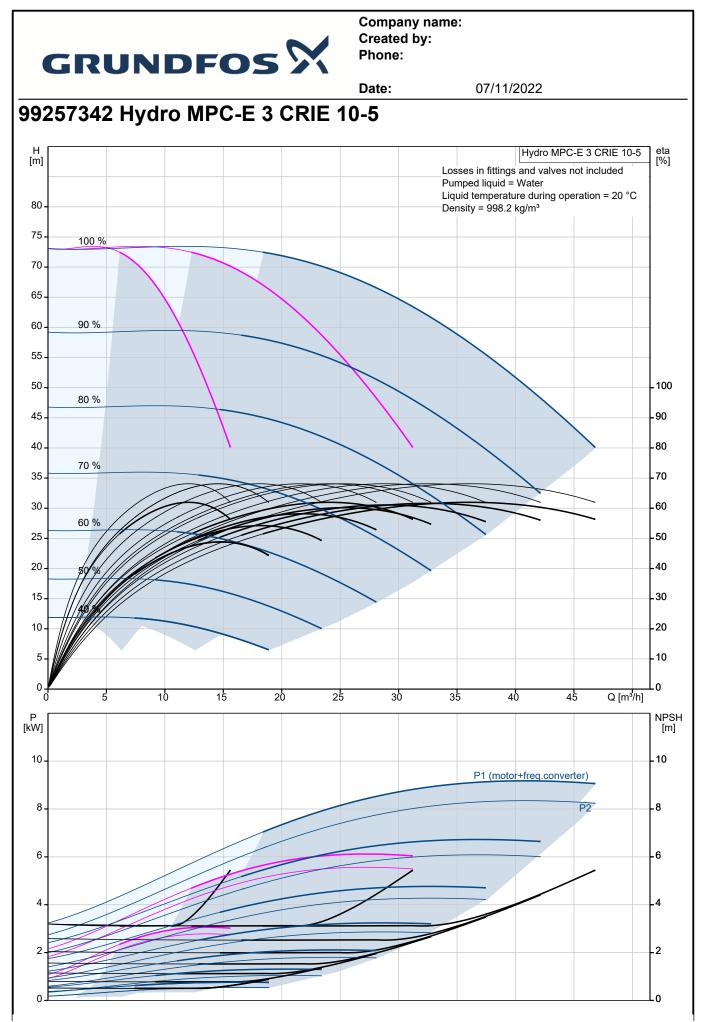


		Date:	07/11/2022
	Description		
	Hydro MPC-E 3 CRIE 10-5		
	0-0-0		
	Notel Broduct pi	oturo mou diffor from a	actual product
	Product No.: 99257342	cture may differ from a	
	Pressure booster system supplied as compact ass	embly according to	DIN standard 1988/15.
4	All pumps are speed-controlled.		
	From 0.37 to 11 kW, the booster system is equippe		
	commutated permanent-magnet motors with extrer frequency converter applies to IE5 level in IEC6003	nely high efficiency 34-31.	y. The total efficiency of the motor including t
	From 15 to 22 kW, the booster system is equipped frequency control. The total efficiency of the motor	with CR, CRE, CR	RI, CRIE pumps with motors with integrated
	IEC60034-31, even though this standard only appli	es to the motor.	
	* Hydro MPC-E maintains a constant pressur	e through continuo	us adjustment of the speed of the numps
	* The system performance is adapted to the o	demand through cu	itting in/out the required number of pumps ar
	<ul> <li>through parallel control of the pumps in ope</li> <li>* Pump changeover is automatic and depend</li> </ul>		1 fault
	The system consists of these parts: :vertical, multistage, centrifugal pumps, type CRIE	10-5	
	Pump parts in contact with the pumped liquid are n	nade of stainless s	
	Pump bases and heads are of either cast iron/stair pump type; other vital parts are made of stainless s	iless steel (CRI) or steel EN DIN 1.430	cast iron EN-GJS-500-7 (CR), depending or
	The pumps are equipped with a service-friendly ca	rtridge shaft seal, I	
	<ul> <li>* Two stainless steel manifolds to EN DIN 1.4</li> <li>* Stainless steel base frame to EN DIN 1.430</li> </ul>		$\alpha \in CR$ 90 the number are placed on a
	galvanized I-Beam frame		
	<ul> <li>One non-return valve (POM) and two isolati</li> <li>Non-return valves are certified according to</li> </ul>		
	* Adapter with isolating valve for connection of	of diaphragm tank	C
	<ul> <li>Pressure gauge and pressure transmitter (a</li> <li>Control MPC in a steel cabinet, IP54, includ</li> </ul>		
	equipment and microprocessor-controlled C		
	Dry-running protection and diaphragm tank are ava	ailable according to	the list of accessories.
		C C	
,	Pump operation is controlled by Control MPC with * Intelligent multip	the following functi ump controller, CU	
	Constant-pressu	re control through	continuously variable adjustment of the spee
	each individual p PID controller wi		rameters (Kp + Ti).
	Constant pressu	re at setpoint, inde	pendent of inlet pressure.
	Soft pressure bu On/off operation		water hammer during startup).
	Automatic casca	de control of pump	s for optimum efficiency.
	Selection of min.	time between star	t/stop, automatic pump changeover and pum



