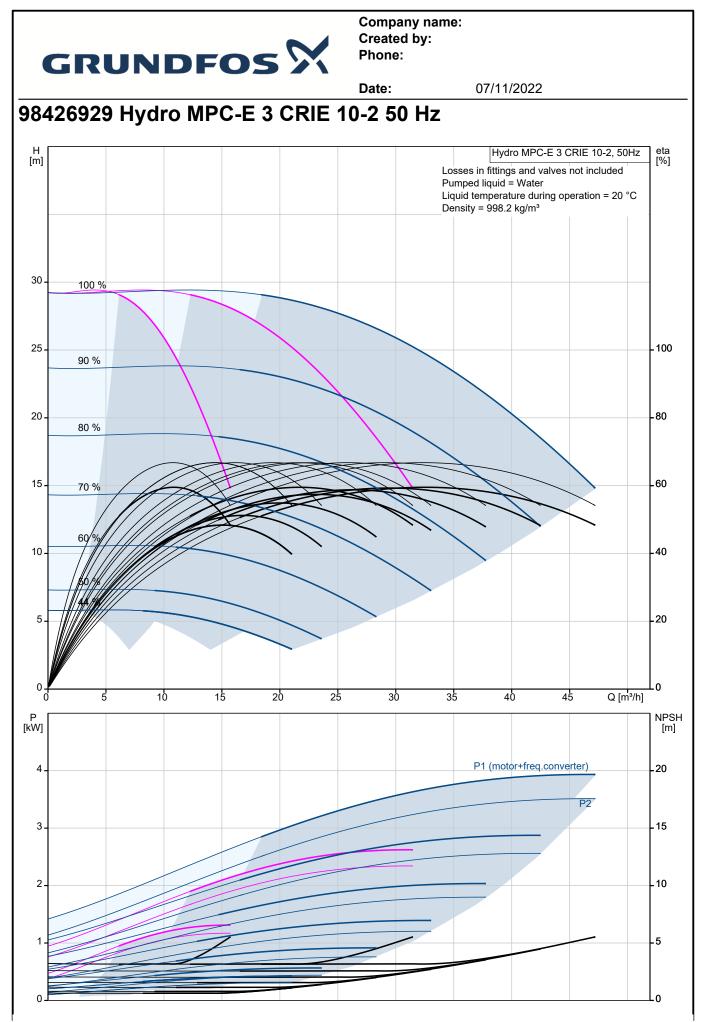


		Date:	07/11/2022				
D	escription						
H	ydro MPC-E 3 CRIE 10-2						
P	Note! Product picture may differ from actual product oduct No.: 98426929						
Pressure booster system supplied as compact assembly according to DIN standard 1988/T5.							
A	ll pumps are speed-controlled.						
	rom 0.37 to 11 kW, the booster system is equip		PL CRIE numps with electronically				
C	ommutated permanent-magnet motors with ext	remely high efficiency	. The total efficiency of the motor including t				
fr	equency converter applies to IE5 level in IEC6	JU34-31.					
F	rom 15 to 22 kW, the booster system is equipp	ed with CR, CRE, CR	I, CRIE pumps with motors with integrated				
fro	equency control. The total efficiency of the mot EC60034-31, even though this standard only an	or including the freque oplies to the motor.	ency converter is better than the IE3 level in				
		•					
			us adjustment of the speed of the pumps. tting in/out the required number of pumps ar				
	through parallel control of the pumps in o	peration.	tung involt the required number of pumps ar				
	* Pump changeover is automatic and depe	nds on load, time and	l fault.				
Т	he system consists of these parts:						
	vertical, multistage, centrifugal pumps, type CR						
P	ump parts in contact with the pumped liquid and ump bases and heads are of either cast iron/st	ainless steel (CRI) or	cast iron EN-GJS-500-7 (CR), depending or				
1.	ump type; other vital parts are made of stainles						
	he pumps are equipped with a service-friendly * Two stainless steel manifolds to EN DIN		IQQE (SIC/SIC/EPDM)				
	* Stainless steel base frame to EN DIN 1.4 galvanized I-Beam frame	301 up to CR 90; abo	ve CR 90 the pumps are placed on a				
	* One non-return valve (POM) and two iso	ating valves for each	pump				
	* Non-return valves are certified according		alves according to DIN and DVGW				
	<ul> <li>* Adapter with isolating valve for connectio</li> <li>* Pressure gauge and pressure transmitter</li> </ul>		mA)				
	* Control MPC in a steel cabinet, IP54, inc	uding main switch, all	required fuses, motor protection, switching				
	equipment and microprocessor-controlled	1 CU 352.					
D	ry-running protection and diaphragm tank are a	available according to	the list of accessories.				
P	ump operation is controlled by Control MPC wi	th the following function	ons:				
*	Intelligent mul	tipump controller, CU	352.				
	Constant-pres each individua		continuously variable adjustment of the spee				
	PID controller	with adjustable PI par					
	•	• • •	pendent of inlet pressure. water hammer during startup).				
	•	on at low flow.	water nammer utility startup).				
	Automatic cas	cade control of pump	s for optimum efficiency.				
1	Selection of m	iin. time between starl	t/stop, automatic pump changeover and pum				

