

ESHS 80-160/150/P25VSNA**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	m³/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/m³	1000
6	Inlet pressure	kPa	0	Kin. viscosity at t A	mm²/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					
11	Design	Horizontal		Impeller Ø	Max.	mm 186
12	Operating speed	2900 rpm	Stages 1		designed	mm 177
13	Suction nozzle	DN 100 /	PN 16 /		Min.	mm 169
14	Discharge nozzle	DN 80 /	PN 16 /	Flow	Nominal	m³/h
15	Max. casing pressure	kPa 1200			Max-	m³/h 210
16	Max. working pressure	kPa 400.2			Min-	m³/h 72
17	Impeller type	Radial impeller		Head	Nominal	m
18	Head H(Q=0)	m 41			at Qmax	m 15.2
19	Max. shaft power	kW 14.8			at Qmin	m 38.6
20	Pump weight	kg		Shaft power	kW	
21	Total weight	kg 152.0		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	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 160 B35 15 kW		
45	Rated power	15 kW	Rated current	26.6 A
46	Nominal speed	2940 rpm	Rated voltage	400 V
47	Frame size	160	Service factor	1
48	Weight	kg 105.0	Degree of protection	IP55

Remarks

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Project Xylect-20117698
Block ESHS 80-160/185/P25VSNACreated by
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Program version
75.0 - 06/11/2024 (Build 274)Data version
15/12/2024 18:59User group(s)
Xylem: United Kingdom - EXT

ESHS 80-160/150/P25VSNA

Performance curve

Company name
Contact
Phone number
e-mail address

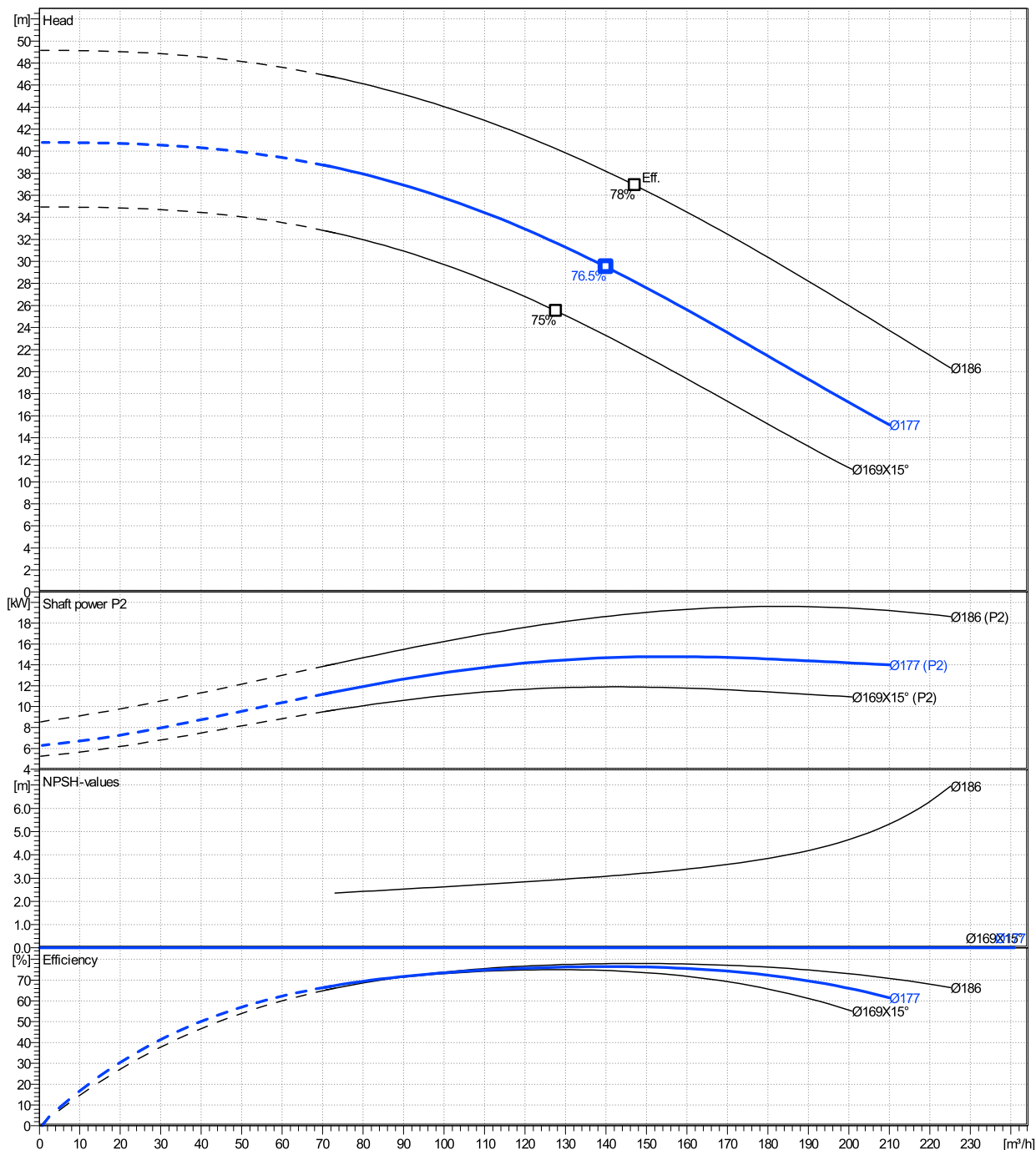
	Ø mm	Pump capacity			Pump head		Shaft power P2			Frequency		Hz
		Operating range Min. m³/h	Max. m³/h	η Max. m³/h	H(Q=0) m	η Max. m	P2(Q=0) kW	Max. kW	η Max. kW	Operating speed	rpm	
actual	177	72	210	140	40.8	29.5		14.8	14.7	Nominal flow	m³/h	0
Min.	0	/	/	128	34.9	25.5		/	11.8	Nominal head	m	0
Max.	186	/	/	147	49.1	36.9		/	18.9	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



Suction nozzle		Discharge nozzle	
DN 100		DN 80	
PN 16		PN 16	
EN1092-1		EN1092-1	
D	225	D	200
Dia. Holes	8	Dia. Holes	8
DN	100	DN	80
G	142	G	114
M	180	M	160
Max thickness	20	Max thickness	20