

# ESHS 80-250/110/P46PSNA

## 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	9 5/16		
12	Operating speed	1750 rpm	Stages		1	designed	inch	9 5/16	
13	Suction nozzle	DN 100	/	PN 16	/	EN1092-1	Min.	inch	7 15/16
14	Discharge nozzle	DN 80	/	PN 16	/	EN1092-1	Flow		Nominal US g.p.m.
15	Max. casing pressure	psi	174		Flow	Max-	US g.p.m.	634	
16	Max. working pressure	psi	45.9			Min-	US g.p.m.	198.1	
17	Impeller type	Radial impeller		Head	Nominal	ft			
18	Head H(Q=0)	ft	110		at Qmax	ft	49		
19	Max. shaft power	hp	12.5		at Qmin	ft	101.2		
20	Pump weight	kg			Shaft power	hp			
21	Total weight	lb	337.3		Efficiency	%			
					NPSH 3%	ft			

Materials			
22		<b>Pump</b>	<b>Shaft Seal</b>
23	Pump body	Stainless steel / AISI 316L	Single mechanical seal, without shaft sleeve
24	Impeller	Stainless steel / ASTMCF8M	Uniten 3K
25	SEAL HOUSING	Stainless steel / AISI 316L	Mechanical seal diameter
26	Wear ring	Stainless steel / AISI 316L	1. Rotating ring
27	Counterwear ring	Stainless steel / AISI 316L	2. Stationary ring
28	Rigid shaft coupling	Stainless steel / AISI 316L	3. Secondary seal
29	Impeller locknut and washer	Stainless steel / AISI 316	4. Springs
30	Tab	Stainless steel / AISI 316L	5. Others
31	Fill/drain plugs	Stainless steel / AISI 316	Gaskets of the pump
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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 160 B35 11 kW	
45	Rated power	14.751 hp	Rated current
46	Nominal speed	1758 rpm	Rated voltage
47	Frame size	160	Service factor
48	Weight	lb 275.6	Degree of protection

Remarks	
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# ESHS 80-250/110/P46PSNA

