

ESHF 50-250/30/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/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	Max. inch 8 13/16
12	Operating speed	1750 rpm	Stages 1		designed inch 8 13/16
13	Suction nozzle	DN 65 /	PN 16 / EN1092-1		Min. inch 7 7/16
14	Discharge nozzle	DN 50 /	PN 16 / EN1092-1	Flow	Nominal US g.p.m.
15	Max. casing pressure	psi	174		Max- US g.p.m. 198.1
16	Max. working pressure	psi	35.4	Min- US g.p.m. 79.3	
17	Impeller type	Radial impeller		Head	Nominal ft
18	Head H(Q=0)	ft	82		at Qmax ft 50.1
19	Max. shaft power	hp	4		at Qmin ft 76.6
20	Pump weight	kg		Shaft power	hp
21	Total weight	lb	299.8	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	1 1/8 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)
32					
33					
34					
35					
36					
37					
38					
39					
40					
41					

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 100 B3 3 kW		Shaft diameter	Pump 0 inch	Motor 1 1/8 inch	
45	Rated power	4.0231 hp	Rated current 6.66 A	Frame size	Not applicable		
46	Nominal speed	1746 rpm	Rated voltage 380 V	Spacer length	inch	Not applicable	
47	Frame size	100	Service factor 1	Weight	lb		
48	Weight	lb 86.4	Degree of protection IP55	Coupling protection	Not applicable		

Base plate			Remarks		
49	Name	Not applicable			
50	Weight	lb			

ESHF 50-250/30/P46PSSA

Performance curve

Company name
Contact
Phone number
e-mail address

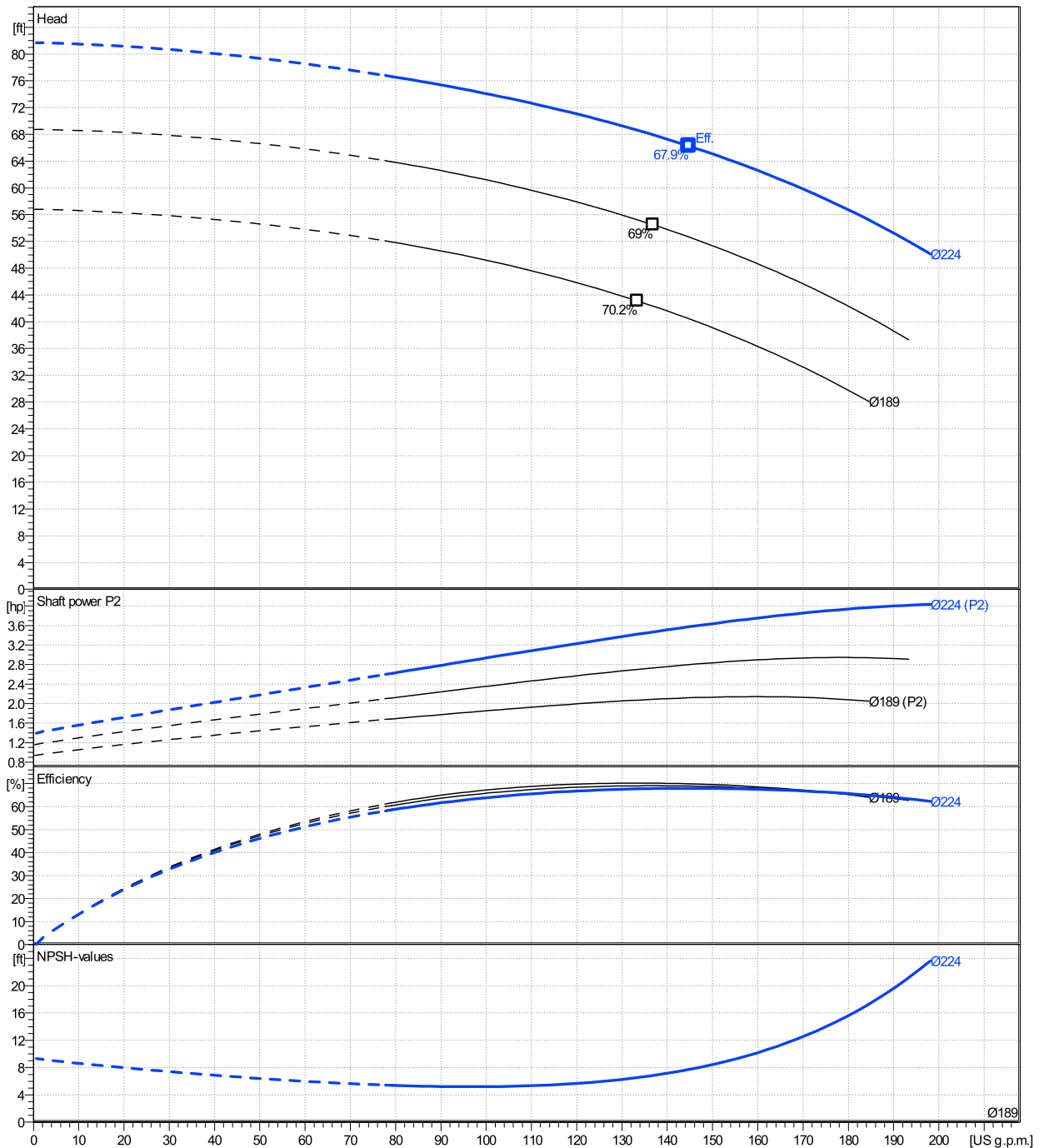
	Ø mm	Pump capacity Operating range η			Pump head H(Q=0) η		Shaft power P2 P2(Q=0) η			Frequency Hz	
		Min. US g.p.m.	Max. US g.p.m.	Max. US g.p.m.	ft	ft	hp	Max. hp	η hp	rpm	
actual	8 13/16	79.3	198	145	81.7	66.3		4.03	3.57	Operating speed	1750
Min.	0	/	/	133	56.8	43.1		/	2.07	Nominal flow	0
Max.	8 13/16	/	/	145	81.7	66.3		/	3.57	Nominal head	0
										Inlet pressure	0
										Static head	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



