
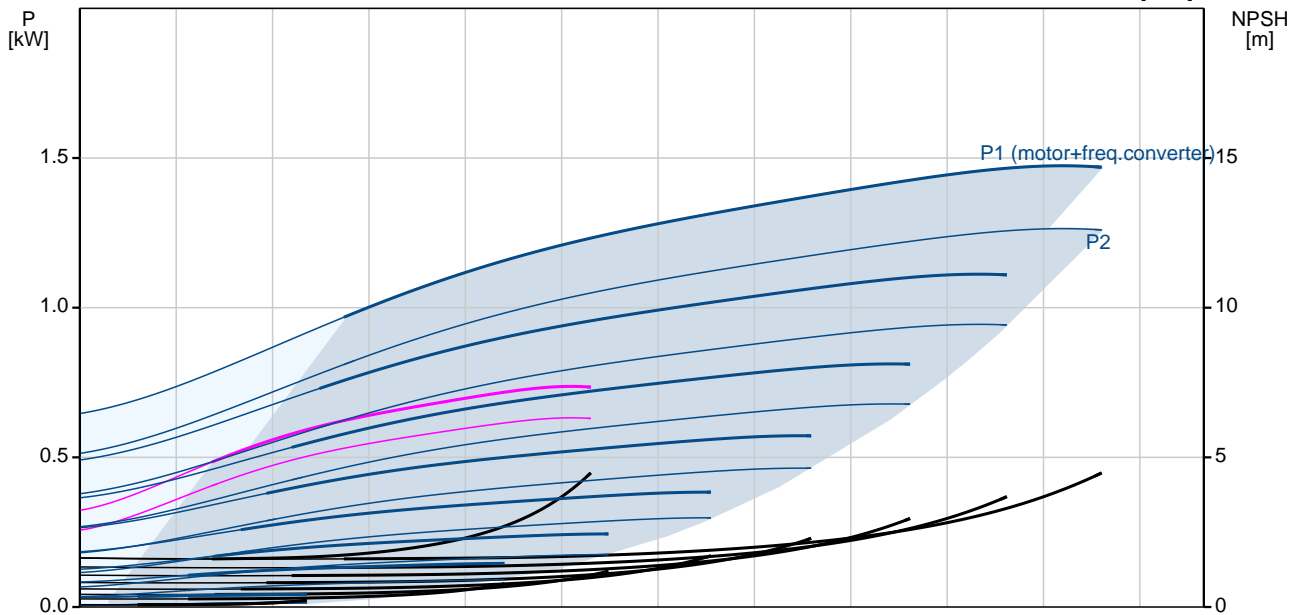
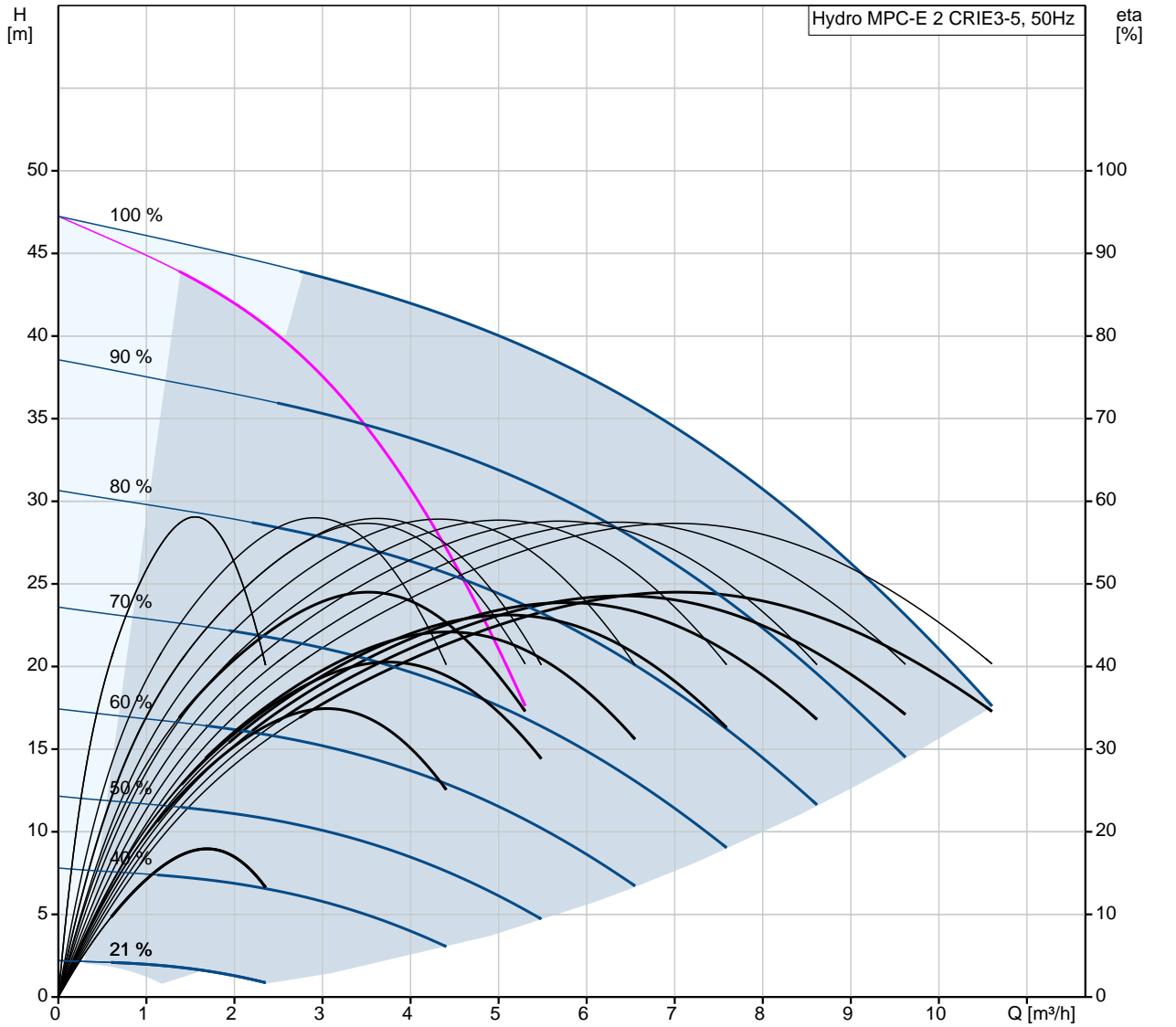


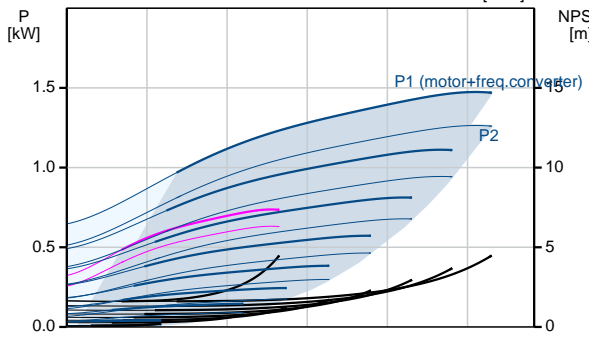
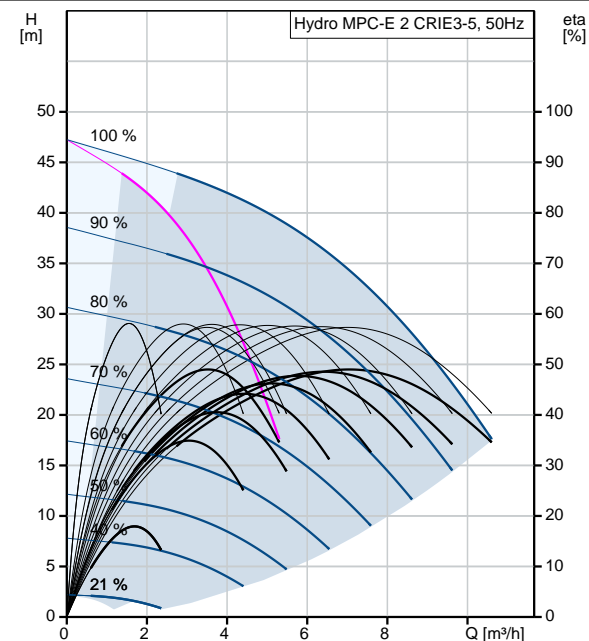
Kogus	Kirjeldus
1	<p data-bbox="231 338 513 369">Hydro MPC-E 2 CRIE3-5</p>  <p data-bbox="624 611 1238 633">Märkus! Realse toote väljanägemine võib erineda pildil kujutatust.</p> <p data-bbox="231 642 497 667">Toote kood: 98426896</p> <p data-bbox="231 701 1249 725">Pressure booster system supplied as compact assembly according to DIN standard 1988/T5.</p> <p data-bbox="231 761 580 786">All pumps are speed-controlled.</p> <p data-bbox="231 819 1378 898">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 including the frequency converter applies to IE5 level in IEC60034-31.