LOWARA
a xylem brand

LNTSX 80-520/150/204CC4

Technical data

Company name
Contact
Phone number
e-mail address

Operating data

1	Pumpe type	In-Line Twin head		Fluid	Water, pure		
2	No. of pumps		1	Operating temperature t A		°C	4
3	Nominal flow	m³/h	0	pH-value at t A			7
4	Nominal head	m	0	Density at t A		kg/m³	1000
5	Static head	m	0	Vapor pressure at t A		kPa	100
6	Inlet pressure	kPa	0	Kin. viscosity at t A		mm²/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		
11	Stages		1
12	Max. working pressure	kPa	508
13	Head H(Q=0)	m	52
14	Power input P1(max)	kW	16.4
15	Total weight	kg	262.2
16	Power input	kW	
17	Overall efficiency	%	
18	Shaft power	kW	
19	Pump efficiency	%	
20	NPSH 3%	m	
21			

Materials

	Pump		Shaft Seal	
22				
23	Volute Casing	Cast Iron	Single mechanical seal, without shaft sleeve	
24	Casing Cover	Cast Iron	eMG12 - Ø28mm	BQ7EGG-WA
25	Impeller	Cast iron / ASTM Class 30		
26	Stub shaft	Stainless steel / AISI 431	1. Rotating ring	Carbon graphite resin impregnated
27	Wear ring	Stainless steel / AISI 304	2. Stationary ring	SiC, silicon carbide, sintered press.less
28	Impeller lock nut and washer	Stainless steel / AISI 304	3. Secondary seal	Ethylene propylene rubber (EPDM)
29	Impeller key	Stainless steel / AISI 316L	4. Springs	CrNiMo - Steel
30	Fill and draing plugs	Stainless steel / AISI 303	5. Others	EPDM - WRAS
31			Gaskets of the pump	Ethylene propylene rubber (EPDM)
32				
33				
34				
35				
36				
37				
38				
39				
40				
41				

Motor data

42	Manufacturer	Xylem	Rated voltage		380-480V
43	Specific design	IE5 Three phase motor	Rated current		30,2-27,1 A
44	Type	EXM160B5/4.150DH2	Motor efficiency	@400V %	4/4: 91.7 3/4: 91.4 2/4: 90.5
45	Rated power	15 kW	Power factor	@400V	0.81
46	Nominal speed	3600 rpm	Weight	kg	71.6
47	Frame size	160			
48	Size	D			

