

ESHF 80-250/550/L26USNA

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	3500 rpm	Stages	1		Max. inch 9 5/16
13	Suction nozzle	DN 100 /	PN 16 /	EN1092-1		designed inch 8 7/16
14	Discharge nozzle	DN 80 /	PN 16 /	EN1092-1		Min. inch 7 15/16
15	Max. casing pressure	psi	174			Flow
16	Max. working pressure	psi	131.2			
17	Impeller type	Radial impeller				Max- US g.p.m. 977.4
18	Head H(Q=0)	ft	300			Min- US g.p.m. 396.3
19	Max. shaft power	hp	68.1			Head
20	Pump weight	kg				Nominal ft
21	Total weight	lb	1,325.0			at Qmax ft 206.8
						at Qmin ft 301.9
						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 / ASTMCF8M			Uniten 3K	VBVGG
25	SEAL HOUSING	Stainless steel / AISI 316L			Mechanical seal diameter	1 5/16 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	3MGS 250 M B3 55 kW		Shaft diameter	Pump	0 inch	Motor 2 3/8 inch
45	Rated power	73.756 hp	Rated current	97 A	Frame size	Not applicable	
46	Nominal speed	3564 rpm	Rated voltage	380 V	Spacer length	inch	Not applicable
47	Frame size	250 M	Service factor	1	Weight	lb	
48	Weight	lb 922.4	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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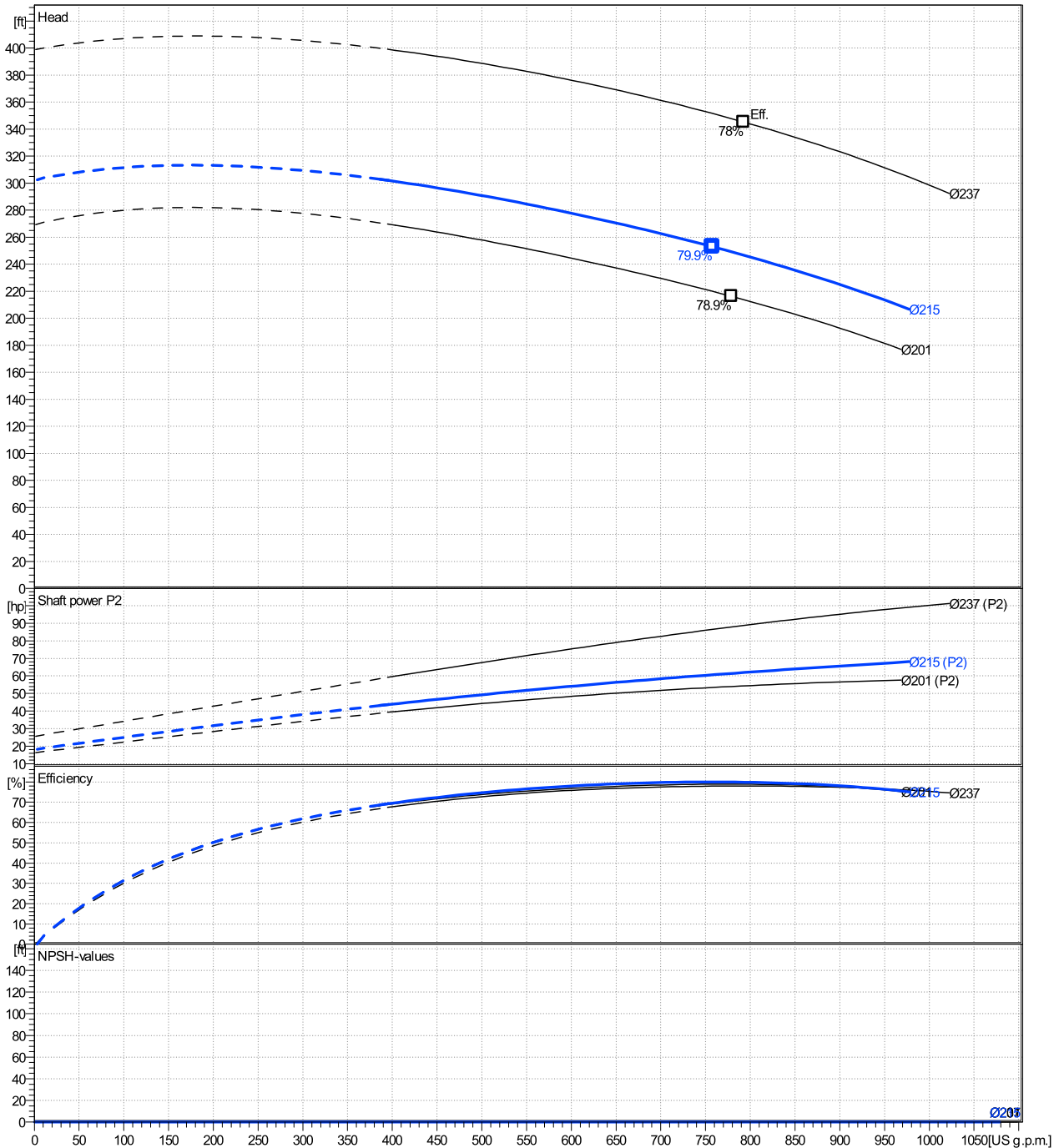
	Ø mm	Pump capacity Operating range η			Pump head H(Q=0) η		Shaft power P2 P2(Q=0) η			Frequency	Hz	
		Min. US g.p.m.	Max. US g.p.m.	Max. US g.p.m.	H(Q=0) ft	η ft	P2(Q=0) hp	Max. hp	η hp	Operating speed	rpm	
actual	8 7/16	396	977	757	303	253		68.1	60.6	Nominal flow	US g.p.m.	0
Min.	0	/	/	779	269	216		/	54	Nominal head	ft	0
Max.	9 5/16	/	/	792	399	345		/	88.7	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



