

ESHF 32-250/11/P45RSSA

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	m ³ /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/m ³	1000
6	Inlet pressure	kPa	0	Kin. viscosity at t A	mm ² /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				Impeller Ø	
12	Operating speed	1450 rpm	Stages	1		Max. mm 244	
13	Suction nozzle	DN 50 /	PN 16 /	EN1092-1		designed mm 223	
14	Discharge nozzle	DN 32 /	PN 16 /	EN1092-1		Min. mm 203	
15	Max. casing pressure	kPa	1200			Flow	
16	Max. working pressure	kPa	160.8				Nominal m ³ /h
17	Impeller type	Radial impeller				Head	
18	Head H(Q=0)	m	16				at Qmax m 9.6
19	Max. shaft power	kW	.9				at Qmin m 16.1
20	Pump weight	kg				Shaft power kW	
21	Total weight	kg	106.0			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 / AISI 316L			Uniten 3K	VBVGG
25	SEAL HOUSING	Stainless steel / AISI 316L			Mechanical seal diameter	22 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				Electrical and dimensional data refer to IE3 motor				Coupling			
42	Manufacturer	Lowara				Manufacturer	Not applicable				
43	Specific design	IE3 3ph Surface Motor - Premium Efficiency				Series	Not applicable				
44	Type	PLM 90 B3 1,1 kW				Shaft diameter	Pump	0 mm	Motor	24 mm	
45	Rated power	1.1 kW	Rated current	2.65 A		Frame size	Not applicable				
46	Nominal speed	1435 rpm	Rated voltage	400 V		Spacer length	mm	Not applicable			
47	Frame size	90	Service factor	1		Weight	kg				
48	Weight	kg	16.6	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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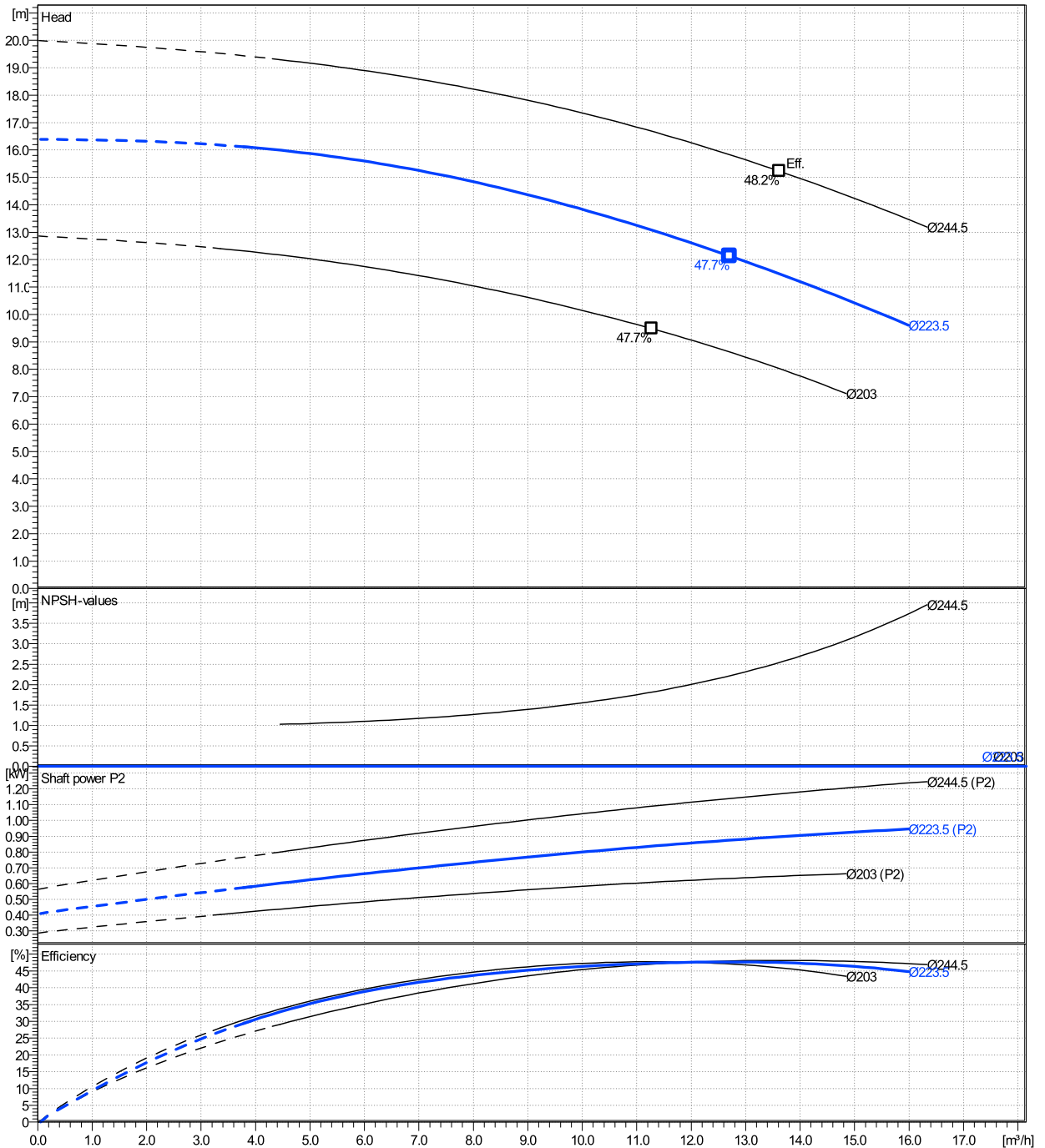
	Ø mm	Pump capacity			Pump head		Shaft power P2			Frequency		Hz	50
		Operating range Min. m³/h	Max. m³/h	η Max. m³/h	H(Q=0) m	η Max. m	P2(Q=0) kW	Max. kW	η Max. kW	Operating speed rpm	1450		
actual	223	3.93	16	12.7	16.4	12.1		0.945	0.875	Nominal flow	m³/h	0	
Min.	0	/	/	11.3	12.9	9.48		/	0.608	Nominal head	m	0	
Max.	244	/	/	13.6	20	15.2		/	1.17	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



