

ESHF 40-200/11/P46PSSA

Technical data

Company name
Contact
Phone number
e-mail address

Operating data				
1	Pumpe type	Single head pump	Fluid	Water
2	No. of pumps	1	Operating temperature t A	°F 39.2
3	Nominal flow	US g.p.m. 0	Max / Min Operating Temperature mech. Seal	°F 120 / -10
4	Nominal head	ft 0	pH-value at t A	7
5	Static head	ft 0	Density at t A	lb/ft³ 62.4
6	Inlet pressure	psi 0	Kin. viscosity at t A	ft²/s 1.689E-5
7	Environmental temperature	°F 68	Vapor pressure at t A	psi 14.5
8	Available system NPSH	ft 0	Altitude	0

Pump data				
9	Lubrication	Standard, Grease lubrication [Std]		
10	Execution	Unit with standard coupling		
11	Design	Horizontal		
12	Operating speed	1750 rpm	Stages	1
13	Suction nozzle	DN 65 /	PN 16 /	EN1092-1
14	Discharge nozzle	DN 40 /	PN 16 /	EN1092-1
15	Max. casing pressure	psi 174	Impeller Ø	Max. inch 7 1/8
16	Max. working pressure	psi 20.8		designed inch 7 1/8
17	Impeller type	Radial impeller		
18	Head H(Q=0)	ft 48	Flow	Min. inch 6
19	Max. shaft power	hp 1.3		Nominal US g.p.m.
20	Pump weight	kg		Max- US g.p.m. 110.1
21	Total weight	lb 172.0	Head	Min- US g.p.m. 39.6
				Nominal ft
			at Qmax ft	23.7
			at Qmin ft	44.7
			Shaft power	hp
			Efficiency	%
			NPSH 3%	ft

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	7/8 inch
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 90 B3 1,1 kW			Shaft diameter	Pump 0 inch	Motor 15/16 inch
45	Rated power	1.4751 hp	Rated current	4.61 A	Frame size	Not applicable	
46	Nominal speed	1740 rpm	Rated voltage	220 V	Spacer length	inch	Not applicable
47	Frame size	90	Service factor	1	Weight	lb	
48	Weight	lb 36.6	Degree of protection	IP55	Coupling protection	Not applicable	