</p> <p data-bbox="231 934 1458 1012">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.</p> <ul data-bbox="268 1048 1445 1167" style="list-style-type: none">* 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. <p data-bbox="231 1198 622 1223">The system consists of these parts:</p> <p data-bbox="231 1227 1198 1252">Pump parts in contact with the pumped liquid are made of stainless steel EN DIN 1.4301</p> <p data-bbox="231 1256 1450 1310">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</p> <p data-bbox="231 1314 1244 1339">The pumps are equipped with a service-friendly cartridge shaft seal, HQQE (SiC/SiC/EPDM)</p> <ul data-bbox="268 1344 1399 1603" style="list-style-type: none">* Two stainless steel manifolds to EN DIN 1.4571* Stainless steel base frame to EN DIN 1.4301 up to CR 90; above CR 90 the pumps are placed on a galvanized I-Beam frame* One non-return valve (POM) and two isolating valves for each pump* 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. <p data-bbox="231 1637 1243 1662">Dry-running protection and diaphragm tank are available according to the list of accessories.</p> <p data-bbox="231 1697 1035 1722">Pump operation is controlled by Control MPC with the following functions:</p> <ul data-bbox="231 1727 1420 2110" style="list-style-type: none">* 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).

Kogus	Kirjeldus
	<p>Secondary sensor (Possible to switch to another sensor/setpoint). Multi-sensor (up to 6 sensors to influence the setpoint). 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.</p> <p>It is possible to add CIM communication modules for communicating with Scada/BMS.</p> <p>Pumps, piping, cabling complete as well as Control MPC are mounted on the base frame. The booster system has been preset and tested.</p> <p>Flow media: Veski Allowed liquid temp.: 5 °C .. 60 °C System pressure max.: 16 bar Flow (Plant): 11 m³/h Flow without one stand-by pump acc. DIN 1988/T5: 5 m³/h Mains suply: 220-240 V Nom. current of plant: 6,2A-230V Nominal power: 0.75 kW Nettokaal: 94 kg</p> <p>Maximum head: 47 m Maximum flow: 11 m³/h</p>

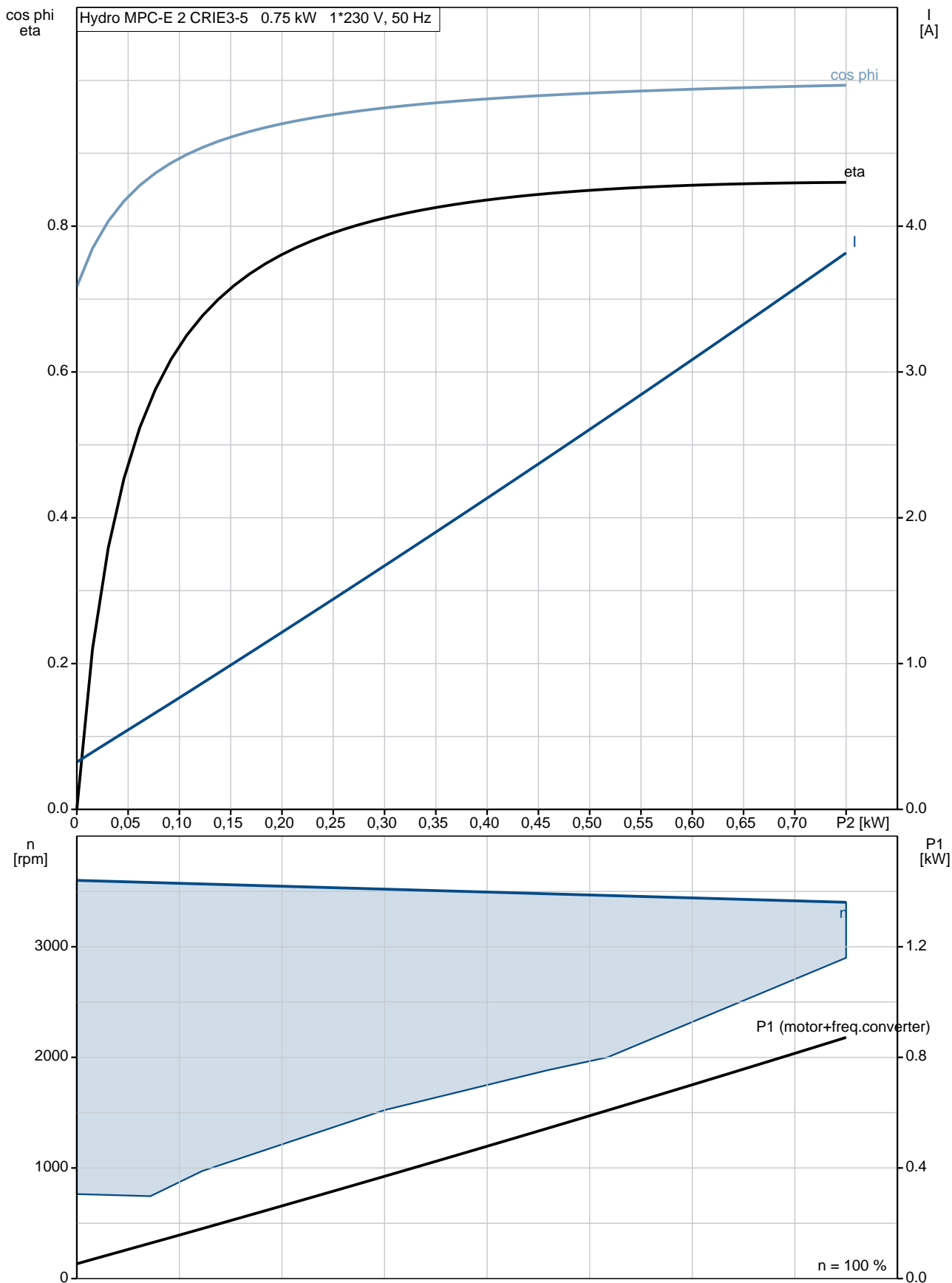
