

ESHF 50-250/220/L25VSSA

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 250
13	Suction nozzle	DN 65 /	PN 16 /	EN1092-1		designed mm 250
14	Discharge nozzle	DN 50 /	PN 16 /	EN1092-1		Min. mm 224
15	Max. casing pressure	kPa	1200			Flow
16	Max. working pressure	kPa	871.7			
17	Impeller type	Radial impeller				Head
18	Head H(Q=0)	m	89			
19	Max. shaft power	kW	21.7			at Qmin m 84.5
20	Pump weight	kg				Shaft power kW
21	Total weight	kg	235.0			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	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	3MAS 180 M B3 22 kW		Shaft diameter	Pump	0 mm	Motor 48 mm
45	Rated power	22 kW	Rated current	37.9 A	Frame size	Not applicable	
46	Nominal speed	2960 rpm	Rated voltage	400 V	Spacer length	mm	Not applicable
47	Frame size	180 M	Service factor	1	Weight	kg	
48	Weight	kg	127.3	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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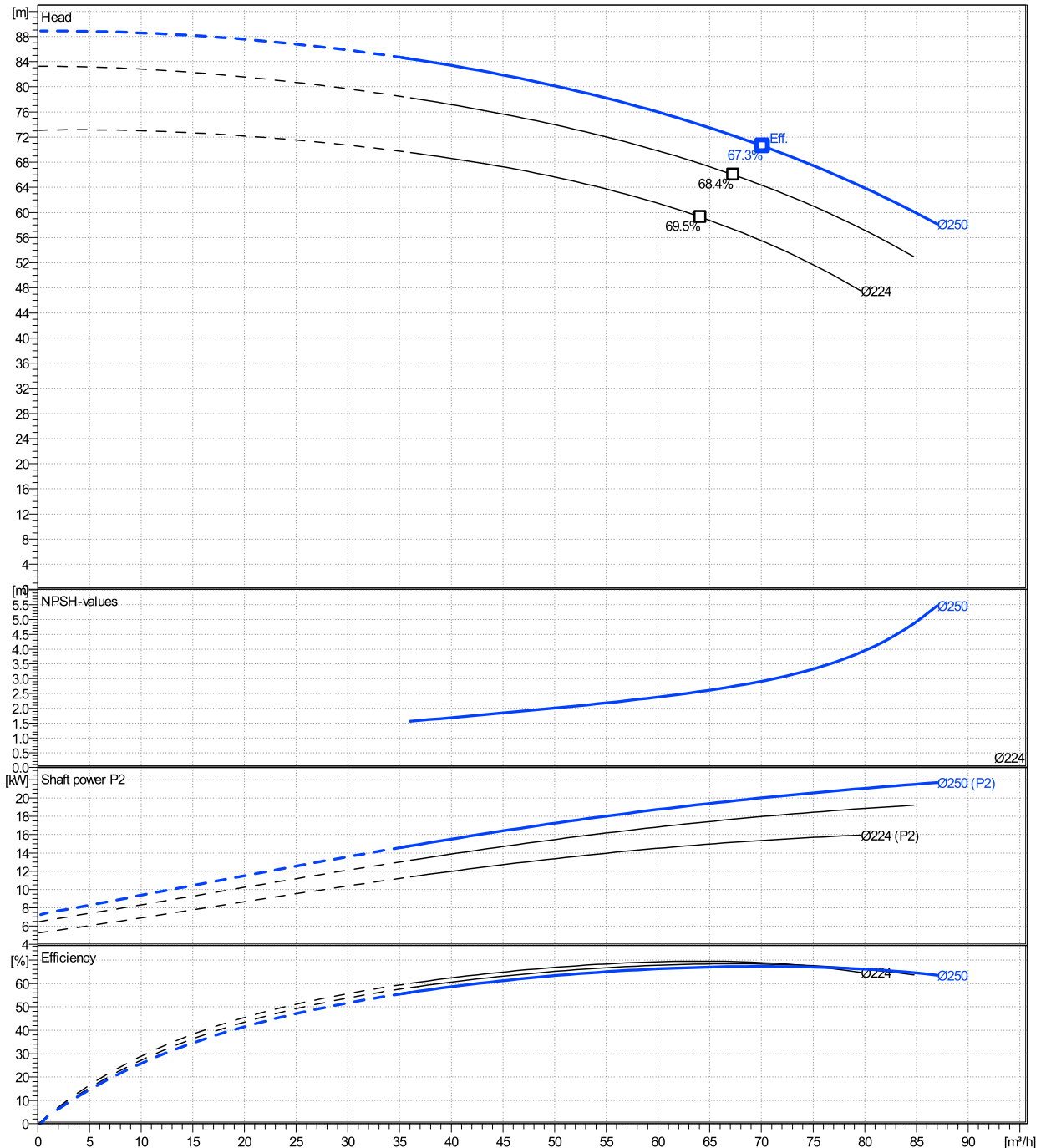
	Ø mm	Pump capacity			Pump head		Shaft power P2			Frequency		Hz	50
		Operating range Min. m³/h	Max. m³/h	η Max. m³/h	H(Q=0) m	η Max. m	P2(Q=0) kW	Max. kW	η Max. kW	Operating speed rpm	2900		
actual	250	36	87	70.1	88.9	70.6		21.7	20	Nominal flow	m³/h	0	
Min.	0	/	/	64.1	73.1	59.3		/	14.9	Nominal head	m	0	
Max.	250	/	/	70.1	88.9	70.6		/	20	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



