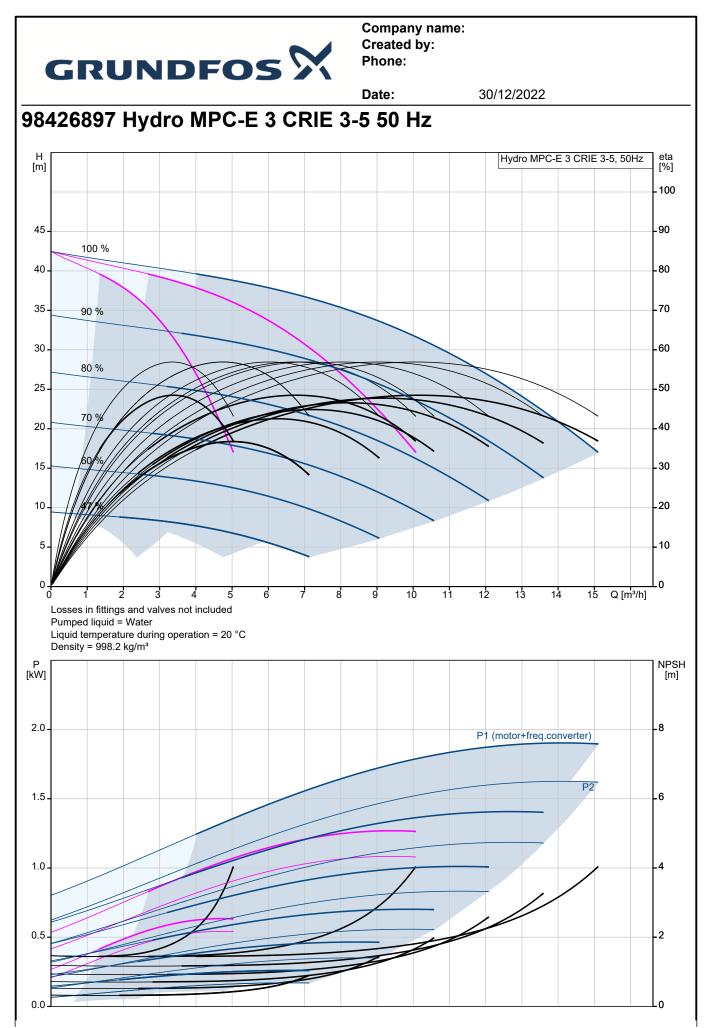


C	GRUNDFOS 2							
		Date:	30/12/2022					
-	Description							
	Hydro MPC-E 3 CRIE 3-5							
	N							
	Notel Brod	uat niatura may diffar from as	tual product					
	Note! Product picture may differ from actual product Product No.: 98426897							
	Pressure booster system supplied as compact	assembly according to	DIN standard 1988/15.					
	All pumps are speed-controlled.							
	From 0.37 to 11 kW, the booster system is equ	uipped with CR, CRE, C	RI, CRIE pumps with electronically					
	commutated permanent-magnet motors with e frequency converter applies to IE5 level in IEC	xtremely high efficiency.	The total efficiency of the motor including the					
		00004-01.						
	From 15 to 22 kW, the booster system is equip	oped with CR, CRE, CRI	, CRIE pumps with motors with integrated					
	frequency control. The total efficiency of the m IEC60034-31, even though this standard only	applies to the motor.	ency converter is better than the IE3 level in					
			is adjustment of the speed of the pumps. ting in/out the required number of pumps and					
	through parallel control of the pumps in							
	<ul> <li>Pump changeover is automatic and dep</li> </ul>	pends on load, time and	fault.					
	The system consists of these parts:							
	vertical, multistage, centrifugal pumps, type C Pump parts in contact with the pumped liquid a							
	Pump bases and heads are of either cast iron/	stainless steel (CRI) or o	cast iron EN-GJS-500-7 (CR), depending on					
	pump type; other vital parts are made of stain							
	The pumps are equipped with a service-friend * Two stainless steel manifolds to EN DI		QQE (SIC/SIC/EPDM)					
	* Stainless steel base frame to EN DIN 1	.4301 up to CR 90; abov	ve CR 90 the pumps are placed on a					
	galvanized I-Beam frame * One non-return valve (POM) and two is	solating valves for each r	amp					
	* Non-return valves are certified accordir	ng to DVGW, isolating va	•					
	<ul> <li>* Adapter with isolating valve for connect</li> <li>* Pressure gauge and pressure transmitt</li> </ul>		24)					
			required fuses, motor protection, switching					
	equipment and microprocessor-controll	led CU 352.						
	Dry-running protection and diaphragm tank are	e available according to	the list of accessories.					
		· ·						
	Pump operation is controlled by Control MPC	with the following function iultipump controller, CU 3						
	Constant-pr	essure control through c	ontinuously variable adjustment of the speed o					
	each individ							
		er with adjustable PI par- essure at setpoint, indep	ameters (Kp + TI). endent of inlet pressure.					
	Soft pressur	e build-up (To prevent w	vater hammer during startup).					
	•	ation at low flow.						
		ascade control of pumps min_time between start	s for optimum efficiency. /stop, automatic pump changeover and pump					

