

ESHS 50-250/22/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					
11	Design	Horizontal		Impeller Ø	Max.	mm 250
12	Operating speed	1450 rpm	Stages 1		designed	mm 237
13	Suction nozzle	DN 65 /	PN 16 /		Min.	mm 224
14	Discharge nozzle	DN 50 /	PN 16 /	Flow	Nominal	m³/h
15	Max. casing pressure	kPa 1200			Max-	m³/h 43.5
16	Max. working pressure	kPa 190.4			Min-	m³/h 18
17	Impeller type	Radial impeller		Head	Nominal	m
18	Head H(Q=0)	m 19			at Qmax	m 10.9
19	Max. shaft power	kW 2.1			at Qmin	m 17.8
20	Pump weight	kg		Shaft power	kW	
21	Total weight	kg 59.0		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	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	Rigid shaft coupling	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

42	Manufacturer	Lowara PLM			
43	Specific design	IE3 3ph Flange Motor - Premium Efficiency			
44	Type	PLM 100 B5 2,2 kW			
45	Rated power	2.2 kW	Rated current	4.64 A	
46	Nominal speed	1445 rpm	Rated voltage	400 V	
47	Frame size	100	Service factor	1	
48	Weight	kg 32.0	Degree of protection	IP55	

Remarks

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Project	Xylect-20117698	Created by		Last update	12/18/2024
Block	ESHS 50-250/220/P25VSSA	Created on	12/18/2024		

