

# ESHF 50-250/185/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/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 8 3/8
13	Suction nozzle	DN 65 /	PN 16 /	EN1092-1		designed inch 7 7/8
14	Discharge nozzle	DN 50 /	PN 16 /	EN1092-1		Min. inch 7 7/16
15	Max. casing pressure	psi	174			Flow
16	Max. working pressure	psi	111			
17	Impeller type	Radial impeller				Max- US g.p.m. 365.4
18	Head H(Q=0)	ft	260			Min- US g.p.m. 158.5
19	Max. shaft power	hp	23.6			Head
20	Pump weight	kg				Nominal ft
21	Total weight	lb	374.8			at Qmax ft 150.9
						at Qmin ft 245.5
						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	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)
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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	PLM 160 B3 18,5 kW		Shaft diameter	Pump 0 inch	Motor 1 5/8 inch	
45	Rated power	24.809 hp	Rated current	33.7 A	Frame size	Not applicable	
46	Nominal speed	3540 rpm	Rated voltage	380 V	Spacer length	inch	Not applicable
47	Frame size	160	Service factor	1	Weight	lb	
48	Weight	lb 235.9	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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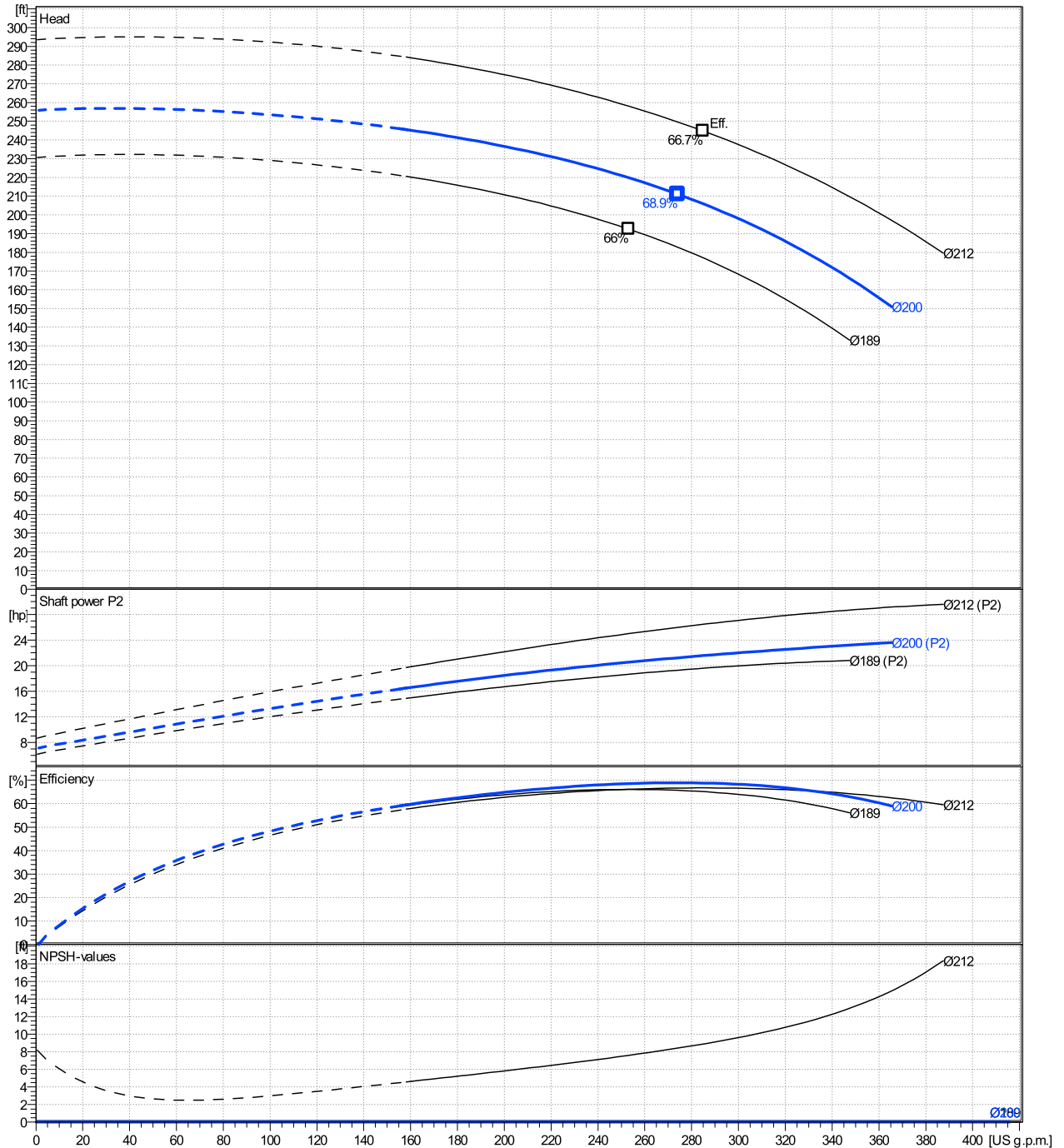
	Ø mm	Pump capacity Operating range η			Pump head H(Q=0) η		Shaft power P2 P2(Q=0) η			Frequency	Hz	
		Min. US g.p.m.	Max. US g.p.m.	Max. US g.p.m.	H(Q=0) ft	η ft	P2(Q=0) hp	Max. hp	η hp	Operating speed	rpm	
actual	7 7/8	159	365	274	256	211		23.6	21.2	Nominal flow	US g.p.m.	0
Min.	0	/	/	253	231	192		/	18.7	Nominal head	ft	0
Max.	8 3/8	/	/	285	294	245		/	26.4	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



