

ESHF 80-160/15/P45RSNA

Technical data

Company name
Contact
Phone number
e-mail address

Operating data			
1	Pumpe type	Single head pump	Fluid Water, pure
2	No. of pumps	1	Operating temperature t A °C 4
3	Nominal flow	m³/h 0	Max / Min Operating Temperature mech. Seal °C 120 / -10
4	Nominal head	m 0	pH-value at t A 7
5	Static head	m 0	Density at t A kg/m³ 1000
6	Inlet pressure	kPa 0	Kin. viscosity at t A mm²/s 1.569
7	Environmental temperature	°C 20	Vapor pressure at t A kPa 100
8	Available system NPSH	m 0	Altitude 0

Pump data			
9	Lubrication	Standard, Grease lubrication [Std]	
10	Execution	Unit with standard coupling	
11	Design	Horizontal	
12	Operating speed	1450 rpm	Stages 1
13	Suction nozzle	DN 100 / PN 16 / EN1092-1	Impeller Ø
14	Discharge nozzle	DN 80 / PN 16 / EN1092-1	
15	Max. casing pressure	kPa 1200	Flow
16	Max. working pressure	kPa 78.5	
17	Impeller type	Radial impeller	
18	Head H(Q=0)	m 8	Head
19	Max. shaft power	kW 1.3	
20	Pump weight	kg	Shaft power kW
21	Total weight	kg 127.0	Efficiency %
			NPSH 3% m

Materials			
22		Pump	Shaft Seal
23	Pump body	Stainless steel / AISI 316L	Single mechanical seal, without shaft sleeve
24	Impeller	Stainless steel / ASTMCF8M	Uniten 3K VBVGG
25	SEAL HOUSING	Stainless steel / AISI 316L	Mechanical seal diameter 28 mm
26	Wear ring	Stainless steel / AISI 316L	1. Rotating ring Ceramic
27	Counterwear ring	Stainless steel / AISI 316L	2. Stationary ring Carbon graphite resin impregnated
28	Shaft extension	Stainless steel / AISI 316L	3. Secondary seal Fluorine rubber (FKM)
29	Impeller locknut and washer	Stainless steel / AISI 316	4. Springs CrNiMo - Steel
30	Tab	Stainless steel / AISI 316L	5. Others CrNiMo - Steel
31	Fill/drain plugs	Stainless steel / AISI 316	Gaskets of the pump Fluorine rubber (FKM)
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Motor data				Coupling			
42	Manufacturer	Lowara		Manufacturer	Not applicable		
43	Specific design	IE3 3ph Surface Motor - Premium Efficiency		Series	Not applicable		
44	Type	PLM 90 B3 1,5 kW		Shaft diameter	Pump 0 mm	Motor 24 mm	
45	Rated power	1.5 kW	Rated current 3.7 A	Frame size	Not applicable		
46	Nominal speed	1440 rpm	Rated voltage 400 V	Spacer length	mm	Not applicable	
47	Frame size	90	Service factor 1	Weight	kg		
48	Weight	kg 23.0	Degree of protection IP55	Coupling protection	Not applicable		

