

ESHE 50-200/11/P45RSSA**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 209
12	Operating speed	1435 rpm	Stages 1		designed	mm 197
13	Suction nozzle	DN 65 /	PN 16 /		Min.	mm 197
14	Discharge nozzle	DN 50 /	PN 16 /	Flow	Nominal	m³/h
15	Max. casing pressure	kPa	1200		Max-	m³/h 41.6
16	Max. working pressure	kPa	123		Min-	m³/h 17.8
17	Impeller type	Radial impeller		Head	Nominal	m
18	Head H(Q=0)	m	13		at Qmax	m 4.7
19	Max. shaft power	kW	1		at Qmin	m 11
20	Pump weight	kg		Shaft power	kW	
21	Total weight	kg	48.0	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

Electrical and dimensional data refer to IE3 motor

42	Manufacturer	Lowara PLM	
43	Specific design	IE3 3ph Flange Motor	
44	Type	PLM 90 B14 1,1 kW	
45	Rated power	1.1 kW	Rated current 2.63 A
46	Nominal speed	1435 rpm	Rated voltage 400 V
47	Frame size	90	Service factor 1
48	Weight	kg 17.4	Degree of protection IP55

Remarks

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Project	Xylect-20106422	Created by		Last update	12/16/2024
Block	ESHE 50-200/110/P25VSSA	Created on	12/16/2024		

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Performance curve

Company name
Contact
Phone number
e-mail address

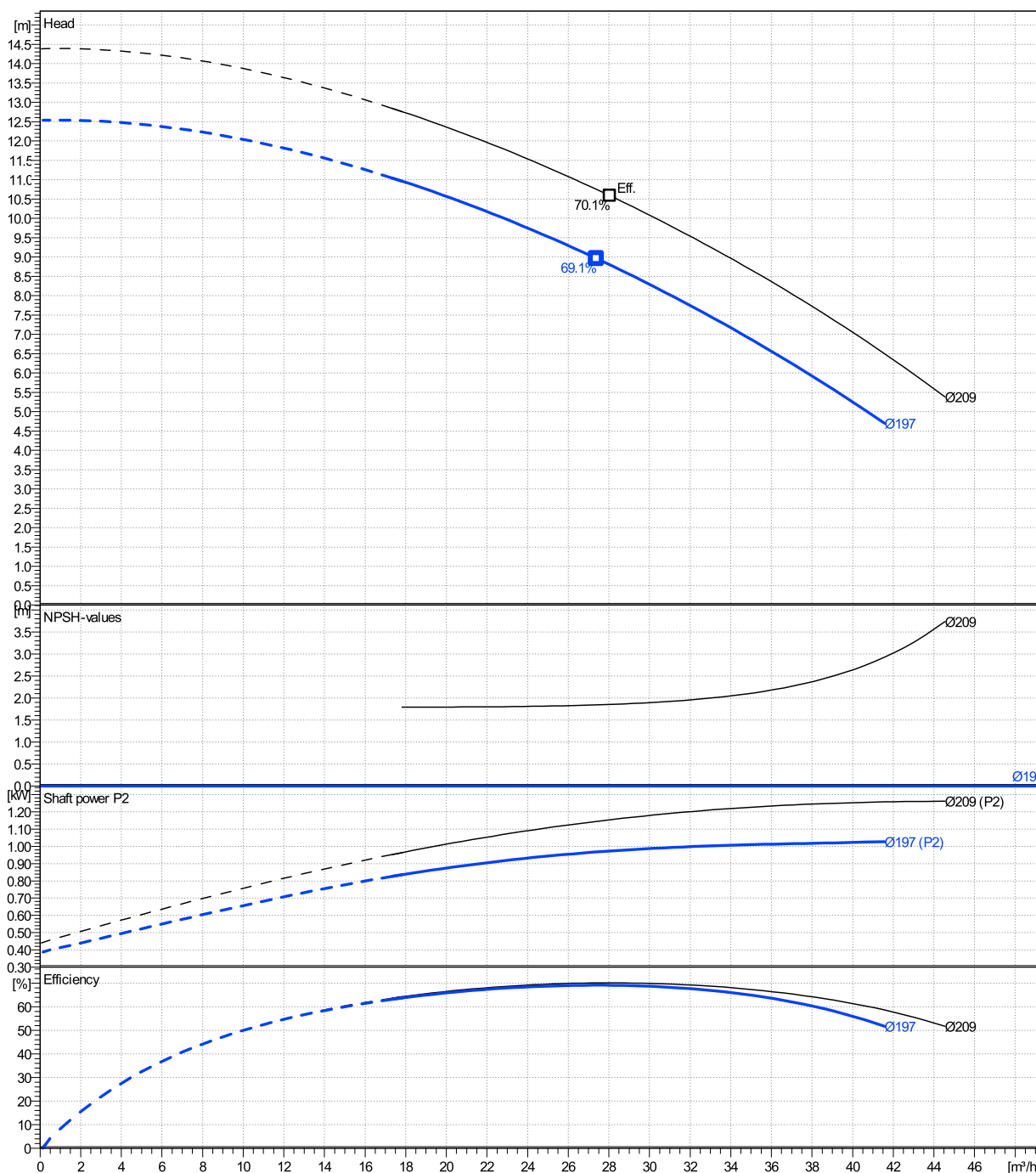
	Ø mm	Pump capacity Operating range			Pump head		Shaft power P2			Frequency		Hz
		Min. m³/h	Max. m³/h	η m³/h	H(Q=0) m	η Max. m	P2(Q=0) kW	Max. kW	η Max. kW	Operating speed	rpm	
actual	197	17.8	41.6	27.4	12.5	8.96		1.03	0.968	Nominal flow	m³/h	0
Min.	0	/	/	27.4	12.5	8.96		/	0.968	Nominal head	m	0
Max.	209	/	/	28.1	14.4	10.6		/	1.15	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 50-200/11/P45RSSA

