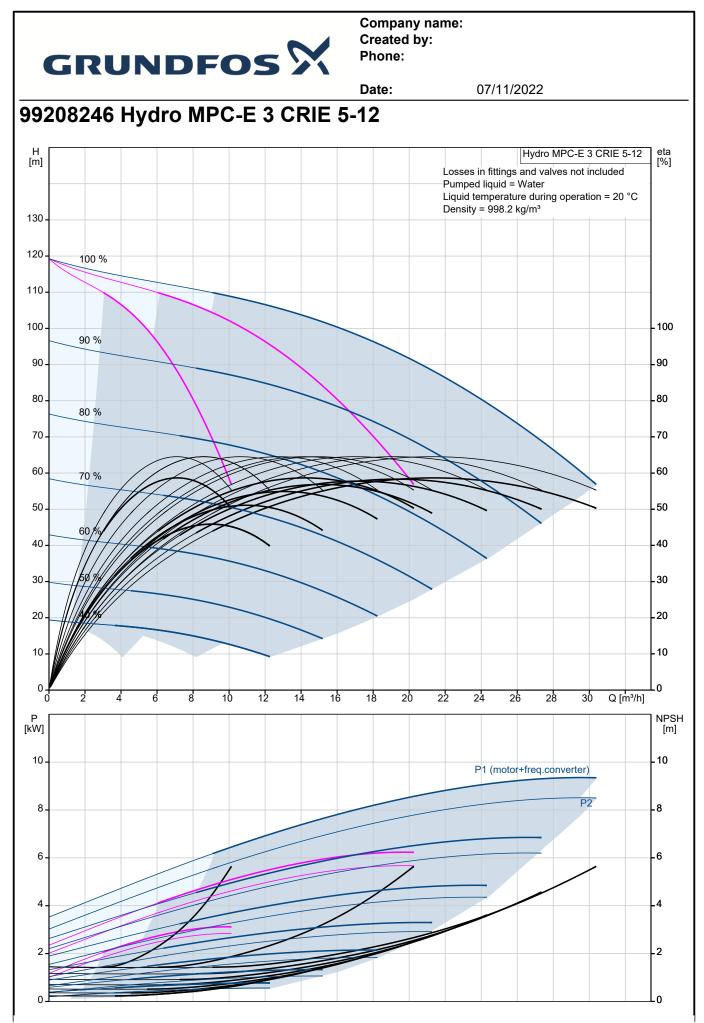


		Date:	07/11/2022
	Description		
ŀ	Hydro MPC-E 3 CRIE 5-12		
	0		
	Notel Broduc	t picture may differ from a	stual product
F	Product No.: 99208246	t picture may unler nom a	
_			
	Pressure booster system supplied as compact a	assembly according to	DIN standard 1988/15.
A	All pumps are speed-controlled.		
F	From 0.37 to 11 kW, the booster system is equi	pped with CR, CRE, C	RI, CRIE pumps with electronically
c	commutated permanent-magnet motors with ex requency converter applies to IE5 level in IEC6	tremely high efficiency	r. The total efficiency of the motor including t
'			
F	From 15 to 22 kW, the booster system is equipp requency control. The total efficiency of the mo	ed with CR, CRE, CR	I, CRIE pumps with motors with integrated
ii	EC60034-31, even though this standard only a	oplies to the motor.	
	* Hudro MBC E maintains a constant proc	ouro through continuo	us adjustment of the speed of the pumps.
	* The system performance is adapted to the	ne demand through cu	tting in/out the required number of pumps a
	through parallel control of the pumps in c	•	foult
	 Pump changeover is automatic and dependent 	enus on load, time and	raut.
	The system consists of these parts: vertical, multistage, centrifugal pumps, type CR		
	Pump parts in contact with the pumped liquid ar		eel EN DIN 1.4301
F	Pump bases and heads are of either cast iron/si pump type; other vital parts are made of stainles	tainless steel (CRI) or	cast iron EN-GJS-500-7 (CR), depending or
	The pumps are equipped with a service-friendly		
	 Two stainless steel manifolds to EN DIN Stainless steel base frame to EN DIN 1.4 		ve CR 00 the number are placed on a
	 Stainless steel base frame to EN DIN 1.4 galvanized I-Beam frame 	1301 up to CR 90, abo	ve CR 90 the pumps are placed on a
	 * One non-return valve (POM) and two iso * Non-return valves are certified according 		
	 * Adapter with isolating valve for connectic 		aives according to Dirv and DVGVV
	* Pressure gauge and pressure transmitte		nA) required fuses, motor protection, switching
	equipment and microprocessor-controlle		required luses, motor protection, switching
_	Dry-running protection and diaphragm tank are	available according to	the list of accessories
		-	
F	Pump operation is controlled by Control MPC w	ith the following function Itipump controller, CU	
	Constant-pres	ssure control through c	continuously variable adjustment of the spee
	each individua		remetere (Kn. L. Ti)
		with adjustable PI par ssure at setpoint, indep	pendent of inlet pressure.
	Soft pressure	build-up (To prevent v	vater hammer during startup).
	•	on at low flow. scade control of pumps	s for optimum efficiency.
			/stop, automatic pump changeover and pum