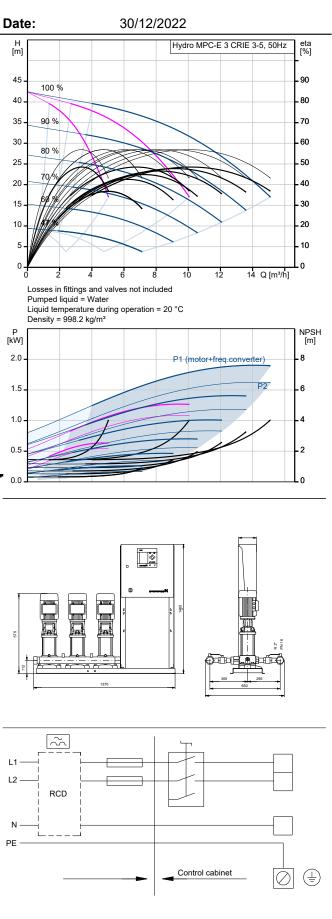


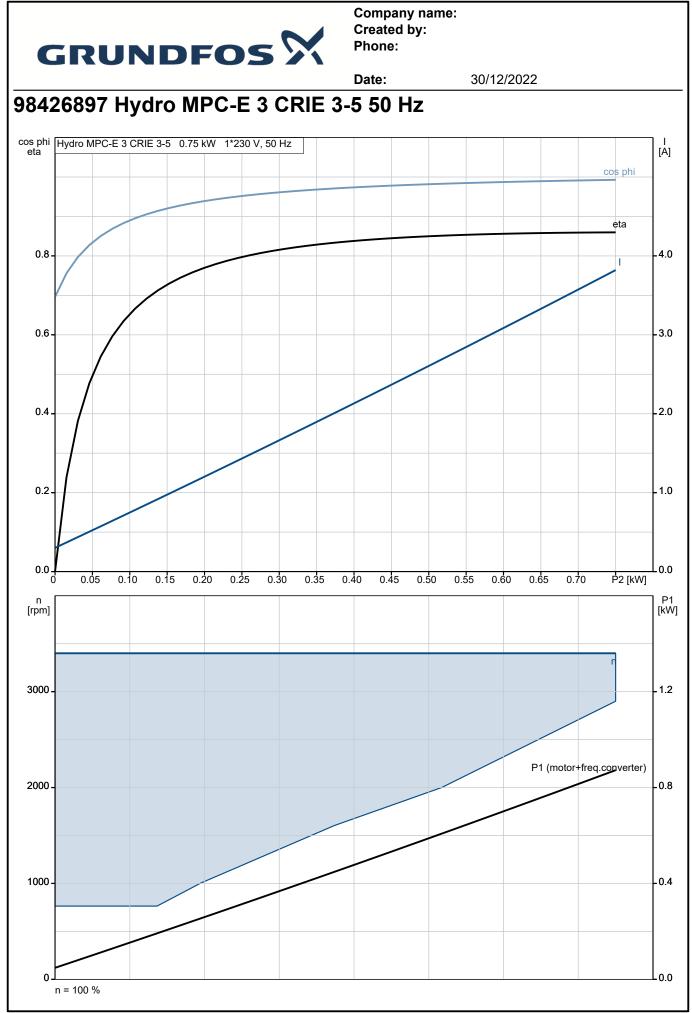
		Date: 30/12/2022					
Qty.	Description						
1		Automatic pump test function to prevent idle pumps from seizing up.					
		Possibility of standby pump allocation.					
		Possibility of backup sensor (redundant primary sensor). Secondary sensor (Possible to switch to another sensor/setpoint).					
		Multi-sensor (up to 6 sensors to influence the setpoint).					
		Manual operation.					
		Possibility of external setpoint influence.					
		Log function.					
		Setpoint ramp.					
		Possibility of digital remote-control functions:					
		System on/off.					
		Max., min. or user-defined duty. Up to 6 alternative setpoints.					
		Digital inputs and outputs can be configured individually.					
		Pump and system monitoring functions:					
		Minimum and maximum limits of current value.					
		Inlet pressure.					
		Non-return valve monitoring.					
		Motor protection.					
		Sensors and cables monitored for malfunction.					
		Alarm log with the previous 24 warnings/alarms.					
		Display and indication functions:					
		Colour screen display. Green indicator light for operating indications and red indicator light for fault					
		indications					
		Potential-free changeover contacts for operation and fault.					
		Grundfos bus communication.					
	It is possible to add CIM communication modules for communicating with Scada/BMS. Pumps, piping, cabling complete as well as Control MPC are mounted on the base frame. The booster system has been preset and tested.						
	There are options to upgrade the	pressure					
	boosting system. Flow media:	Water					
	Allowed liquid temp.:	5 °C 60 °C					
	System pressure max.:	16 bar					
	Flow (Plant):	16.2 m³/h					
	Flow without one stand-by pump						
	Nom. current of plant:	9.3 A					
	Nominal power:	0.75 kW					
	Net weight:	125 kg					



