

GHV20/46SVX04G185/4

Technical data

Company name
Contact
Phone number
e-mail address

Operating data					
1	Pumpe type	Single-/Multi-pump set		Fluid	Water, pure
2	No. of pumps	2		Operating temperature t A	°C 4
3	Nominal flow	l/s	0	pH-value at t A	7
4	Nominal head	m	0	Density at t A	kg/m ³ 1000
5	Static head	m	0	Vapor pressure at t A	kPa 100
6	Inlet pressure	kPa	0	Kin. viscosity at t A	mm ² /s 1.569
7	Environmental temperature	°C	20	Altitude	0
8	Available system NPSH	m	0		

Pump data					
9	Product version	[X] - Hydrovar X+			
10	Operating speed	3600 rpm			
11	Stages	4			
12	Max. working pressure	kPa	1558.8		
13	Head H(Q=0)	m	160		
14	Max. shaft power	kW	44.1		
15	Shaft power	kW			
16	Power input	kW			
17	Efficiency	%			
18	Overall efficiency	%			
19	NPSH 3%	m			
20	Total weight	kg	693.0		
21					

Materials					
Pump			Options		
23	Manifolds	Stainless steel, 1.4301, AISI 304		GHV Non-return valve	Non return valve in delivery side
24	On-off valves butterfly type	Disc: Epoxy/Gasket: EPDM/Body: Cast Iron		Additional Card	No card
25	Non-return valves	Painted cast iron with AISI 304 flaps		Analog Device	Standard
26	Pressure switches	Galvanized steel/AISI 301		Condensation Resistance	Standard
27	Pressure trasmitters	AISI 304L & AISI 316L		Control Dev ices Oversized	Standard
28	Caps/plugs	AISI 304 or superior		Control Panel	Standard
29	Sliding/Blind flanges	Galvanized steel		Control Panel cloud connection	Standard without
30	Welded flanges	Stainless steel, 1.4301, AISI 304		Control Panel Position	Standard position
31	Fittings	AISI 304 or superior		Control Panel Protection Degree	Standard
32	Bracket	Painted steel		DACH - Control Panel mounted on	Standard
33	Base	Painted steel		DACH - Optical sensor for lack/presence of water	None
34	On-off valves ball type	Nickel-plated brass		Control Panel Options	Standard
35				Delivery Side	Standard delivery
36				Double Pressure Transmitter	Standard
37				Electric Pump Special Seals	Standard
38				Emergency	Standard
39				High Pressure Protection	Without high pressure protection on delivery
40				N.A.	
41				N.A.	
				Phase Missing	Standard

Motor data						
42	Manufacturer	Lowara e-XM			N.A.	
43	Specific design	IE5 Three phase motor			Protection Against Dry Running	Without protection against dry running
44	Type	EXM160B5/4.185DH2			Pump Test	Set without certified pumps
45	Rated power	18.5 kW	Rated current	33.5 A	Suction Side	Standard suction
46	Nominal speed	3600 rpm	Rated voltage	380 V	Timer	Standard
47	Frame size	160	Motor efficiency	% 91.9		
48	Weight	kg 77.3	Power factor	0.9		

