

ESHF 40-125/22/P25RSSA**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	2900 rpm	Stages	1	Impeller Ø	Max. mm 133
13	Suction nozzle	DN 65 / PN 16 / EN1092-1				designed mm 133
14	Discharge nozzle	DN 40 / PN 16 / EN1092-1				Min. mm 112
15	Max. casing pressure	kPa 1200				Nominal m³/h
16	Max. working pressure	kPa 230				Max- m³/h 45
17	Impeller type	Radial impeller				Min- m³/h 18
18	Head H(Q=0)	m 23				Nominal m
19	Max. shaft power	kW 2.1				at Qmax m 10.2
20	Pump weight	kg				at Qmin m 21.1
21	Total weight	kg 77.0				Head
						Shaft power kW
						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)
32				
33				
34				
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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 2,2 kW		Shaft diameter	Pump 0 mm	Motor 24 mm
45	Rated power	2.2 kW	Rated current	7.9 A	Frame size	Not applicable
46	Nominal speed	2880 rpm	Rated voltage	230 V	Spacer length	mm Not applicable
47	Frame size	90	Service factor	1	Weight	kg
48	Weight	kg 18.5	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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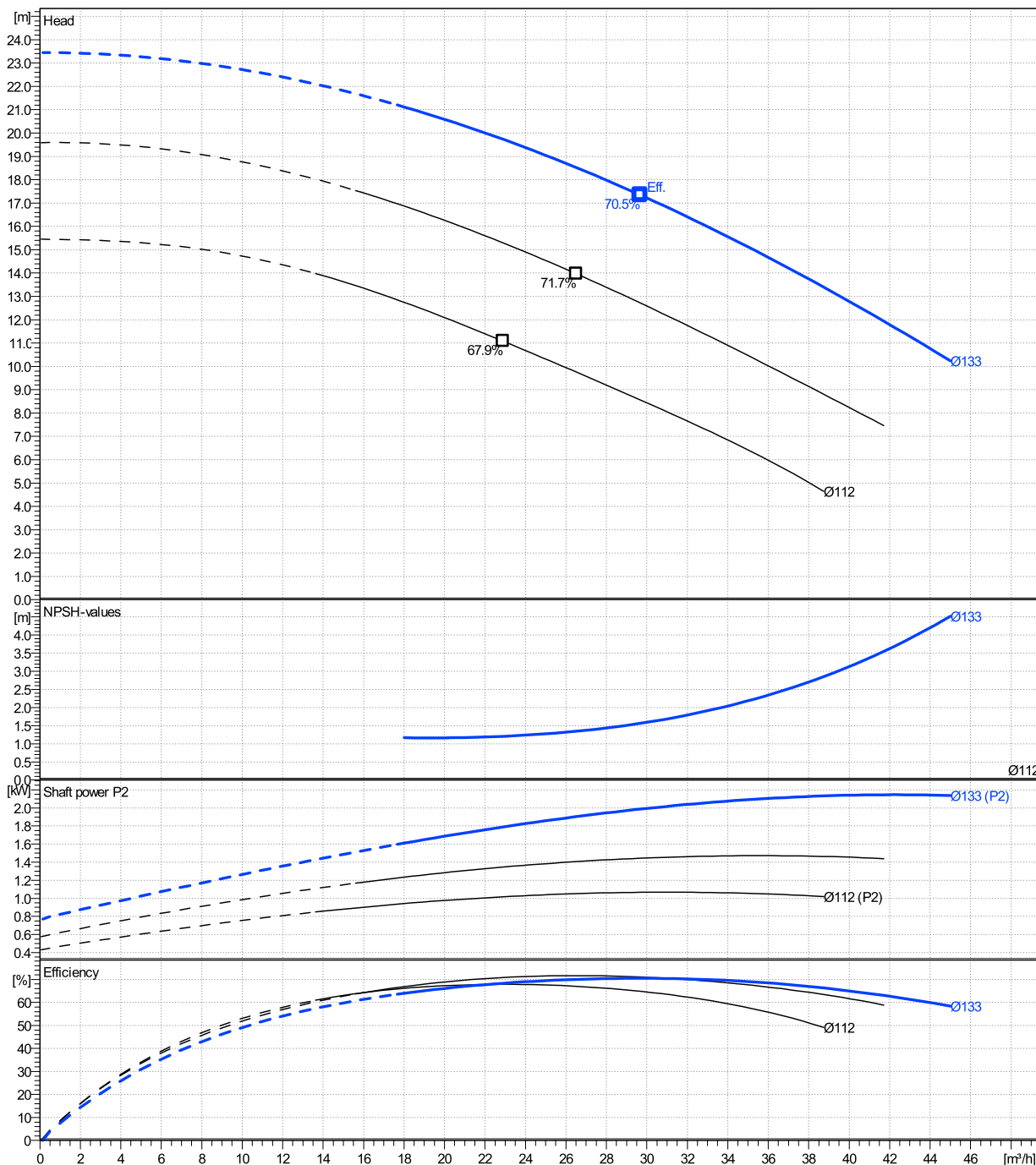
