

ESHF 25-250/15/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	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			Impeller Ø	Max.	mm	244		
11	Design	Horizontal				designed	mm	244		
12	Operating speed	1450 rpm	Stages	1		Min.	mm	203		
13	Suction nozzle	DN 50	/	PN 16	/	EN1092-1	Nominal	m³/h		
14	Discharge nozzle	DN 25	/	PN 16	/	EN1092-1	Flow	Max-	m³/h	16.5
15	Max. casing pressure	kPa	1200				Min-	m³/h	4.5	
16	Max. working pressure	kPa	200					Nominal	m	
17	Impeller type		Radial impeller			Head	at Qmax	m	12.8	
18	Head H(Q=0)	m	20				at Qmin	m	19.7	
19	Max. shaft power	kW	1.3			Shaft power	kW			
20	Pump weight	kg				Efficiency	%			
21	Total weight	kg	108.0			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
25	SEAL HOUSING	Stainless steel / AISI 316L		Mechanical seal diameter
26	Wear ring	Stainless steel / AISI 316L		1. Rotating ring
27	Counterwear ring	Stainless steel / AISI 316L		2. Stationary ring
28	Shaft extension	Stainless steel / AISI 316L		3. Secondary seal
29	Impeller locknut and washer	Stainless steel / AISI 316		4. Springs
30	Tab	Stainless steel / AISI 316L		5. Others
31	Fill/drain plugs	Stainless steel / AISI 316		Gaskets of the pump
32				
33				
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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 1,5 kW	Shaft diameter	Pump 0 mm Motor 24 mm
45	Rated power	1.5 kW	Rated current	3.7 A
46	Nominal speed	1440 rpm	Rated voltage	400 V
47	Frame size	90	Service factor	1
48	Weight	kg 23.0	Degree of protection	IP55
			Coupling protection	Not applicable

