

ESHE 40-250/11/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	m ³ /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/m ³	1000
6	Inlet pressure	kPa	0	Kin. viscosity at t A	mm ² /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	251			
12	Operating speed	1435 rpm	Stages		1	designed	mm	218		
13	Suction nozzle	DN 65	/	PN 16	/	EN1092-1	Min.	mm	218	
14	Discharge nozzle	DN 40	/	PN 16	/	EN1092-1	Flow	Nominal	m ³ /h	
15	Max. casing pressure	kPa	1200		Max-	m ³ /h		21.8		
16	Max. working pressure	kPa	150.3		Min-	m ³ /h	8.9			
17	Impeller type	Radial impeller		Head	Nominal	m				
18	Head H(Q=0)	m	15		at Qmax	m	9.5			
19	Max. shaft power	kW	1.1		at Qmin	m	14.3			
20	Pump weight	kg			Shaft power	kW				
21	Total weight	kg	47.0		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	
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	
32	Fill/drain plugs	Stainless steel / AISI 316			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			
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					
49					
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Performance curve

Company name
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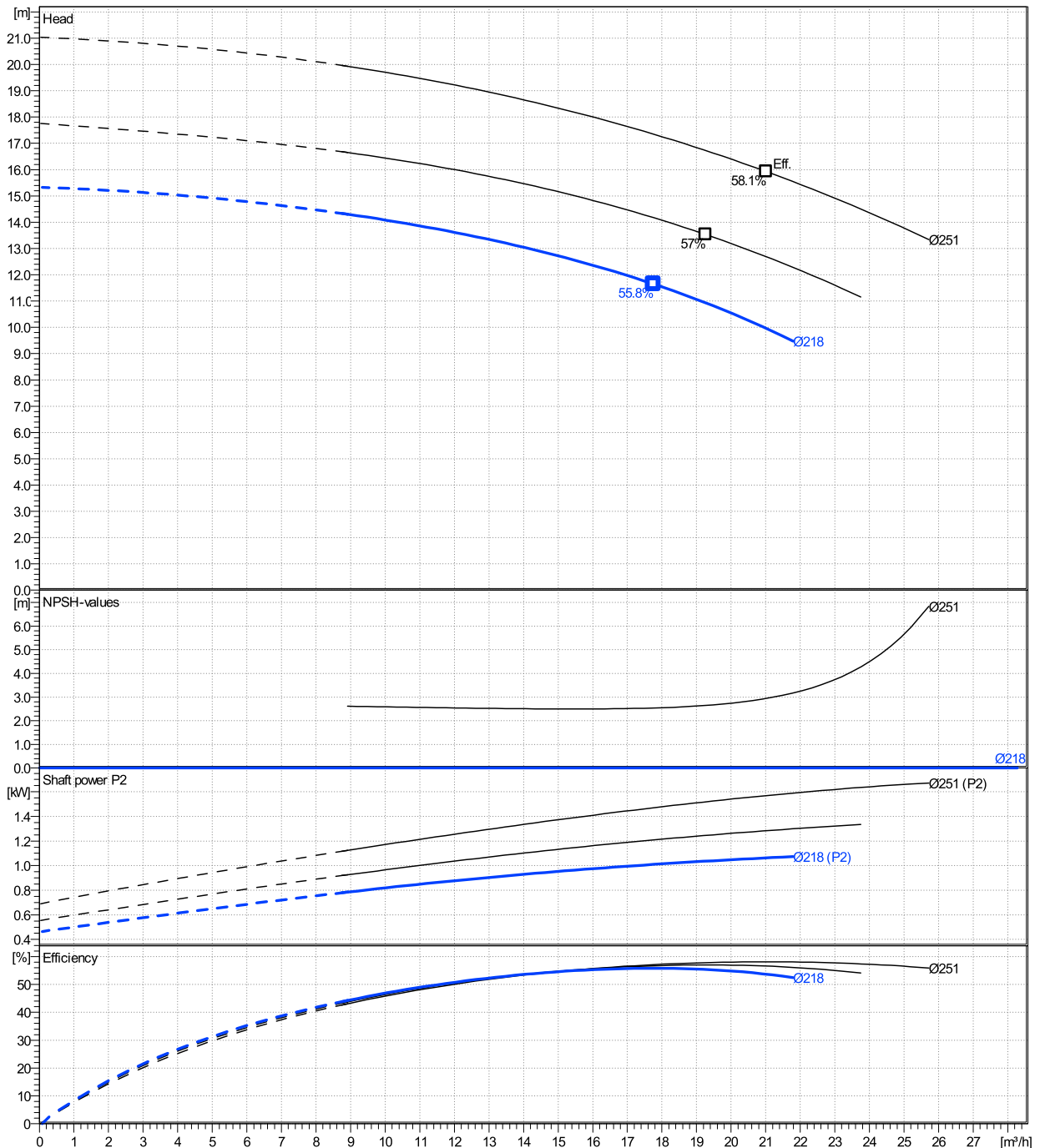
	Ø mm	Pump capacity			Pump head		Shaft power P2			Frequency		Hz	50	
		Operating range Min. m³/h	Max. m³/h	η Max. m³/h	H(Q=0) m	η Max. m	P2(Q=0) kW	Max. kW	η Max. kW	Operating speed rpm	1435			
actual	218	8.91	21.8	17.8	15.3	11.7	1.07	1.01	Nominal flow	m³/h	0	Nominal head	m	0
Min.	0	/	/	17.8	15.3	11.7	/	1.01	Inlet pressure	kPa	0	Static head	m	0
Max.	251	/	/	21	21	15.9	/	1.57						