Base plate			Remarks			
49	Name	Not applicable				
50	Weight	kg				

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Performance curve

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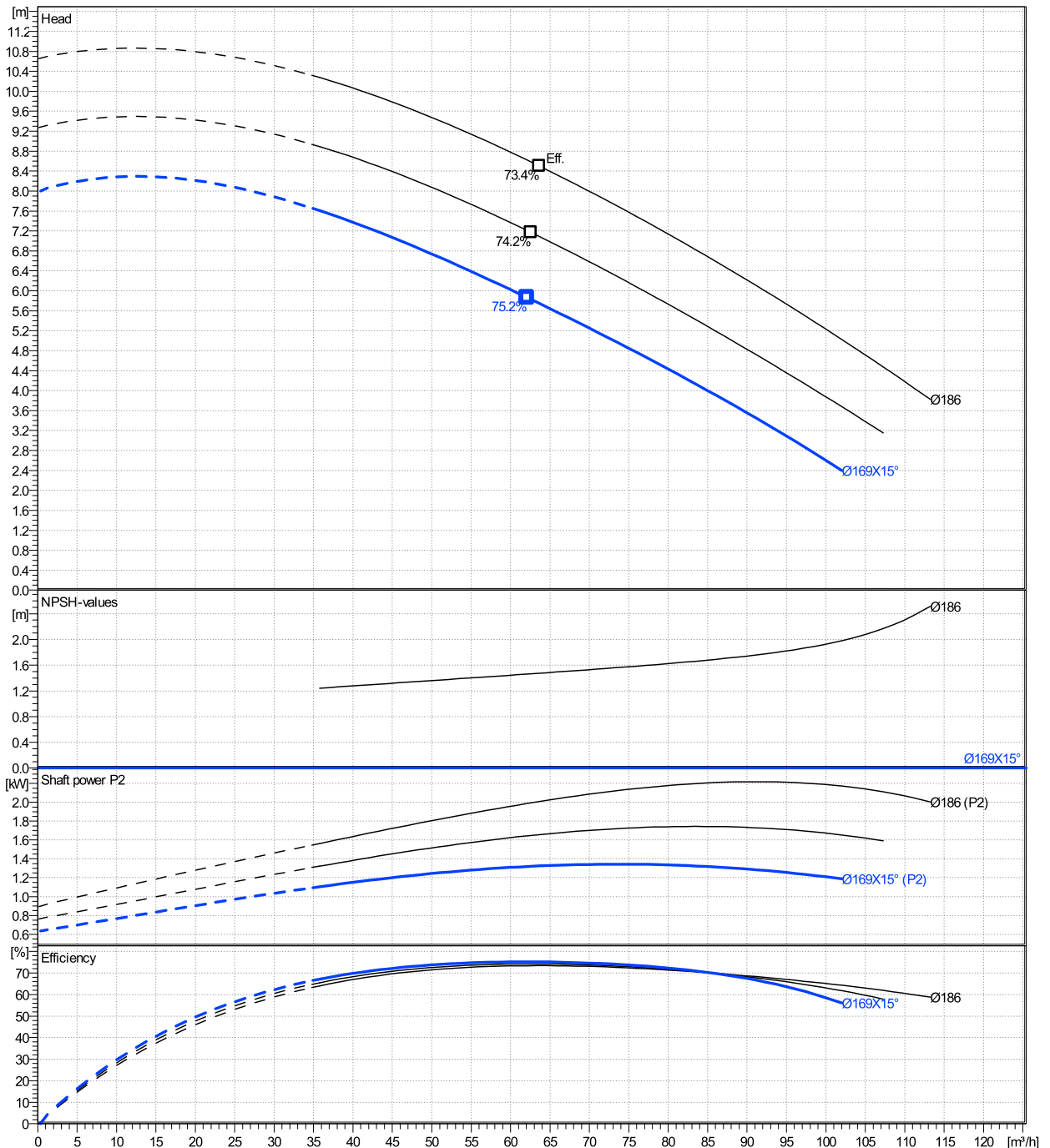
	Ø mm	Pump capacity			Pump head		Shaft power P2			Frequency	Hz	50
		Operating range Min. m³/h	Max. m³/h	η Max. m³/h	H(Q=0) m	η Max. m	P2(Q=0) kW	Max. kW	η Max. kW	Operating speed	rpm	1450
actual	169	36	102	62.1	8	5.86		1.34	1.32	Nominal flow	m³/h	0
Min.	0	/	/	62.1	8	5.86		/	1.32	Nominal head	m	0
Max.	186	/	/	63.6	10.7	8.5		/	2.01	Inlet pressure	kPa	0
										Static head	m	0

Power datas referred to:

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

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

MEI: N.A - according to Ecodesign Directive 2009/125/EC and Regulation (EU) No.547/2012