98426896 Hydro MPC-E 2 CRIE3-5 50 Hz



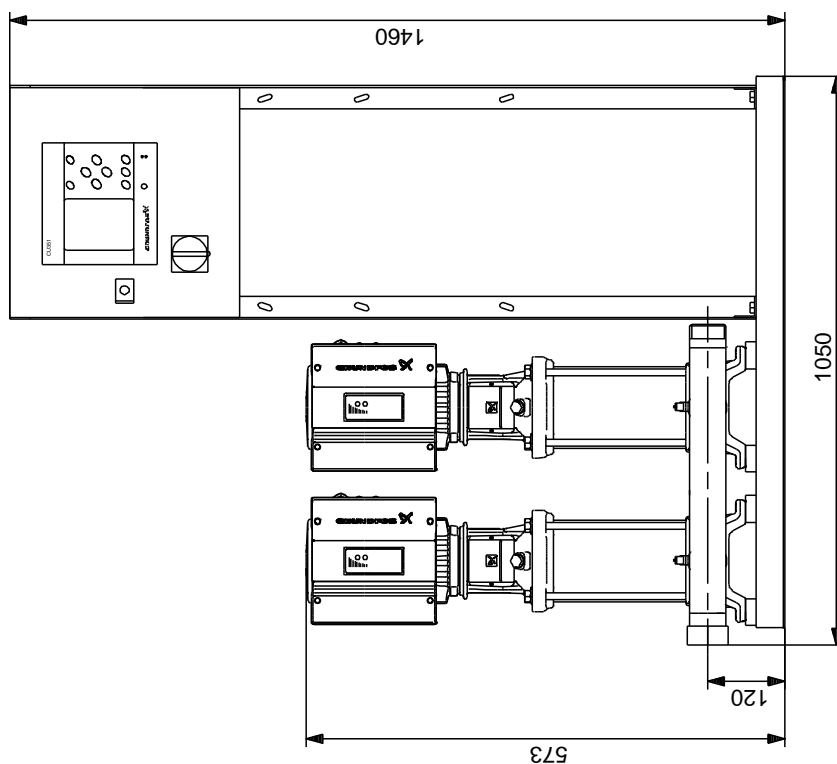
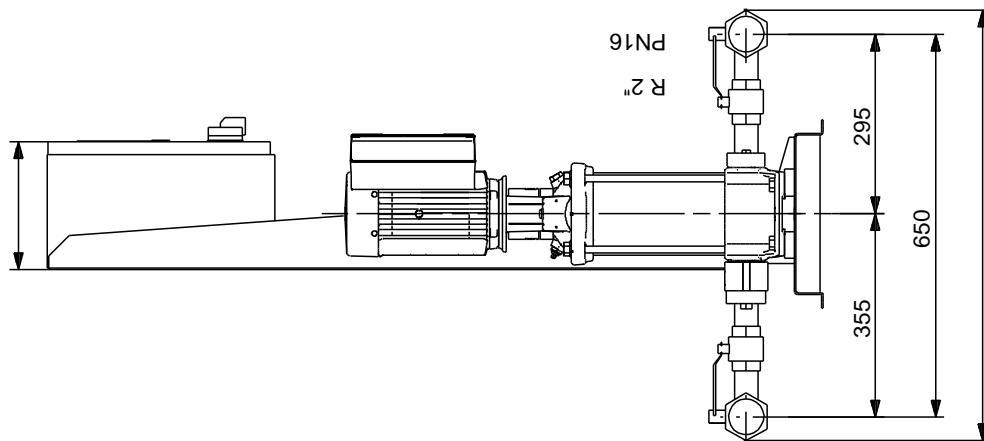
Kirjeldus	Väärtus
Üldteave:	
Product name:	Hydro MPC-E 2 CRIE3-5
Product No:	98426896
EAN number:	5711494818006
Tehnilised:	
Maks. jõudlus:	11 m³/h
Maks. jõudlus seade:	5 m³/h
Tõstekõrgus maks.:	47 m
Põhipumba nimi:	CRIE3-5
Põhipumba kood:	98389728
Pumpade arv:	2
Siibri asend:	survepoolel
Materjalid:	
Kollektorid:	EN/DIN 1.4571/ AISI 316 TI
Paigaldamine:	
Maks. töösurve:	16 bar
Maks. lubatav sisendrõhk:	14.3 bar
Manifold inlet:	R 2"
Manifold outlet:	R 2"
Surveklass:	PN16
Earth connection:	N, PE
Vedelik:	
Pumbatav vedelik:	Vesi
Vedeliku temperatuurivahemik:	5 .. 60 °C
Selected liquid temperature:	20 °C
Tihedus:	998.2 kg/m³