	Ø mm	Pump capacity Operating range			Pump head		Shaft power P2			Frequency		Hz
		Min. m³/h	Max. m³/h	η Max. m³/h	H(Q=0) m	η Max. m	P2(Q=0) kW	Max. kW	η Max. kW	Operating speed	rpm	
actual	133	18	45	29.7	23.4	17.3		2.15	1.99	Nominal flow	m³/h	0
Min.	0	/	/	22.9	15.5	11.1		/	1.02	Nominal head	m	0
Max.	133	/	/	29.7	23.4	17.3		/	1.99	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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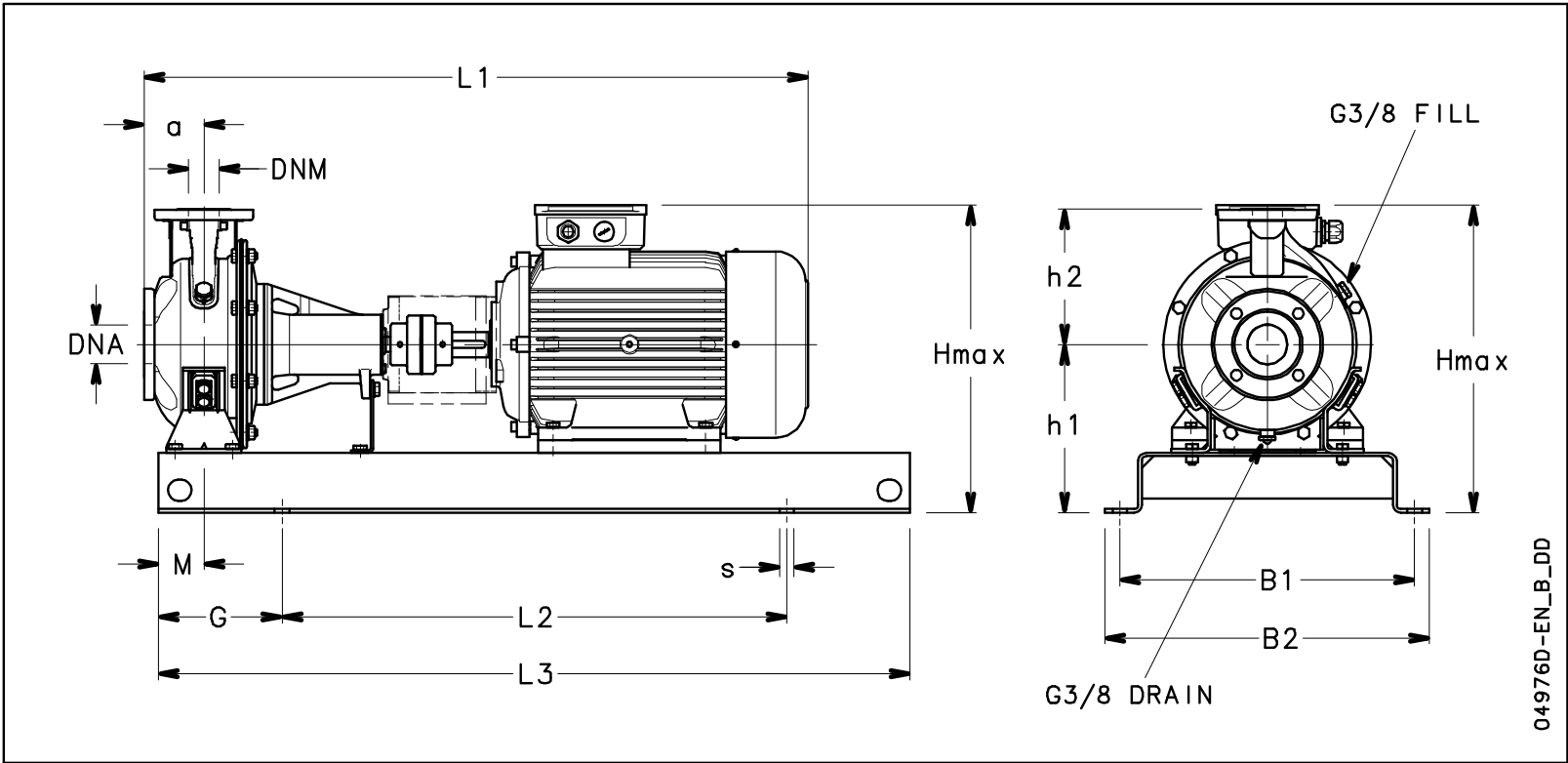
Frame mounted
Unit with standard coupling
PLM 90 B3 2,2 kW

Electrical and dimensional data refer to IE3 motor

Dimensions		[mm]	
a	80		
B1	350		
B2	390		
Coupling Type	A3		
DNA	65		
DNM	40		
G	150		
h1	212		
h2	140		
Hmax	352		
L1	791		
L2	600		
L3	900		
M	60		
Sscrews	M16		

Weight	
Total weight	77 kg

Connections			
Suction nozzle		Discharge nozzle	
DN 65		DN 40	
PN 16		PN 16	
EN1092-1		EN1092-1	
D	185	D	150
Dia. Holes	18	Dia. Holes	18
DN	65	DN	40
G	104	G	68
M	145	M	110
Max thickness	16	Max thickness	16



Dimensions and weight without obligation

Project	Xylect-20123150	Created by		Last update	12/19/2024
Block	ESHF 40-125/22/P25RSSA	Created on	12/19/2024		