

ESHS 65-160/55/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 176
12	Operating speed	2900 rpm	Stages 1		designed	mm 140
13	Suction nozzle	DN 80 /	PN 16 /		Min.	mm 127
14	Discharge nozzle	DN 65 /	PN 16 /	Flow	Nominal	m³/h
15	Max. casing pressure	kPa	1200		Max-	m³/h 114
16	Max. working pressure	kPa	241.7		Min-	m³/h 34
17	Impeller type	Radial impeller		Head	Nominal	m
18	Head H(Q=0)	m	25		at Qmax	m 7.2
19	Max. shaft power	kW	4.9		at Qmin	m 23.8
20	Pump weight	kg		Shaft power	kW	
21	Total weight	kg	78.0	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	22 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 132R B5 5,5 kW		
45	Rated power	5.5 kW	Rated current	10.4 A
46	Nominal speed	2880 rpm	Rated voltage	400 V
47	Frame size	132R	Service factor	1
48	Weight	kg 37.6	Degree of protection	IP55

Remarks

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Block	ESHS 65-160/110/P25VSNA	Created on	12/18/2024		

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Performance curve

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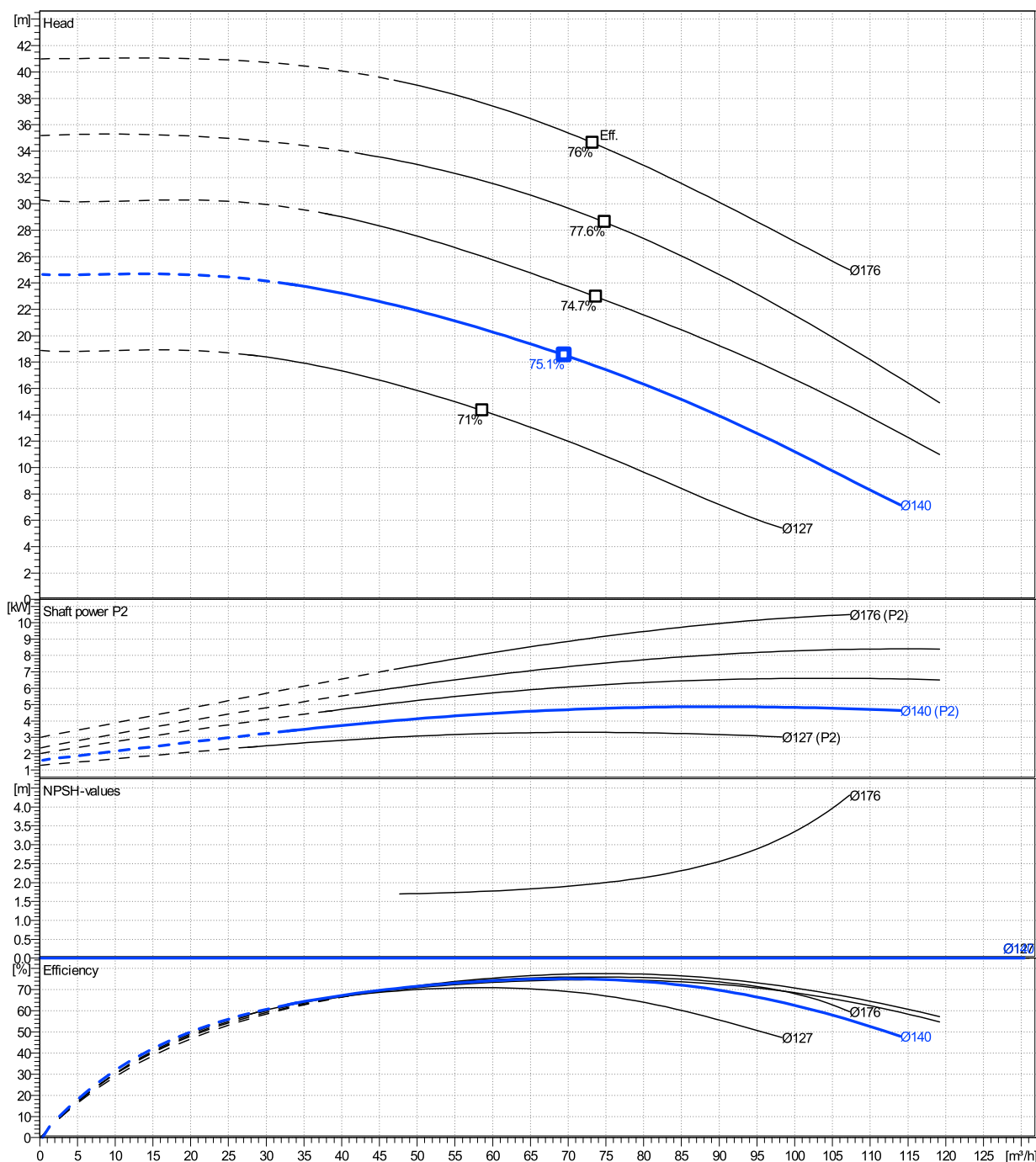
	Ø mm	Pump capacity Operating range			Pump head		Shaft power P2			Frequency		Hz
		Min. m³/h	Max. m³/h	Max. η m³/h	H(Q=0) m	Max. η m	P2(Q=0) kW	Max. kW	Max. η kW	Operating speed	rpm	
actual	140	34	114	69.5	24.6	18.5		4.87	4.69	Nominal flow	m³/h	0
Min.	0	/	/	58.6	18.9	14.3		/	3.22	Nominal head	m	0
Max.	176	/	/	73.3	41	34.6		/	9.07	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