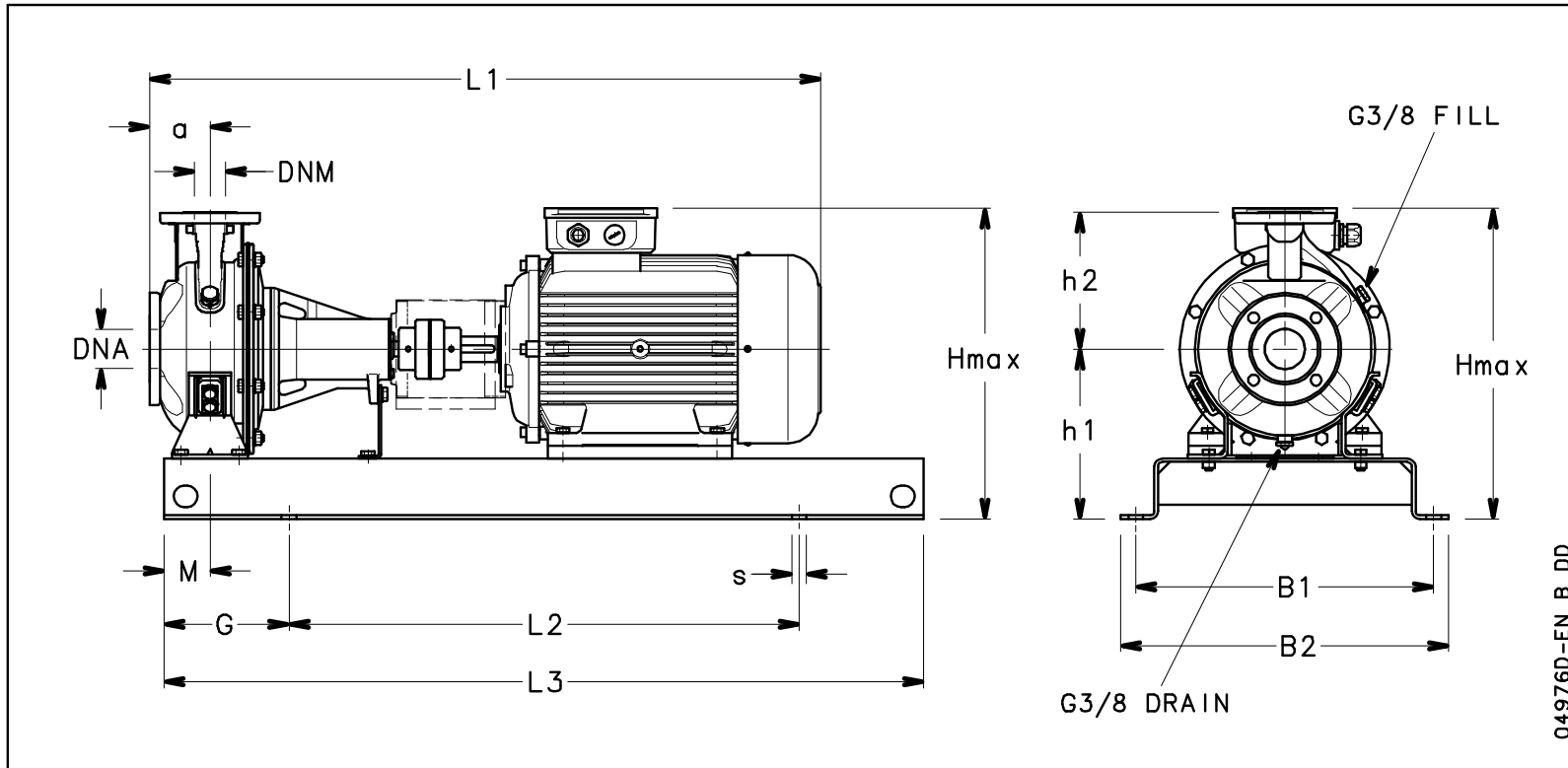
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Dimensions

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Frame mounted
Unit with standard coupling
3MGS 250 M B3 55 kW

Electrical and dimensional data refer to IE3 motor



Dimensions [inch]

a	4 ¹⁵ / ₁₆
B1	23 ⁵ / ₈
B2	26
Coupling Type	64
DNA	3 ¹⁵ / ₁₆
DNM	3 ¹ / ₈
G	10 ⁹ / ₈
h1	15 ³ / ₈
h2	11 ¹ / ₃₂
Hmax	29 ⁹ / ₈
L1	59 ¹ / ₄
L2	41 ³ / ₄
L3	63
M	3 ⁹ / ₁₆
Sscrews	M24

Weight

Total weight	601 kg
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Connections

Suction nozzle	Discharge nozzle
DN 100	DN 80
PN 16	PN 16
EN1092-1	EN1092-1
D	8 ⁷ / ₈
Dia. Holes	11 ¹ / ₁₆
DN	3 ¹⁵ / ₁₆
G	5 ⁹ / ₁₆
M	7 ¹ / ₁₆
Max thickness	13 ¹ / ₁₆

Dimensions and weight without obligation

Project	Xylect-20185149	Created by		Last update	1/13/2025
Block	ESHF 80-250/750/L26USNA E4	Created on	1/13/2025		

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