

LNESX 40-470/40/204CS4

Technical data

Company name
Contact
Phone number
e-mail address

Operating data

1	Pumpe type	In-Line single 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 448.5
13	Head H(Q=0)	m 46
14	Power input P1(max)	kW 4.6
15	Total weight	kg 51.7
16	Power input	kW
17	Overall efficiency	%
18	Shaft power	kW
19	Pump efficiency	%
20	NPSH 3%	m
21		

Materials

22		Pump		Shaft Seal
23	Volute Casing	Cast iron	Single mechanical seal, without shaft sleeve	
24	Casing Cover	Cast iron	eMG12 - Ø22mm	BQ7EGG-WA
25	Impeller	Stainless steel / AISI 316L		
26	Stub shaft	Stainless steel / AISI 316L	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 drain plugs	Nickel-plated brass	5. Others	EPDM - WRAS
31			Gaskets of the pump	Ethylene propylene rubber (EPDM)
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Motor data

42	Manufacturer	Xylem	Rated voltage	380-480V
43	Specific design	IE5 Three phase motor	Rated current	7,7-6,6 A
44	Type	EXM112B5/4.040BH2	Motor efficiency @400V %	4/4: 88.5 3/4: 88.6 2/4: 87.3
45	Rated power	4 kW	Power factor @400V	0.9
46	Nominal speed	3600 rpm	Weight	kg 24.7
47	Frame size	112		
48	Size	B		

Remarks

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Project	Xylect-22288272	Created by		Last update	5/14/2024
Block	LNESX 40-470/40/204CS4	Created on	5/14/2024		

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Performance curve

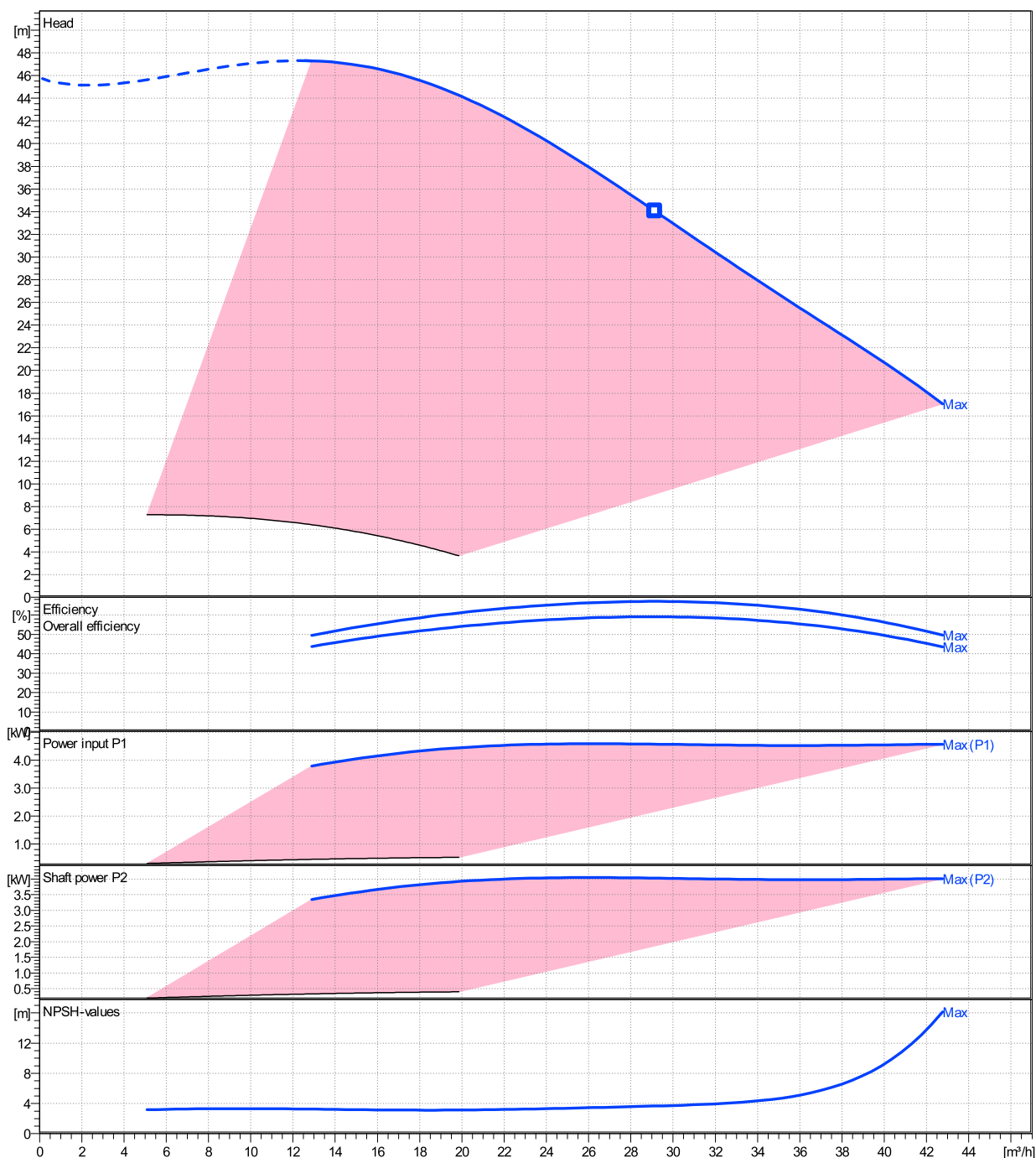
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Ø	Pump capacity			Pump head					Frequency	Hz	50/60
	Operating range	Min.	Max.	η	H(Q=0)				Operating speed	rpm	
	m³/h	m³/h	m³/h		m				Nominal flow	m³/h	0
Max.	12.9	42.8	29.1	45.7	34				Nominal head	m	0
									Inlet pressure	kPa	0
									Static head	m	0

Power datas referred to:

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

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

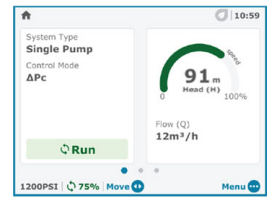
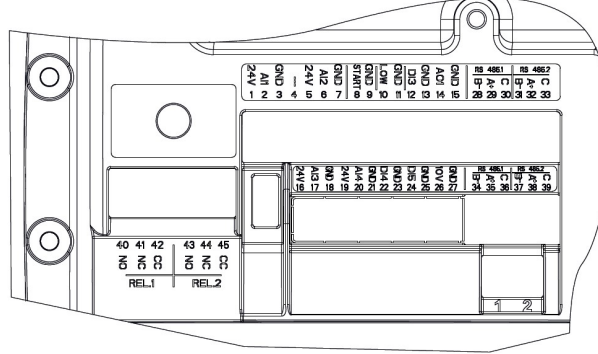


EN1092-2		EN1092-2	
DN40		DN40	
PN16		PN16	
C	18	C	18
D	150	D	150
d1	84	d1	84
K	110	K	110
L	4x19	L	4x19

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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	