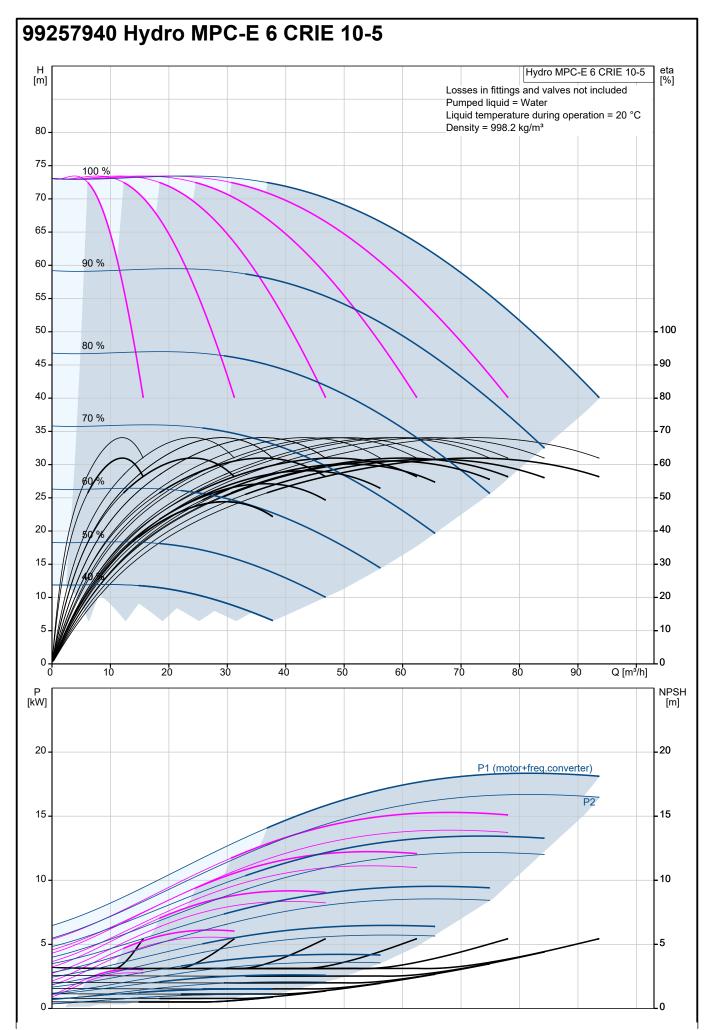
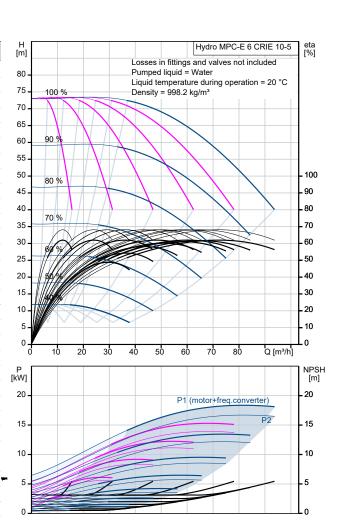
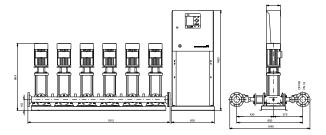
Qty.	Description		
1	Hydro MPC-E 6 CRIE 10-5		
	Note! Product picture may differ from actual product Product No.: 99257940		
	Pressure booster system supplied as compact assembly according to DIN standard 1988/T5.		
	All pumps are speed-controlled.		
From 0.37 to 11 kW, the booster system is equipped with CR, CRE, CRI, CRIE pumps with electronically commutated permanent-magnet motors with extremely high efficiency. The total efficiency of the motor in frequency converter applies to IE5 level in IEC60034-31.			
	From 15 to 22 kW, the booster system is equipped with CR, CRE, CRI, CRIE pumps with motors with integrated frequency control. The total efficiency of the motor including the frequency converter is better than the IE3 level in IEC60034-31, even though this standard only applies to the motor.		
	 * Hydro MPC-E maintains a constant pressure through continuous adjustment of the speed of the pumps. * The system performance is adapted to the demand through cutting in/out the required number of pumps and through parallel control of the pumps in operation. 		
	* Pump changeover is automatic and depends on load, time and fault.		
	The system consists of these parts: :vertical, multistage, centrifugal pumps, type CRIE 10-5 Pump parts in contact with the pumped liquid are made of stainless steel EN DIN 1.4301 Pump bases and heads are of either cast iron/stainless steel (CRI) or cast iron EN-GJS-500-7 (CR), depending on pump type; other vital parts are made of stainless steel EN DIN 1.4301		
	The pumps are equipped with a service-friendly cartridge shaft seal, HQQE (SiC/SiC/EPDM) * Two stainless steel manifolds to EN DIN 1.4571 * Stainless steel has frame to EN DIN 1.4301 up to CR 00: above CR 00 the pumps are placed on a		
	galvanized I-Beam frame		
	 Non-return valves are certified according to DVGW, isolating valves according to DIN and DVGW Adapter with isolating valve for connection of diaphragm tank 		
	 Pressure gauge and pressure transmitter (analog output 4-20 mA) Control MPC in a steel cabinet, IP54, including main switch, all required fuses, motor protection, switching equipment and microprocessor-controlled CU 352. 		
	Dry-running protection and diaphragm tank are available according to the list of accessories.		
	Pump operation is controlled by Control MPC with the following functions: * Intelligent multipump controller, CU 352. Constant-pressure control through continuously variable adjustment of the speed of		
	each individual pump. PID controller with adjustable PI parameters (Kp + Ti).		
	Constant pressure at setpoint, independent of inlet pressure. Soft pressure build-up (To prevent water hammer during startup).		
	On/off operation at low flow. Automatic cascade control of pumps for optimum efficiency.		
	Selection of min. time between start/stop, automatic pump changeover and pump priority.		
	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).		

