

# ESHF 40-160/40/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	m <sup>3</sup> /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 <sup>3</sup>	1000
6	Inlet pressure	kPa	0	Kin. viscosity at t A	mm <sup>2</sup> /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 171
13	Suction nozzle	DN 65 /	PN 16 /	EN1092-1		designed mm 171
14	Discharge nozzle	DN 40 /	PN 16 /	EN1092-1		Min. mm 152
15	Max. casing pressure	kPa	1200			Flow
16	Max. working pressure	kPa	372.2			
17	Impeller type	Radial impeller				Head
18	Head H(Q=0)	m	38			
19	Max. shaft power	kW	3.9			Min- m <sup>3</sup> /h 18
20	Pump weight	kg				Nominal m
21	Total weight	kg	96.0			at Qmax m 18.6
						at Qmin m 35.4
						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)	
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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 112 B3 4 kW				Shaft diameter	Pump	0 mm	Motor	28 mm	
45	Rated power	4 kW	Rated current	7.62 A		Frame size	Not applicable				
46	Nominal speed	2885 rpm	Rated voltage	400 V		Spacer length	mm	Not applicable			
47	Frame size	112	Service factor	1		Weight	kg				
48	Weight	kg	29.4	Degree of protection	IP55		Coupling protection	Not applicable			

Base plate				Remarks					
49	Name	Not applicable							
50	Weight	kg							

# ESHF 40-160/40/P25VSSA

## Performance curve

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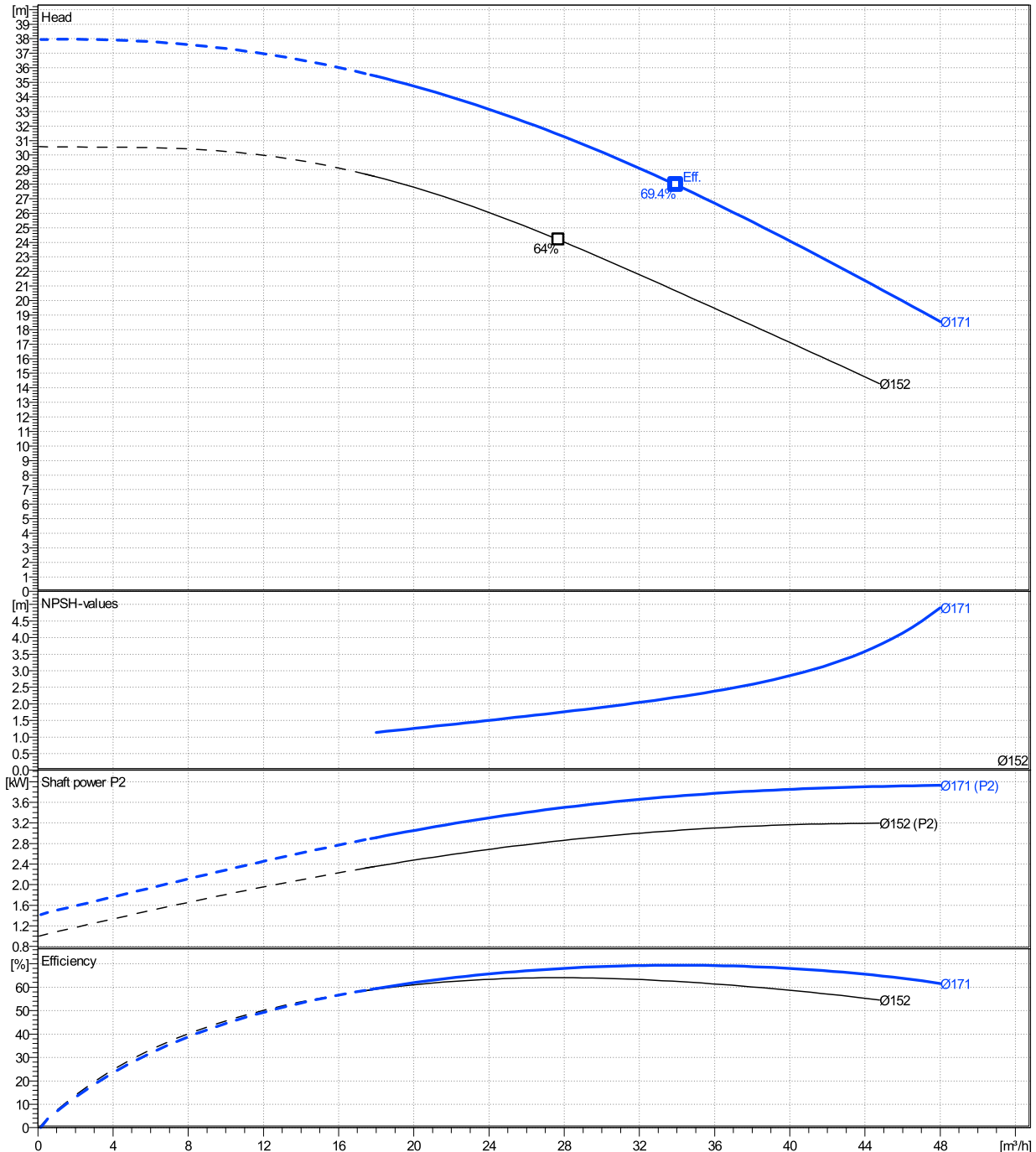
	Ø mm	Pump capacity			Pump head		Shaft power P2			Frequency	Hz	50
		Operating range Min. m³/h	Max. m³/h	η Max. m³/h	H(Q=0) m	η Max. m	P2(Q=0) kW	Max. kW	η Max. kW	Operating speed	rpm	2900
actual	171	18	48	33.9	37.9	28	3.93	3.72	Nominal flow	m³/h	0	
Min.	0	/	/	27.7	30.6	24.2	/	2.85	Nominal head	m	0	
Max.	171	/	/	33.9	37.9	28	/	3.72	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



