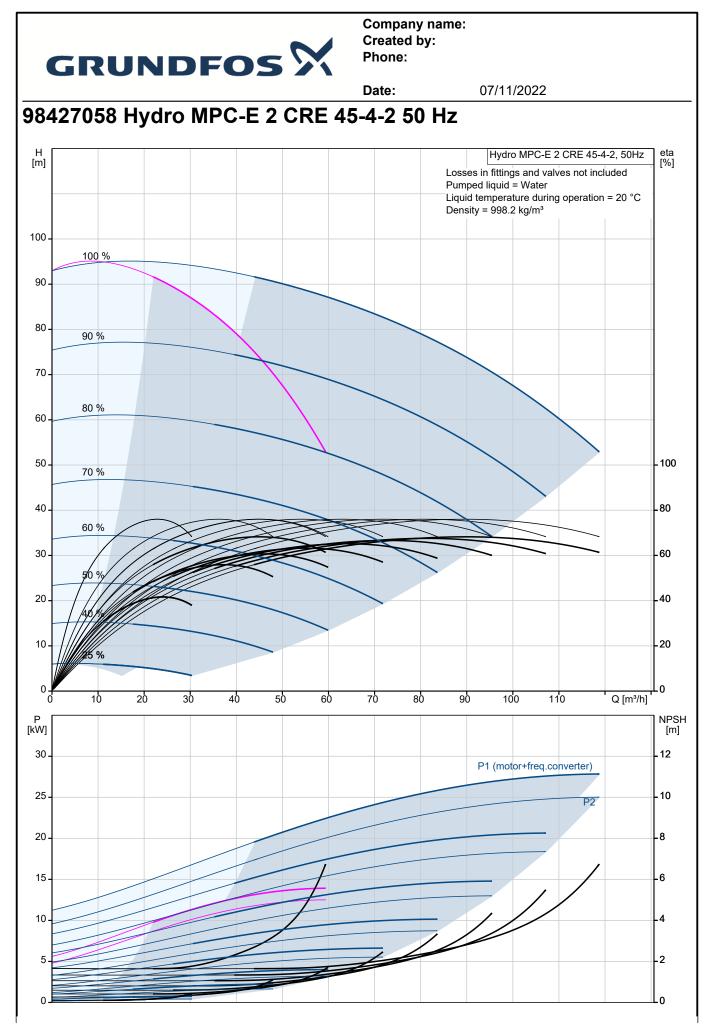


	GRUNDFOS X	Data	07/11/0000
	Description	Date:	07/11/2022
⊢	Hydro MPC-E 2 CRE 45-4-2		
	1		
	治 加加 和		
	Product No.: 98427058	ture may differ from a	actual product
	Pressure booster system supplied as compact asse	DIN standard 1988/T5.	
	All pumps are speed-controlled.		
	From 0.37 to 11 kW, the booster system is equipped	d with CR_CRE_(CRL CRIF pumps with electronically
	commutated permanent-magnet motors with extrem frequency converter applies to IE5 level in IEC6003	ely high efficienc	y. The total efficiency of the motor including t
ŀ	From 15 to 22 kW, the booster system is equipped a frequency control. The total efficiency of the motor i	ncluding the frequ	RI, CRIE pumps with motors with integrated lency converter is better than the IE3 level in
	IEC60034-31, even though this standard only applie		
	 Hydro MPC-E maintains a constant pressure The system performance is adapted to the d 		
	through parallel control of the pumps in oper * Pump changeover is automatic and depends	ation.	
	The system consists of these parts: :vertical, multistage, centrifugal pumps, type CRE 4		
	Pump parts in contact with the pumped liquid are m Pump bases and heads are of either cast iron/stainl		
	pump type; other vital parts are made of stainless si The pumps are equipped with a service-friendly car	teel EN DIN 1.430	01
	* Two stainless steel manifolds to EN DIN 1.4	571	
	 Stainless steel base frame to EN DIN 1.4301 galvanized I-Beam frame 	up to CR 90; abo	ove CR 90 the pumps are placed on a
	 * One non-return valve (POM) and two isolatir * Non-return valves are certified according to I 		
	* Adapter with isolating valve for connection of	f diaphragm tank	-
	 Pressure gauge and pressure transmitter (ar Control MPC in a steel cabinet, IP54, includi 		
	equipment and microprocessor-controlled Cl	J 352.	
	Dry-running protection and diaphragm tank are avail	lable according to	the list of accessories.
	Pump operation is controlled by Control MPC with the		
	* Intelligent multipu Constant-pressur	•	l 352. continuously variable adjustment of the spee
	each individual pu	ımp.	
			irameters (Kp + Ti). pendent of inlet pressure.
			water hammer during startup).
	On/off operation a		
			os for optimum efficiency. t/stop, automatic pump changeover and pun

