

# ESHF 50-160/55/P25VSSA

## 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
13	Suction nozzle	DN 65 / PN 16 / EN1092-1	Impeller Ø
14	Discharge nozzle	DN 50 / PN 16 / EN1092-1	
15	Max. casing pressure	kPa 1200	Flow
16	Max. working pressure	kPa 331.6	
17	Impeller type	Radial impeller	
18	Head H(Q=0)	m 34	Head
19	Max. shaft power	kW 6	
20	Pump weight	kg	Shaft power kW
21	Total weight	kg 120.0	Efficiency %
			NPSH 3% m

Materials			
22		<b>Pump</b>	<b>Shaft Seal</b>
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)
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Motor data				Coupling			
42	Manufacturer	Lowara		Manufacturer	Not applicable		
43	Specific design	IE3 3ph Surface Motor - Premium Efficiency		Series	Not applicable		
44	Type	PLM 132 B3 5,5 kW		Shaft diameter	Pump 0 mm	Motor 38 mm	
45	Rated power	5.5 kW	Rated current 10.4 A	Frame size	Not applicable		
46	Nominal speed	2925 rpm	Rated voltage 400 V	Spacer length	mm	Not applicable	
47	Frame size	132	Service factor 1	Weight	kg		
48	Weight	kg 57.0	Degree of protection IP55	Coupling protection	Not applicable		

Base plate			Remarks			
49	Name	Not applicable				
50	Weight	kg				

# ESHF 50-160/55/P25VSSA

## Performance curve

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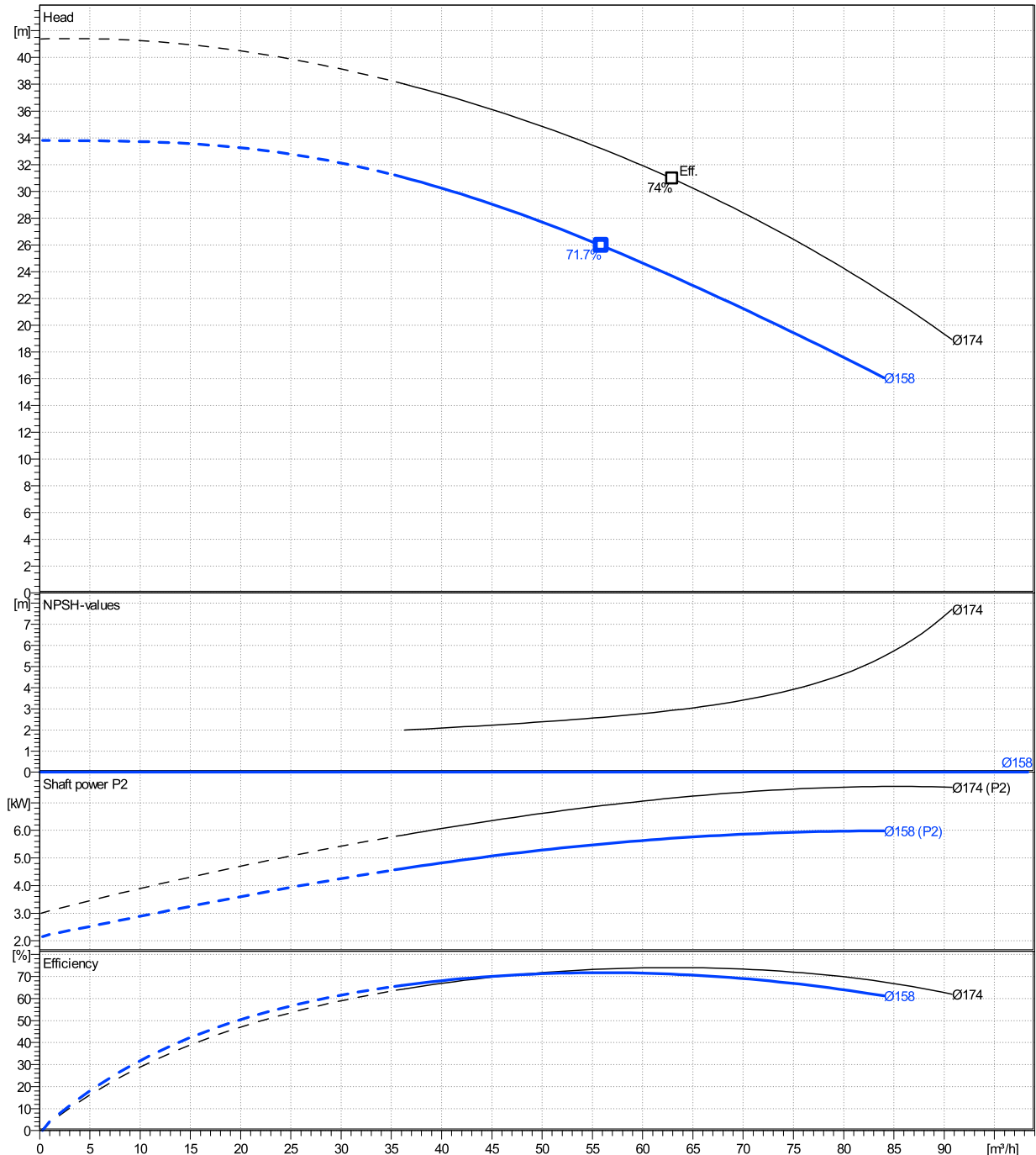
	Ø mm	Pump capacity			Pump head		Shaft power P2			Frequency		
		Operating range Min. m³/h	Max. m³/h	η Max. m³/h	H(Q=0) m	η Max. m	P2(Q=0) kW	Max. kW	η Max. kW	Hz		
actual	158	36	84	55.9	33.8	25.9		5.99	5.51	Operating speed	rpm	2900
Min.	0	/	/	55.9	33.8	25.9		/	5.51	Nominal flow	m³/h	0
Max.	174	/	/	63	41.4	30.9		/	7.17	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