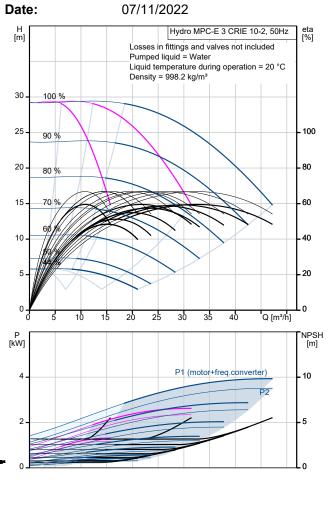


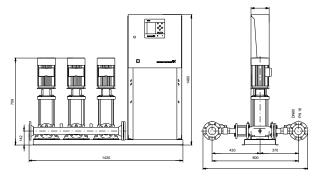
Description			
			ent idle pumps from seizing up.
	Possibility of stand		
			ant primary sensor).
	Secondary sensor	(Possible to switc	h to another sensor/setpoint).
	Multi-sensor (up to	6 sensors to influ	ence the setpoint).
	Manual operation.		
	Possibility of extern	nal setpoint influe	nce.
	Log function.	·	
	Setpoint ramp.		
	Possibility of digita	l remote-control fi	inctions.
	System on/off.		
	Max., min. or user-	defined duty	
	Up to 6 alternative		
			nfigured individually.
	Pump and system		
	Minimum and max	imum limits of cur	rent value.
	Inlet pressure.	., .	
	Non-return valve n	nonitoring.	
	Motor protection.		
	Sensors and cable		
	Alarm log with the		ngs/alarms.
	Display and indica	tion functions:	
	Colour screen disp	lay.	
	Green indicator lig	ht for operating in	dications and red indicator light for fault
	indications		
	Potential-free char	geover contacts f	or operation and fault.
	Grundfos bus com	munication.	
It is possible to add CIM con	munication modules for	communicating w	ith Scada/BMS
It is possible to add CIM con Pumps, piping, cabling comp The booster system has bee	blete as well as Control N	-	
Pumps, piping, cabling comp The booster system has bee There are options to upgrade	blete as well as Control M n preset and tested.	-	
Pumps, piping, cabling comp The booster system has bee There are options to upgrade boosting system.	plete as well as Control M n preset and tested. e the pressure	-	
Pumps, piping, cabling comp The booster system has bee There are options to upgrade boosting system. Flow media:	olete as well as Control M n preset and tested. e the pressure Water	-	
Pumps, piping, cabling comp The booster system has bee There are options to upgrade boosting system. Flow media: Allowed liquid temp.:	blete as well as Control M n preset and tested. e the pressure Water 5 °C 60 °C	-	
Pumps, piping, cabling comp The booster system has bee There are options to upgrade boosting system. Flow media: Allowed liquid temp.: System pressure max.:	blete as well as Control M n preset and tested. e the pressure Water 5 °C 60 °C 16 bar	-	
Pumps, piping, cabling comp The booster system has bee There are options to upgrade boosting system. Flow media: Allowed liquid temp.: System pressure max.: Flow (Plant):	blete as well as Control M n preset and tested. e the pressure Water 5 °C 60 °C 16 bar 47.1 m³/h	IPC are mounted	
Pumps, piping, cabling comp The booster system has bee There are options to upgrade boosting system. Flow media: Allowed liquid temp.: System pressure max.: Flow (Plant): Flow without one stand-by p	olete as well as Control M n preset and tested. e the pressure Water 5 °C 60 °C 16 bar 47.1 m³/h ump acc. DIN 1988/T5:	-	
Pumps, piping, cabling comp The booster system has bee Development of the poster system has bee boosting system. Flow media: Allowed liquid temp.: System pressure max.: Flow (Plant): Flow without one stand-by p Nom. current of plant:	olete as well as Control M n preset and tested. e the pressure Water 5 °C 60 °C 16 bar 47.1 m³/h ump acc. DIN 1988/T5: 9 A	IPC are mounted	
Pumps, piping, cabling comp The booster system has bee boosting system. Flow media: Allowed liquid temp.: System pressure max.: Flow (Plant): Flow without one stand-by p Nom. current of plant: Nominal power:	olete as well as Control M n preset and tested. e the pressure Water 5 °C 60 °C 16 bar 47.1 m³/h ump acc. DIN 1988/T5: 9 A 1.5 kW	IPC are mounted	
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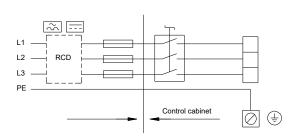