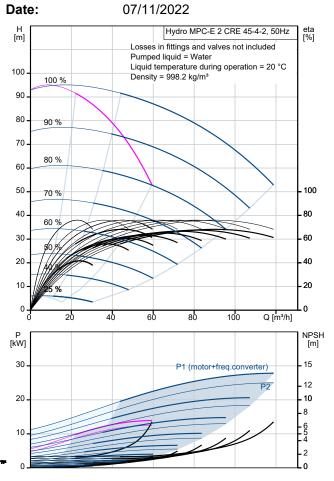


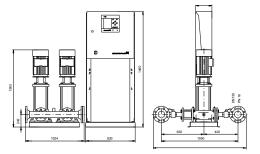
Description		Date:	07/11/2022
			vent idle pumps from seizing up.
	Possibility of stand		
			lant primary sensor).
	Secondary sensor	(Possible to swite	ch to another sensor/setpoint).
	Multi-sensor (up to	6 sensors to influ	lence the setpoint).
	Manual operation.		
	Possibility of extern	al setpoint influe	nce.
	Log function.		
	Setpoint ramp.		
	Possibility of digital	remote-control fu	unctions:
	System on/off.		
	Max., min. or user-	defined duty.	
	Up to 6 alternative		
			nfigured individually.
	Pump and system		
	Minimum and maxi		
	Inlet pressure.		Tent value.
		opitoring	
	Non-return valve m	onitoring.	
	Motor protection.		- 16
	Sensors and cables		
	Alarm log with the		ings/alarms.
	Display and indicat		
	Colour screen disp		
	Green indicator ligh	nt for operating in	dications and red indicator light for fault
	indications		
			for operation and fault.
	Grundfos bus comr	nunication.	
Pumps, piping, cabling complete The booster system has been put the booster system has been put the boosting system.	preset and tested. ne pressure	IPC are mounted	on the base frame.
Flow media:	Water		
Allowed liquid temp.:	5 °C 60 °C		
System pressure max.:	16 bar		
Flow (Plant):	140 m³/h		
Flow without one stand-by pum	•	70 m³/h	
	81.6 A		
Nom. current of plant:	22 kW		
Nominal power:			
Nominal power:	657 kg		
Nominal power:			
Nom. current of plant: Nominal power: Net weight:			
Nominal power:			