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Performance curve

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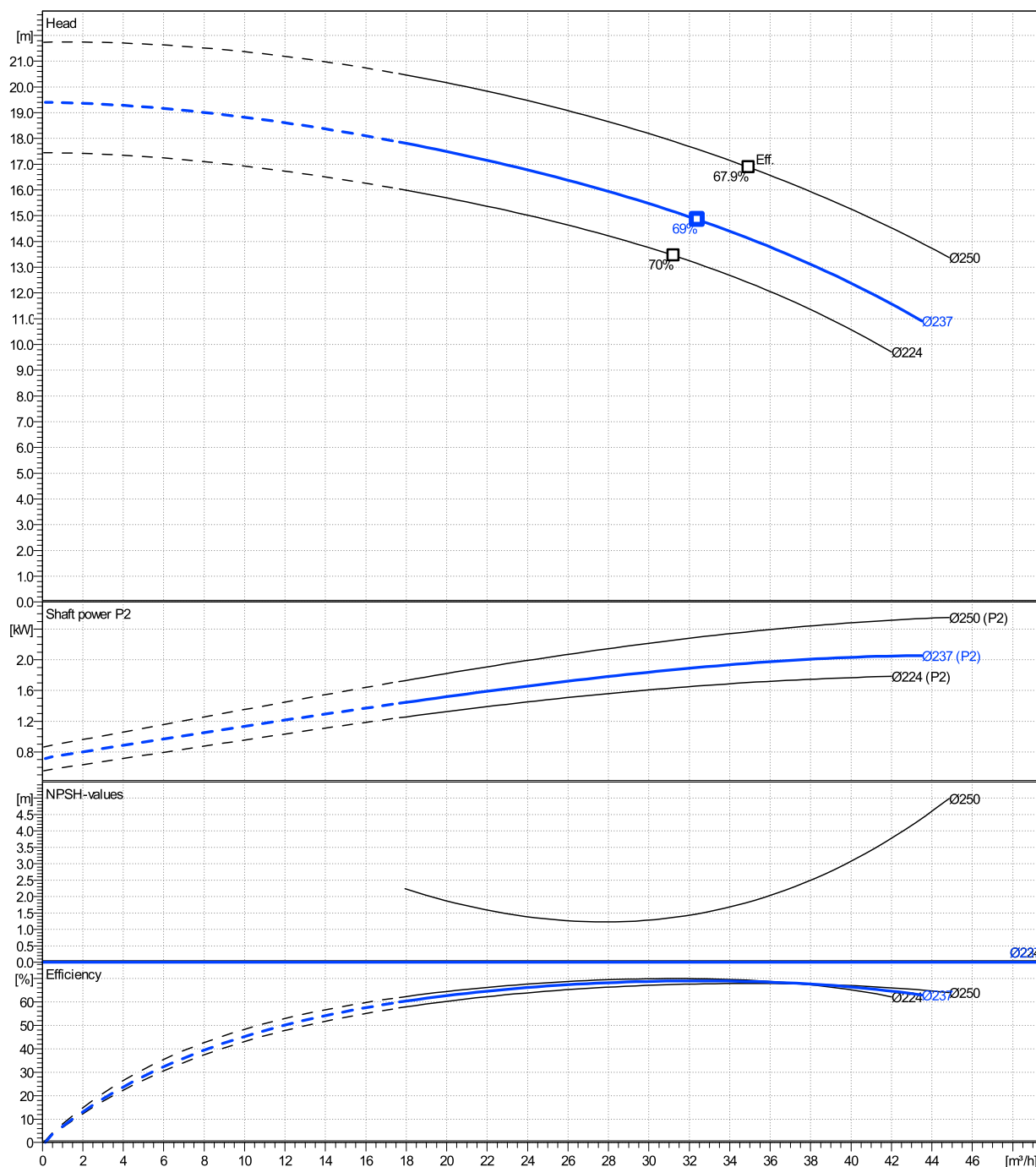
	Ø mm	Pump capacity Operating range Min. Max. η m³/h m³/h m³/h			Pump head H(Q=0) η m m		Shaft power P2 P2(Q=0) Max. η kW kW kW			Frequency Hz 50		
		Min. m³/h	Max. m³/h	η m³/h	H(Q=0) m	η m	P2(Q=0) kW	Max. kW	η kW	Operating speed rpm	1450	
actual	237	18	43.5	32.4	19.4	14.8		2.06	1.9	Nominal flow m³/h	0	
Min.	0	/	/	31.2	17.4	13.4		/	1.64	Nominal head m	0	
Max.	250	/	/	34.9	21.7	16.9		/	2.37	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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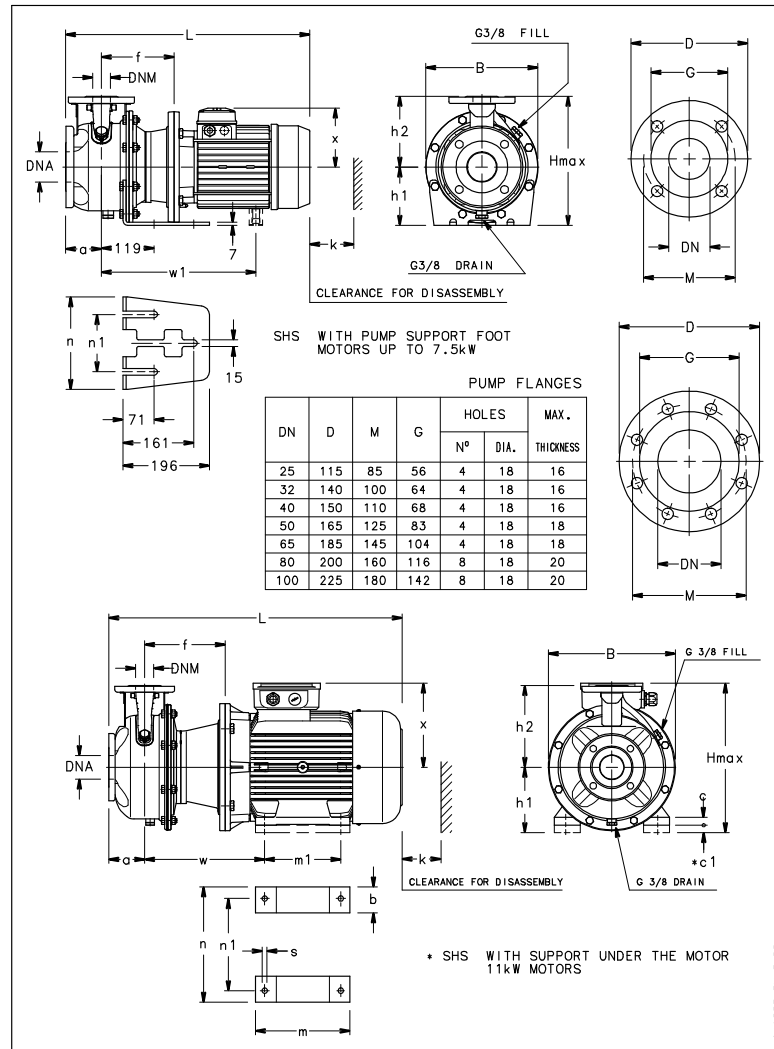
Dimensions

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Rigid coupling

PLM 100 B5 2,2 kW

Electrical and dimensional data refer to IE3 motor



Dimensions [mm]

a	100
B	345
DNA	65
DNM	50
f	165
h1	180
h2	225
Hmax	405
k	107
L	587
n	265
n1	130
x	168

Weight

Total weight	59 kg
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Connections

Suction nozzle	Discharge nozzle
DN 65	DN 50
PN 16	PN 16
EN1092-1	EN1092-1
D	185
Dia. Holes	18
DN	65
G	104
M	145
Max thickness	18
D	165
Dia. Holes	18
DN	50
G	83
M	125
Max thickness	18

Dimensions and weight without obligation

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Created on 12/18/2024

Last update 12/18/2024