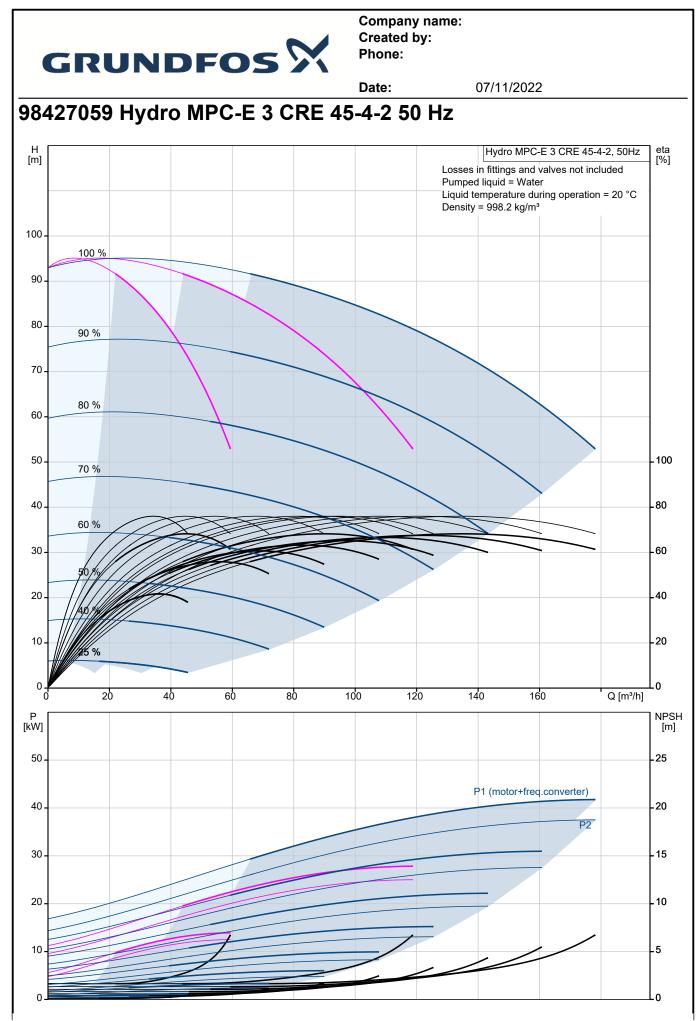


_	Date: 07/11/2022
	Description
	Hydro MPC-E 3 CRE 45-4-2
	Note! Product picture may differ from actual product
	Product No.: 98427059
	Pressure booster system supplied as compact assembly according to DIN standard 1988/T5.
	All pumps are speed-controlled.
	From 0.37 to 11 kW, the booster system is equipped with CR, CRE, CRI, CRIE pumps with electronically
	commutated permanent-magnet motors with extremely high efficiency. The total efficiency of the motor including th 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 an
	 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 45-4-2
	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 (applog output 4-20 mA)
	 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 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 pum