Remarks

49	
50	
50	
52	

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Performance curve

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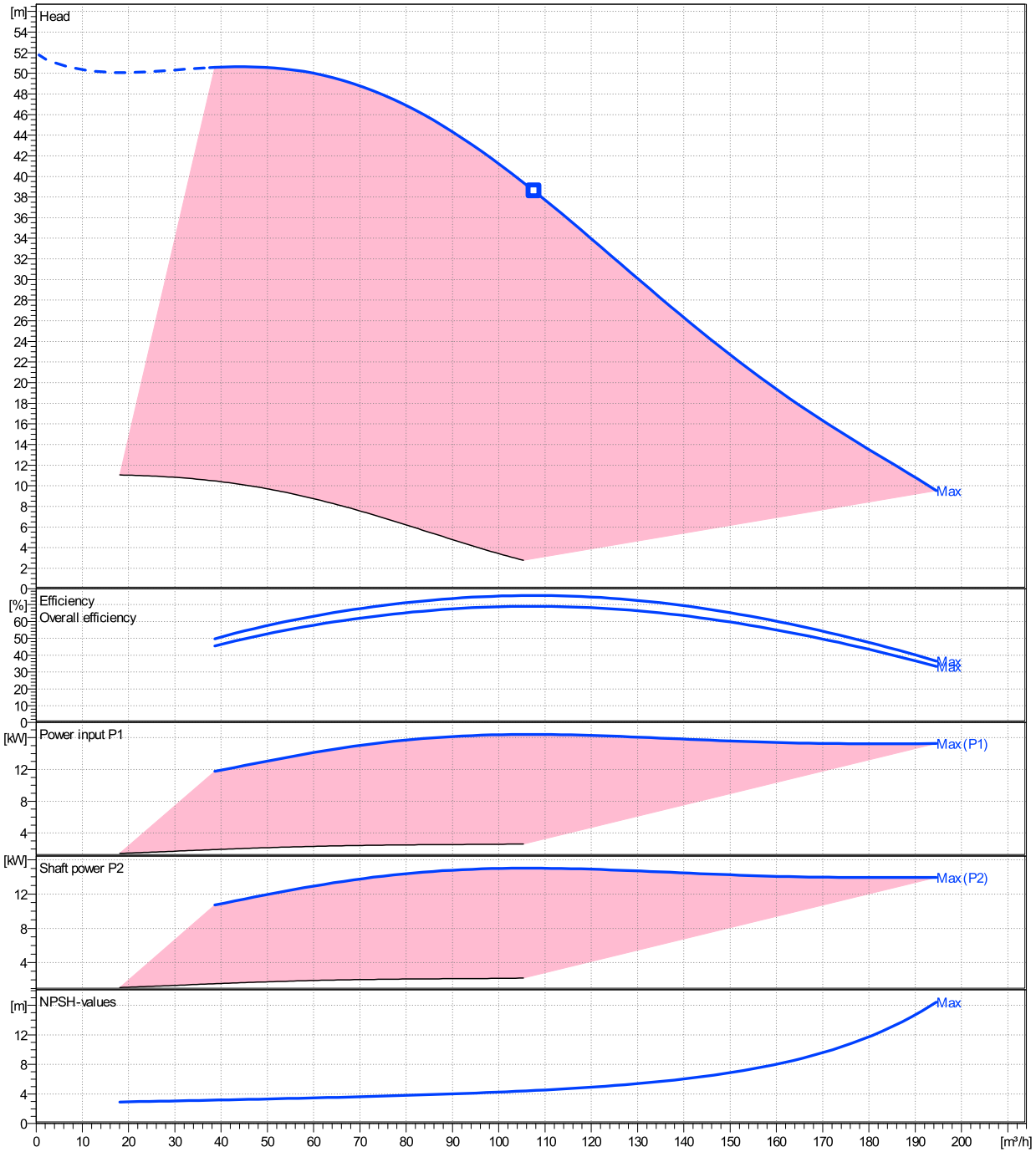
Ø	Pump capacity Operating range Min. m³/h	Max. m³/h	η Max. m³/h	Pump head H(Q=0) m	η Max. m
Max.	38.6	195	108	51.8	38.6

Frequency	Hz	50/60
Operating speed	rpm	
Nominal flow	m³/h	0
Nominal head	m	0
Inlet pressure	kPa	0
Static head	m	0

hydr. Performance acceptance acc. To EN ISO 9906 Class 3B

Power datas refered to:

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



Project	Xylect-20181891	Created by	Last update 6/17/2024
Block	LNTSX 80-520/150/204CC4	Created on 6/17/2024	

Program version: 74.0 - 20/05/2024 (Build 39)
Data version: 07/06/2024 09:31
User group(s): Xylem:United Kingdom - EXT

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LNTSX 80-520/150/204CC4

Dimensions

Company name
Contact
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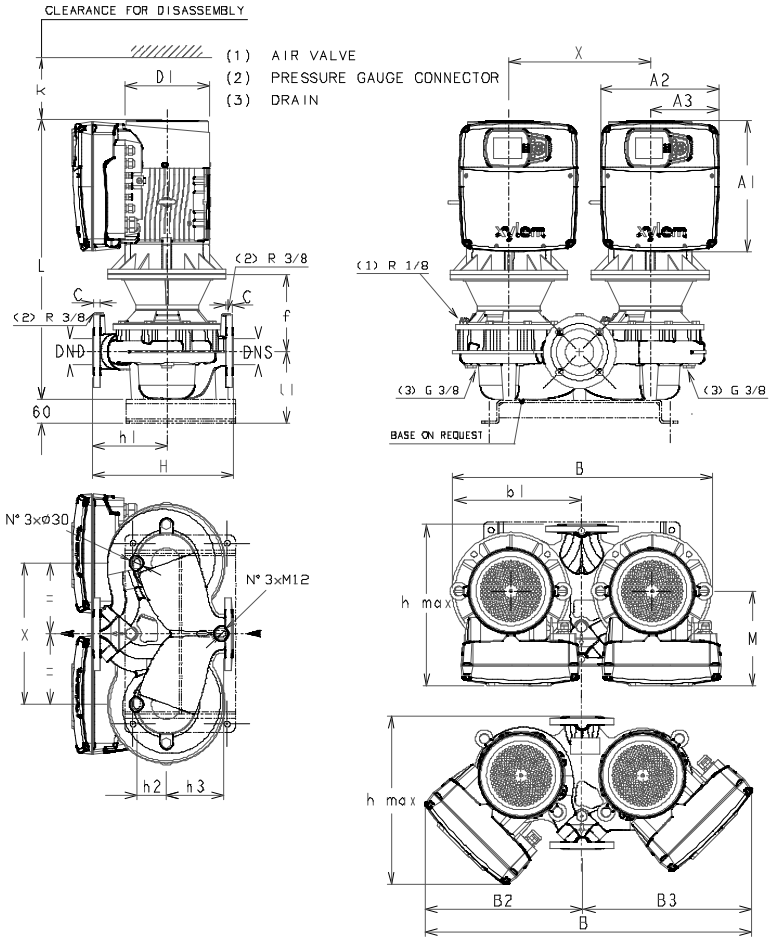
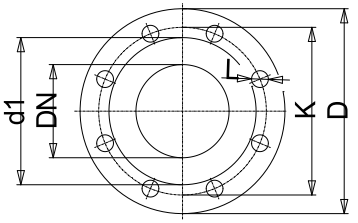
e-mail address