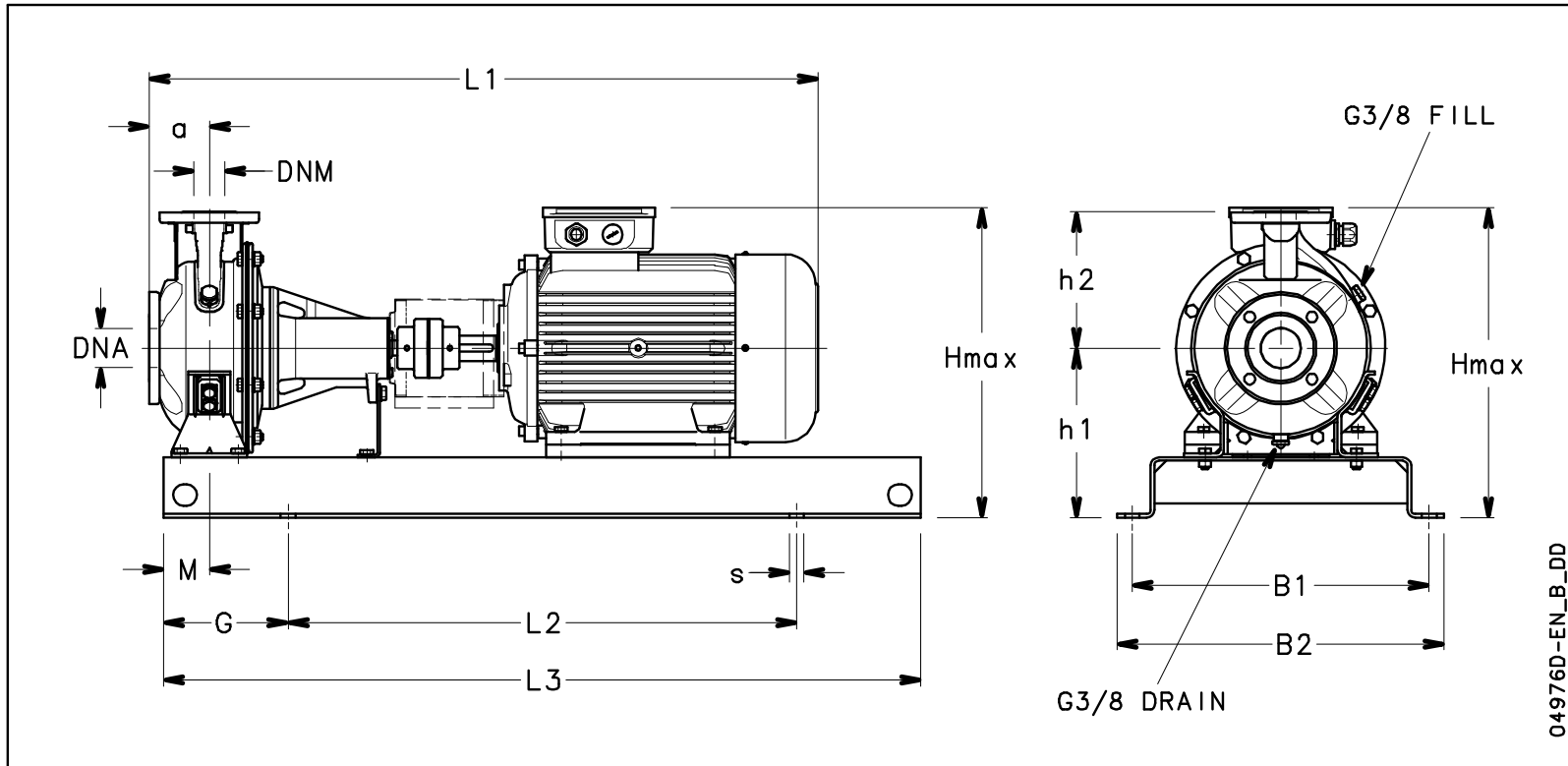
ESHF 50-250/30/P46PSSA

Dimensions

Company name
Contact
Phone number
e-mail address

Frame mounted
Unit with standard coupling
PLM 100 B3 3 kW

Electrical and dimensional data refer to IE3 motor



Dimensions [inch]

a	3 ¹⁵ / ₁₆
B1	15 ³ / ₄
B2	17 ¹¹ / ₁₆
Coupling Type	PN 16
DNA	2 ⁹ / ₁₆
DNM	1 ¹⁵ / ₁₆
G	6 ¹¹ / ₁₆
h1	11 ¹ / ₃₂
h2	8 ⁷ / ₈
Hmax	19 ⁷ / ₈
L1	34 ¹⁵ / ₁₆
L2	26
L3	39 ³ / ₈
M	2 ¹⁵ / ₁₆
Sscrews	M20

Weight

Total weight	136 kg
--------------	--------

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	Xylect-20185149	Created by		Last update	1/13/2025
Block	ESHF 50-250/220/L26USSA	Created on	1/13/2025		