Description			
			ent idle pumps from seizing up.
	Possibility of standb		
	Possibility of backup		
			n to another sensor/setpoint).
	Multi-sensor (up to 6	6 sensors to influ	ence the setpoint).
	Manual operation.		
	Possibility of externa	al setpoint influer	ice.
	Log function.		
	Setpoint ramp.		
	Possibility of digital	remote-control fu	nctions:
	System on/off.		
	Max., min. or user-d		
	Up to 6 alternative s		
	Digital inputs and ou		
	Pump and system n		
	Minimum and maxin	num limits of curr	ent value.
	Inlet pressure.		
	Non-return valve mo	onitoring.	
	Motor protection.		
	Sensors and cables	monitored for ma	alfunction.
	Alarm log with the p	revious 24 warnii	ngs/alarms.
	Display and indication	on functions:	
	Colour screen displa	ay.	
		t for operating inc	lications and red indicator light for fault
	indications		
	Potential-free chang	eover contacts fo	or operation and fault.
	Grundfos bus comm	unication.	
It is possible to add CIM con	nmunication modules for c	communicating with	ith Scada/BMS.
Pumps, piping, cabling comp The booster system has bee There are options to upgrade boosting system.	plete as well as Control MI n preset and tested.	-	
Pumps, piping, cabling comp The booster system has bee There are options to upgrade boosting system. Flow media:	olete as well as Control MI in 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 Mi in 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 Mi in 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 Mi in preset and tested. e the pressure Water 5 °C 60 °C 16 bar 30.6 m³/h	PC 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	blete as well as Control MI in preset and tested. e the pressure Water 5 °C 60 °C 16 bar 30.6 m³/h ump acc. DIN 1988/T5:	-	
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:	olete as well as Control MI in preset and tested. e the pressure Water 5 °C 60 °C 16 bar 30.6 m³/h ump acc. DIN 1988/T5: 14.4 A	PC 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 MI in preset and tested. e the pressure Water 5 °C 60 °C 16 bar 30.6 m³/h ump acc. DIN 1988/T5: 14.4 A 3 kW	PC are mounted	
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12

Description	Value
General information:	
Product name:	Hydro MPC-E 3 CRIE 5-12
Product No:	99208246
EAN number:	5712608712661
Technical:	
Rated flow:	20.7 m³/h
Max flow:	30.6 m³/h
Max flow system:	20 m³/h
Rated head:	90.4 m
Head max:	119.8 m
Main pump name:	CRIE 5-12
Main pump No:	99072206
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
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:	5 60 °C
Selected liquid temperature:	20 °C
Density:	998.2 kg/m³
Electrical data:	
Power (P2) main pump:	3 kW
Mains frequency:	50 / 60 Hz
Rated voltage:	3 x 380-415 V
Rated current of system:	14.4 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