Base plate

49	Name	Not applicable	Remarks
50	Weight	kg	

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Performance curve

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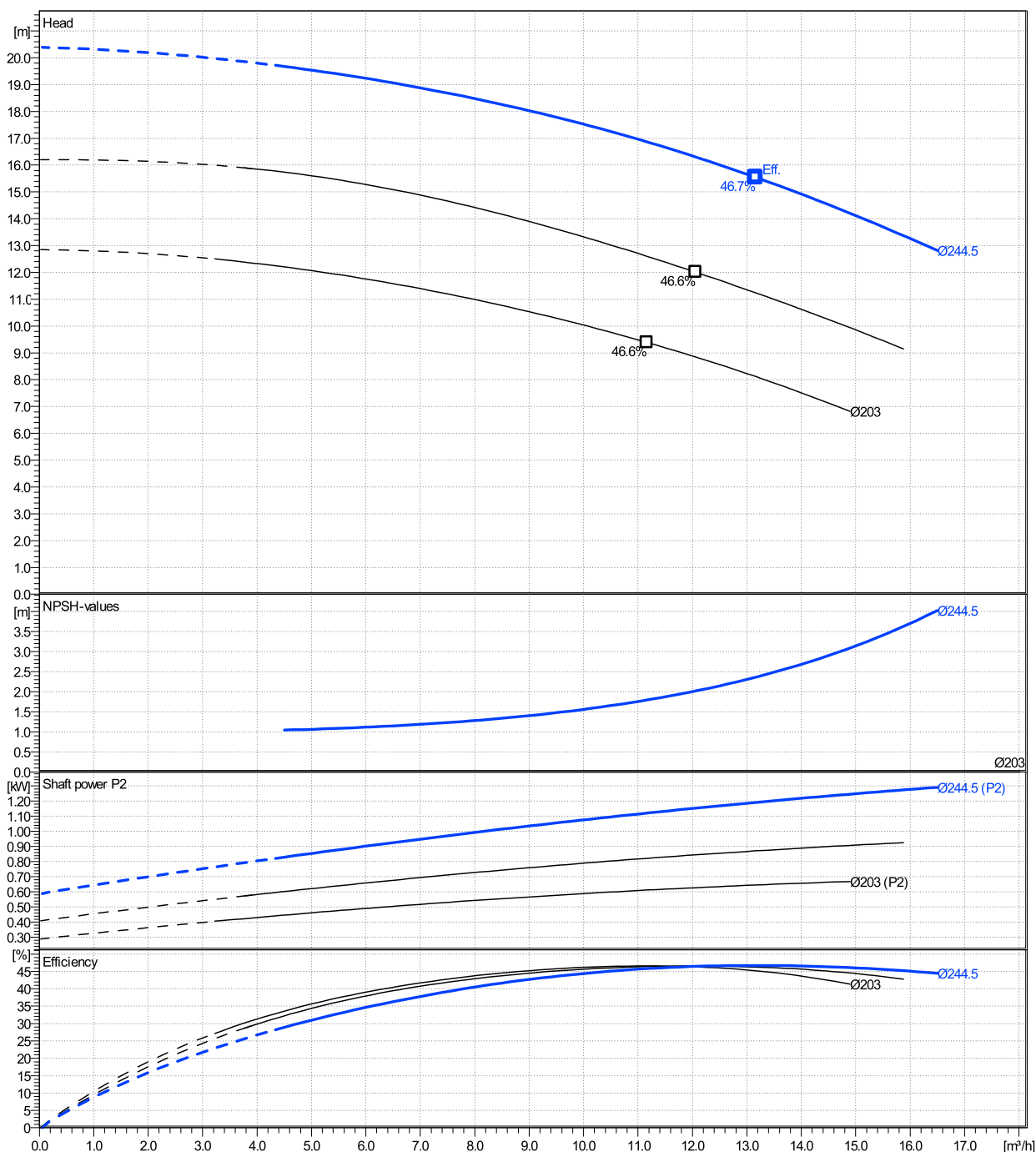
	Ø mm	Pump capacity Operating range			Pump head		Shaft power P2			Frequency		Hz
		Min. m³/h	Max. m³/h	η Max. m³/h	H(Q=0) m	η Max. m	P2(Q=0) kW	Max. kW	η Max. kW	Operating speed	rpm	
actual	244	4.5	16.5	13.2	20.4	15.5		1.29	1.19	Nominal flow	m³/h	0
Min.	0	/	/	11.2	12.8	9.39		/	0.612	Nominal head	m	0
Max.	244	/	/	13.2	20.4	15.5		/	1.19	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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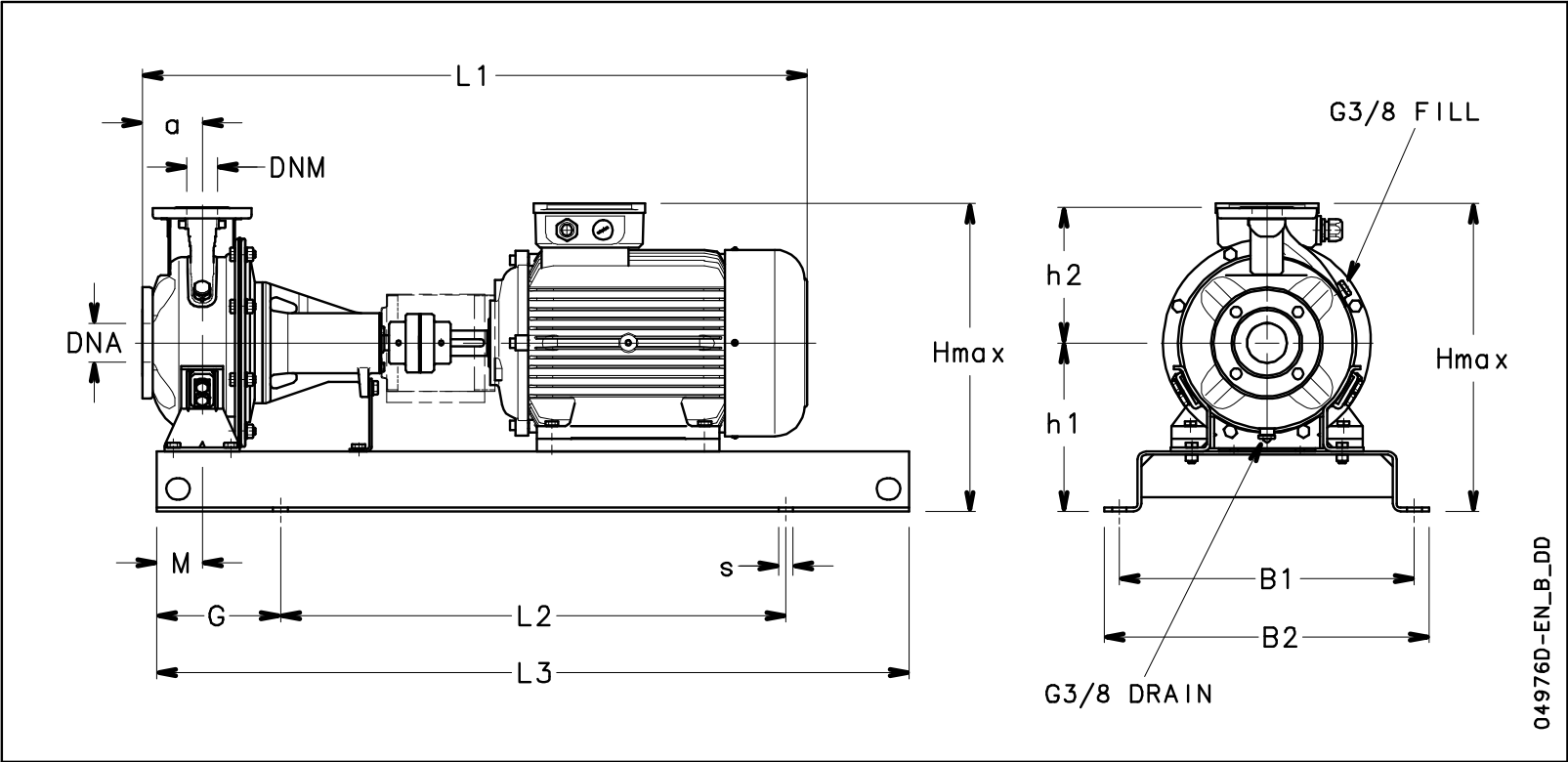
Dimensions

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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	100		
B1	400		
B2	450		
Coupling Type	A3		
DNA	50		
DNM	25		
G	170		
h1	280		
h2	225		
Hmax	505		
L1	811		
L2	660		
L3	1000		
M	75		
Sscrews	M20		
Weight			
Total weight		108 kg	
Connections			
Suction nozzle		Discharge nozzle	
DN 50		DN 25	
PN 16		PN 16	
EN1092-1		EN1092-1	
D	165	D	115
Dia. Holes	18	Dia. Holes	18
DN	50	DN	25
G	83	G	56
M	125	M	85
Max thickness	165	Max thickness	165



Dimensions and weight without obligation

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