Remarks					
49					
50					
50					
52					

GHV20/46SVX04G185/4

Performance curve

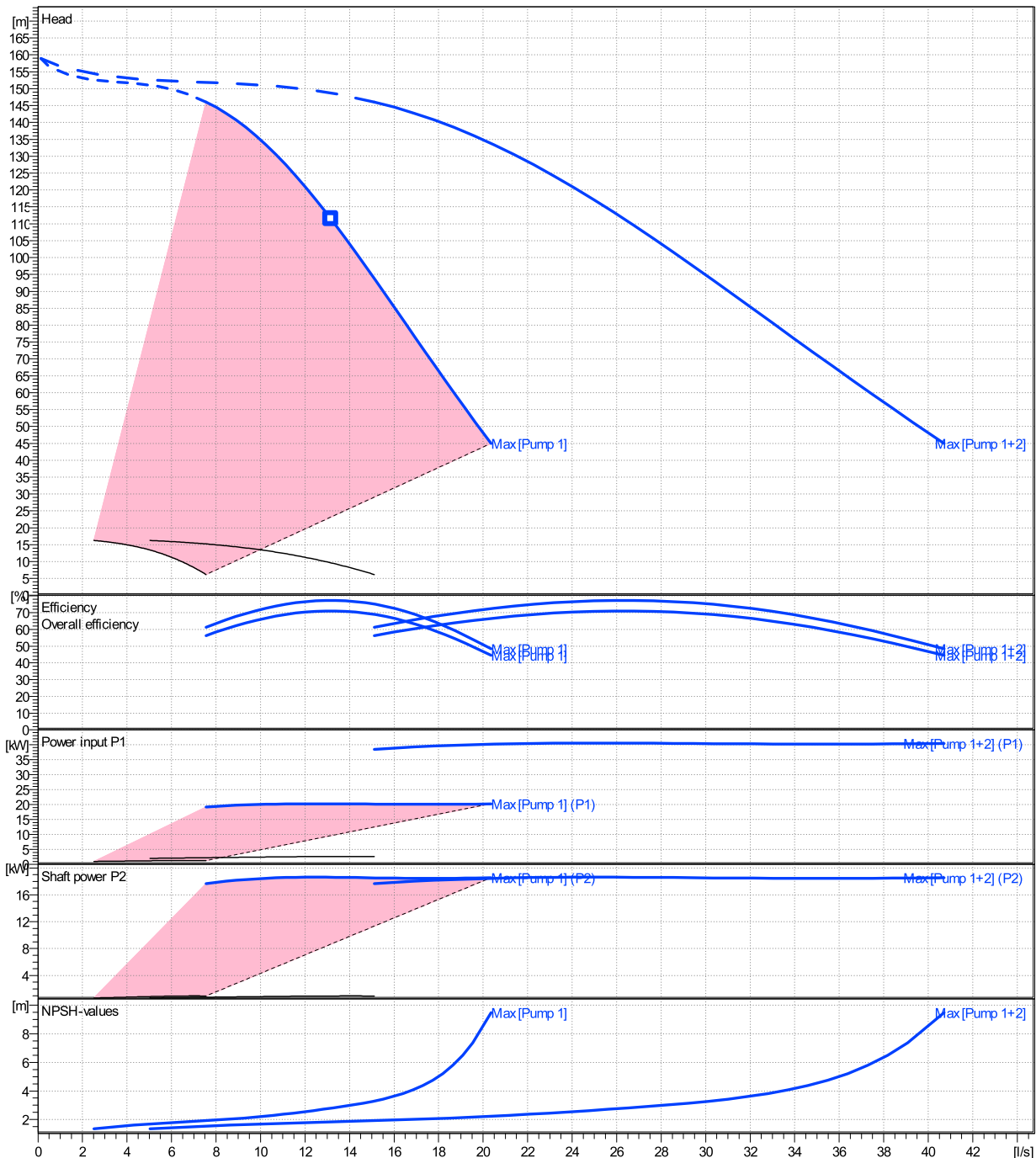
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Ø	Pump capacity			Pump head		Frequency	Hz	50/60
	Operating range	η	η	H(Q=0)	η			
	Min. l/s	Max. l/s	Max. l/s	m	m	Operating speed	rpm	
Max.	7.56	20.4	13.2	159	111	Nominal flow	l/s	0
						Nominal head	m	0
						Inlet pressure	kPa	0
						Static head	m	0

Power datas referred to:

Water, pure [100%] ; 4°C; 1000kg/m³; 1.57mm²/s

hydr. Performance acceptance acc. To EN ISO 9906 Class

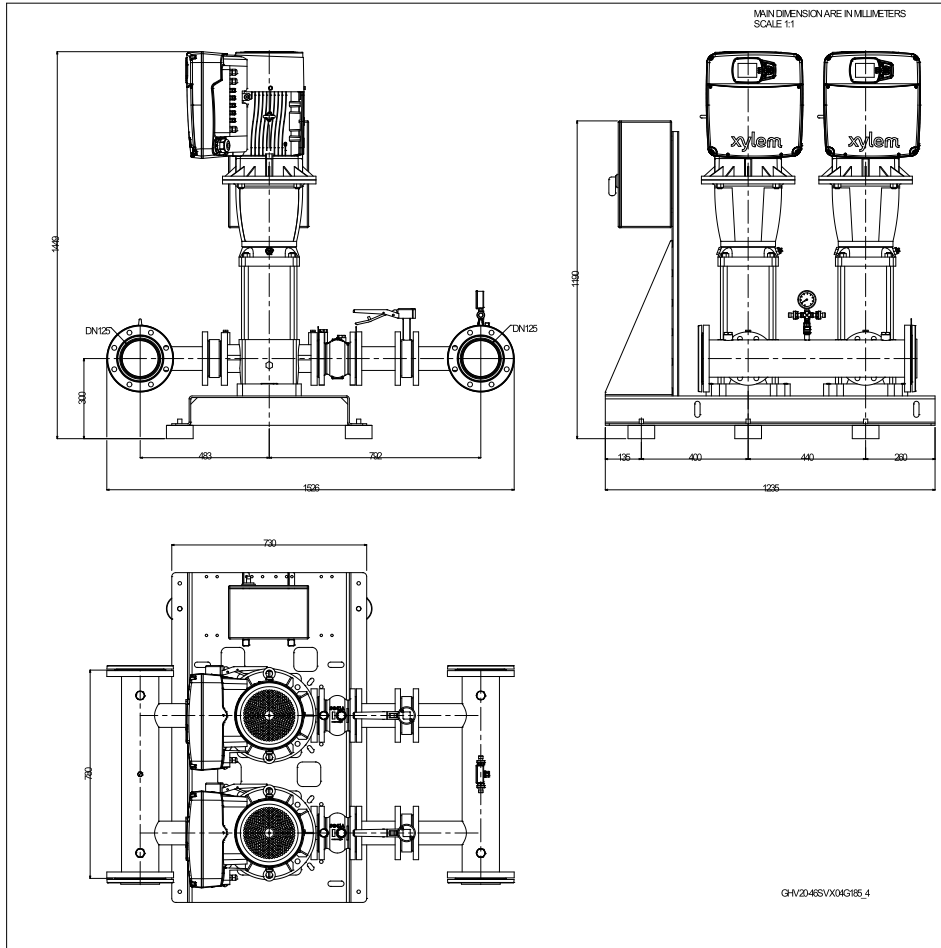


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Dimensions

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[X] - Hydrovar X+
EXM160B5/4.185DH2



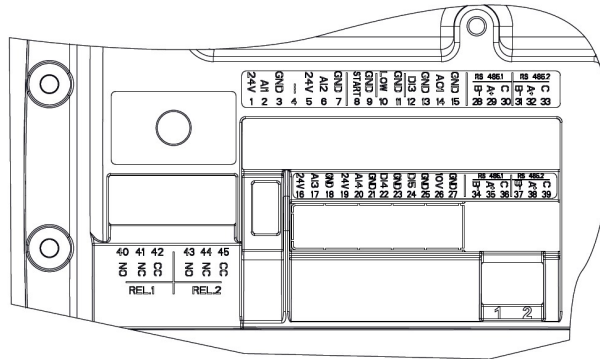
Dimensions [mm]	
A	483
B	792
C	1526
DNA	DN125
DNM	DN125
H	300
H2	1449
Weight	
Total weight	693 kg

Dimensions and weight without obligation

Project	Xylect-22340578	Created by		Last update	5/23/2024
Block	GHV20/46SVX04G185/4	Created on	5/23/2024		

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REF.	ITEM	DESCRIPTION	DEFAULT
1		Power supply +24 VDC, max. 60mA (total, terminals 1 + 5)	
2	Analog Input 1	Configurable Analog Input 1	Pressure Sensor 1
3		Electronic GND	
4	Not used	Internal use - Do not connect	
5		Power supply +24 VDC, max. 60mA (total, terminals 1 + 5)	
6	Analog Input 2	Configurable Analog Input 2	Not used
7		Electronic GND	
8	External Start/Stop	Start/Stop digital input, +24 VDC internal pull-up, 6mA contact current	-
9		Electronic GND	
10	External Lack of Water	Low water digital input, +24 VDC internal pull-up, 6mA contact current	-
11		Electronic GND	
12	Digital Input 3	Configurable Digital Input 3, +24 VDC internal pull-up, 6mA contact current	Solo Run
13		Electronic GND	
14	Analog Output	Configurable Analog Output	Motor Speed
15		Electronic GND	
16		Power supply +24 VDC, max. 60mA (total, terminals 16 and 19)	
17	Analog Input 3	Configurable Analog Input 3	Not used
18		Electronic GND	
19		Power supply +24 VDC, max. 60mA (total, terminals 16 and 19)	
20	Analog Input 4	Configurable Analog Input 4	Not used
21		Electronic GND	
22	Digital Input 4	Configurable Digital Input 4, +24 VDC internal pull-up, 6mA contact current	Not used
23		Electronic GND	
24	Digital Input 5	Configurable Digital Input 5, +24 VDC internal pull-up, 6mA contact current	Not used
25		Electronic GND	
26	10 VDC supply	Power supply +10 VDC, max. 3mA	-
27		Electronic GND	
28		RS485 port 1 : RS485-1B N (-)	
29	Communication bus 1	RS485 port 1 : RS485-1A P (+)	Multipump
30		RS485 port 1 : RS485-COM	
31		RS485 port 2 : RS485-2B N (-)	
32	Communication bus 2	RS485 port 2 : RS485-2A P (+)	Modbus
33		RS485 port 2 : RS485-COM	
34		RS485 port 1 : RS485-1B N (-)	
35	Communication bus 1	RS485 port 1 : RS485-1A P (+)	Multipump
36		RS485 port 1 : RS485-COM	
37		RS485 port 2 : RS485-2B N (-)	
38	Communication bus 2	RS485 port 2 : RS485-2A P (+)	Modbus
39		RS485 port 2 : RS485-COM	
40		Configurable relay 1: Normally Open	
41	Relay 1	Configurable relay 1: Normally Closed	Running
42		Configurable relay 1: Common Contact	
43		Configurable relay 2: Normally Open	
44	Relay 2	Configurable relay 2: Normally Closed	Error
45		Configurable relay 2: Common Contact	