

ESHF 80-250/550/L25VSNA

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	2900 rpm	Stages	1		Max. mm 270
13	Suction nozzle	DN 100 /	PN 16 /	EN1092-1		designed mm 252
14	Discharge nozzle	DN 80 /	PN 16 /	EN1092-1		Min. mm 237
15	Max. casing pressure	kPa	1200			Flow
16	Max. working pressure	kPa	940.9			
17	Impeller type	Radial impeller				Head
18	Head H(Q=0)	m	96			
19	Max. shaft power	kW	52.6			at Qmin m 93.1
20	Pump weight	kg				Shaft power kW
21	Total weight	kg	601.0			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	33 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			
Electrical and dimensional data refer to IE3 motor							
42	Manufacturer	Lowara		Manufacturer	Not applicable		
43	Specific design	IE3 3ph Surface Motor - Premium Efficiency		Series	Not applicable		
44	Type	3MGS 250 M B3 55 kW		Shaft diameter	Pump	0 mm	Motor 60 mm
45	Rated power	55 kW	Rated current	92.5 A	Frame size	Not applicable	
46	Nominal speed	2975 rpm	Rated voltage	400 V	Spacer length	mm	Not applicable
47	Frame size	250 M	Service factor	1	Weight	kg	
48	Weight	kg	418.4	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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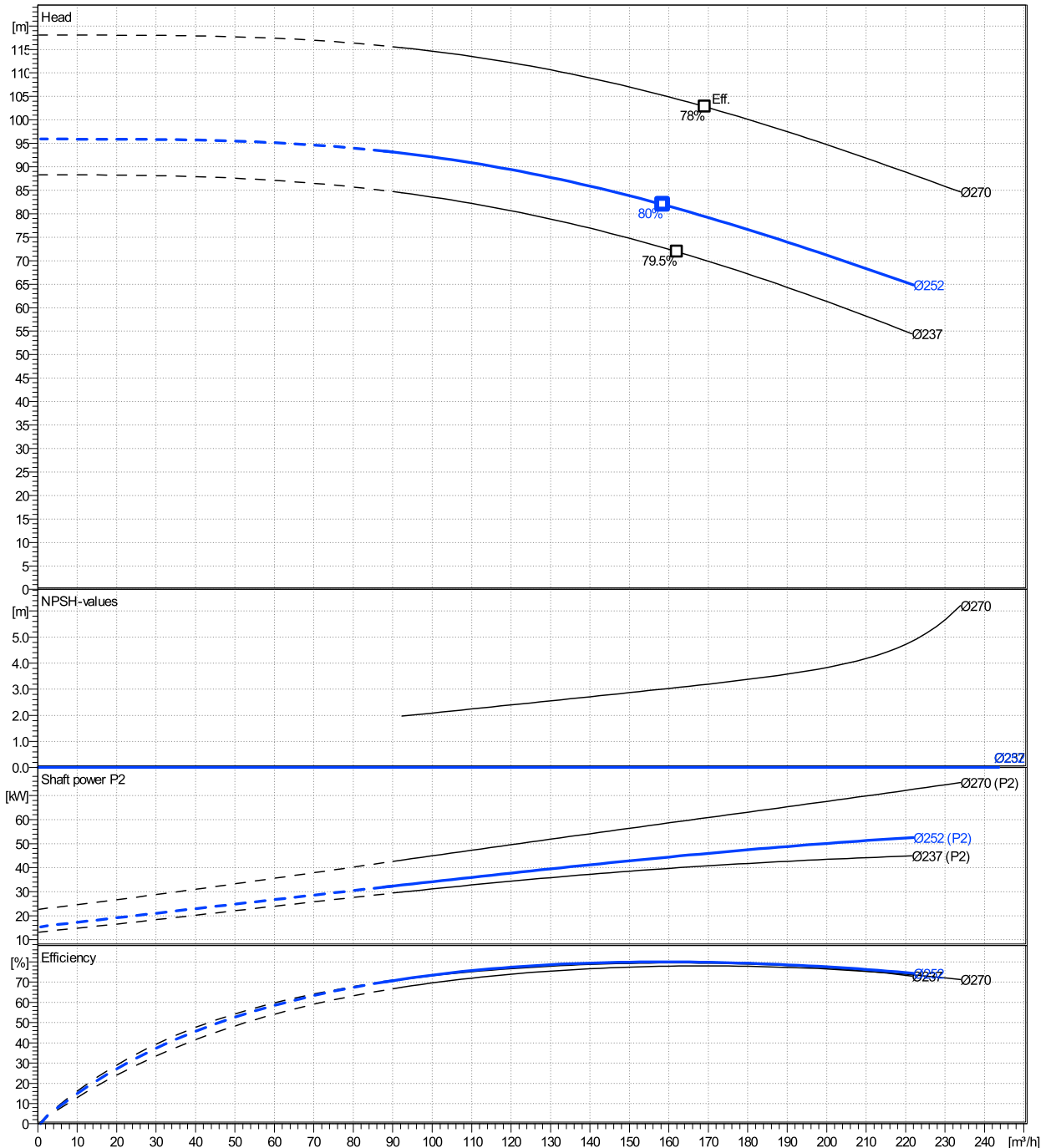
	Ø mm	Pump capacity			Pump head		Shaft power P2			Frequency		
		Operating range Min. m³/h	Max. m³/h	η Max. m³/h	H(Q=0) m	η Max. m	P2(Q=0) kW	Max. kW	η Max. kW	Hz		
actual	252	90	222	158	95.9	82		52.6	44.2	Operating speed	rpm	2900
Min.	0	/	/	162	88.3	71.9		/	39.9	Nominal flow	m³/h	0
Max.	270	/	/	169	118	103		/	60.7	Nominal head	m	0
										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



