99257774 Hydro MPC-E 3 CRE 64-1-1





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





Position | Your pos. |

Company name: Created by: Phone:

Date: 07/11/2022 Order Data: Total Product name Amount | Product No |

	Hydro MPC-E 3 CRE 64-1-1	1	99257774	Price on request