ESHS 65-160/55/P25VSNA

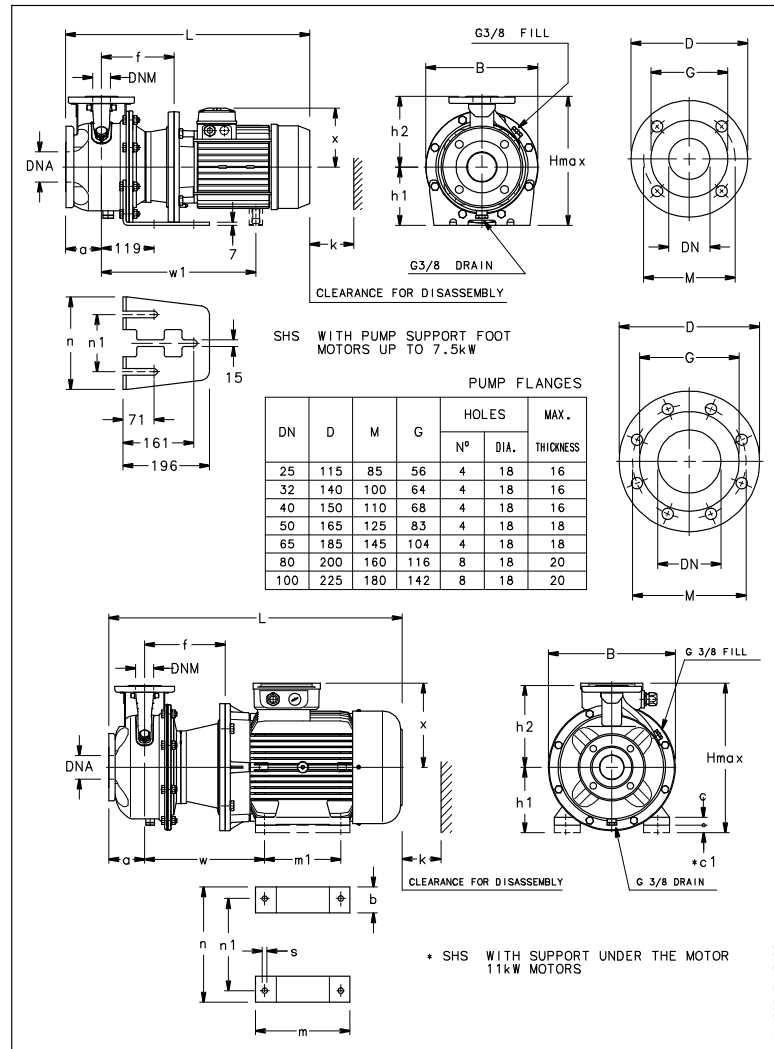
Dimensions

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Rigid coupling

PLM 132R B5 5,5 kW

Electrical and dimensional data refer to IE3 motor



Dimensions		[mm]	
a	100		
B	310		
DNA	80		
DNM	65		
f	192		
h1	160		
h2	200		
Hmax	360		
k	130		
L	667		
n	245		
n1	130		
w1	399		
x	168		

Weight

Total weight 78 kg

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

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