LOWARA
a xylem brand

NSCE 65-125/05/X45RCC4

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 / -25
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	4 poles motor		Impeller Ø	Max.	mm	148
11	Design	Horizontal			designed	mm	113
12	Operating speed	1420 rpm	Stages 1		Min.	mm	113
13	Suction nozzle	DN 80 / PN 16 / EN1092-2		Flow	Nominal	m³/h	
14	Discharge nozzle	DN 65 / PN 16 / EN1092-2			Max-	m³/h	58.8
15	Max. casing pressure	kPa			Min-	m³/h	11.8
16	Max. working pressure	kPa	33.2	Head	Nominal	m	
17	Impeller type		Radial impeller		at Qmax	m	1.7
18	Head H(Q=0)	m	3.4		at Qmin	m	3.4
19	Max. shaft power	kW	.4	Shaft power		kW	
20	Pump weight	kg		Efficiency		%	
21	Total weight	kg	40.0	NPSH 3%		m	

Materials

	Pump		Shaft Seal	
22				
23	Volute Casing	Cast Iron	Single mechanical seal, without shaft sleeve	
24	Casing Cover	Cast Iron	eMG12 - Ø22mm	BQ7EGG-WA
25	Impeller	Cast Iron	Mechanical seal diameter	22 mm
26	Shaft	Stainless steel	1. Rotating ring	Carbon graphite resin impregnated
27	Wear ring	Stainless steel	2. Stationary ring	SiC, silicon carbide, sintered press.less
28	Impeller lock nut and washer	Stainless steel	3. Secondary seal	Ethylene propylene rubber (EPDM)
29	Impeller key	Stainless steel	4. Springs	CrNiMo - Steel
30	Fill and drain plugs	Stainless steel	5. Others	EPDM - WRAS
31			Gaskets of the pump	Ethylene propylene rubber (EPDM)
32				
33				
34				
35				
36				
37				
38				
39				
40				
41				

Motor data

42	Manufacturer	Xylem		
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

49	
50	
50	
52	

Project	Xylect-20124328	Created by		Last update	10/30/2024
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Performance curve

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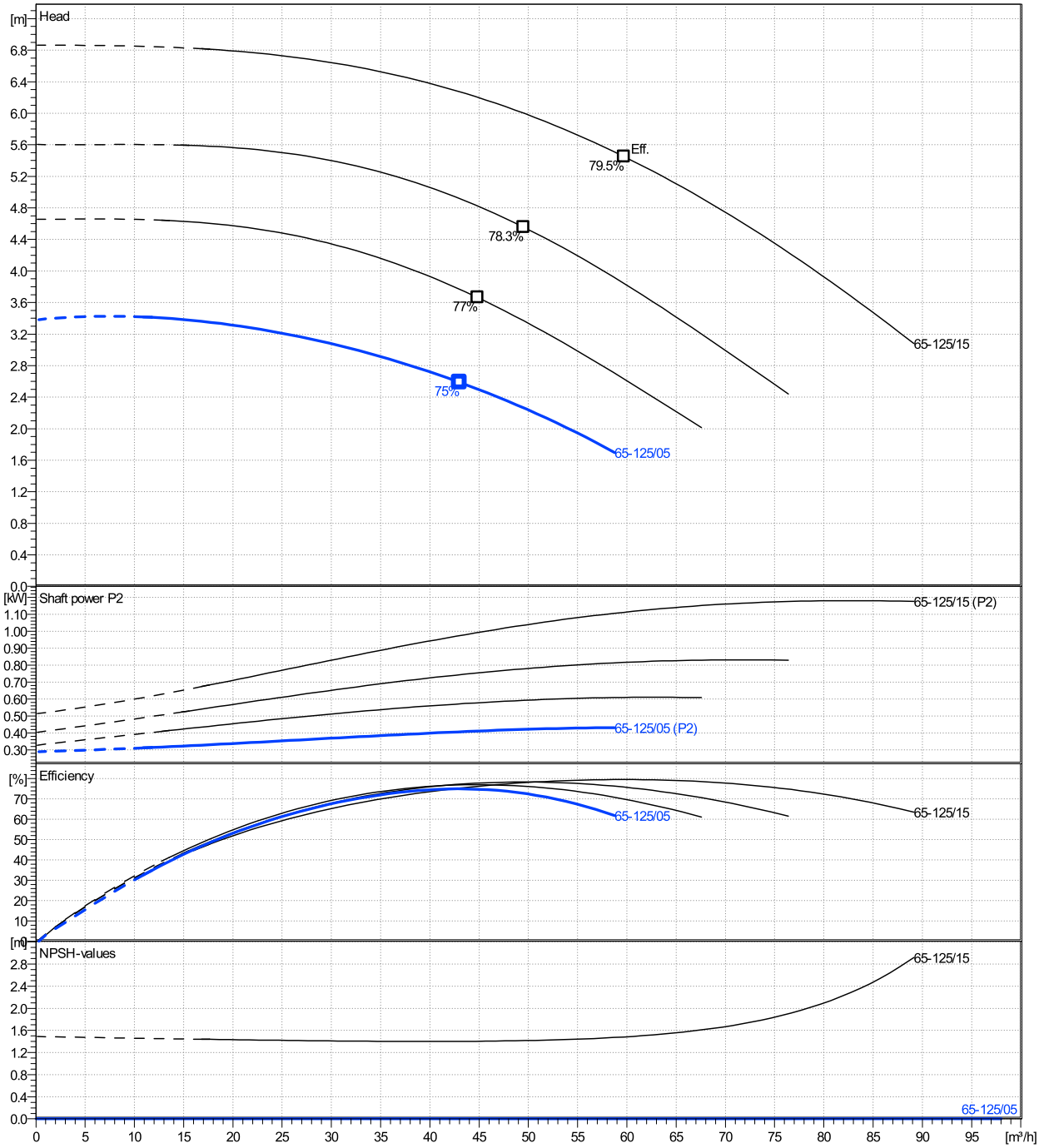
	Ø	Pump capacity Operating range Min.	Max.	η Max.	Pump head H(Q=0)	η Max.	Shaft power P2 P2(Q=0)	Max.	η Max.			
	mm	m³/h	m³/h	m³/h	m	m	kW	kW	kW	Frequency	Hz	50
										Operating speed	rpm	1420
										Nominal flow	m³/h	0
actual	113	11.8	58.8	43	3.38	2.59		0.431	0.407	Nominal head	m	0
Min.	0	/	/	43	3.38	2.59		/	0.407	Inlet pressure	kPa	0
Max.	148	/	/	59.7	6.86	5.45		/	1.11	Static head	m	0

