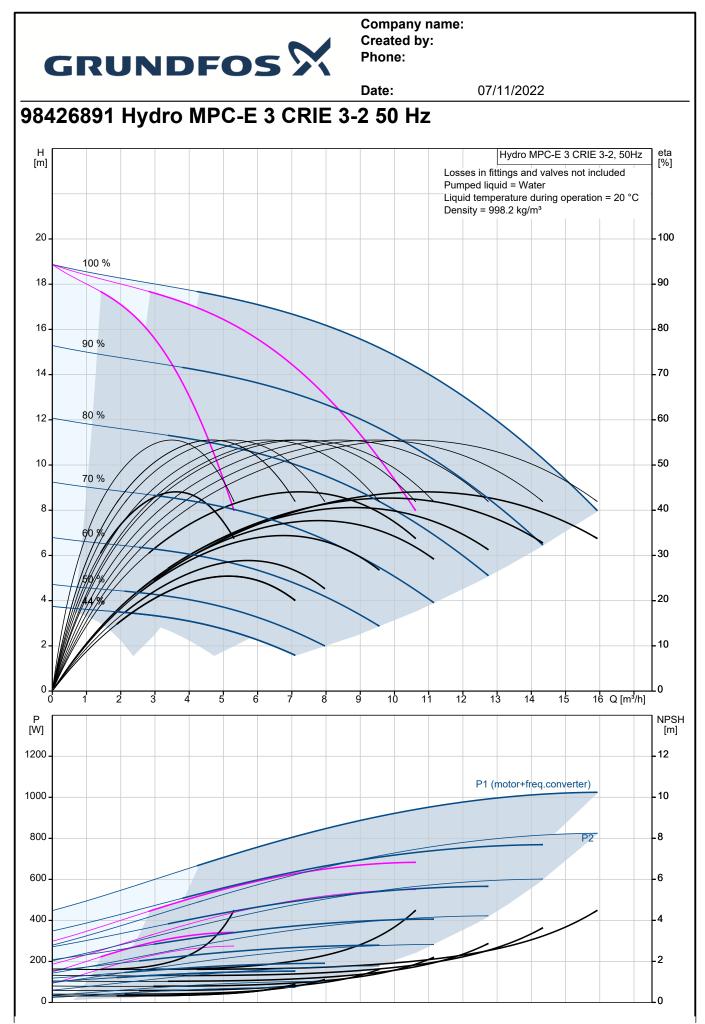


	GRUNDFOS 21	Date:	07/11/2022	
	Description			
	Hydro MPC-E 3 CRIE 3-2			
	Note! Product picture ma	y differ from	actual product	
Product No.: 98426891				
	Pressure booster system supplied as compact assembly	according to	DIN standard 1988/T5.	
	All pumps are speed-controlled.			
	From 0.37 to 11 kW, the booster system is equipped with commutated permanent-magnet motors with extremely hi frequency converter applies to IE5 level in IEC60034-31.	CR, CRE, ( gh efficienc	CRI, CRIE pumps with electronically y. The total efficiency of the motor including the	
	From 15 to 22 kW, the booster system is equipped with C frequency control. The total efficiency of the motor includi IEC60034-31, even though this standard only applies to t	ng the frequ	RI, CRIE pumps with motors with integrated uency converter is better than the IE3 level in	
	<ul> <li>Hydro MPC-E maintains a constant pressure throut</li> <li>The system performance is adapted to the demands</li> <li>through parallel control of the pumps in operation.</li> </ul>			
	* Pump changeover is automatic and depends on lo	ad, time an	d fault.	
	The system consists of these parts:			
	:vertical, multistage, centrifugal pumps, type CRIE 3-2 Pump parts in contact with the pumped liquid are made o Pump bases and heads are of either cast iron/stainless st pump type; other vital parts are made of stainless steel E	eel (CRI) o	r cast iron EN-GJS-500-7 (CR), depending on	
	The pumps are equipped with a service-friendly cartridge * Two stainless steel manifolds to EN DIN 1.4571			
	<ul> <li>Stainless steel base frame to EN DIN 1.4301 up to galvanized I-Beam frame</li> </ul>	CR 90; ab	ove CR 90 the pumps are placed on a	
	<ul> <li>* One non-return valve (POM) and two isolating valves</li> <li>* Non-return valves are certified according to DVGV</li> </ul>			
	* Adapter with isolating valve for connection of diapl	nragm tank	-	
	<ul> <li>Pressure gauge and pressure transmitter (analog</li> <li>Control MPC in a steel cabinet, IP54, including ma equipment and microprocessor-controlled CU 352</li> </ul>	in switch, a		
	Dry-running protection and diaphragm tank are available	according to	o the list of accessories.	
	Pump operation is controlled by Control MPC with the foll * Intelligent multipump control constant-pressure control each individual pump.	ontroller, CL		
	PID controller with adju	stable PI pa	arameters (Kp + Ti).	
	Soft pressure build-up	To prevent	ependent of inlet pressure. water hammer during startup).	
	On/off operation at low Automatic cascade con		os for optimum efficiency.	
			rt/stop, automatic pump changeover and pump	