Elektriandmed:	
Põhipumba võimsus (P2):	0.75 kW
Vooluvõrgu sagedus:	50 Hz
Nimipinge:	1 x 220-240 V
Süsteemi nimivool:	6,2A-230V
Käivitusviis:	elektroonse
Kaitseklass (IEC 34-5):	IP54
Raadiohäirete kaitse:	EMC DIRECTIVE(2014/30/EU)
Juhtimisseade:	
Control type:	E
Paak:	
Membraanpaak:	Jah
Muu:	
Baasseadmed:	Y
Nettokaal:	94 kg
Bruttokaal:	115 kg
Toote valik:	GB
Konfig.faili nr.:	98272356
Konfig.fail Control MPC:	98271946
Konfig.fail Hydro MPC:	98272014



98426896 Hydro MPC-E 2 CRIE3-5 50 Hz

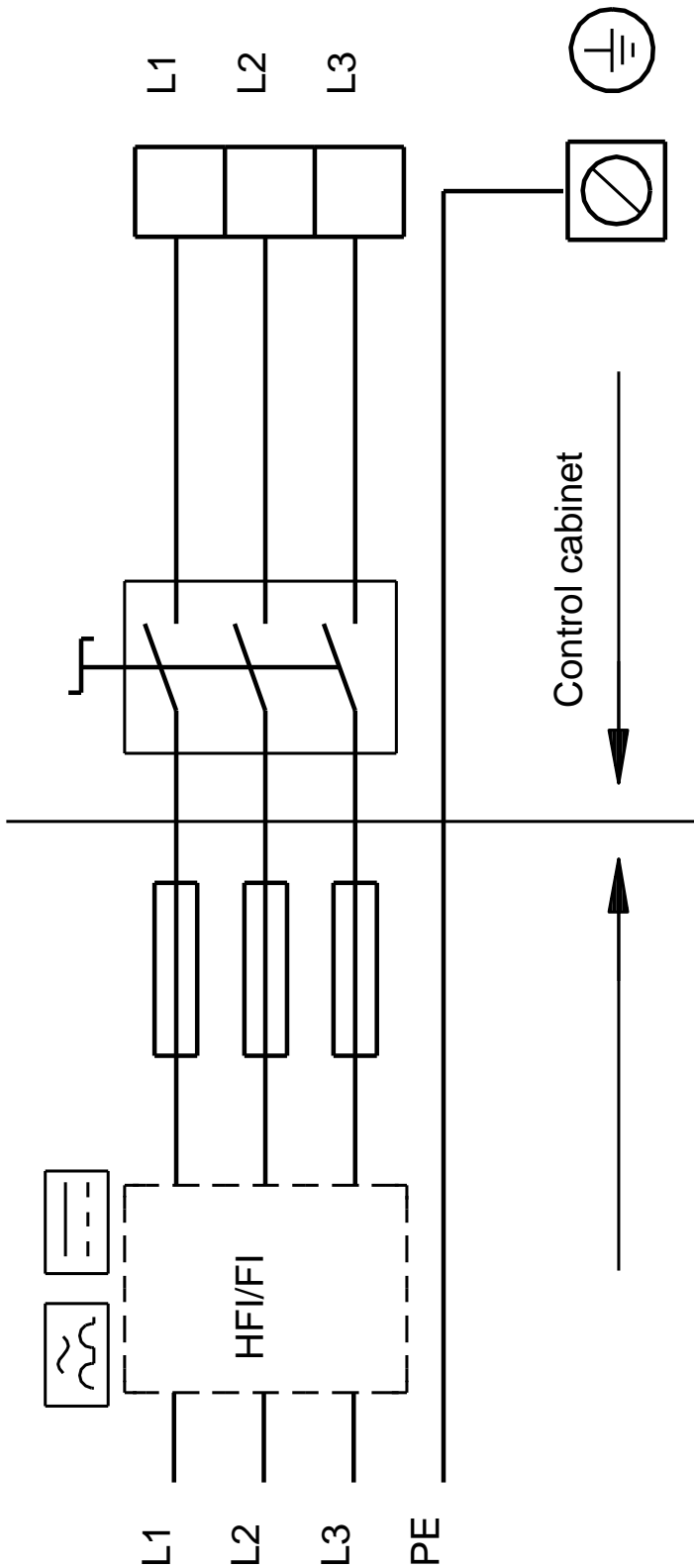


98426896 Hydro MPC-E 2 CRIE3-5 50 Hz



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

98426896 Hydro MPC-E 2 CRIE3-5 50 Hz



Märkus! Kõik mõõdud [mm] kui pole teisiti tähistatud.