

ESHS 40-250/11/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					
11	Design	Horizontal			Impeller Ø	Max. inch 8 9/16
12	Operating speed	1750 rpm	Stages	1	designed	inch 7 3/8
13	Suction nozzle	DN 65 / PN 16 / EN1092-1			Min.	inch 7 3/8
14	Discharge nozzle	DN 40 / PN 16 / EN1092-1			Nominal US g.p.m.	
15	Max. casing pressure	psi	174		Max-	US g.p.m. 96.9
16	Max. working pressure	psi	22.1		Min-	US g.p.m. 39.6
17	Impeller type	Radial impeller			Head	Nominal ft
18	Head H(Q=0)	ft	51			at Qmax ft 28.5
19	Max. shaft power	hp	1.4			at Qmin ft 47.3
20	Pump weight	kg		Shaft power	hp	
21	Total weight	lb	112.4	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	Rigid shaft coupling	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

42	Manufacturer	Lowara PLM			
43	Specific design	IE3 3ph Flange Motor - Premium Efficiency			
44	Type	PLM 90 B5 1,1 kW			
45	Rated power	1.4751 hp	Rated current	4.61 A	
46	Nominal speed	1740 rpm	Rated voltage	220 V	
47	Frame size	90	Service factor	1	
48	Weight	lb 42.8	Degree of protection	IP55	

Remarks

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Project	Xylect-20183008	Created by		Last update	1/12/2025
Block	ESHS 40-250/150/P26PSSA	Created on	1/12/2025		

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Performance curve

Company name
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Phone number
e-mail address

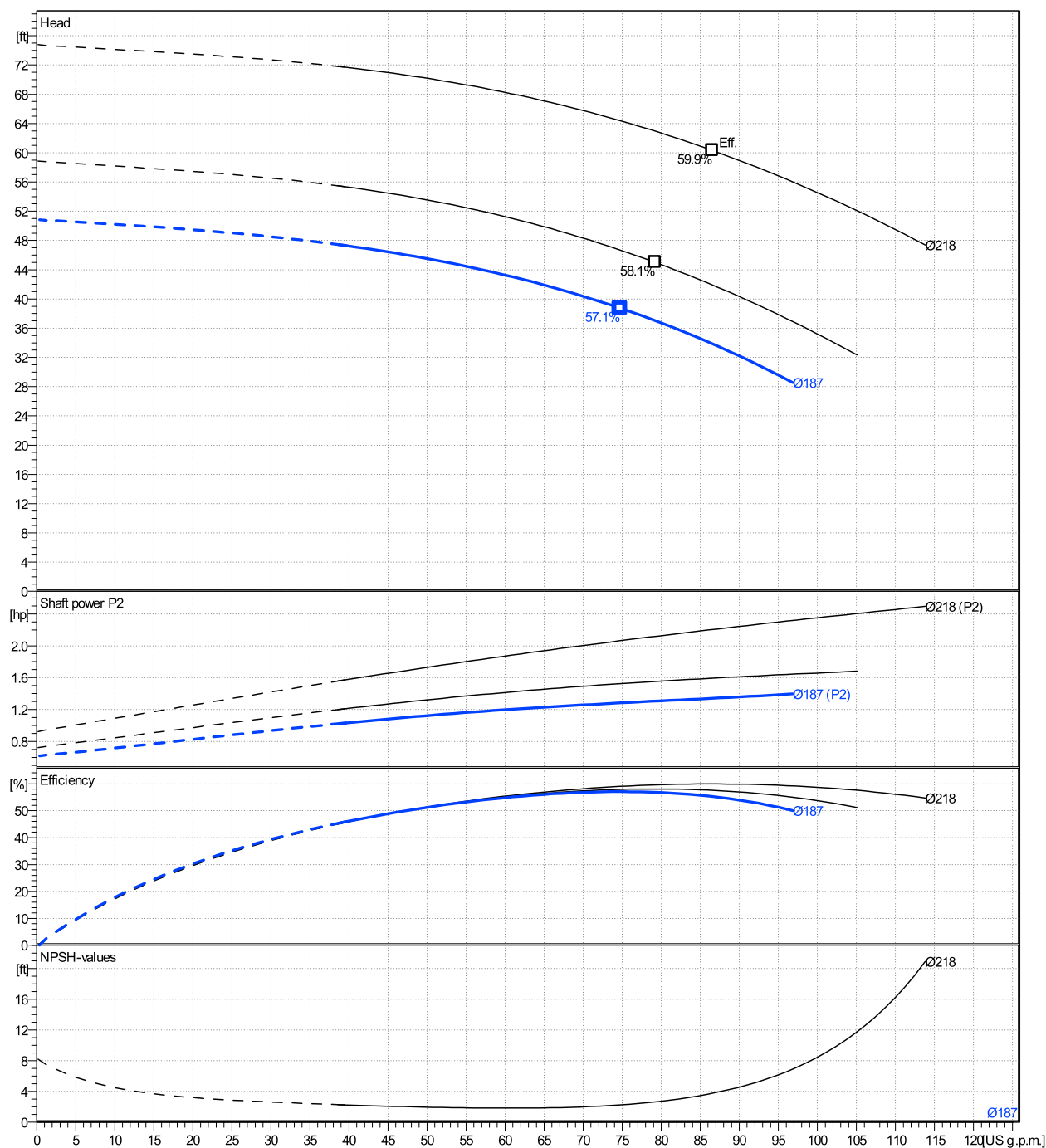
	Ø mm	Pump capacity Operating range η			Pump head η		Shaft power P2 η			Frequency	Hz	60
		Min. US g.p.m.	Max. US g.p.m.	Max. US g.p.m.	H(Q=0) ft	Max. ft	P2(Q=0) hp	Max. hp	Max. hp	Operating speed	rpm	1750
actual	7 3/8	39.6	96.9	74.7	50.8	38.7		1.4	1.28	Nominal flow	US g.p.m.	0
Min.	0	/	/	74.7	50.8	38.7		/	1.28	Nominal head	ft	0
Max.	8 9/16	/	/	86.5	74.8	60.3		/	2.2	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



