

ESHF 40-160/40/P26PSSA

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/ft ³	62.4
6	Inlet pressure	psi	0	Kin. viscosity at t A	ft ² /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	3500 rpm	Stages	1		Max. inch 5 3/4
13	Suction nozzle	DN 65 /	PN 16 /	EN1092-1		designed inch 5 3/4
14	Discharge nozzle	DN 40 /	PN 16 /	EN1092-1		Min. inch 5 5/16
15	Max. casing pressure	psi	174			Flow
16	Max. working pressure	psi	51.8			
17	Impeller type	Radial impeller				Head
18	Head H(Q=0)	ft	120			
19	Max. shaft power	hp	5.2			Min- US g.p.m. 79.3
20	Pump weight	kg				Nominal ft
21	Total weight	lb	211.6			at Qmax ft 55.2
						at Qmin ft 112.8
						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				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 inch	Motor	1 1/8 inch	
45	Rated power	5.3641 hp	Rated current	13.3 A		Frame size	Not applicable				
46	Nominal speed	3468 rpm	Rated voltage	220 V		Spacer length	inch	Not applicable			
47	Frame size	112	Service factor	1		Weight	lb				
48	Weight	lb	64.8	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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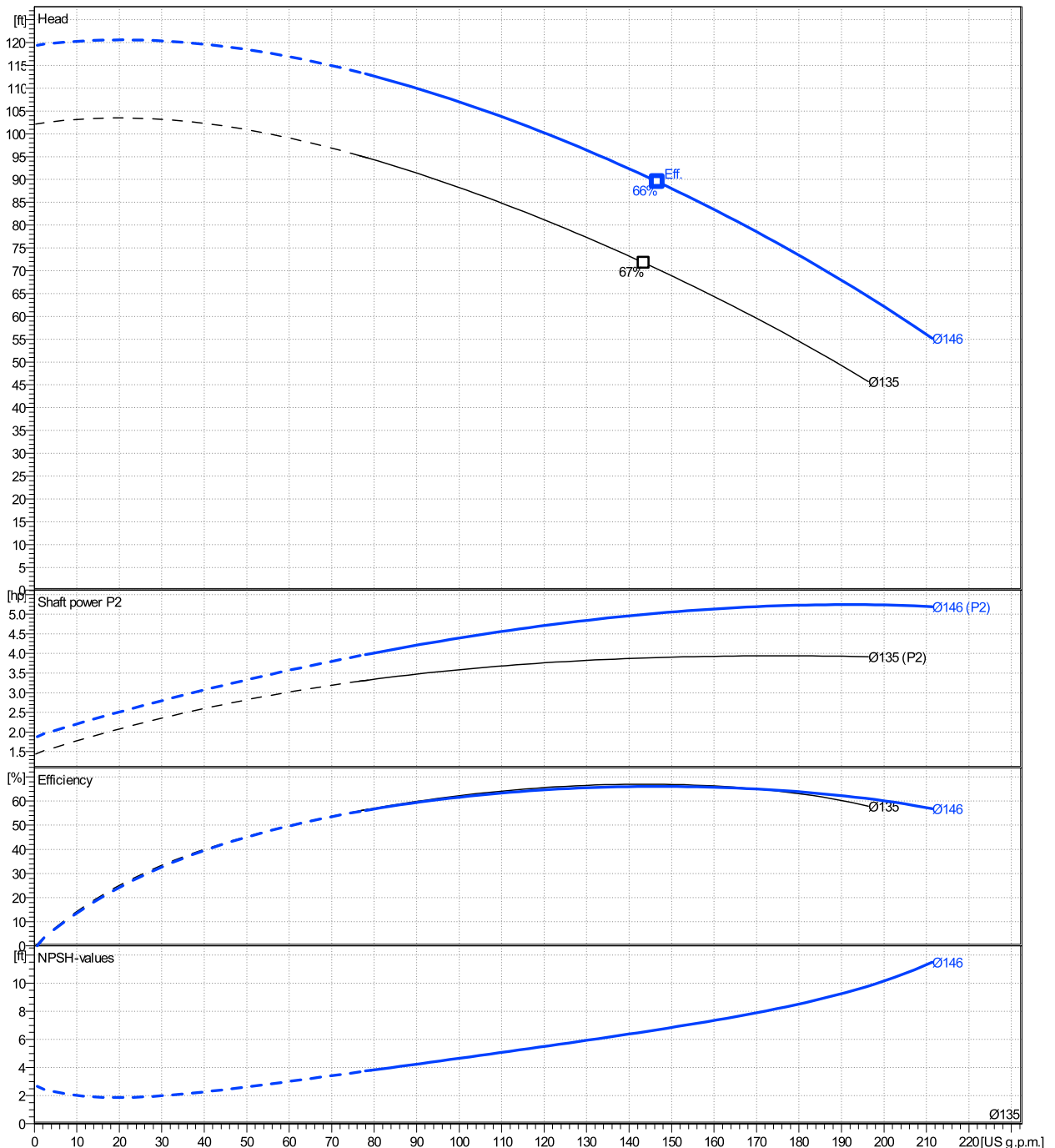
	Ø mm	Pump capacity Operating range η			Pump head H(Q=0) η		Shaft power P2 P2(Q=0) η			Frequency	Hz	60
		Min. US g.p.m.	Max. US g.p.m.	Max. US g.p.m.	H(Q=0) ft	Max. ft	P2(Q=0) hp	Max. hp	Max. hp	Operating speed	rpm	3500
actual	5 3/4	79.3	211	147	119	89.5		5.24	5.03	Nominal flow	US g.p.m.	0
Min.	0	/	/	144	102	71.7		/	3.88	Nominal head	ft	0
Max.	5 3/4	/	/	147	119	89.5		/	5.03	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