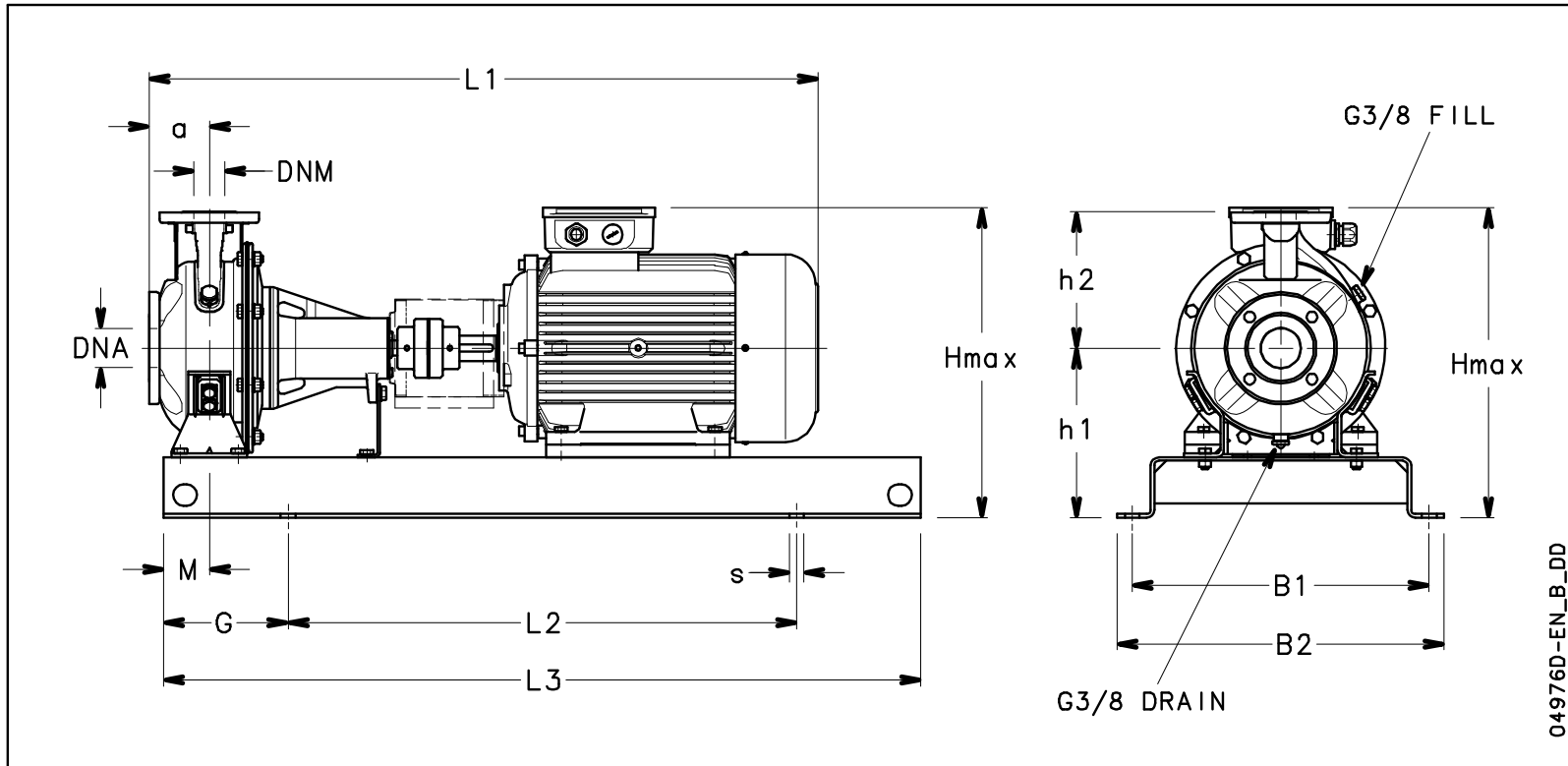
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Dimensions

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Frame mounted
Unit with standard coupling
3MAS 180 M B3 22 kW

Electrical and dimensional data refer to IE3 motor



Dimensions [mm]

a	100
B1	490
B2	540
Coupling Type	Del
DNA	65
DNM	50
G	205
h1	280
h2	225
Hmax	533
L1	1164
L2	840
L3	1250
M	75
Sscrews	M20

Weight

Total weight	235 kg
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Connections

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

Dimensions and weight without obligation

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