ESHS 40-250/11/P46PSSA

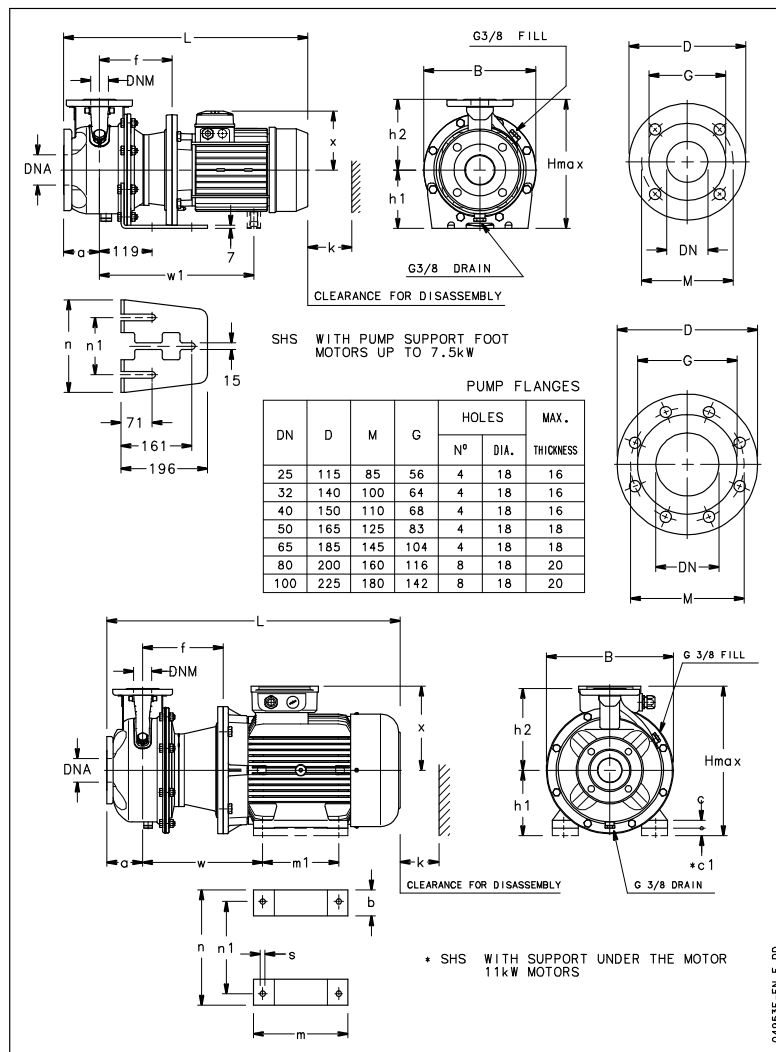
Dimensions

Company name
Contact
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e-mail address

Rigid coupling

PLM 90 B5 1,1 kW

Electrical and dimensional data refer to IE3 motor



Dimensions [inch]

a	3 ¹⁵ / ₁₆		
B	13 ⁹ / ₁₆		
DNA	2 ⁹ / ₁₆		
DNM	1 ⁹ / ₁₆		
f	6 ¹ / ₈		
h1	7 ¹ / ₁₆		
h2	8 ⁷ / ₈		
Hmax	15 ¹⁵ / ₁₆		
k	4 ³ / ₁₆		
L	21 ³ / ₄		
n	10 ⁷ / ₁₆		
n1	5 ¹ / ₈		
x	5 ¹ / ₄		

Weight

Total weight	51 kg
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Connections

Suction nozzle	Discharge nozzle
DN 65	DN 40
PN 16	PN 16
EN1092-1	EN1092-1
D	7 ⁵ / ₁₆
Dia. Holes	1 ¹¹ / ₁₆
DN	2 ⁹ / ₁₆
G	4 ¹ / ₈
M	5 ¹¹ / ₁₆
Max thickness	1 ¹⁵ / ₁₆

Dimensions and weight without obligation

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