Description						
			vent idle pumps from seizing up.			
Possibility of standby pump allocation.						
Possibility of backup sensor (redundant primary sensor).						
	Secondary sensor	(Possible to swite	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 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					
	Inlet pressure.		וכות זמועס.			
	Non-return valve m	onitoring				
		ionitoring.				
	Motor protection.	- maanitanaal fan m	alferration			
	Sensors and cable					
	Alarm log with the		ings/alarms.			
	Display and indicat					
	Colour screen disp					
	indications	nt for operating in	dications and red indicator light for fault			
			in an antion and fault			
		geover contacts i	or operation and fault.			
	Crundfoo huo oomi	nunication	•			
It is possible to add CIM comm	Grundfos bus com					
Pumps, piping, cabling compl	munication modules for ete as well as Control N	communicating v	vith Scada/BMS.			
Pumps, piping, cabling compl The booster system has been	nunication modules for ete as well as Control M preset and tested.	communicating v	vith Scada/BMS.			
Pumps, piping, cabling compl The booster system has been There are options to upgrade	nunication modules for ete as well as Control M preset and tested.	communicating v	vith Scada/BMS.			
Pumps, piping, cabling compl The booster system has been There are options to upgrade boosting system.	munication modules for ete as well as Control M preset and tested. the pressure	communicating v	vith Scada/BMS.			
Pumps, piping, cabling compl The booster system has been There are options to upgrade boosting system. Flow media:	munication modules for ete as well as Control M preset and tested. the pressure Water	communicating v	vith Scada/BMS.			
Pumps, piping, cabling comple The booster system has been There are options to upgrade boosting system. Flow media: Allowed liquid temp.:	munication modules for ete as well as Control M preset and tested. the pressure Water 5 °C 60 °C	communicating v	vith Scada/BMS.			
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Pumps, piping, cabling comple 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 pur	nunication modules for ete as well as Control M preset and tested. the pressure Water 5 °C 60 °C 16 bar 47.1 m³/h mp acc. DIN 1988/T5:	communicating v	vith Scada/BMS.			
Pumps, piping, cabling comple 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 pur Nom. current of plant:	munication modules for ete as well as Control M preset and tested. the pressure Water 5 °C 60 °C 16 bar 47.1 m³/h mp acc. DIN 1988/T5: 14.4 A	communicating v	vith Scada/BMS.			
Pumps, piping, cabling comple 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 pur Nom. current of plant: Nominal power:	munication modules for ete as well as Control M preset and tested. the pressure Water 5 °C 60 °C 16 bar 47.1 m³/h mp acc. DIN 1988/T5: 14.4 A 3 kW	communicating v	vith Scada/BMS.			
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It is possible to add CIM comr Pumps, piping, cabling compl 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 put Nom. current of plant: Nominal power: Net weight:	munication modules for ete as well as Control M preset and tested. the pressure Water 5 °C 60 °C 16 bar 47.1 m³/h mp acc. DIN 1988/T5: 14.4 A 3 kW	communicating v	vith Scada/BMS.			
Pumps, piping, cabling comple 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 pur Nom. current of plant: Nominal power:	munication modules for ete as well as Control M preset and tested. the pressure Water 5 °C 60 °C 16 bar 47.1 m³/h mp acc. DIN 1988/T5: 14.4 A 3 kW	communicating v	vith Scada/BMS.			
Pumps, piping, cabling comple 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 pur Nom. current of plant: Nominal power:	munication modules for ete as well as Control M preset and tested. the pressure Water 5 °C 60 °C 16 bar 47.1 m³/h mp acc. DIN 1988/T5: 14.4 A 3 kW	communicating v IPC are mounted	vith Scada/BMS.			