Power datas refered to:

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

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

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



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Program version: 74.0 - 01/07/2024 (Build 136)
Data version: 07/10/2024 08:08
User group(s): Xylem: United Kingdom - EXT

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Dimensions

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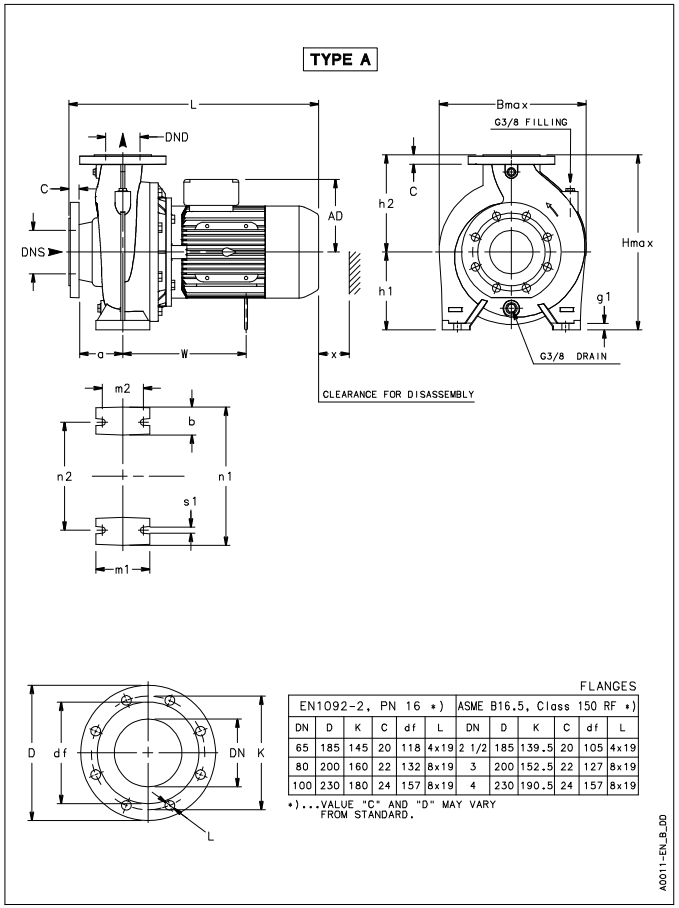
Extended shaft
4 poles motor
LLM480B14/305



EN1092-2, PN 16 *)						ASME B16.5, Class 150 RF *)					
DN	D	K	C	df	L	DN	D	K	C	df	L
65	185	145	20	118	4x19	2 1/2	185	139.5	20	105	4x19
80	200	160	22	132	8x19	3	200	152.5	22	127	8x19
100	230	180	24	157	8x19	4	230	190.5	24	157	8x19

*)...VALUE "C" AND "D" MAY VARY FROM STANDARD.

Dimensions [mm]

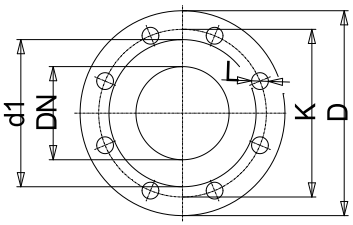
a	100		
AD	139		
B max	300		
b	65		
DND	65		
DNS	80		
g1	16		
H max	340		
h1	160		
h2	180		
L	465		
m1	125		
m2	95		
n1	280		
n2	212		
s1	14		
Type	A		
W	237		
x	100		

Weight

Total weight	**40 kg**

Connections

Suction nozzle		**Discharge nozzle**	
DN 80		**DN 65**	
PN 16		**PN 16**	
EN1092-2		**EN1092-2**	
C	22	C	20
D	200	D	185
df	132	df	118
DN	80	DN	65
K	160	K	145
L	8 x 19	L	4 x 19



Value C, D may vary from Standard

Dimensions and weight without obligation

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