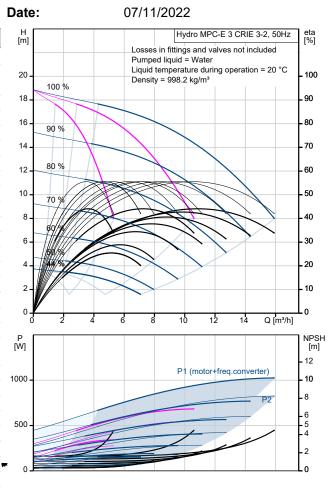


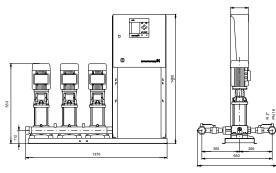
Description			
			vent idle pumps from seizing up.
	Possibility of stand		
	Possibility of backu	p sensor (redund	lant primary sensor).
			h to another sensor/setpoint).
	Multi-sensor (up to	6 sensors to influ	ence the setpoint).
	Manual operation.		
	Possibility of extern	al setpoint influe	nce.
	Log function.		
	Setpoint ramp.		
	Possibility of digital	remote-control fu	unctions:
	System on/off.		
	Max., min. or user-	defined duty.	
	Up to 6 alternative	setpoints.	
	Digital inputs and o	utputs can be co	nfigured individually.
	Pump and system	monitoring function	ons:
	Minimum and maxi		
	Inlet pressure.		
	Non-return valve m	onitoring.	
	Motor protection.	U	
	Sensors and cables	s monitored for m	alfunction.
	Alarm log with the		
	Display and indicat		5
	Colour screen disp		
			dications and red indicator light for fault
	indications	1 5	5
	Potential-free chan	geover contacts f	or operation and fault.
	Grundfos bus comr		I
It is possible to add CIM com			/ith Scada/BMS.
Pumps, piping, cabling comp	munication modules for lete as well as Control N	communicating w	
Pumps, piping, cabling comp The booster system has beer	munication modules for lete as well as Control M n preset and tested.	communicating w	
Pumps, piping, cabling comp The booster system has beer There are options to upgrade	munication modules for lete as well as Control M n preset and tested.	communicating w	
Pumps, piping, cabling comp The booster system has beer There are options to upgrade boosting system.	munication modules for lete as well as Control M n preset and tested.	communicating w	
Pumps, piping, cabling comp The booster system has beer There are options to upgrade boosting system. Flow media:	munication modules for lete as well as Control M n preset and tested. the pressure Water	communicating w	
Pumps, piping, cabling comp The booster system has been There are options to upgrade boosting system. Flow media: Allowed liquid temp.:	munication modules for lete as well as Control M n preset and tested. the pressure Water 5 °C 60 °C	communicating w	
Pumps, piping, cabling comp The booster system has been There are options to upgrade boosting system. Flow media: Allowed liquid temp.: System pressure max.:	munication modules for lete as well as Control M n preset and tested. the pressure Water 5 °C 60 °C 16 bar	communicating w	
Pumps, piping, cabling comp The booster system has been There are options to upgrade boosting system. Flow media: Allowed liquid temp.: System pressure max.: Flow (Plant):	munication modules for lete as well as Control M n preset and tested. the pressure Water 5 °C 60 °C 16 bar 16.2 m³/h	communicating w	
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Pumps, piping, cabling comp The booster system has been There are options to upgrade boosting system. Flow media: Allowed liquid temp.: System pressure max.: Flow (Plant): Flow without one stand-by pu Nom. current of plant:	munication modules for lete as well as Control M n preset and tested. the pressure Water 5 °C 60 °C 16 bar 16.2 m³/h imp acc. DIN 1988/T5: 6 A	communicating w	
Pumps, piping, cabling comp The booster system has been There are options to upgrade boosting system. Flow media: Allowed liquid temp.: System pressure max.: Flow (Plant): Flow without one stand-by pu Nom. current of plant: Nominal power:	munication modules for lete as well as Control M n preset and tested. the pressure Water 5 °C 60 °C 16 bar 16.2 m³/h Imp acc. DIN 1988/T5: 6 A 0.37 kW	communicating w	
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It is possible to add CIM com Pumps, piping, cabling comp The booster system has been There are options to upgrade boosting system. Flow media: Allowed liquid temp.: System pressure max.: Flow (Plant): Flow without one stand-by pu Nom. current of plant: Nominal power: Net weight:	munication modules for lete as well as Control M n preset and tested. the pressure Water 5 °C 60 °C 16 bar 16.2 m³/h Imp acc. DIN 1988/T5: 6 A 0.37 kW	communicating w	
Pumps, piping, cabling comp The booster system has been There are options to upgrade boosting system. Flow media: Allowed liquid temp.: System pressure max.: Flow (Plant): Flow without one stand-by pu Nom. current of plant: Nominal power:	munication modules for lete as well as Control M n preset and tested. the pressure Water 5 °C 60 °C 16 bar 16.2 m³/h Imp acc. DIN 1988/T5: 6 A 0.37 kW	communicating w	
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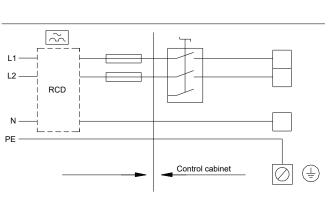