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 40-250/11/P45RSSA

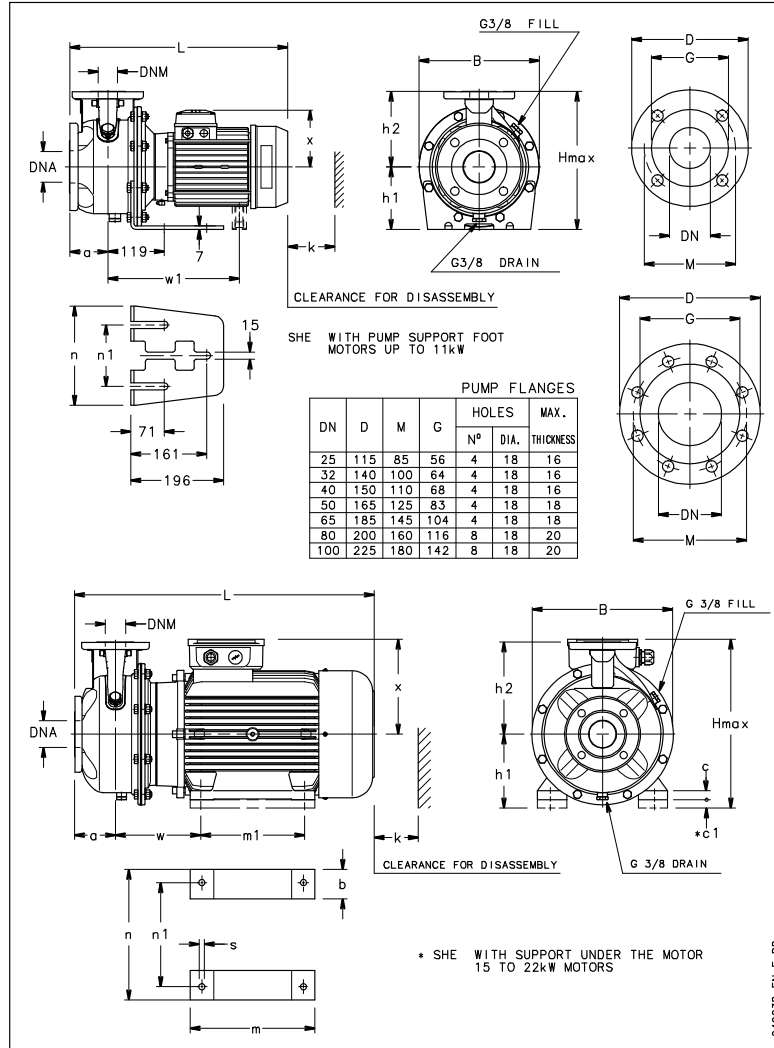
Dimensions

Company name
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Close coupled

PLM 90 B14 1,1 kW

Electrical and dimensional data refer to IE3 motor



Dimensions [mm]	
a	100
B	345
DNA	65
DNM	40
h1	180
h2	225
Hmax	405
k	107
L	498
n	265
n1	130
x	134

Weight	
Total weight	47 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 16	Max thickness 16

Dimensions and weight without obligation

Project	Xylect-20106709	Created by		Last update	12/16/2024
Block	ESHE 40-250/150/P25VSSA	Created on	12/16/2024		