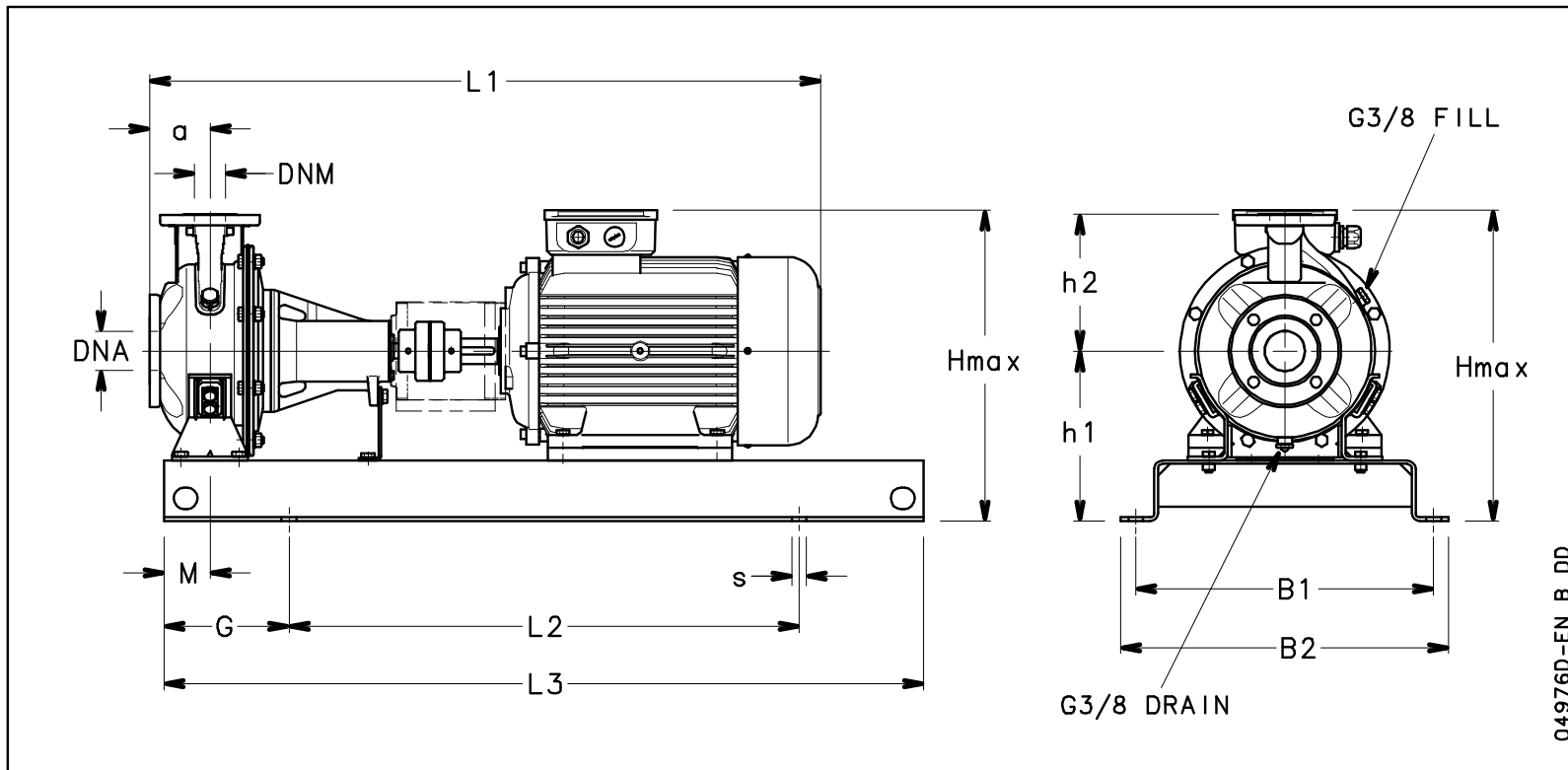
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Dimensions

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Frame mounted
Unit with standard coupling
3MGS 250 M B3 55 kW

Electrical and dimensional data refer to IE3 motor



Dimensions		[mm]	
a	125		
B1	600		
B2	660		
Coupling Type	54		
DNA	100		
DNM	80		
G	270		
h1	390		
h2	280		
Hmax	752		
L1	1504.5		
L2	1060		
L3	1600		
M	90		
Sscrews	M24		

Weight	
Total weight	601 kg

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	25	Max thickness	25

Dimensions and weight without obligation

Project	Xylect-20123150	Created by		Last update	12/19/2024
Block	ESHF 80-250/750/L25VSNA E4	Created on	12/19/2024		