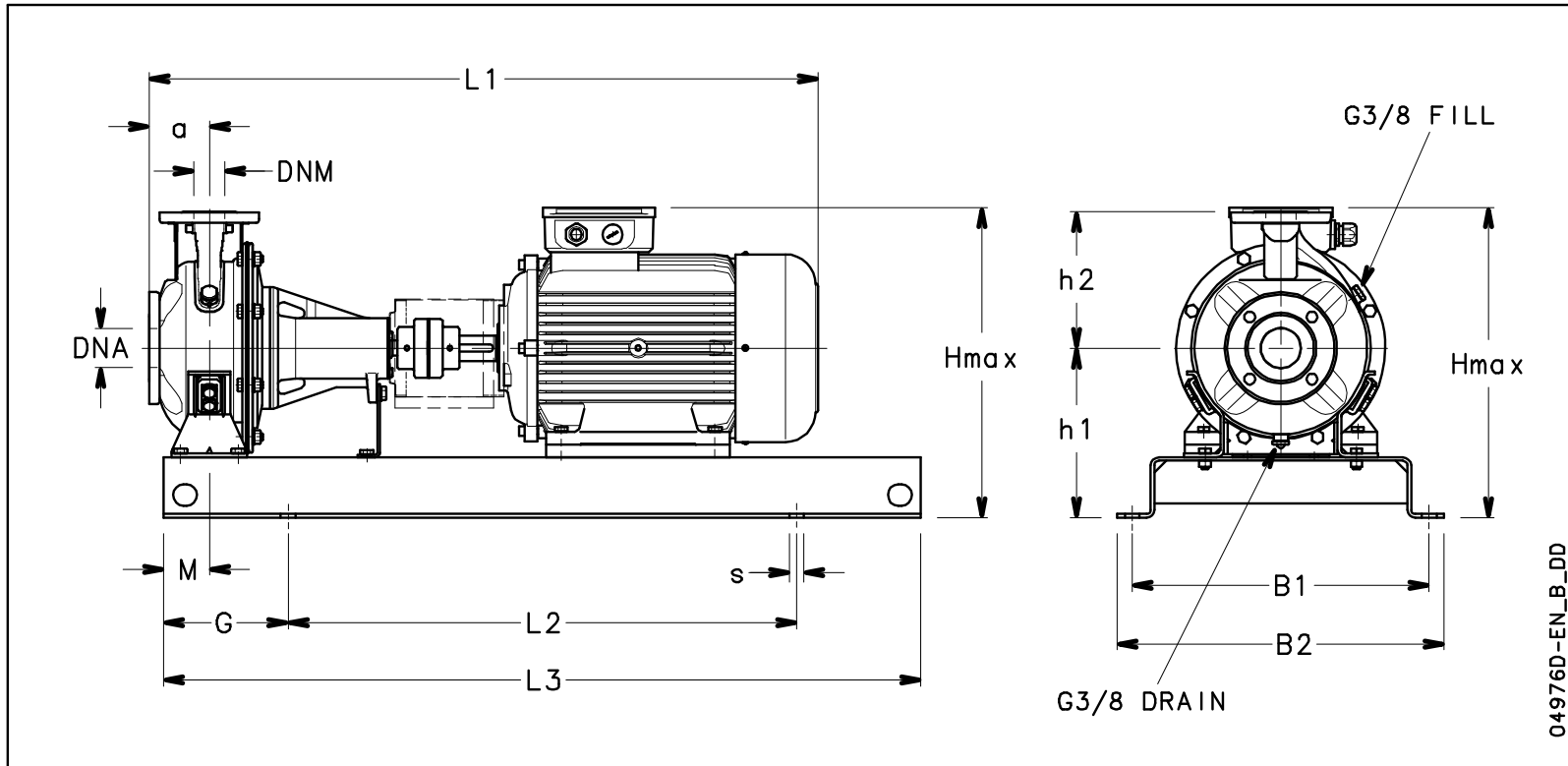
**ESHF 50-250/185/P26PSSA**

**Dimensions**

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Frame mounted  
Unit with standard coupling  
PLM 160 B3 18,5 kW

Electrical and dimensional data refer to IE3 motor



**Dimensions [ inch ]**

a	3 <sup>15</sup> / <sub>16</sub>
B1	19 <sup>5</sup> / <sub>16</sub>
B2	21 <sup>1</sup> / <sub>4</sub>
Coupling Type	02
DNA	2 <sup>9</sup> / <sub>16</sub>
DNM	1 <sup>15</sup> / <sub>16</sub>
G	8 <sup>1</sup> / <sub>16</sub>
h1	11 <sup>1</sup> / <sub>32</sub>
h2	8 <sup>7</sup> / <sub>8</sub>
Hmax	20 <sup>5</sup> / <sub>8</sub>
L1	42 <sup>1</sup> / <sub>64</sub>
L2	33 <sup>1</sup> / <sub>16</sub>
L3	49 <sup>3</sup> / <sub>16</sub>
M	2 <sup>15</sup> / <sub>16</sub>
Sscrews	M20

**Weight**

Total weight	170 kg
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**Connections**

Suction nozzle	Discharge nozzle
DN 65	DN 50
PN 16	PN 16
EN1092-1	EN1092-1
D	6 <sup>1</sup> / <sub>2</sub>
Dia. Holes	1 <sup>15</sup> / <sub>16</sub>
DN	1 <sup>15</sup> / <sub>16</sub>
G	3 <sup>1</sup> / <sub>4</sub>
M	4 <sup>15</sup> / <sub>16</sub>
Max thickness	1 <sup>15</sup> / <sub>16</sub>

**Dimensions and weight without obligation**

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

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