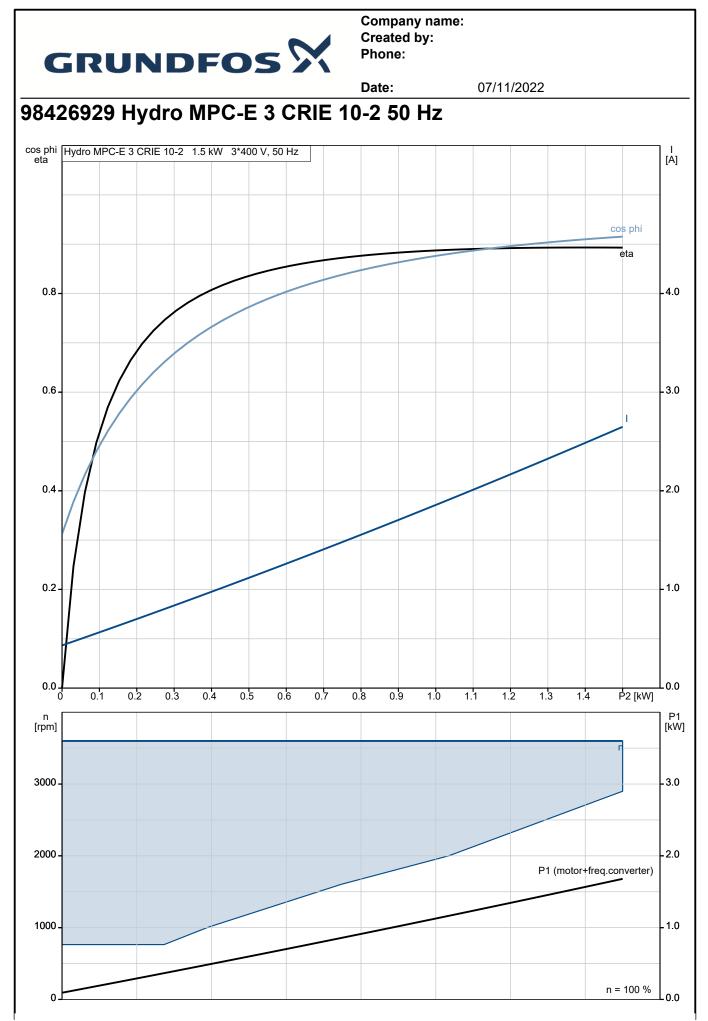


Description	Value
General information:	
Product name:	Hydro MPC-E 3 CRIE 10-2
Product No <sup>-</sup>	98426929
EAN number:	5711494818334
Technical:	0111404010004
Rated flow:	36.3 m³/h
Max flow:	47.1 m <sup>3</sup> /h
Max flow system:	36 m <sup>3</sup> /h
Rated head:	22.9 m
Head max:	22.9 m
	29.4 m CRIE 10-2
Main pump name:	
Main pump No:	98390284
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
Maximum permissible inlet pressure:	14.5 bar
Manifold inlet:	DN80
Manifold outlet:	DN80
Pressure rating:	PN 16
Earth connection:	N, PE
System design:	A
Liquid:	
Pumped liquid:	Water
Liquid temperature range:	560 °C
Selected liquid temperature:	20 °C
Density:	998.2 kg/m <sup>3</sup>
Electrical data:	
Power (P2) main pump:	1.5 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-415 V
Rated current of system:	9 A
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
Diaphragm tank:	Yes
Others:	
Basis plant:	Y
Net weight:	204 kg
Gross weight:	224 kg
-	Great Britain
Sales region:	
Sales region: Config file no:	98272389
Sales region: Config. file no: Config.file Control MPC:	98272389 98271947







