

ESHF 65-200/30/P45RSNA

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	°C	4
3	Nominal flow	m ³ /h	0	Max / Min Operating Temperature mech. Seal	°C	120 / -10
4	Nominal head	m	0	pH-value at t A		7
5	Static head	m	0	Density at t A	kg/m ³	1000
6	Inlet pressure	kPa	0	Kin. viscosity at t A	mm ² /s	1.569
7	Environmental temperature	°C	20	Vapor pressure at t A	kPa	100
8	Available system NPSH	m	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	1450 rpm	Stages	1		Max. mm 219	
13	Suction nozzle	DN 80 /	PN 16 /	EN1092-1		designed mm 219	
14	Discharge nozzle	DN 65 /	PN 16 /	EN1092-1		Min. mm 187	
15	Max. casing pressure	kPa	1200			Flow	
16	Max. working pressure	kPa	171.2				Nominal m ³ /h
17	Impeller type	Radial impeller				Head	
18	Head H(Q=0)	m	17				Max- m ³ /h 72
19	Max. shaft power	kW	3				Min- m ³ /h 27
20	Pump weight	kg				Nominal m	
21	Total weight	kg	137.0			at Qmax m 9	
						at Qmin m 16.3	
						Shaft power kW	
						Efficiency %	
						NPSH 3% m	

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 28 mm	
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			
Electrical and dimensional data refer to IE3 motor							
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 mm	Motor 28 mm
45	Rated power	3 kW	Rated current	6.62 A	Frame size	Not applicable	
46	Nominal speed	1450 rpm	Rated voltage	400 V	Spacer length	mm	Not applicable
47	Frame size	100	Service factor	1	Weight	kg	
48	Weight	kg	39.2	Degree of protection	IP55	Coupling protection	Not applicable

Base plate			Remarks			
49	Name	Not applicable				
50	Weight	kg				

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Performance curve

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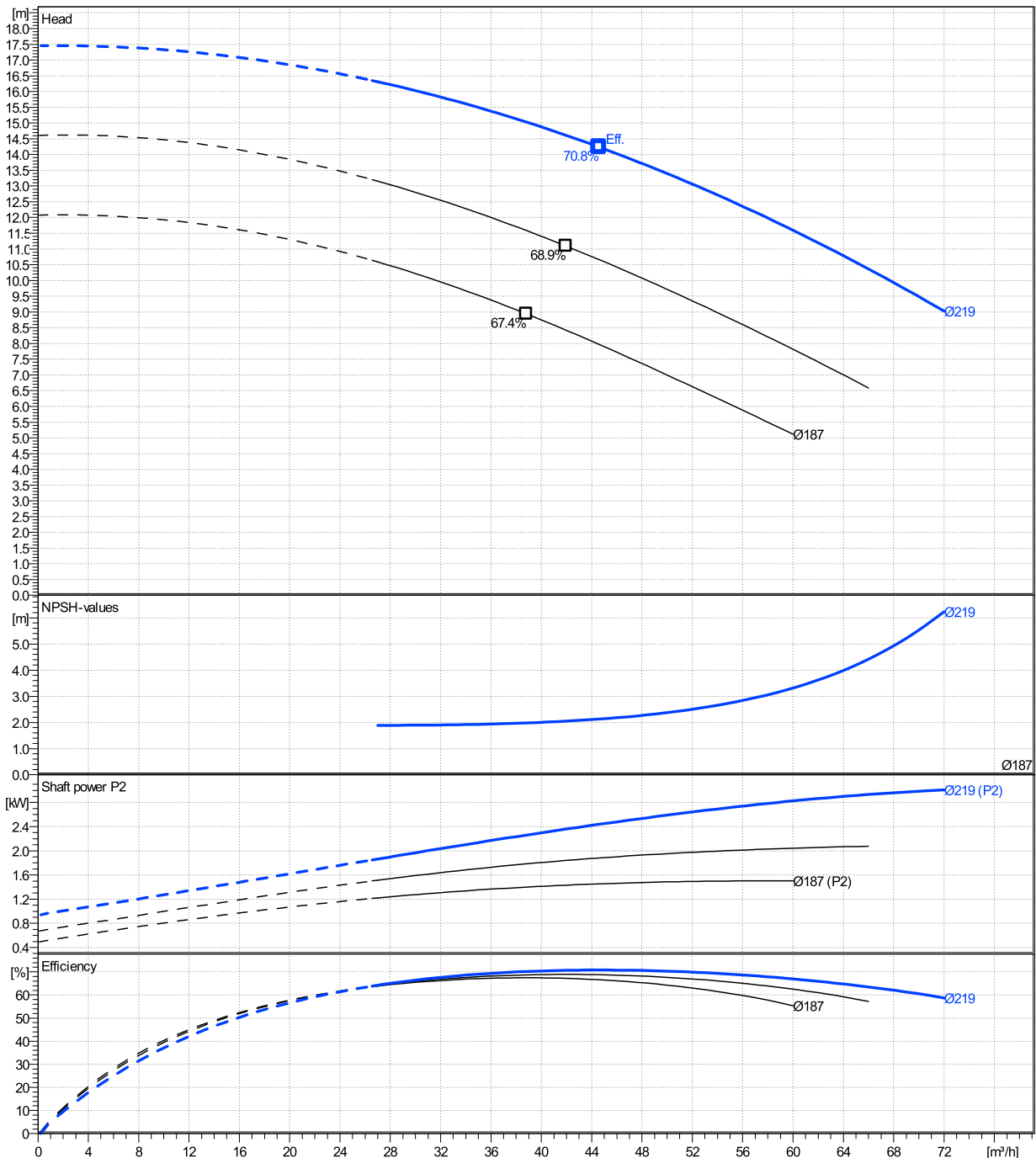
	Ø mm	Pump capacity η			Pump head η		Shaft power P2 η			Frequency	Hz	50
		Operating range Min. m³/h	Max. m³/h	Max. m³/h	H(Q=0) m	Max. m	P2(Q=0) kW	Max. kW	Max. kW	Operating speed	rpm	1450
actual	219	27	72	44.6	17.5	14.2		3.01	2.44	Nominal flow	m³/h	0
Min.	0	/	/	38.8	12.1	8.94		/	1.4	Nominal head	m	0
Max.	219	/	/	44.6	17.5	14.2		/	2.44	Inlet pressure	kPa	0
										Static head	m	0