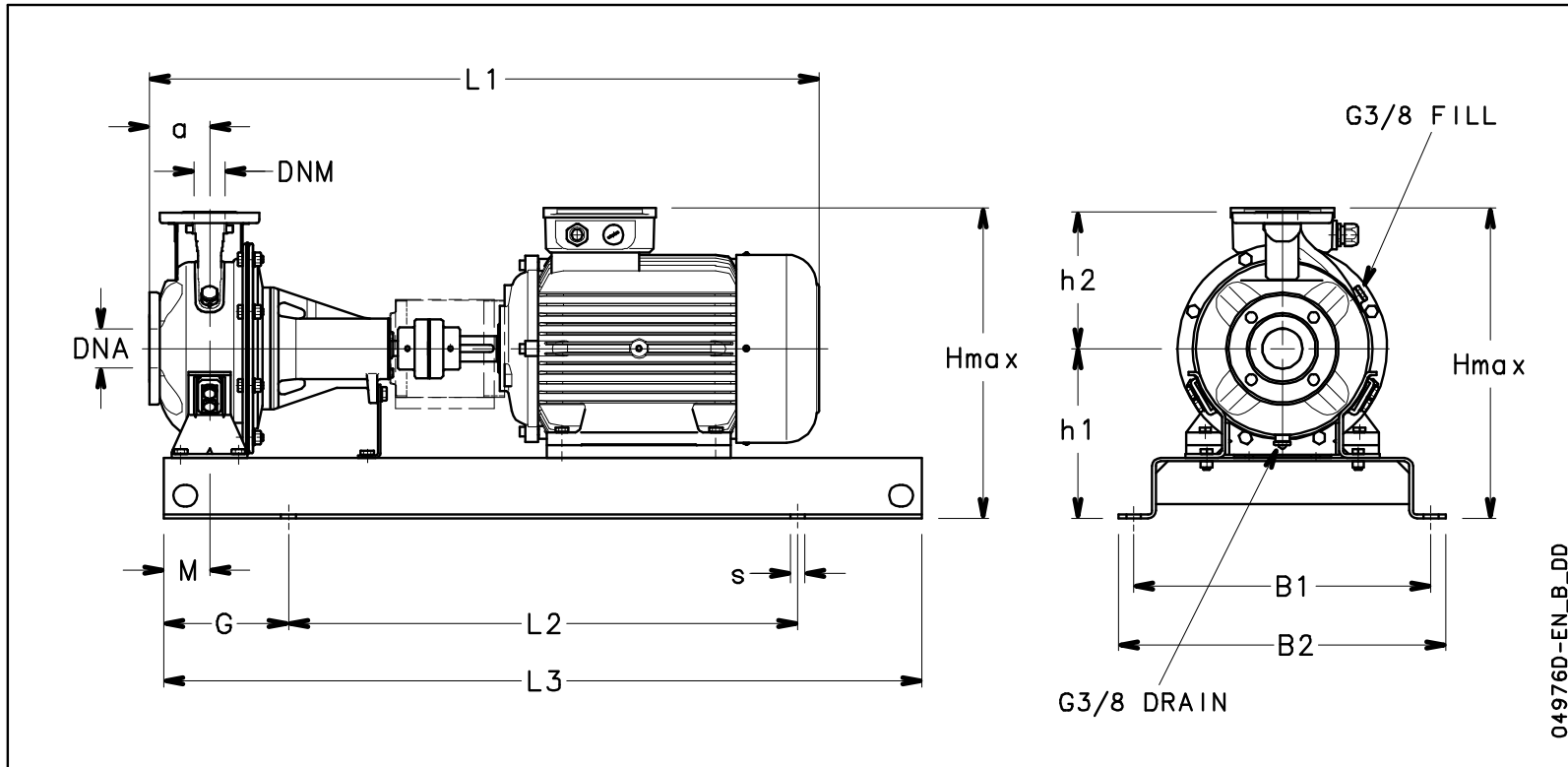
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Dimensions

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Frame mounted
Unit with standard coupling
PLM 90 B3 1,5 kW

Electrical and dimensional data refer to IE3 motor



Dimensions [mm]

a	125
B1	400
B2	450
Coupling Type	48
DNA	100
DNM	80
G	170
h1	280
h2	225
Hmax	505
L1	836
L2	660
L3	1000
M	75
Sscrews	M20

Weight

Total weight	127 kg
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Connections

Suction nozzle		Discharge nozzle	
DN 100		DN 80	
PN 16		PN 16	
EN1092-1		EN1092-1	
D	225	D	200
Dia. Holes	18	Dia. Holes	18
DN	100	DN	80
G	142	G	114
M	180	M	160
Max thickness	20	Max thickness	20

Dimensions and weight without obligation

Project	Xylect-20123150	Created by		Last update	12/19/2024
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