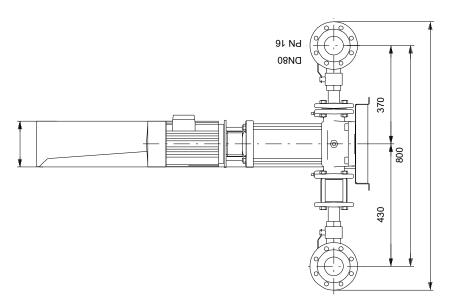


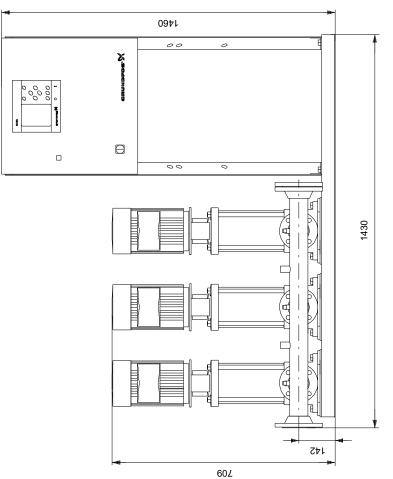


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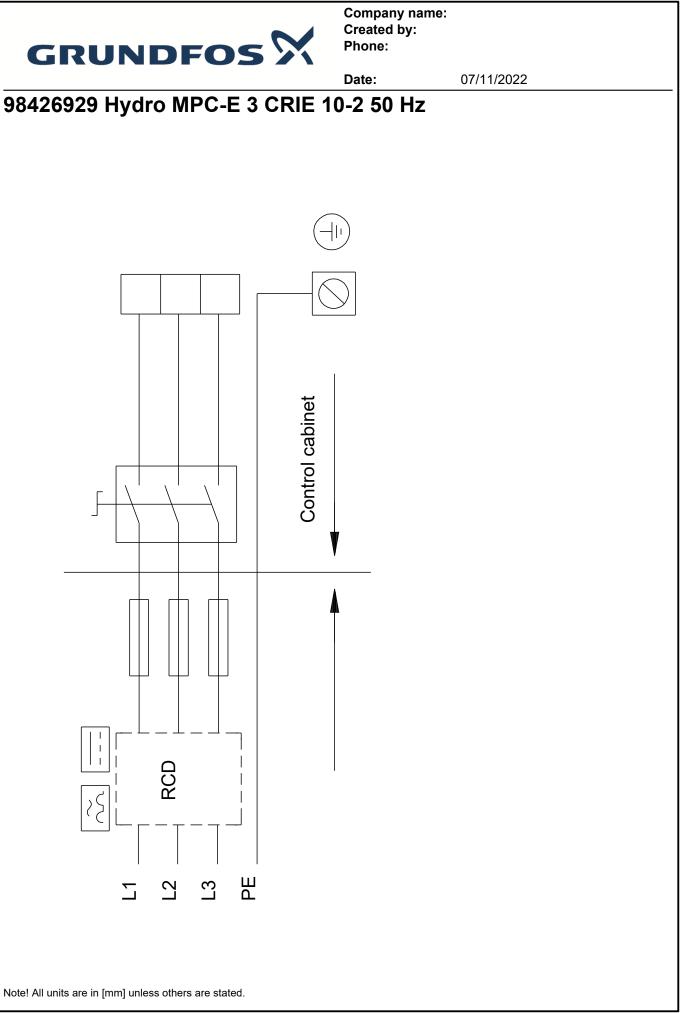
07/11/2022

## 98426929 Hydro MPC-E 3 CRIE 10-2 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 Product No** Total Amount Hydro MPC-E 3 CRIE 10-2 1 98426929 Price on request

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