

ESHS 65-160/05/X45RSNA**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	1450 rpm	Stages 1		designed	mm 127
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 48
16	Max. working pressure	kPa 46.5			Min-	m³/h 14.7
17	Impeller type	Radial impeller		Head	Nominal	m
18	Head H(Q=0)	m 4.7			at Qmax	m 1.4
19	Max. shaft power	kW .4			at Qmin	m 4.5
20	Pump weight	kg		Shaft power	kW	
21	Total weight	kg 34.0		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

42	Manufacturer	Lowara LM			
43	Specific design	IE2 3ph Flange Motor - Premium Efficiency			
44	Type	LLM480B5/305			
45	Rated power	0.55 kW	Rated current	1.35 A	
46	Nominal speed	1420 rpm	Rated voltage	400 V	
47	Frame size	80	Service factor	1	
48	Weight	kg 8.2	Degree of protection	IP55	

Remarks

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Performance curve

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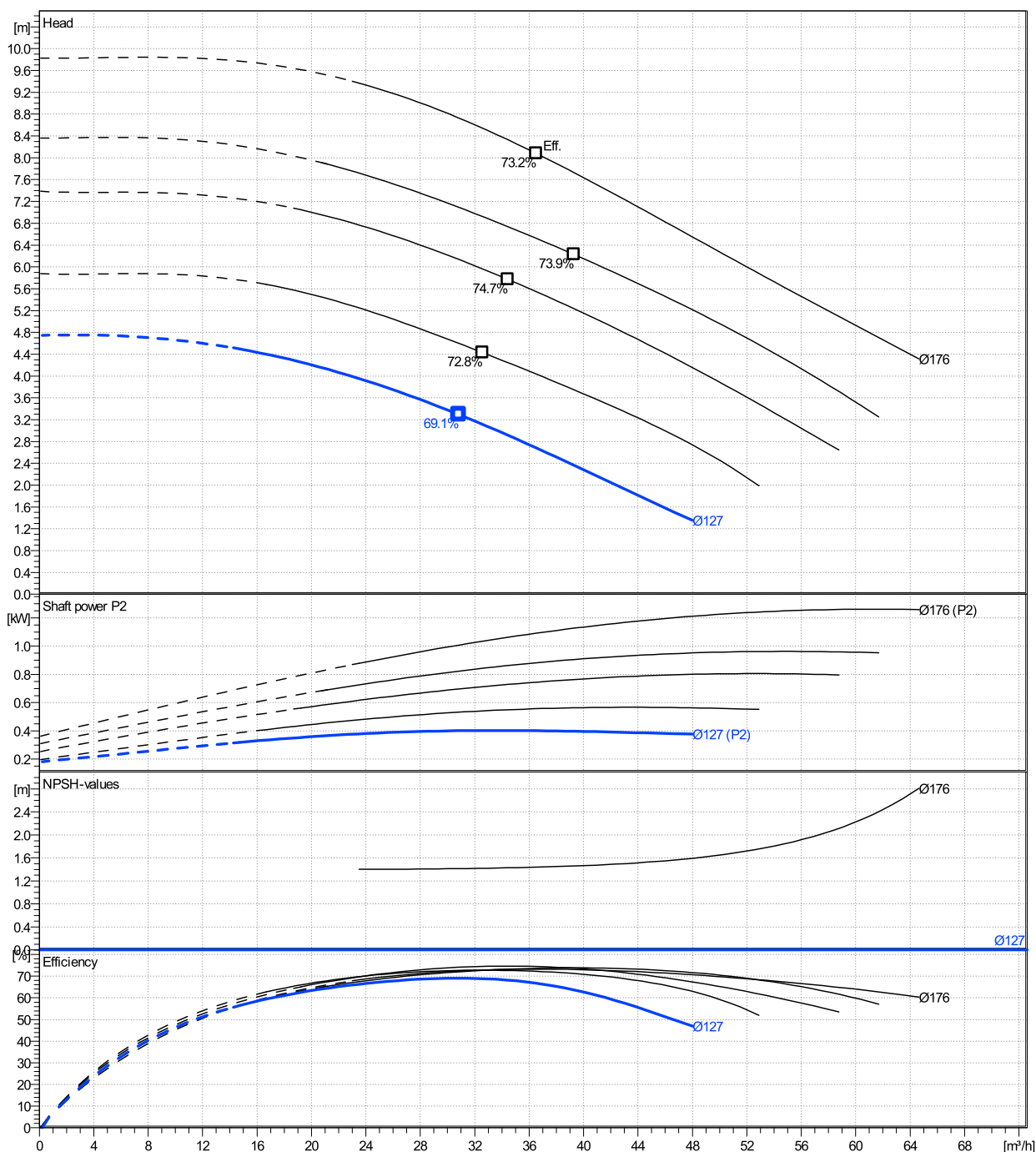
	Ø mm	Pump capacity Operating range Min. Max. η m³/h m³/h m³/h			Pump head H(Q=0) η m m		Shaft power P2 P2(Q=0) Max. η kW kW kW			Frequency Hz 50		
		Min. m³/h	Max. m³/h	Max. m³/h	H(Q=0) m	η m	P2(Q=0) kW	Max. kW	η kW	Operating speed rpm	1450	
actual	127	14.7	48	30.8	4.74	3.3		0.403	0.401	Nominal flow m³/h	0	
Min.	0	/	/	30.8	4.74	3.3		/	0.401	Nominal head m	0	
Max.	176	/	/	36.5	9.83	8.08		/	1.09	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