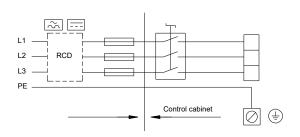


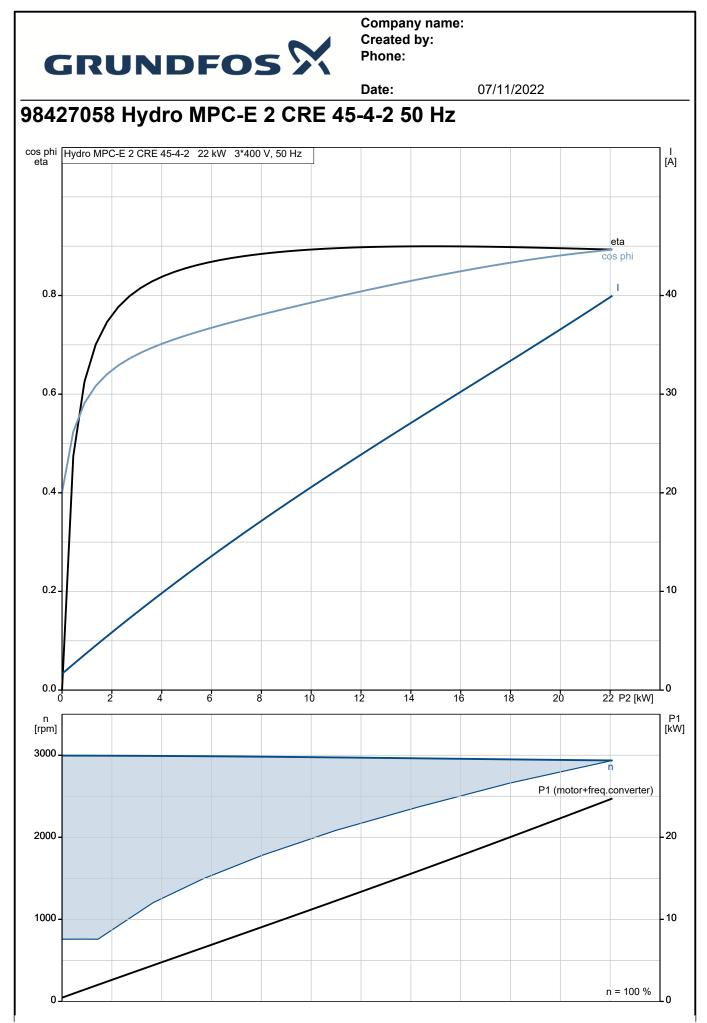


Description	Value
General information:	
Product name:	Hydro MPC-E 2 CRE 45-4-2
Product No:	98427058
EAN number:	5711494819621
Technical:	
Rated flow:	108 m³/h
Max flow:	140 m³/h
Max flow system:	70 m³/h
Rated head:	104 m
Head max:	133.1 m
Main pump name:	CRE 45-4-2
Main pump No:	96123407
Number of pumps:	2
Non-ret. valve:	at discharge side
Materials:	at alcoharge clae
Manifolds:	EN/DIN 1.4571/ AISI 316 Ti
Installation:	
Range of ambient temperature:	5 40 °C
Maximum operating pressure:	16 bar
Maximum operating pressure.	
maximum permissible miet pressure.	8.5 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:	560 °C
Selected liquid temperature:	20 °C
Density:	998.2 kg/m³
Electrical data:	<u> </u>
Power (P2) main pump:	22 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-415 V
Rated current of system:	81.6 A
Start. method:	electronically
Enclosure class (IEC 34-5):	IP54
	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:	
Volume of pressure tank:	12 I
Diaphragm tank:	Yes
Others:	
Basis plant:	Y
Net weight:	657 kg
Gross weight:	676 kg
Sales region:	Great Britain
Config. file no:	98272447
Config.file Control MPC:	98271946
	98272020
Config.file Hydro MPC:	30212020





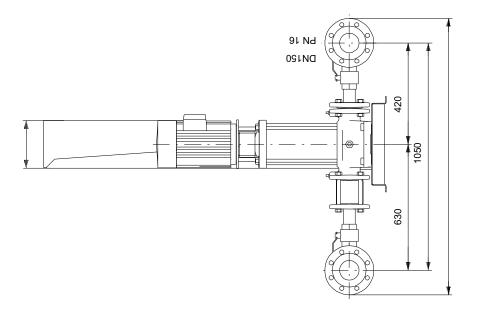


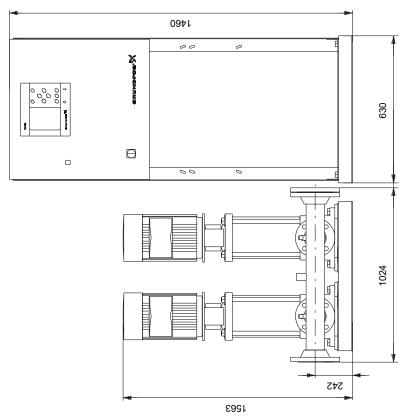




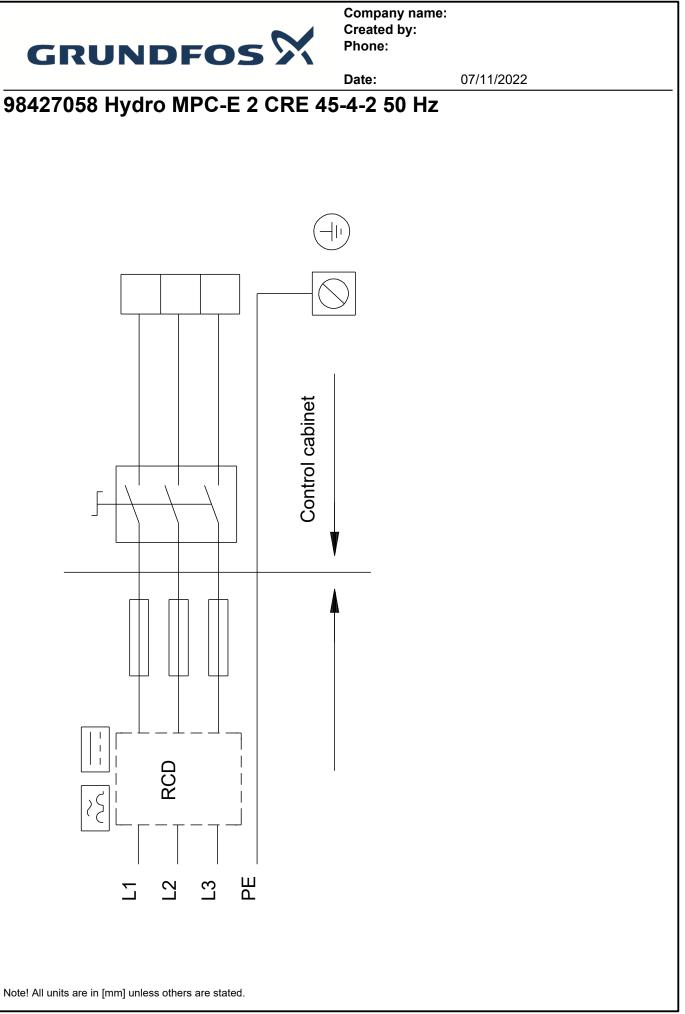
07/11/2022

98427058 Hydro MPC-E 2 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:

Date: 07/11/2022 **Order Data: Product name Product No** Total Amount Hydro MPC-E 2 CRE 45-4-2 1 98427058 Price on request

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 ndfos Product Centr	10 0 0 0 / T 0 0 0 1		8/8