Qty.	Description	
1		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 commur	nication modules for communicating with Scada/BMS.
	Pumps, piping, cabling complete The booster system has been pre	as well as Control MPC are mounted on the base frame. eset and tested.
	There are options to upgrade the	pressure
	boosting system.	pressure
	Flow media:	Water
	Allowed liquid temp.:	5 °C 60 °C
	System pressure max.:	16 bar
	Flow (Plant):	94.2 m³/h
	Flow without one stand-by pump	
	Nom. current of plant:	34.8 A
	Nominal power: Net weight:	3 kW 484 kg
	Net weight.	404 Kg



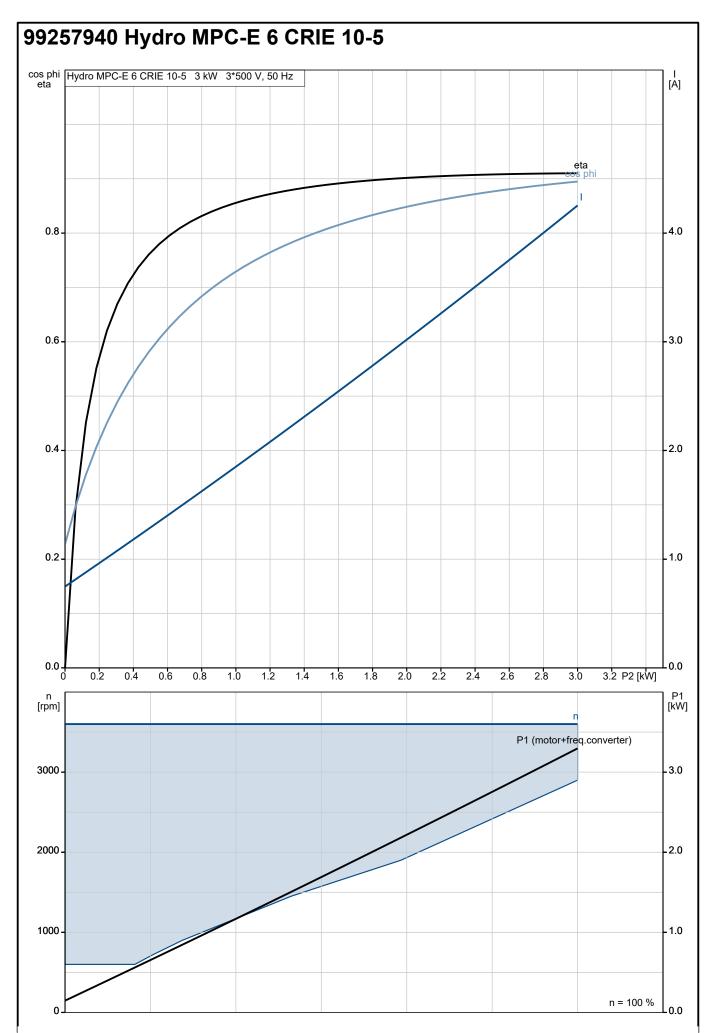
Description	Value		
General information:			
Product name:	Hydro MPC-E 6 CRIE 10-5		
Product No:	99257940		
EAN number:	5713826116354		
Technical:			
Rated flow:	72.6 m³/h		
Max flow:	94.2 m³/h		
Max flow system:	91 m³/h		
Rated head:	58.5 m		
Head max:	73.8 m		
Main pump name:	CRIE 10-5		
Main pump No:	99071462		
Number of pumps:	6		
Non-ret. valve:	at discharge side		
Materials:			
Manifolds:	EN/DIN 1.4571/ AISI 316 Ti		
Installation:			
Range of ambient temperature:	540 °C		
Maximum operating pressure:	16 bar		
Manifold inlet:	DN100		
Manifold outlet:	DN100		
Pressure rating:	PN 16		
Earth connection:	N, PE		
System design:	D		
Liquid:			
Pumped liquid:	Water		
Liquid temperature range:	560 °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:	34.8 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		