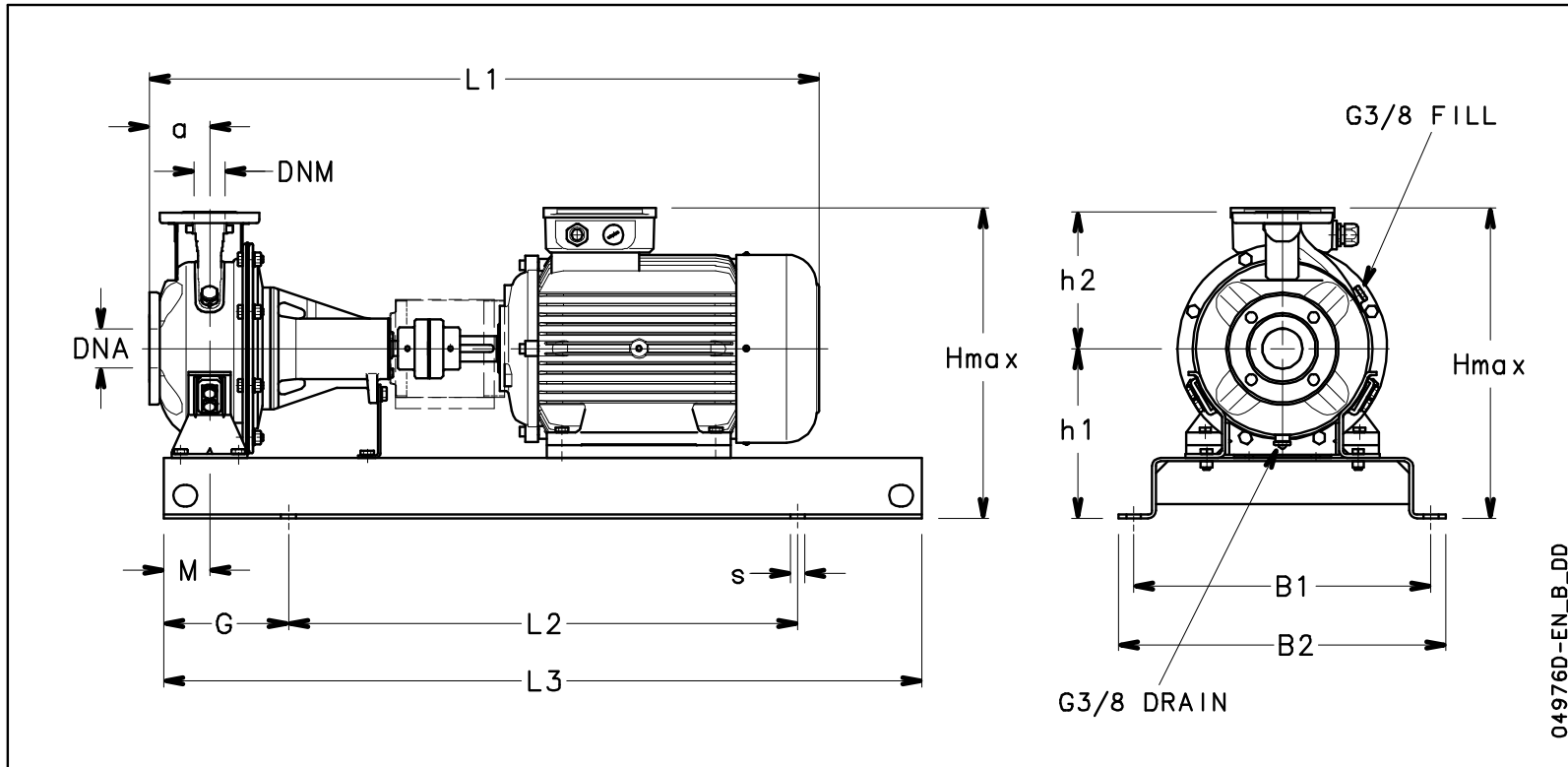
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Dimensions

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

Electrical and dimensional data refer to IE3 motor



Dimensions [mm]

a	100
B1	400
B2	450
Coupling Type	3
DNA	50
DNM	32
G	170
h1	280
h2	225
Hmax	505
L1	811
L2	660
L3	1000
M	75
Sscrews	M20

Weight

Total weight	106 kg
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Connections

Suction nozzle	Discharge nozzle
DN 50	DN 32
PN 16	PN 16
EN1092-1	EN1092-1
D 165	D 140
Dia. Holes 18	Dia. Holes 18
DN 50	DN 32
G 83	G 64
M 125	M 100
Max thickness 16	Max thickness 16

Dimensions and weight without obligation

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