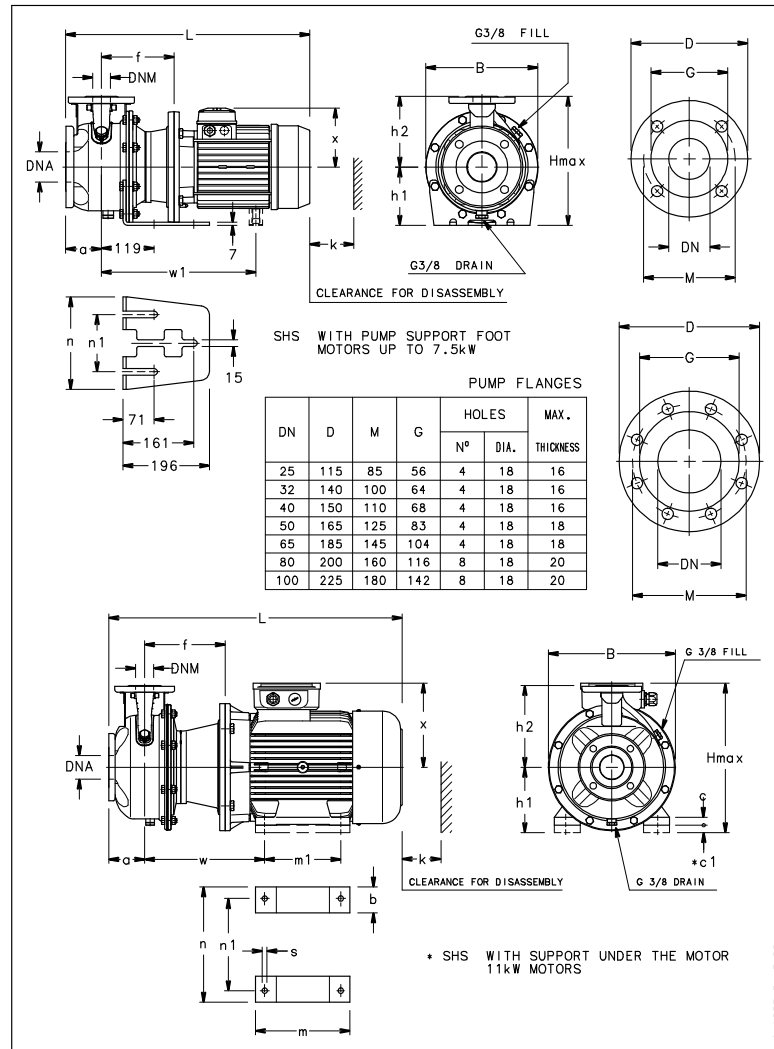
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Dimensions

Company name
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Rigid coupling

LLM480B5/305



Dimensions		[mm]	
a	100		
B	310		
DNA	80		
DNM	65		
f	155		
h1	160		
h2	200		
Hmax	360		
k	130		
L	518		
n	245		
n1	130		
x	129		

Weight	
Total weight	34 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

Project	Xylect-20117698	Created by		Last update	12/18/2024
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