

ESHF 50-160/11/P46PSSA

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	°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				Impeller Ø
12	Operating speed	1750 rpm	Stages	1		Max. inch 5 13/16
13	Suction nozzle	DN 65 /	PN 16 /	EN1092-1		designed inch 5 13/16
14	Discharge nozzle	DN 50 /	PN 16 /	EN1092-1		Min. inch 5 5/16
15	Max. casing pressure	psi	174			Flow
16	Max. working pressure	psi	14.7			
17	Impeller type	Radial impeller				Head
18	Head H(Q=0)	ft	34			
19	Max. shaft power	hp	1.2			Min- US g.p.m. 79.3
20	Pump weight	kg				Nominal ft
21	Total weight	lb	169.8			at Qmax ft 14.7
						at Qmin ft 29.9
						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			
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	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				

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Performance curve

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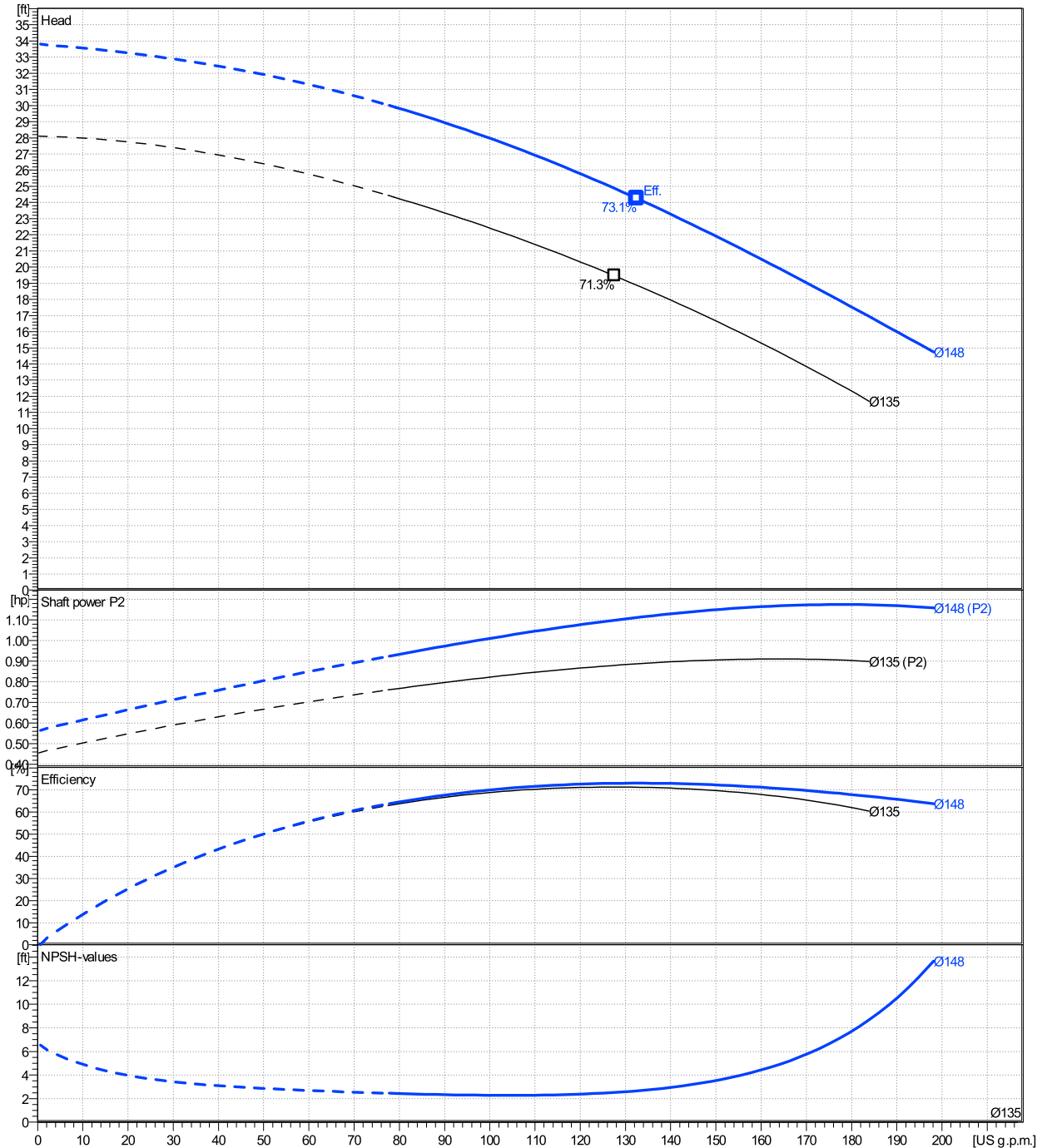
	Ø mm	Pump capacity			Pump head		Shaft power P2			Frequency	Hz	
		Operating range Min. US g.p.m.	Max. US g.p.m.	η Max. US g.p.m.	H(Q=0) ft	η Max. ft	P2(Q=0) hp	Max. hp	η Max. hp	Operating speed	rpm	
actual	5 13/16	79.3	198	132	33.8	24.3		1.18	1.11	Nominal flow	US g.p.m.	0
Min.	0	/	/	128	28.1	19.5		/	0.88	Nominal head	ft	0
Max.	5 13/16	/	/	132	33.8	24.3		/	1.11	Inlet pressure	psi	0
										Static head	ft	0