Description	Value
General information:	
Product name:	Hydro MPC-E 3 CRIE 3-2
Product No:	98426891
EAN number:	5711494817955
Technical:	
Rated flow:	10.5 m³/h
Max flow:	16.2 m³/h
Max flow system:	11 m³/h
Rated head:	13.5 m
Head max:	18.9 m
Main pump name:	CRIE 3-2
Main pump No:	98389726
Number of pumps:	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:	15 3 bar
	10.0 541
Manifold inlet:	R 2"
Manifold outlet:	R 2"
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/m³
Electrical data:	5
Power (P2) main pump:	0.37 kW
Mains frequency:	50 Hz
Rated voltage:	1 x 200-240 V
Rated current of system:	6 A
Start. method:	electronically
Enclosure class (IEC 34-5):	IP54
Radio interference supression:	EMC DIRECTIVE(2014/30/EU)
Number of phases of main pump:	1
Controls:	·
Control type:	E
Dry running protection, mechanical:	– PRESSURE SENSOR 0-4 BAR
Tank:	
Volume of pressure tank:	121
Diaphragm tank:	Yes
Others:	
Basis plant:	Y
Net weight:	117 kg
Gross weight:	136 kg
	One of Dultain







Great Britain

98272353

98271947

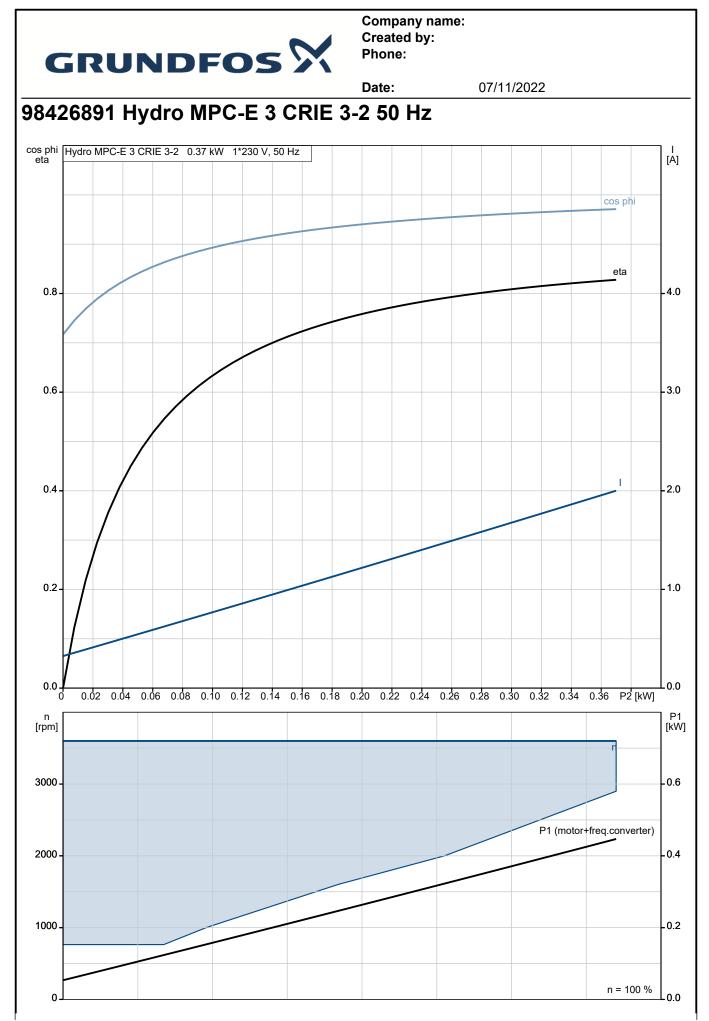
98272014

Sales region:

Config. file no:

Config.file Control MPC:

Config.file Hydro MPC:

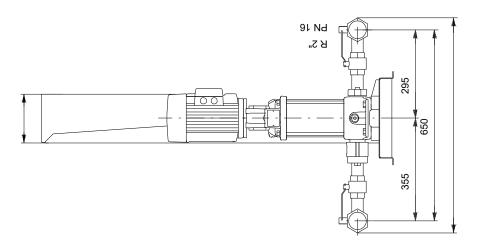


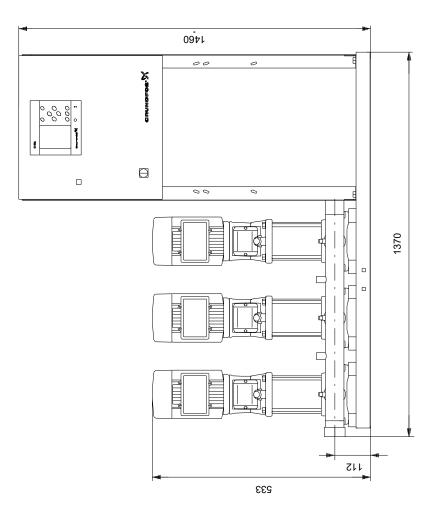


Date:

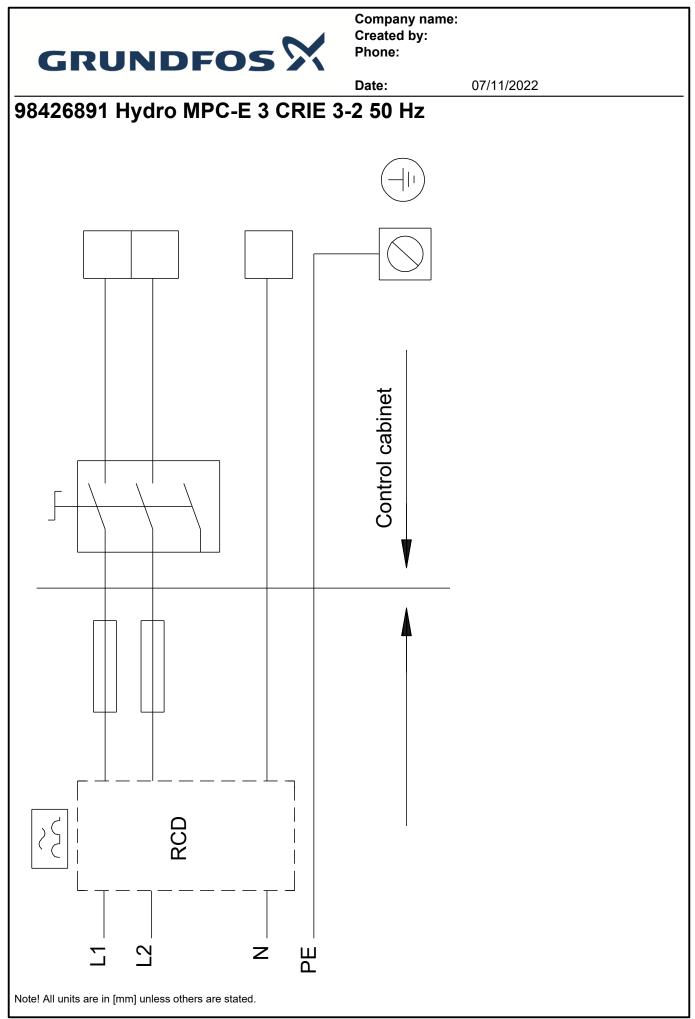
07/11/2022

## 98426891 Hydro MPC-E 3 CRIE 3-2 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 No
 Total

 Hydro MPC-E 3 CRIE 3-2
 1
 98426891
 Price on request