

ESHE 40-160/05/X45RSSA**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 171
12	Operating speed	1420 rpm	Stages 1		designed	mm 171
13	Suction nozzle	DN 65 /	PN 16 /		Min.	mm 152
14	Discharge nozzle	DN 40 /	PN 16 /	Flow	Nominal	m³/h
15	Max. casing pressure	kPa 1200			Max-	m³/h 24.5
16	Max. working pressure	kPa 86.6			Min-	m³/h 8.8
17	Impeller type	Radial impeller		Head	Nominal	m
18	Head H(Q=0)	m 8.8			at Qmax	m 3.9
19	Max. shaft power	kW .5			at Qmin	m 8.1
20	Pump weight	kg		Shaft power	kW	
21	Total weight	kg 24.0		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 / AISI 316L		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	Shaft extension	Stainless steel / AISI 316L		3. Secondary seal	Fluorine rubber (FKM)	
29	Rigid shaft coupling	Stainless steel / AISI 316		4. Springs	CrNiMo - Steel	
30	Impeller locknut and washer	Stainless steel / AISI 316		5. Others	CrNiMo - Steel	
31	Tab	Stainless steel / AISI 316L		Gaskets of the pump	Fluorine rubber (FKM)	
32	Fill/drain plugs	Stainless steel / AISI 316				
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Motor data

42	Manufacturer	Lowara LM			
43	Specific design	IE2 3ph Flange Motor			
44	Type	LLM480B14/305			
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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Project	Xylect-20106422	Created by		Last update	12/16/2024
Block	ESHE 40-160/40/P25VSSA	Created on	12/16/2024		

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Performance curve

Company name
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Phone number
e-mail address

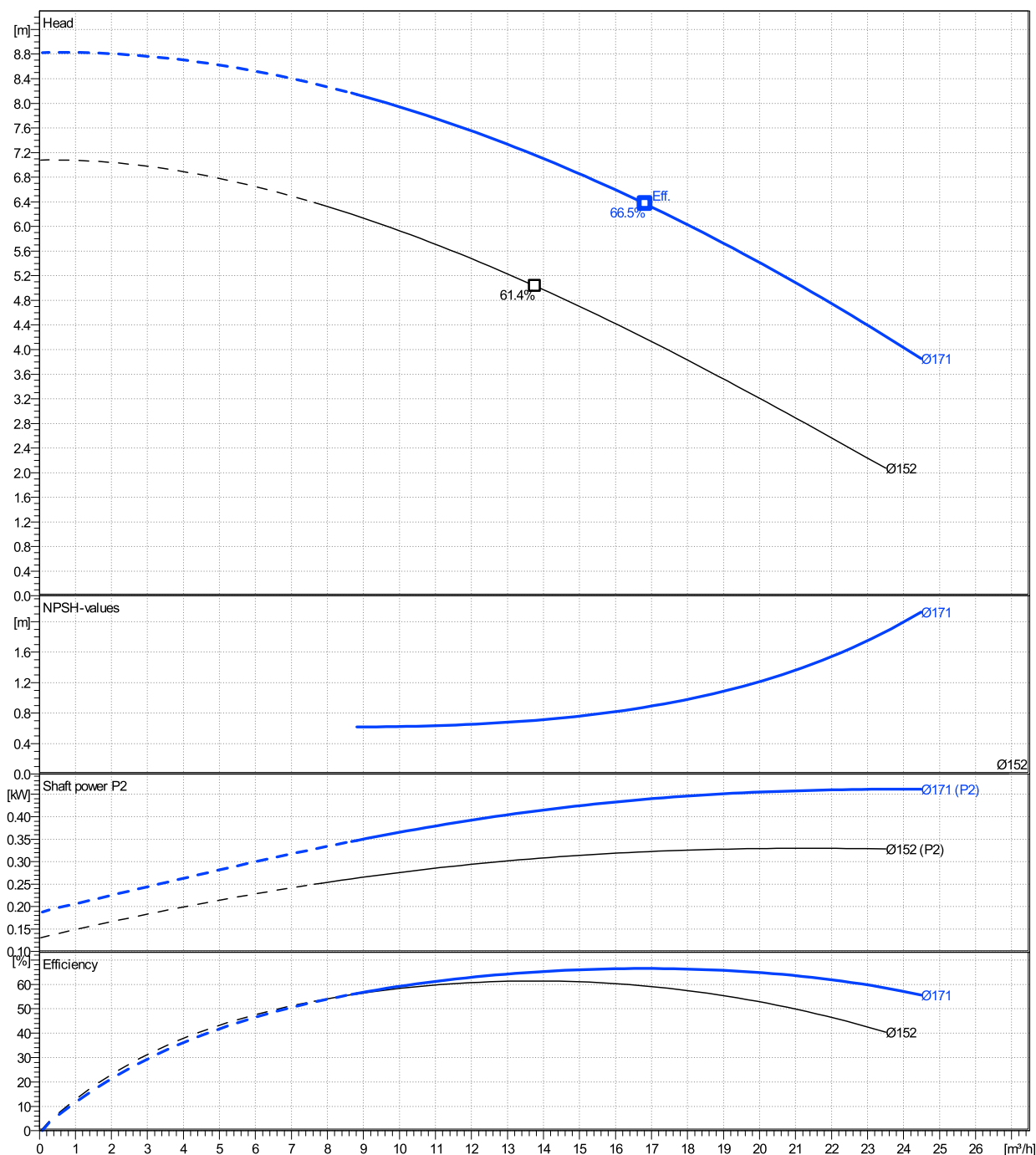
	Ø mm	Pump capacity Operating range			Pump head H(Q=0)		Shaft power P2			Frequency		Hz
		Min. m³/h	Max. m³/h	η m³/h	Max. m	η m	P2(Q=0) kW	Max. kW	η kW	Operating speed	rpm	
actual	171	8.81	24.5	16.8	8.82	6.37		0.462	0.439	Nominal flow	m³/h	0
Min.	0	/	/	13.8	7.08	5.03		/	0.307	Nominal head	m	0
Max.	171	/	/	16.8	8.82	6.37		/	0.439	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