Base plate			Remarks				
49	Name	Not applicable					
50	Weight	lb					

ESHF 40-200/11/P46PSSA

Performance curve

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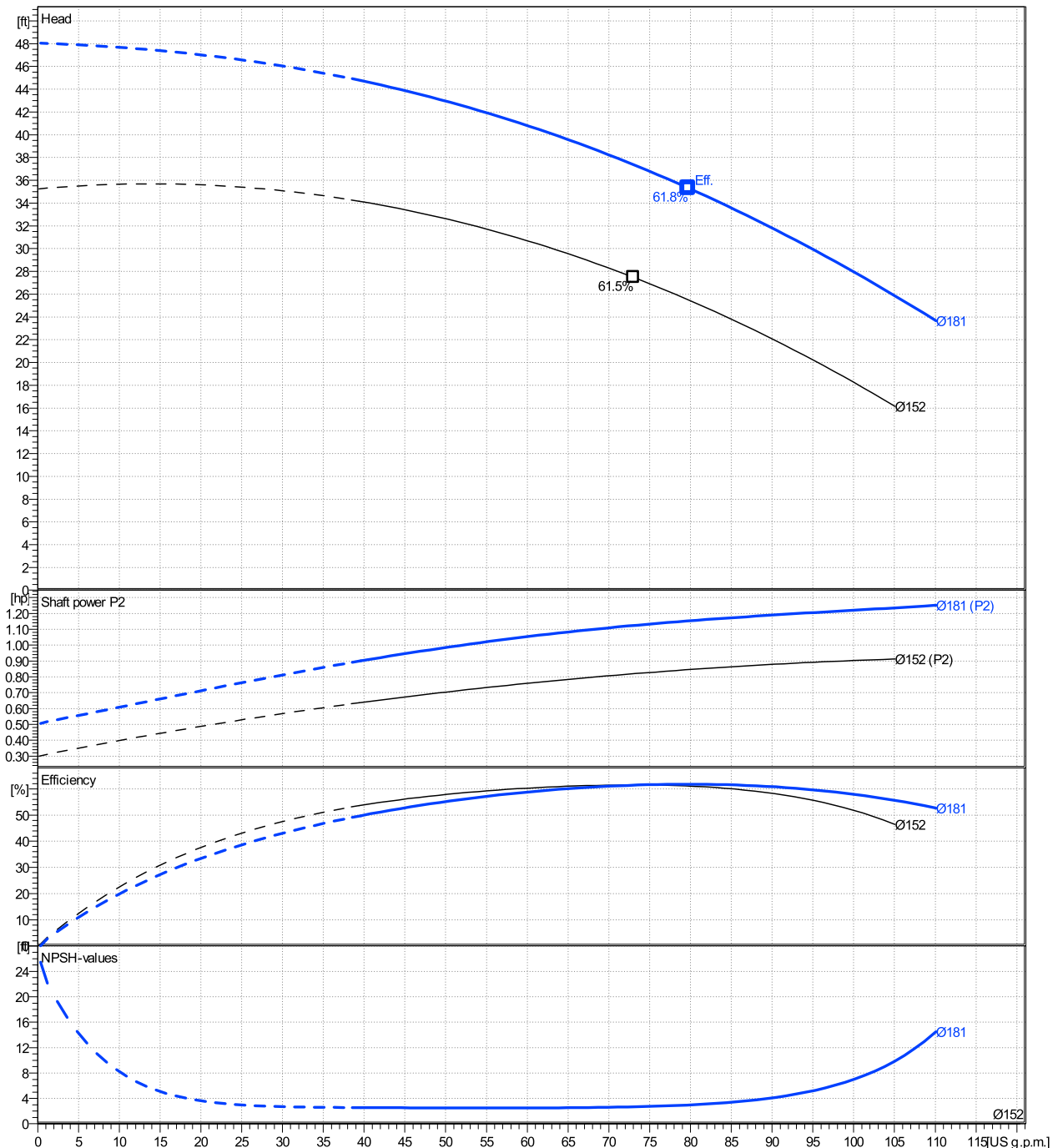
	Ø mm	Pump capacity Operating range η			Pump head η		Shaft power P2 η			Frequency	Hz	
		Min. US g.p.m.	Max. US g.p.m.	Max. US g.p.m.	H(Q=0) ft	Max. ft	P2(Q=0) hp	Max. hp	Max. hp	Operating speed	rpm	
actual	7 1/8	39.6	110	79.7	48	35.3		1.25	1.15	Nominal flow	US g.p.m.	0
Min.	0	/	/	73	35.2	27.5		/	0.819	Nominal head	ft	0
Max.	7 1/8	/	/	79.7	48	35.3		/	1.15	Inlet pressure	psi	0
										Static head	ft	0

Power datas referred to:

hydr. Performance acceptance acc. To EN ISO 9906 Class Grade 3B

Water [100%] ; 39.2°F; 62.4lb/ft³; 1.69E-5ft²/s

MEI: N.A - according to Ecodesign Directive 2009/125/EC and Regulation (EU) No.547/2012