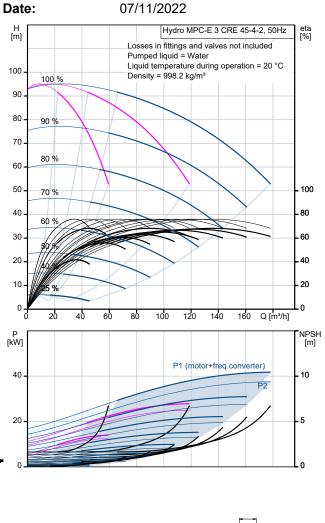


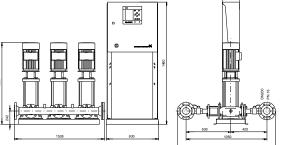
Description			
Description			
			vent idle pumps from seizing up.
	Possibility of stand		
	Possibility of backu	p sensor (redund	lant primary sensor).
	Secondary sensor	(Possible to swite	ch to another sensor/setpoint).
	Multi-sensor (up to	6 sensors to influ	lence the setpoint).
	Manual operation.		. ,
	Possibility of exterr	al setpoint influe	nce.
	Log function.	•	
	Setpoint ramp.		
	Possibility of digital	remote-control f	unctions.
	System on/off.		
	Max., min. or user-	defined duty	
	Up to 6 alternative		
			nfigured individually.
	•	•	• •
	Pump and system		
	Minimum and maxi	mum limits of cur	rent value.
	Inlet pressure.	., .	
	Non-return valve m	onitoring.	
	Motor protection.		
	Sensors and cable		
	Alarm log with the		ings/alarms.
	Display and indicat		
	Colour screen disp		
		nt for operating in	dications and red indicator light for fault
	indications		
	Potential-free chan	geover contacts	for operation and fault.
	Grundfos bus com	nunication.	
It is possible to add CIM comm Pumps, piping, cabling complet The booster system has been p There are options to upgrade th	te as well as Control M preset and tested.	-	
boosting system.			
Flow media:	Water		
Allowed liquid temp.:	5 °C 60 °C		
System pressure max.:	16 bar		
Flow (Plant):	210 m³/h		
Flow without one stand-by pum	p acc. DIN 1988/T5:	140 m³/h	
Nom. current of plant:	122 A		
Nominal power:	22 kW		
Net weight:	961 kg		
5	J		

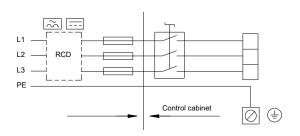


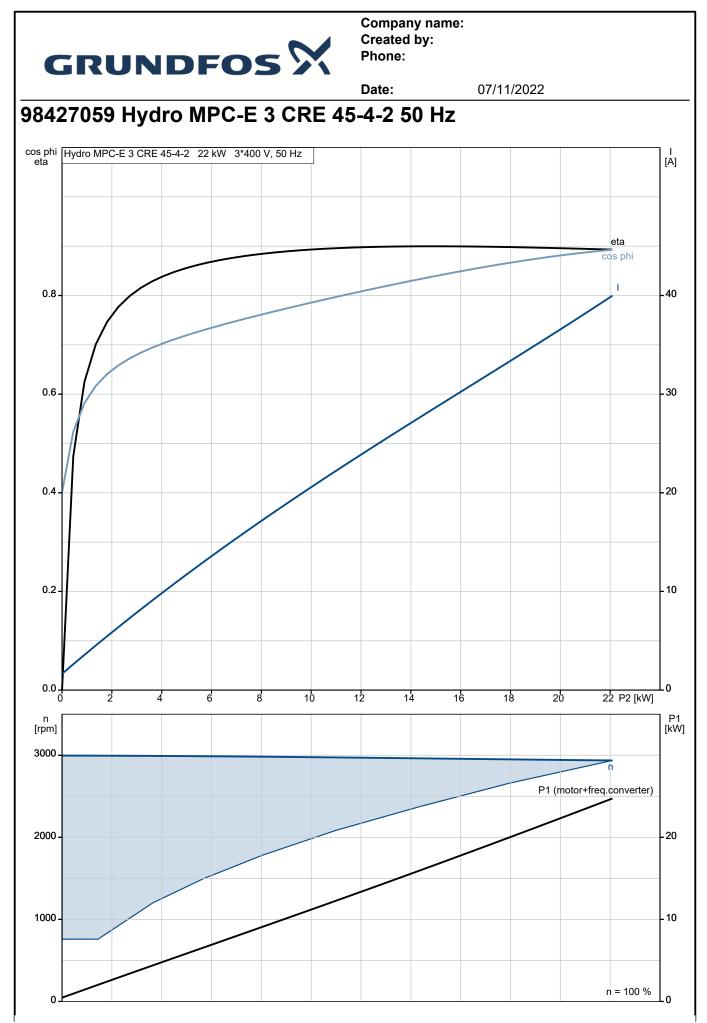


Description	Value
General information:	
Product name:	Hydro MPC-E 3 CRE 45-4-2
Product No:	98427059
EAN number:	5711494819638
Technical:	
Rated flow:	162 m³/h
Max flow	210 m ³ /h
Max flow system:	140 m ³ /h
Rated head:	104 m
Head max:	133 1 m
Main pump name:	CRE 45-4-2
	96123407
Main pump No: Number of number	3
Number of pumps:	-
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
Maximum permissible inlet pressure:	8.5 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:	560 °C
Selected liquid temperature:	20 °C
Density:	998.2 kg/m ³
Electrical data:	000.2 kg/m
Power (P2) main pump:	22 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-415 V
0	122 A
Rated current of system:	
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 I
Diaphragm tank:	Yes
Others:	
Basis plant:	Y
Net weight:	961 kg
-	999 kg
GIOSS WEIGHT	•
Gross weight: Sales region:	Great Britain
Sales region:	Great Britain
-	Great Britain 98272447 98271947