## Performance curve

Company name  
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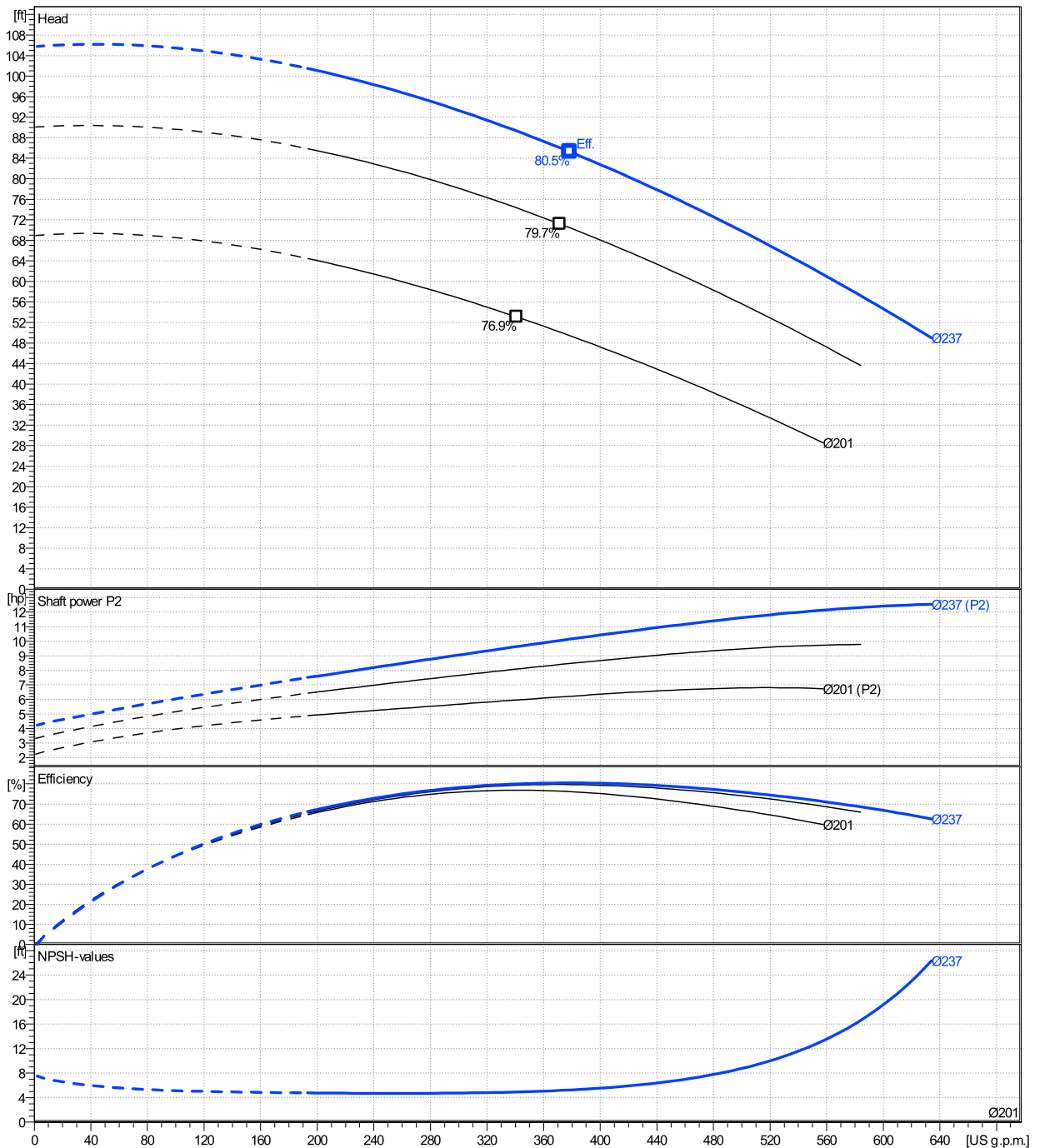
	Ø mm	Pump capacity			Pump head		Shaft power P2			Frequency	Hz	60
		Operating range Min. US g.p.m.	Max. US g.p.m.	η Max. US g.p.m.	H(Q=0) ft	η Max. ft	P2(Q=0) hp	Max. hp	η Max. hp	Operating speed	rpm	1750
actual	9 5/16	198	634	378	106	85.3		12.5	10.1	Nominal flow	US g.p.m.	0
Min.	0	/	/	341	69	53.1		/	5.96	Nominal head	ft	0
Max.	9 5/16	/	/	378	106	85.3		/	10.1	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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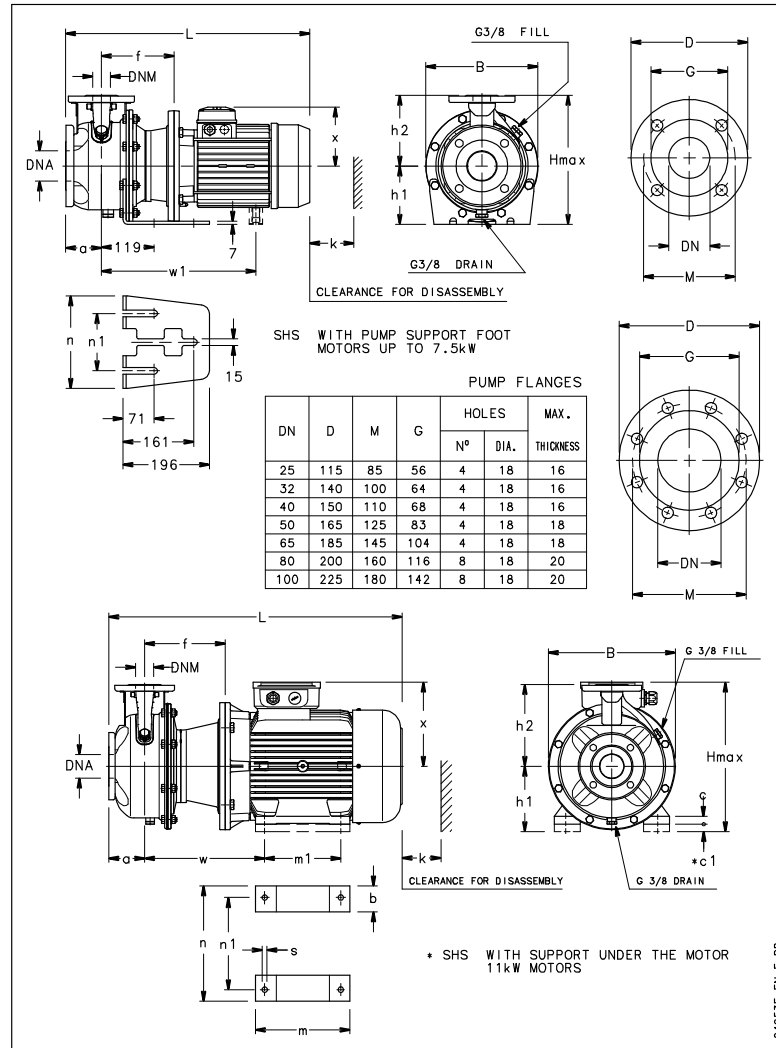
## Dimensions