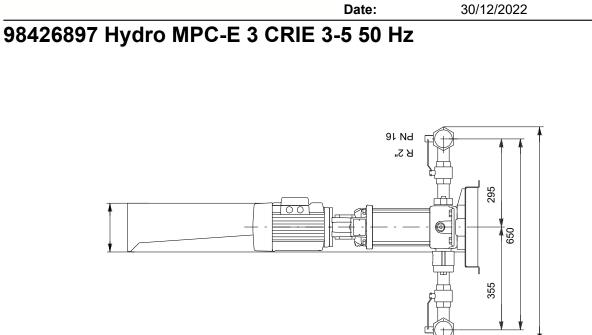


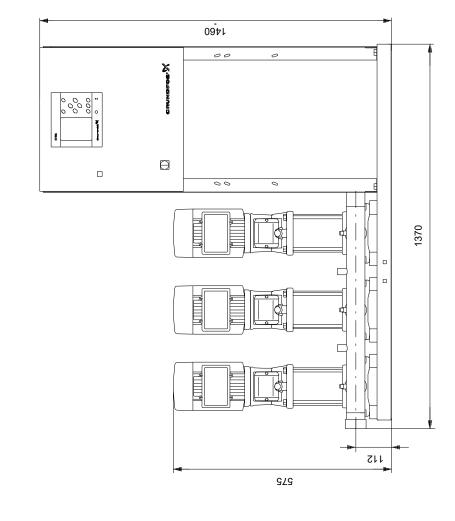
Description	Value
General information:	
roduct name:	Hydro MPC-E 3 CRIE 3-5
Product No:	98426897
AN number:	5711494818013
echnical:	
ated flow:	10.5 m³/h
ax flow:	16.2 m³/h
lax flow system:	11 m <sup>3</sup> /h
ated head:	34 m
ead max:	46.8 m
lain pump name:	CRIE 3-5
lain pump No:	98389728
umber of pumps:	3
lon-ret. valve:	
	at discharge side
laterials:	
lanifolds:	EN/DIN 1.4571/ AISI 316 Ti
stallation:	F 40 %O
ange of ambient temperature:	540 °C
aximum operating pressure:	16 bar
aximum permissible inlet pressure:	14.3 bar
anifold inlet:	R 2"
anifold outlet:	R 2"
essure rating:	PN 16
arth connection:	N, PE
/stem design:	A
quid:	
Imped liquid:	Water
quid temperature range:	5 60 °C
elected liquid temperature:	20 °C
ensity:	998.2 kg/m³
ectrical data:	5
ower (P2) main pump:	0.75 kW