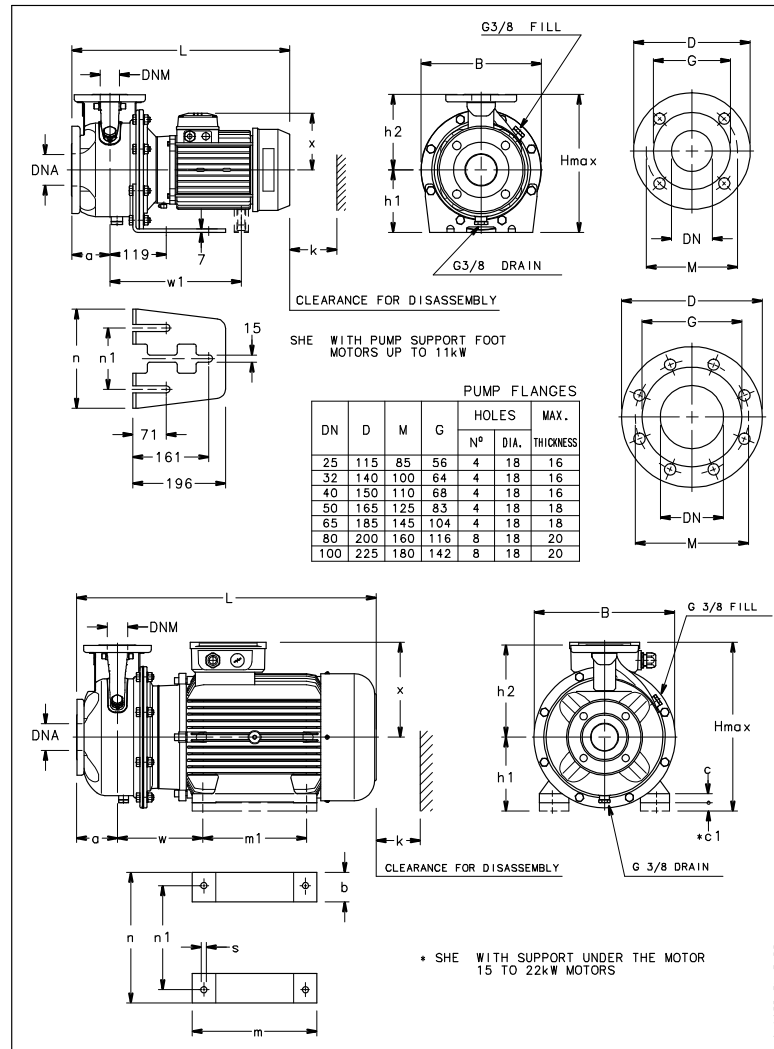
Dimensions

Company name
Contact
Phone number
e-mail address

Close coupled

PLM 90 B14 1,1 kW

Electrical and dimensional data refer to IE3 motor



Dimensions		[mm]	
a	100		
B	310		
DNA	65		
DNM	50		
h1	160		
h2	200		
Hmax	360		
k	104		
L	498		
n	245		
n1	130		
x	134		

Weight	
Total weight	48 kg

Connections			
Suction nozzle		Discharge nozzle	
DN 65		DN 50	
PN 16		PN 16	
EN1092-1		EN1092-1	
D	185	D	165
Dia. Holes	18	Dia. Holes	18
DN	65	DN	50
G	104	G	83
M	145	M	125
Max thickness	18	Max thickness	18

Dimensions and weight without obligation

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