Company name  
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Rigid coupling

PLM 160 B35 11 kW

Electrical and dimensional data refer to IE3 motor



### Dimensions [ inch ]

a	4 <sup>15</sup> / <sub>16</sub>		
B	15 <sup>1</sup> / <sub>16</sub>		
b	1 <sup>15</sup> / <sub>16</sub>		
c	3 <sup>1</sup> / <sub>16</sub>		
DNA	3 <sup>15</sup> / <sub>16</sub>		
DNM	3 <sup>3</sup> / <sub>8</sub>		
f	8 <sup>3</sup> / <sub>4</sub>		
h1	7 <sup>7</sup> / <sub>8</sub>		
h2	11 <sup>1</sup> / <sub>32</sub>		
Hmax	18 <sup>7</sup> / <sub>8</sub>		
k	6 <sup>5</sup> / <sub>16</sub>		
L	33 <sup>1</sup> / <sub>8</sub>		
m	11 <sup>15</sup> / <sub>16</sub>		
m1	8 <sup>1</sup> / <sub>4</sub>		
n	11 <sup>15</sup> / <sub>16</sub>		
n1	10		
s	9 <sup>1</sup> / <sub>16</sub>		
w	13		
x	9 <sup>7</sup> / <sub>16</sub>		

### Weight

<b>Total weight</b>	<b>153 kg</b>
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### Connections

Suction nozzle		Discharge nozzle	
DN 100		DN 80	
PN 16		PN 16	
EN1092-1		EN1092-1	
D	8 <sup>7</sup> / <sub>8</sub>	D	7 <sup>7</sup> / <sub>8</sub>
Dia. Holes	1 <sup>1</sup> / <sub>16</sub>	Dia. Holes	1 <sup>1</sup> / <sub>16</sub>
DN	3 <sup>15</sup> / <sub>16</sub>	DN	3 <sup>1</sup> / <sub>8</sub>
G	5 <sup>9</sup> / <sub>16</sub>	G	4 <sup>1</sup> / <sub>2</sub>
M	7 <sup>1</sup> / <sub>16</sub>	M	6 <sup>5</sup> / <sub>16</sub>
Max thickness	13	Max thickness	13

### Dimensions and weight without obligation

Project	Xylect-20183008	Created by		Last update	1/12/2025
Block	ESHS 80-250/110/P46PSNA	Created on	1/12/2025		