Description	Value
General information:	
Product name:	Hydro MPC-E 3 CRIE 10-5
Product No:	99257342
EAN number:	5713826105969
Technical:	
Rated flow:	36.3 m³/h
Max flow:	47.1 m³/h
Max flow system:	36 m³/h
Rated head:	58.5 m
Head max:	73.8 m
Main pump name:	CRIE 10-5
Main pump No:	99071462
Number of pumps:	3
Non-ret, valve:	at discharge side
Materials:	5
Manifolds:	EN/DIN 1.4571/ AISI 316 Ti
Installation:	
Range of ambient temperature:	5 40 °C
Maximum operating pressure:	16 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:	5 60 °C
Selected liquid temperature:	20 °C
Density:	998.2 kg/m <sup>3</sup>
Electrical data:	990.2 Kg/III
Power (P2) main pump:	3 kW
( ) 1 1	50 / 60 Hz
Mains frequency:	3 x 380-415 V
Rated voltage: Rated current of system:	14.4 A
Start. method:	electronically
	,
Enclosure class (IEC 34-5):	
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:	Υ
NI ( ) I (	0.171

247 kg

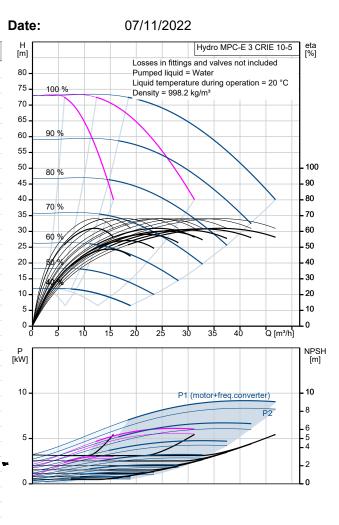
266 kg

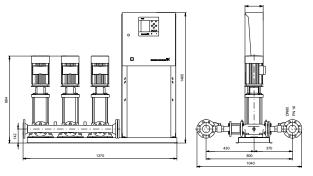
Great Britain

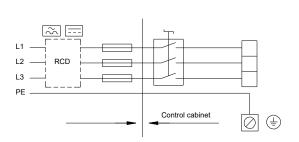
98272391

98271947

98272014







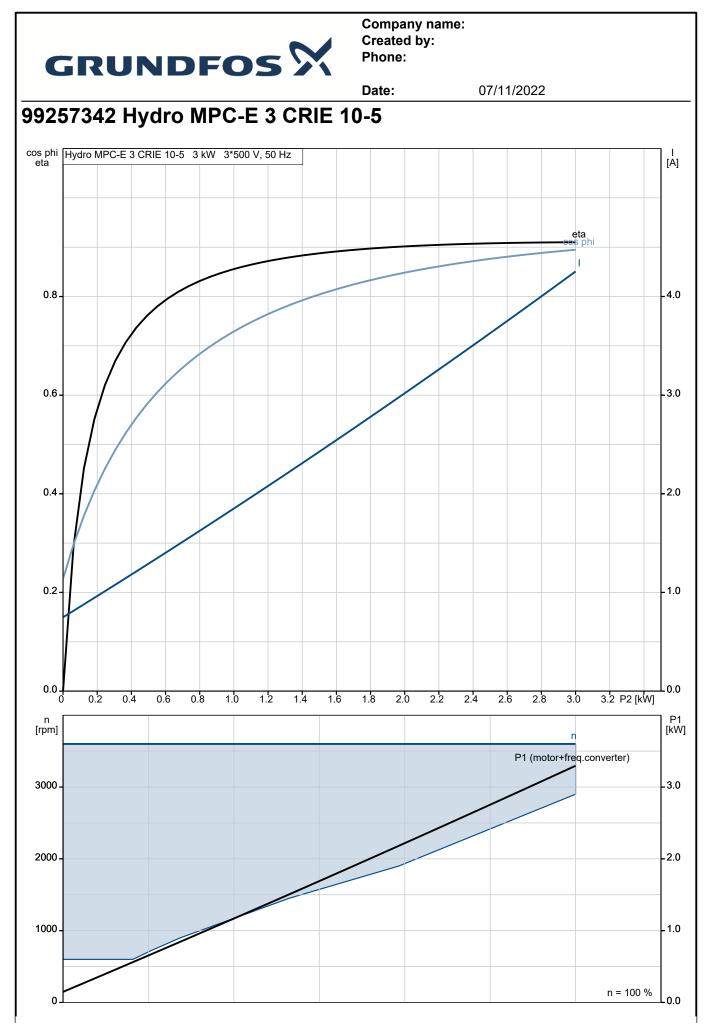
Net weight:

Gross weight:

Sales region:

Config. file no:

Config.file Control MPC:

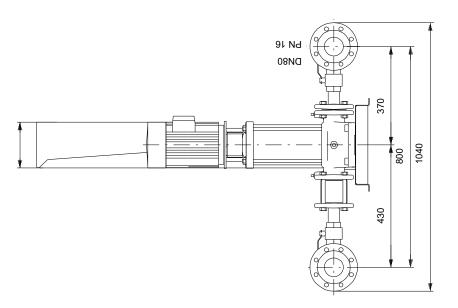


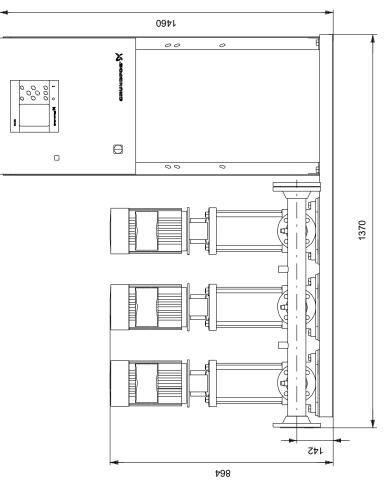


Date:

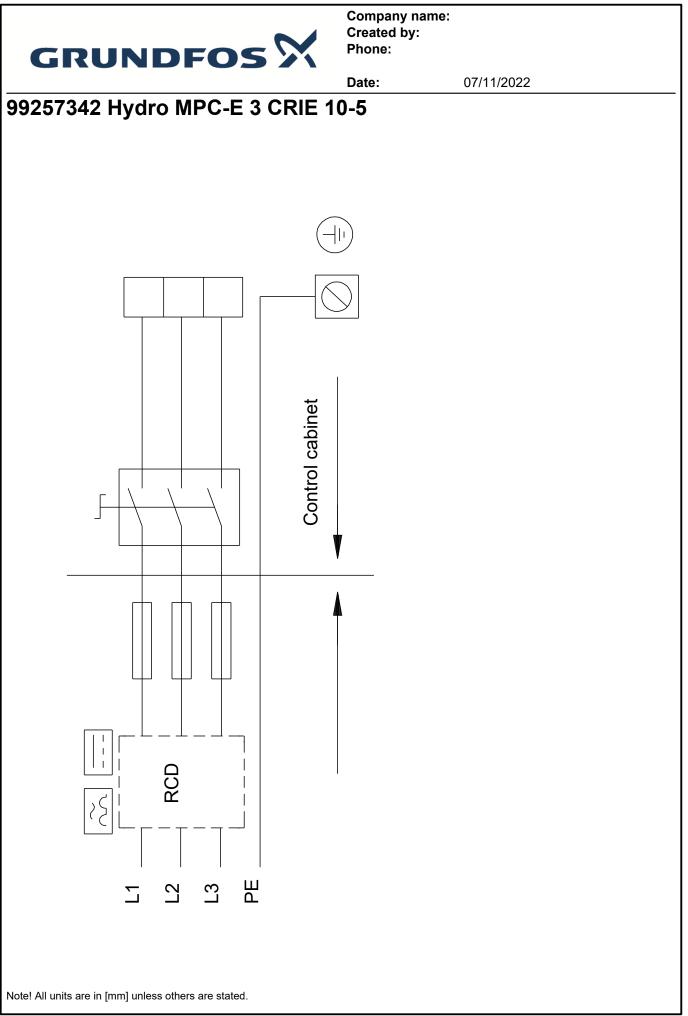
07/11/2022

## 99257342 Hydro MPC-E 3 CRIE 10-5





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 10-5
 1
 99257342
 Price on request

8/8

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