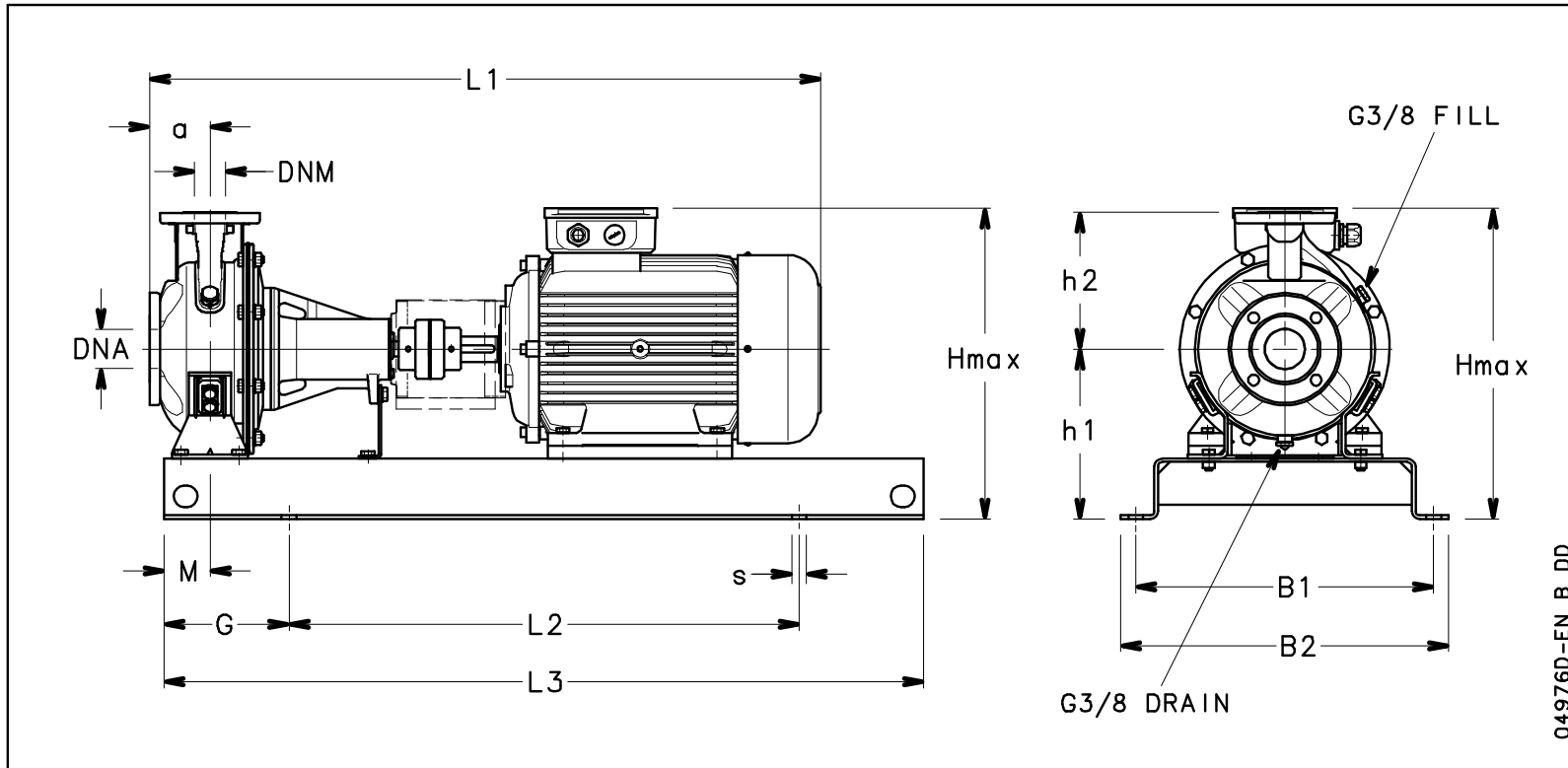
**ESHF 40-160/40/P25VSSA**

**Dimensions**

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Frame mounted  
Unit with standard coupling  
PLM 112 B3 4 kW

Electrical and dimensional data refer to IE3 motor



**Dimensions [ mm ]**

a	80
B1	350
B2	390
Coupling Type	PN 16
DNA	65
DNM	40
G	150
h1	232
h2	160
Hmax	400
L1	825
L2	600
L3	900
M	60
Sscrews	M16

**Weight**

Total weight	96 kg
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**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
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