Y

187 kg

206 kg

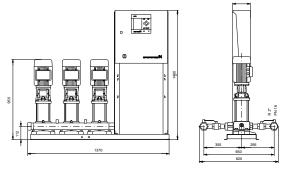
Great Britain

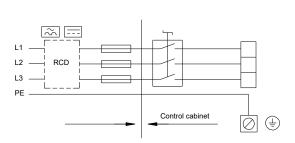
98272380

98271947

98272020

Date	e: 07/11/2022	
H [m]	Hydro MPC-E 3 CRIE 5-12	eta [%]
[iii]	Losses in fittings and valves not included	[/0]
130 -	Pumped liquid = Water Liquid temperature during operation = 20 °C	
120 -	100 % Density = 998.2 kg/m³	
110 -		
100 -	90 %	- 100
90 -		- 90
80 -	80 %	- 80
70 -		- 70
60 -	70 %	- 60
50 -		- 50
40 -	69 4	_40
40 - 30 -		- 30
20 -		- 20
10 -		- 10
0 <mark>-</mark> 0	5 10 15 20 25 Q [m³/h]	Lo
P [kW]		NPSH [m]
10 -	P1 (motor+freq.converter)	- 10
	P2	-8
5 -		-6 -5
		- 4
-		-2
0		Lo





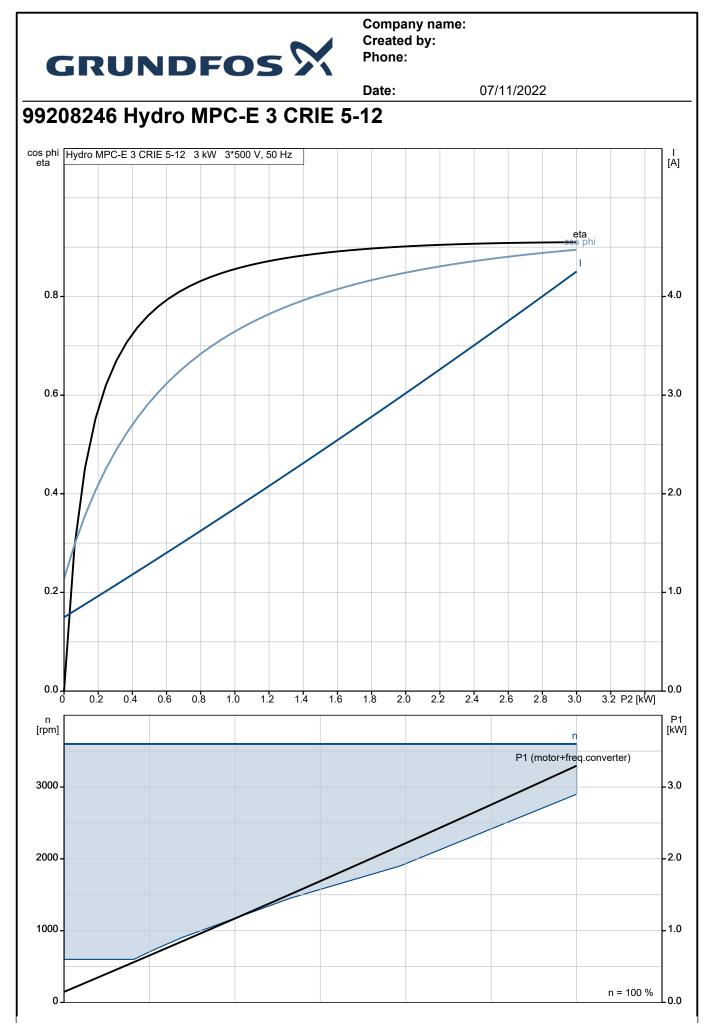
Others:

Basis plant:

Net weight:

Gross weight:

Sales region:

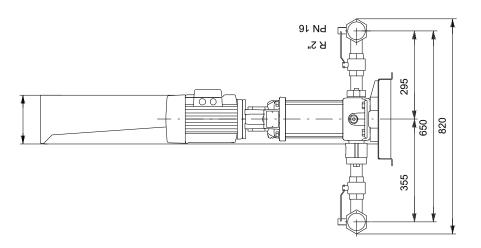


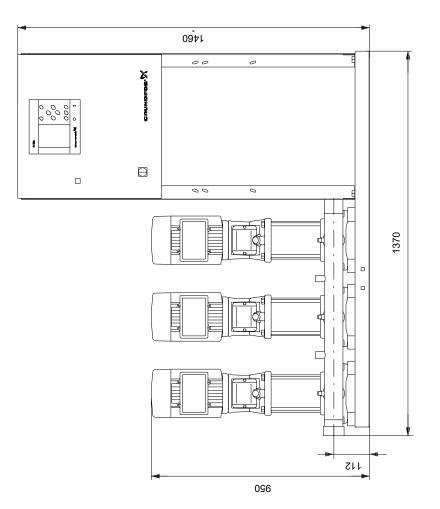


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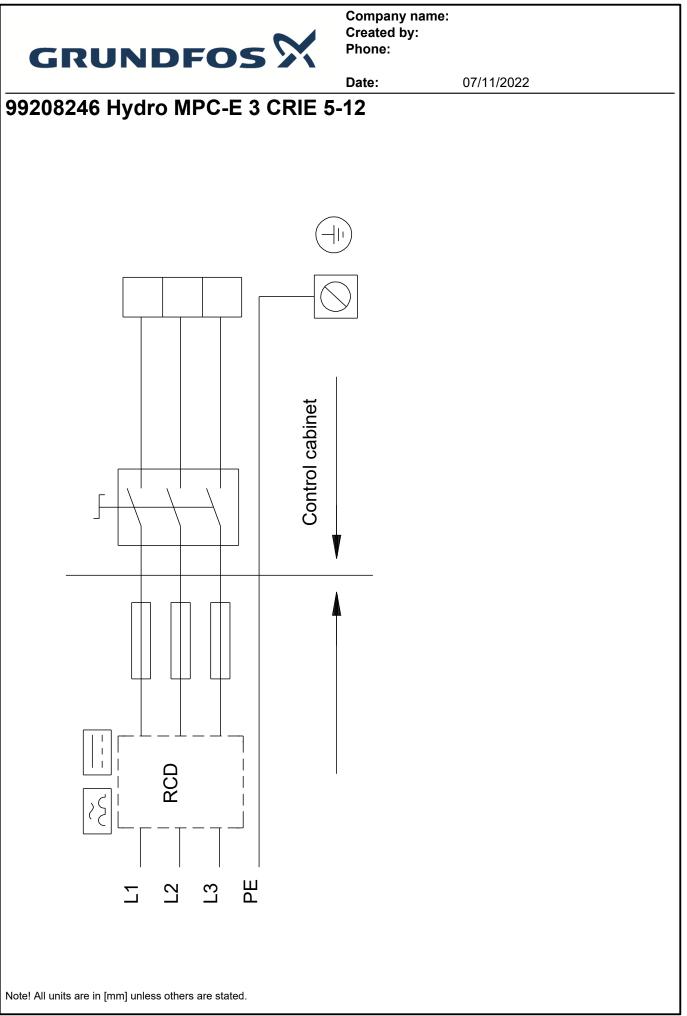
07/11/2022

99208246 Hydro MPC-E 3 CRIE 5-12





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 3 CRIE 5-12 1 99208246 Price on

	Hydro MPC-E 3 CRIE 5-12	1	99208246	Price on request