Power datas referred to:

hydr. Performance acceptance acc. To EN ISO 9906 Class Grade 3B

Water, pure [100%] ; 4°C; 1000kg/m³; 1.57mm²/s

MEI: N.A - according to Ecodesign Directive 2009/125/EC and Regulation (EU) No.547/2012



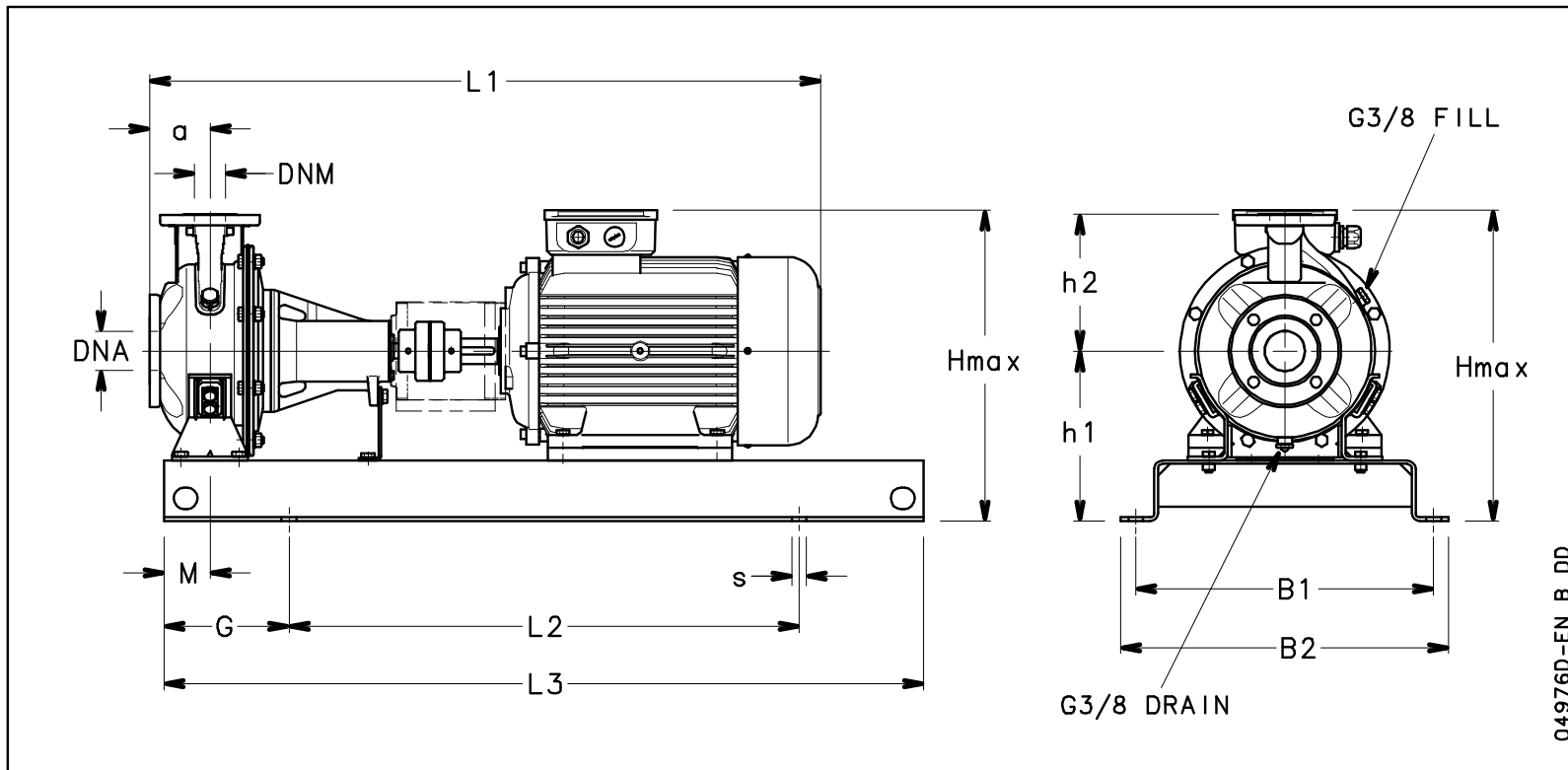
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Dimensions

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Frame mounted
Unit with standard coupling
PLM 100 B3 3 kW

Electrical and dimensional data refer to IE3 motor



Dimensions [mm]

a	100
B1	440
B2	490
Coupling Type	PL
DNA	80
DNM	65
G	190
h1	280
h2	225
Hmax	505
L1	888
L2	740
L3	1120
M	75
Sscrews	M20

Weight

Total weight	137 kg
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Connections

Suction nozzle	Discharge nozzle
DN 80	DN 65
PN 16	PN 16
EN1092-1	EN1092-1
D 200	D 185
Dia. Holes 18	Dia. Holes 18
DN 80	DN 65
G 114	G 104
M 160	M 145
Max thickness 20	Max thickness 18

Dimensions and weight without obligation

Project	Xylect-20123150
Block	ESHF 65-200/220/L25VSNA

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