ains frequency:	50 Hz
ated voltage:	1 x 200-240 V
ated current of system:	9.3 A
tart. method:	electronically
nclosure class (IEC 34-5):	IP54
adio interference supression:	EMC DIRECTIVE(2014/30/EU)
umber of phases of main pump:	1
ontrols:	
ontrol type:	E
ry running protection, mechanical:	PRESSURE SENSOR 0-4 BAR
ank:	401
blume of pressure tank:	121
aphragm tank:	Yes
thers:	
asis plant:	Y
et weight:	125 kg
ross weight:	144 kg
ales region:	Great Britain
onfig. file no:	98272356
onfig.file Control MPC:	98271947
onfig.file Hydro MPC:	98272015



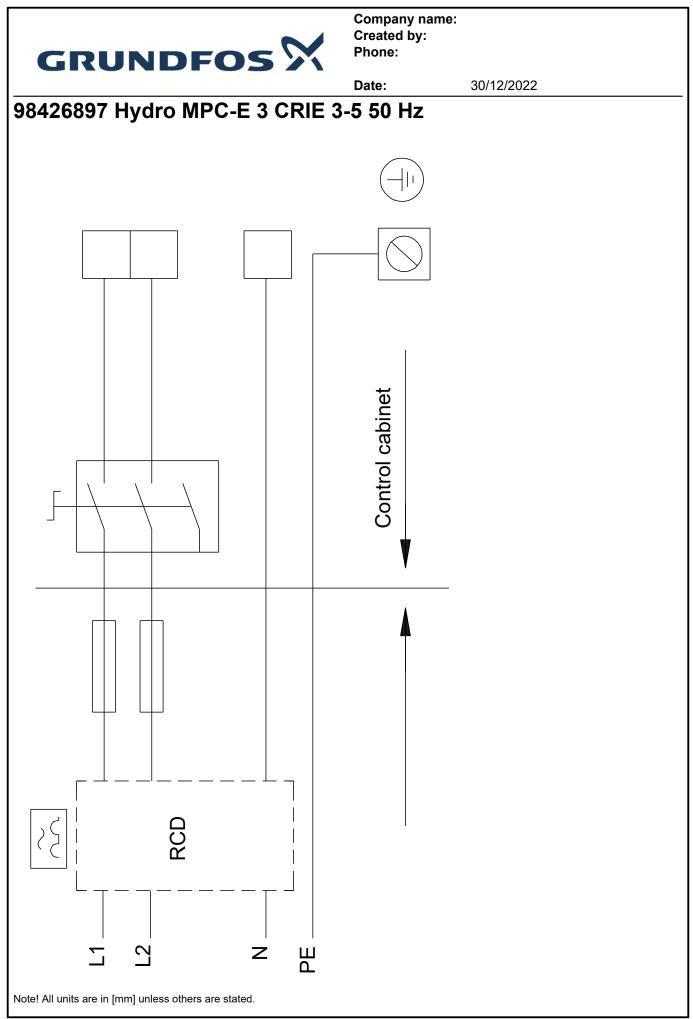








Note! All units are in [mm] unless others are stated. Disclaimer: This simplified dimensional drawing does not show all details.





Date: 30/12/2022 **Order Data:** Position | Your pos. | **Product name** Amount | Product No | Total

	Hydro MPC-E 3 CRIE 3-5	1	98426897	Price on request
				104000