Power datas referred to:

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

Water, pure [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



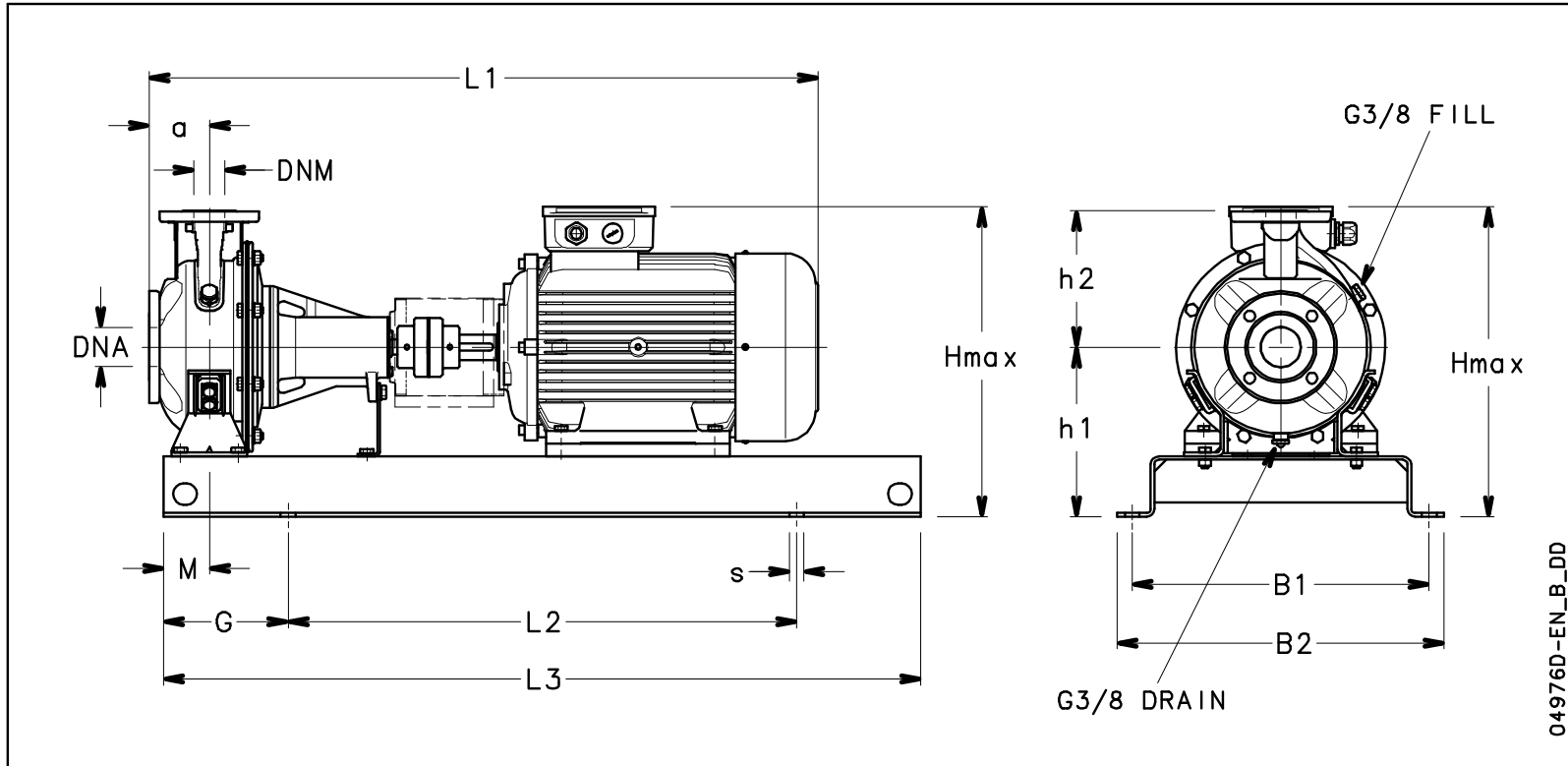
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Dimensions

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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 ¹⁵ / 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	77 kg
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Connections

Suction nozzle	Discharge nozzle
DN 65	DN 50
PN 16	PN 16
EN1092-1	EN1092-1
D	6 ¹ / ₂
Dia. Holes	1 ¹⁵ / ₁₆
DN	1 ¹⁵ / ₁₆
G	3 ¹ / ₄
M	4 ¹⁵ / ₁₆
Max thickness	1 ¹⁵ / ₁₆

Dimensions and weight without obligation

Project	Xlect-20185149	Created by		Last update	1/13/2025
Block	ESHF 50-160/75/P26PSSA	Created on	1/13/2025		