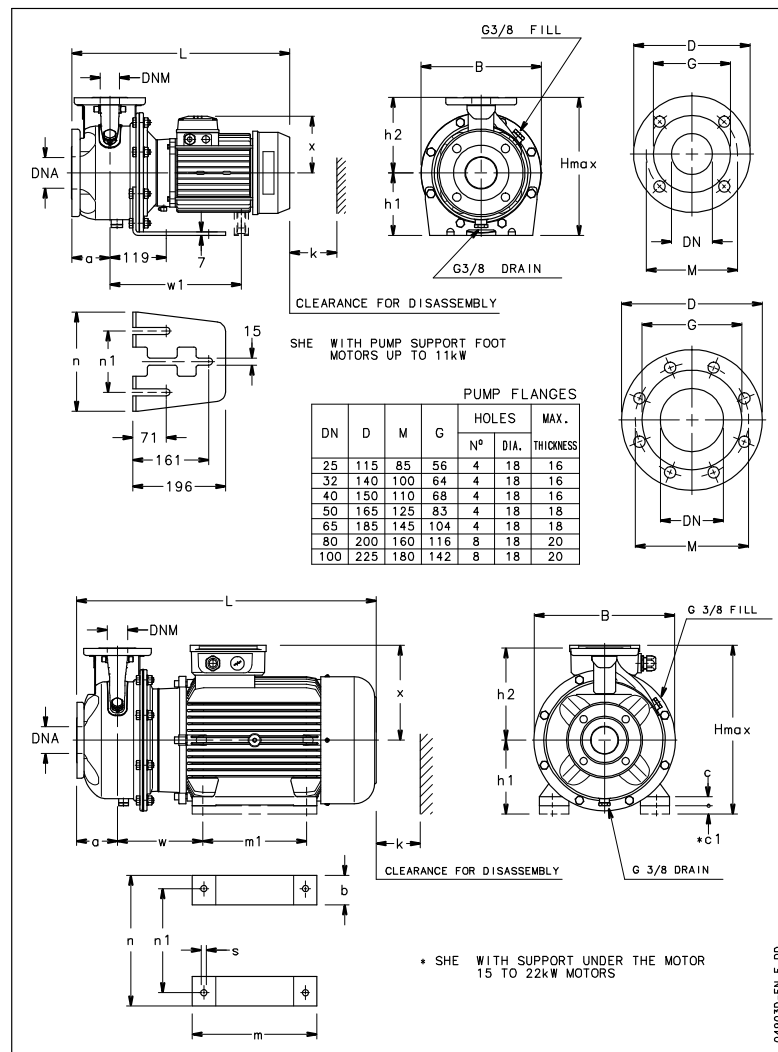
ESHE 40-160/05/X45RSSA

Dimensions

Company name
Contact
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e-mail address

Close coupled

LLM480B14/305



Dimensions		[mm]	
a	80		
B	253		
DNA	65		
DNM	40		
h1	132		
h2	160		
Hmax	292		
k	100		
L	443		
n	210		
n1	130		
x	129		

Weight	
Total weight	24 kg

Connections	
Suction nozzle	Discharge nozzle
DN 65	DN 40
PN 16	PN 16
EN1092-1	EN1092-1
D 185	D 150
Dia. Holes 18	Dia. Holes 18
DN 65	DN 40
G 104	G 68
M 145	M 110
Max thickness 18	Max thickness 16

Dimensions and weight without obligation

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