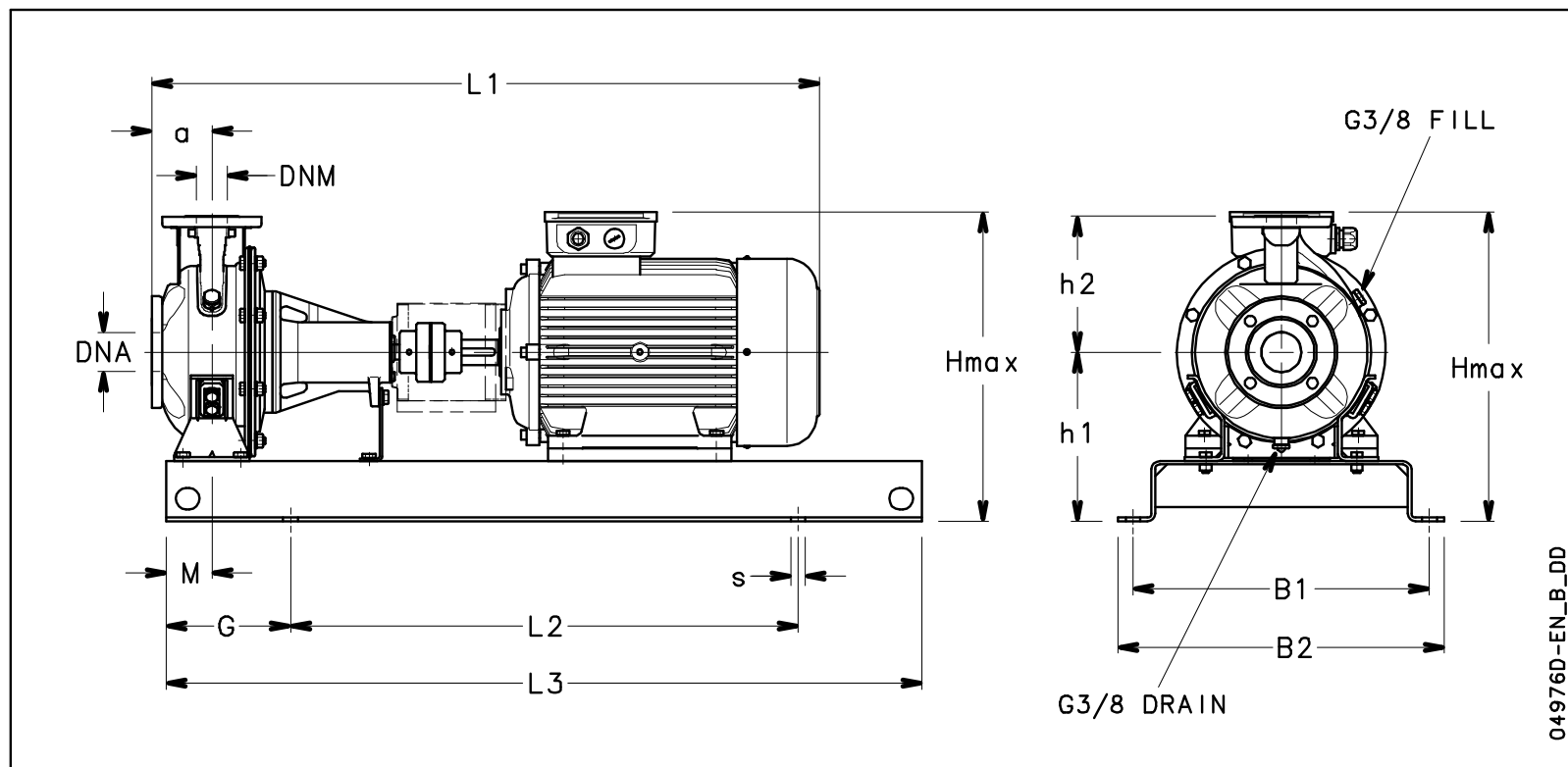
**ESHF 50-160/55/P25VSSA**

**Dimensions**

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Frame mounted  
Unit with standard coupling  
PLM 132 B3 5,5 kW

Electrical and dimensional data refer to IE3 motor



Dimensions		[ mm ]	
a	100		
B1	400		
B2	450		
Coupling Type	PN 16		
DNA	65		
DNM	50		
G	170		
h1	260		
h2	180		
Hmax	451		
L1	910		
L2	660		
L3	1000		
M	60		
Sscrews	M20		
Weight			
Total weight	120 kg		
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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