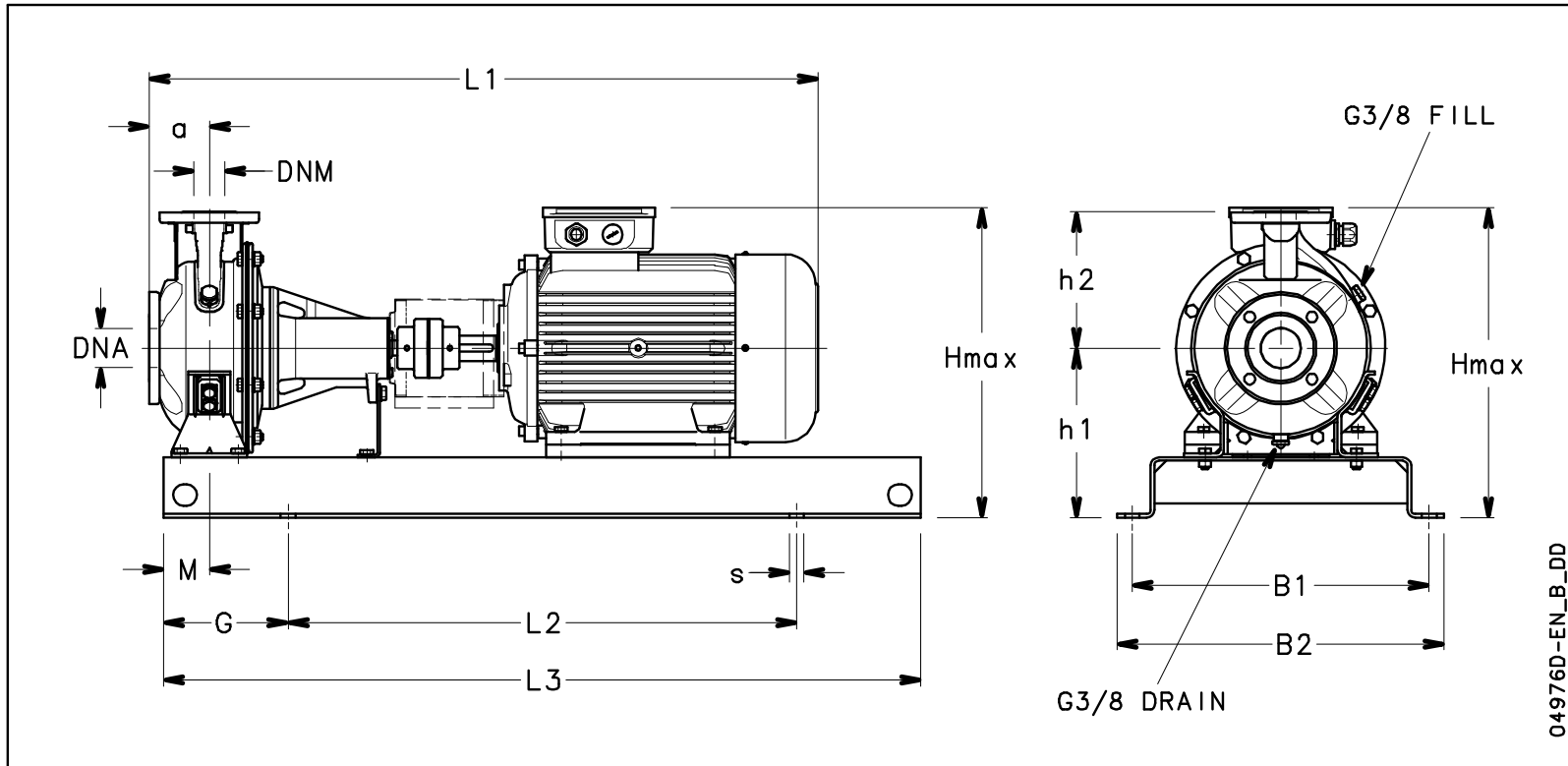
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Dimensions

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Frame mounted
Unit with standard coupling
PLM 112 B3 4 kW

Electrical and dimensional data refer to IE3 motor



Dimensions [inch]

a	3 ¹ / ₈
B1	13 ³ / ₄
B2	15 ³ / ₈
Coupling Type	PN 16
DNA	2 ⁹ / ₁₆
DNM	1 ⁹ / ₁₆
G	5 ⁷ / ₈
h1	9 ¹ / ₈
h2	6 ⁵ / ₁₆
Hmax	15 ⁷ / ₁₆
L1	32 ¹ / ₂
L2	23 ³ / ₈
L3	35 ⁷ / ₁₆
M	2 ³ / ₈
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	5 ⁷ / ₈
Dia. Holes	1 ⁹ / ₁₆
DN	1 ⁹ / ₁₆
G	2 ¹ / ₁₆
M	4 ⁵ / ₁₆
Max thickness	1 ¹ / ₈

Dimensions and weight without obligation

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