[X] - Hydrovar X+
EXM160B5/4.150DH2



Dimensions			[mm]
A1	400		
A2	362		
A3	205		
B	795		
b1	374		
D1	260		
DND	80		
DNS	80		
f	222		
H	420		
h1	235		
h2	80		
h3	110		
hmax	497		
IEC	160		
k	300		
L	835		
l1	133		
M	312		

Weight	
Total weight	**262.2 kg**



Note: Value D, C and d may vary from standard

Connections			
EN1092-2		**EN1092-2**	
DN80		**DN80**	
PN16		**PN16**	
C	22	C	22
D	200	D	200
d1	132	d1	132
K	160	K	160
L	8x19	L	8x19

Dimensions and weight without obligation

Project	**Xylect-20181891**	**Created by**		**Last update**	**6/17/2024**
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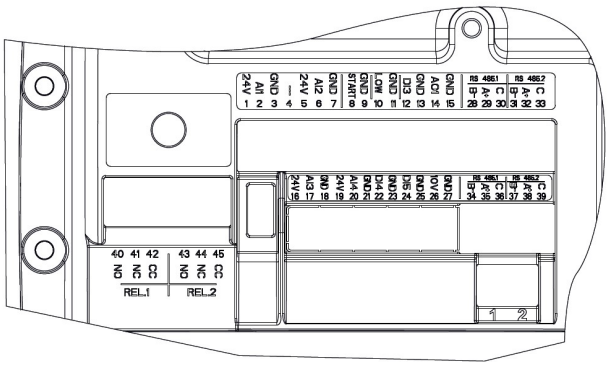

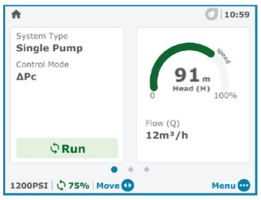

REF.	ITEM	DESCRIPTION	DEFAULT
1	Analog Input 1	Power supply +24 VDC, max. 60mA (total, terminals 1 + 5)	Pressure Sensor 1
2		Configurable Analog Input 1	
3		Electronic GND	
4	Not used	Internal use - Do not connect	
5	Analog Input 2	Power supply +24 VDC, max. 60mA (total, terminals 1 + 5)	Not used
6		Configurable Analog Input 2	
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	Analog Input 3	Power supply +24 VDC, max. 60mA (total, terminals 16 and 19)	Not used
17		Configurable Analog Input 3	
18		Electronic GND	
19	Analog Input 4	Power supply +24 VDC, max. 60mA (total, terminals 16 and 19)	Not used
20		Configurable Analog Input 4	
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	Communication bus 1	RS485 port 1: RS485-1B N (-)	Multipump
29		RS485 port 1: RS485-1A P (+)	
30		RS485 port 1: RS485-COM	
31	Communication bus 2	RS485 port 2: RS485-2B N (-)	Modbus
32		RS485 port 2: RS485-2A P (+)	
33		RS485 port 2: RS485-COM	
34	Communication bus 1	RS485 port 1: RS485-1B N (-)	Multipump
35		RS485 port 1: RS485-1A P (+)	
36		RS485 port 1: RS485-COM	
37	Communication bus 2	RS485 port 2: RS485-2B N (-)	Modbus
38		RS485 port 2: RS485-2A P (+)	
39		RS485 port 2: RS485-COM	
40	Relay 1	Configurable relay 1: Normally Open	Running
41		Configurable relay 1: Normally Closed	
42		Configurable relay 1: Common Contact	
43	Relay 2	Configurable relay 2: Normally Open	Error
44		Configurable relay 2: Normally Closed	
45		Configurable relay 2: Common Contact	