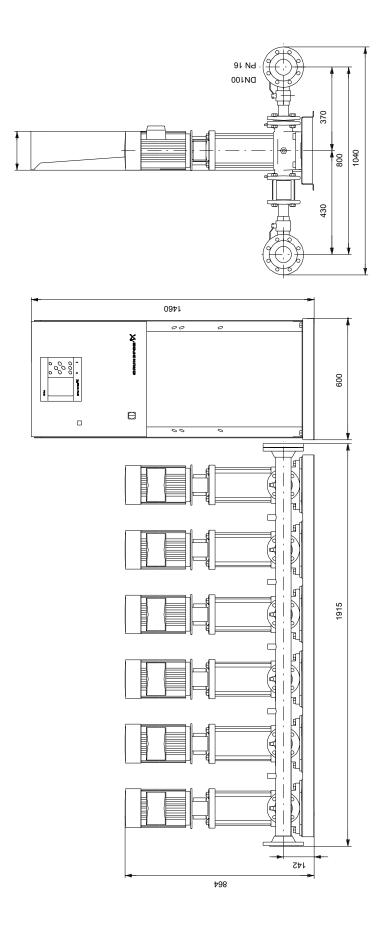


 Control cabinet)

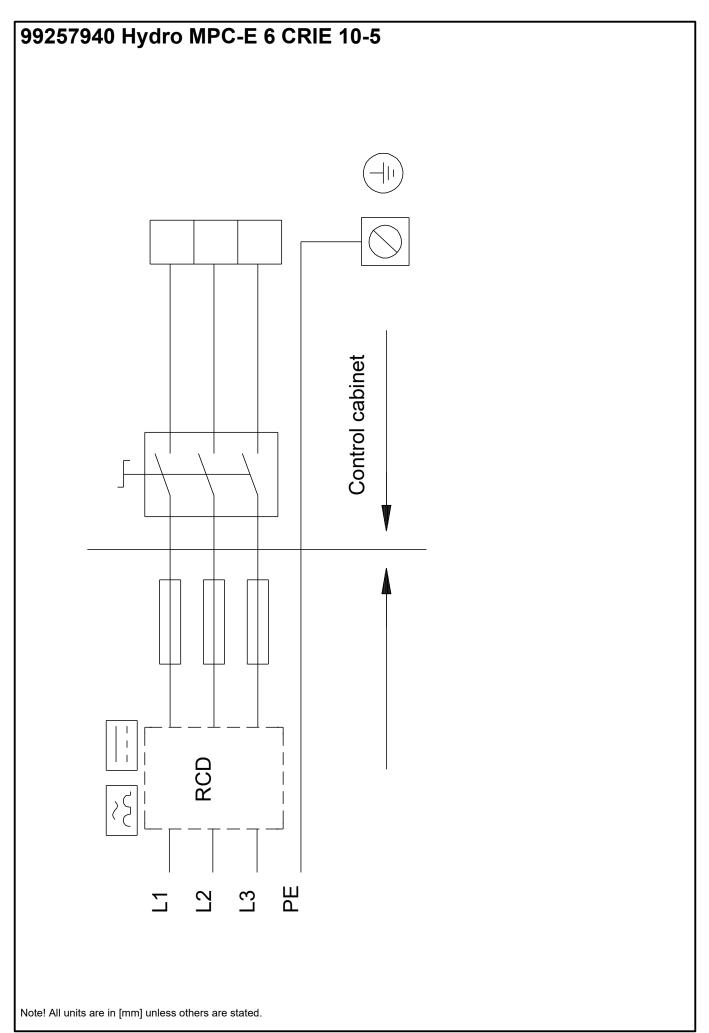
Volume of pressure tank:	12
Diaphragm tank:	Yes
Others:	
Basis plant:	Y
Net weight:	484 kg
Gross weight:	544 kg
Sales region:	Great Britain
Config. file no:	98272391
Config.file Control MPC:	98271950
Config.file Hydro MPC:	98272014
Country of origin:	GB
Custom tariff no.:	84137075



99257940 Hydro MPC-E 6 CRIE 10-5



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



Order Data:						
Position	Your pos.	Product name	Amount	Product No	Total	
		Hydro MPC-E 6 CRIE 10-5	1	99257940	Price or reques	
					reques	