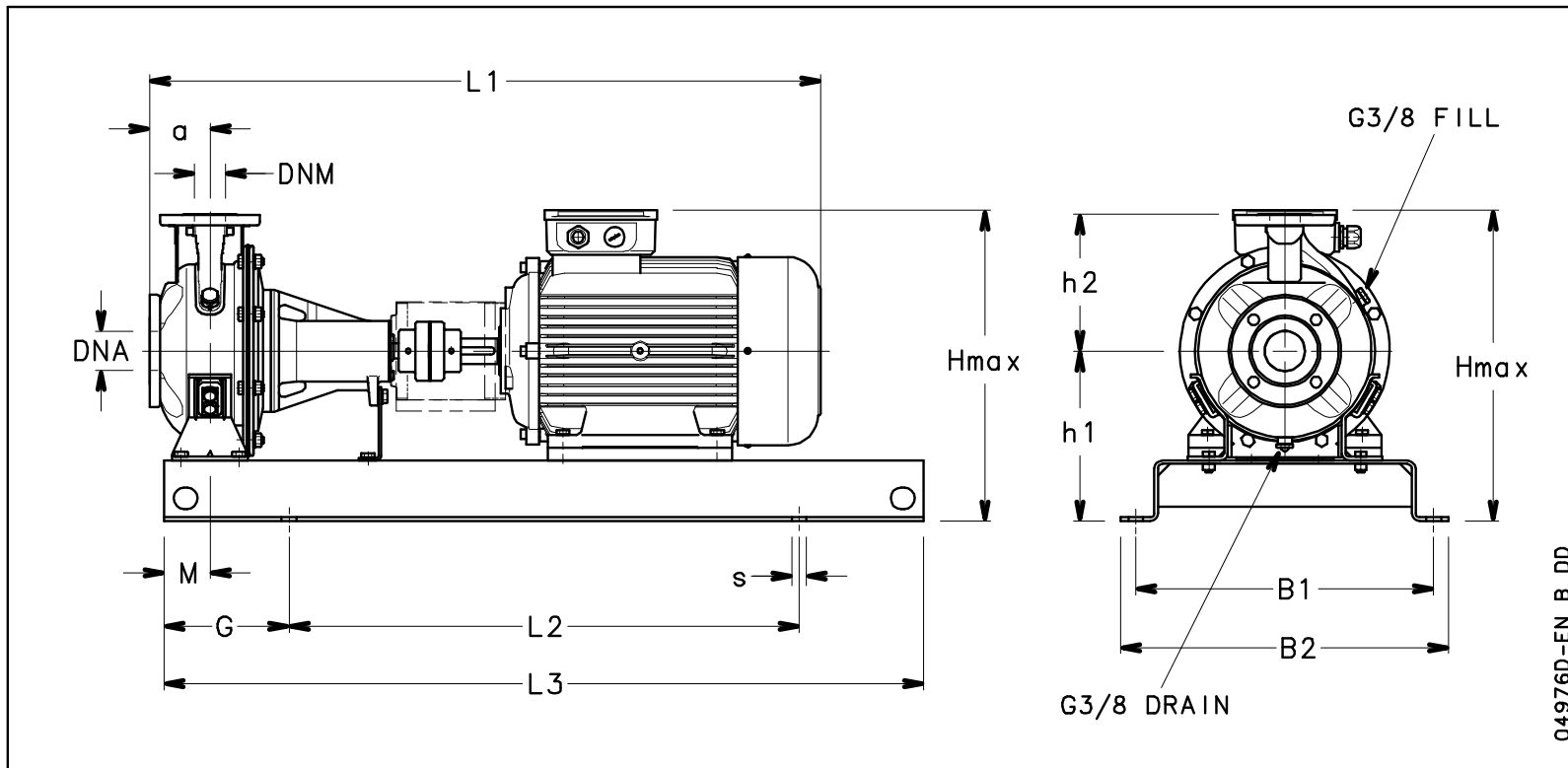
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Dimensions

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Frame mounted
Unit with standard coupling
PLM 90 B3 1,1 kW

Electrical and dimensional data refer to IE3 motor



Dimensions		[inch]	
a	3 ¹⁵ / ₁₆		
B1	13 ³ / ₄		
B2	15 ³ / ₈		
Coupling Type	PS		
DNA	2 ⁹ / ₁₆		
DNM	1 ⁹ / ₁₆		
G	5 ⁷ / ₈		
h1	10 ¹ / ₄		
h2	7 ¹ / ₁₆		
Hmax	17 ⁵ / ₁₆		
L1	31 ¹⁵ / ₁₆		
L2	23 ⁵ / ₈		
L3	35 ⁷ / ₁₆		
M	2 ³ / ₈		
Sscrews	M16		
Weight			
Total weight	78 kg		
Connections			
Suction nozzle	Discharge nozzle		
DN 65	DN 40		
PN 16	PN 16		
EN1092-1	EN1092-1		
D	7 ⁵ / ₁₆	D	5 ⁷ / ₈
Dia. Holes	1 ¹ / ₁₆	Dia. Holes	1 ¹ / ₁₆
DN	2 ⁹ / ₁₆	DN	1 ⁹ / ₁₆
G	4 ¹ / ₈	G	2 ¹ / ₁₆
M	5 ¹¹ / ₁₆	M	4 ⁵ / ₁₆
Max thickness	1/8	Max thickness	1/8

Dimensions and weight without obligation

Project	Xylect-20185048	Created by		Last update	1/13/2025
Block	ESHF 40-200/75/P26PSSA	Created on	1/13/2025		