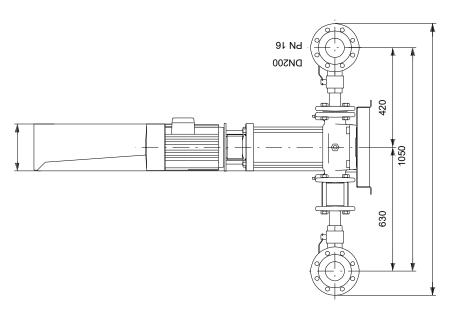


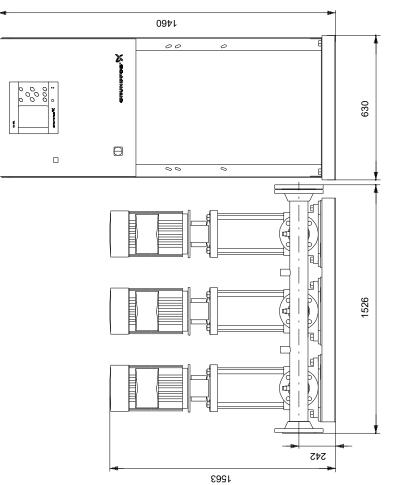


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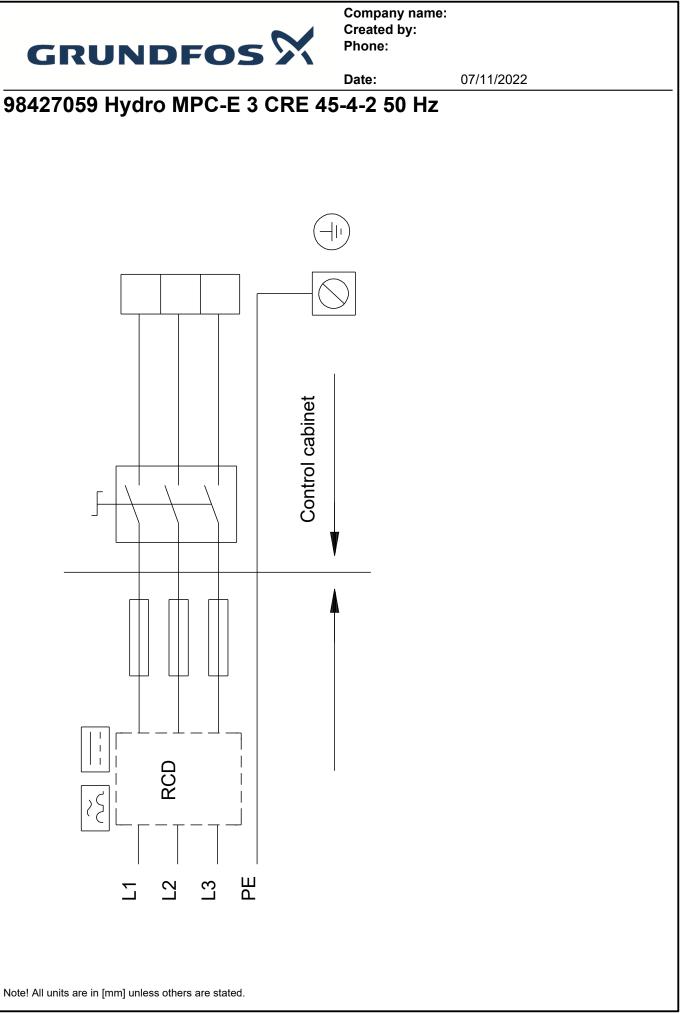
07/11/2022

98427059 Hydro MPC-E 3 CRE 45-4-2 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:

07/11/2022 Date: **Order Data: Product name** Amount | Product No Total Hydro MPC-E 3 CRE 45-4-2 1 98427059 Price on

		90427039	request