

ESHF 40-200/11/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	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	Unit with standard coupling			
11	Design	Horizontal			
12	Operating speed	1450 rpm	Stages	1	
13	Suction nozzle	DN 65 /	PN 16 /	EN1092-1	
14	Discharge nozzle	DN 40 /	PN 16 /	EN1092-1	
15	Max. casing pressure	kPa	1200		
16	Max. working pressure	kPa	139.2		
17	Impeller type	Radial impeller			
18	Head H(Q=0)	m	14		
19	Max. shaft power	kW	.9		
20	Pump weight	kg			
21	Total weight	kg	78.0		

	Impeller Ø	Max.	mm	209
		designed	mm	209
		Min.	mm	190
		Nominal	m ³ /h	
	Flow	Max-	m ³ /h	25
		Min-	m ³ /h	9
		Nominal	m	
	Head	at Qmax	m	7.4
		at Qmin	m	13.3
	Shaft power		kW	
	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	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)
32					
33					
34					
35					
36					
37					
38					
39					
40					
41					

Motor data				Coupling				
Electrical and dimensional data refer to IE3 motor								
42	Manufacturer	Lowara		Manufacturer	Not applicable			
43	Specific design	IE3 3ph Surface Motor - Premium Efficiency		Series	Not applicable			
44	Type	PLM 90 B3 1,1 kW		Shaft diameter	Pump	0 mm	Motor	24 mm
45	Rated power	1.1 kW	Rated current	2.65 A	Frame size	Not applicable		
46	Nominal speed	1435 rpm	Rated voltage	400 V	Spacer length	mm	Not applicable	
47	Frame size	90	Service factor	1	Weight	kg		
48	Weight	kg	16.6	Degree of protection	IP55	Coupling protection	Not applicable	

Base plate			Remarks		
49	Name	Not applicable			
50	Weight	kg			

ESHF 40-200/11/P45RSSA

Performance curve

Company name
Contact
Phone number
e-mail address

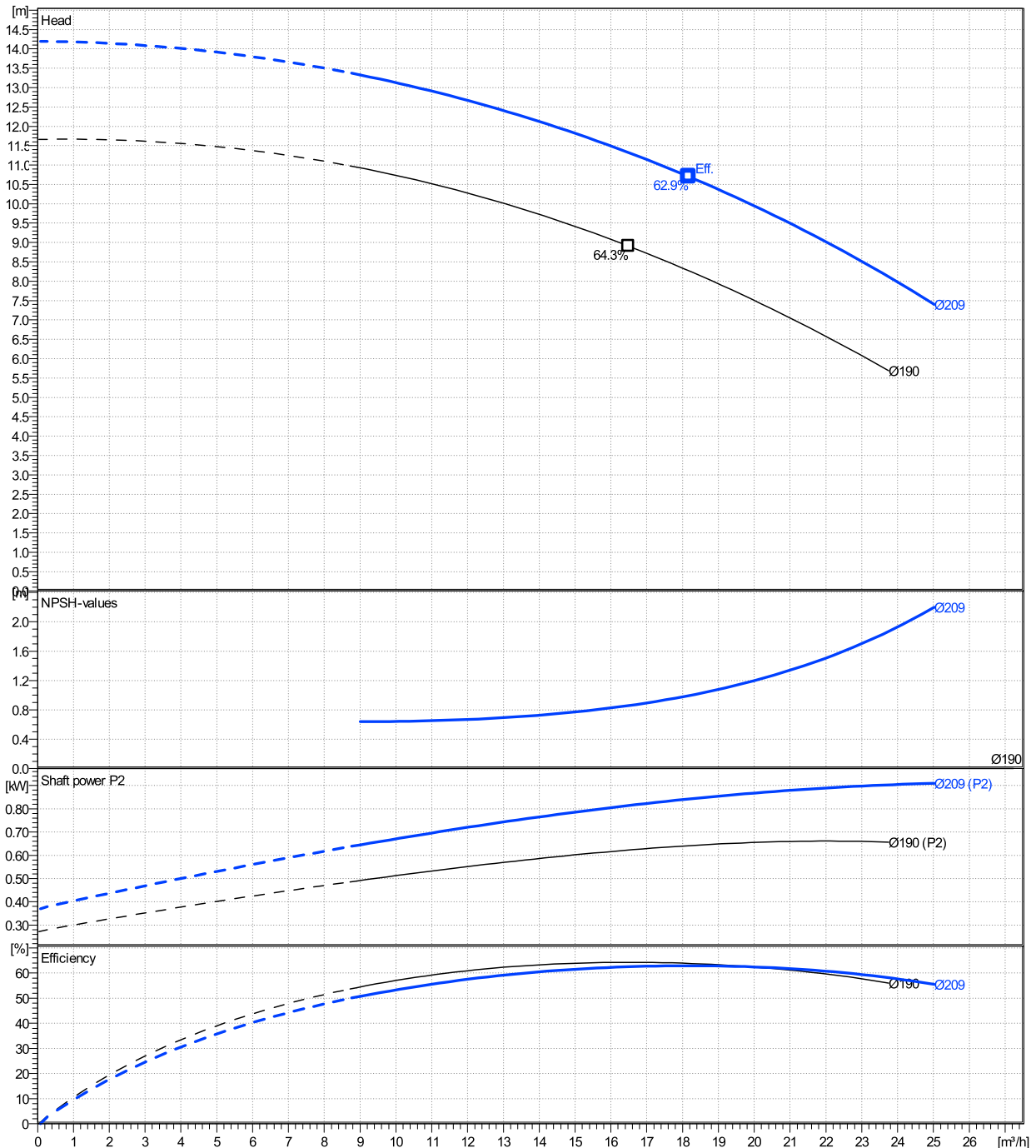
	Ø mm	Pump capacity			Pump head		Shaft power P2			Frequency	Hz	50
		Operating range Min. m³/h	Max. m³/h	η Max. m³/h	H(Q=0) m	η Max. m	P2(Q=0) kW	Max. kW	η Max. kW	Operating speed	rpm	1450
actual	209	9	25	18.2	14.2	10.7	0.909	0.842		Nominal flow	m³/h	0
Min.	0	/	/	16.5	11.7	8.91	/	0.623		Nominal head	m	0
Max.	209	/	/	18.2	14.2	10.7	/	0.842		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



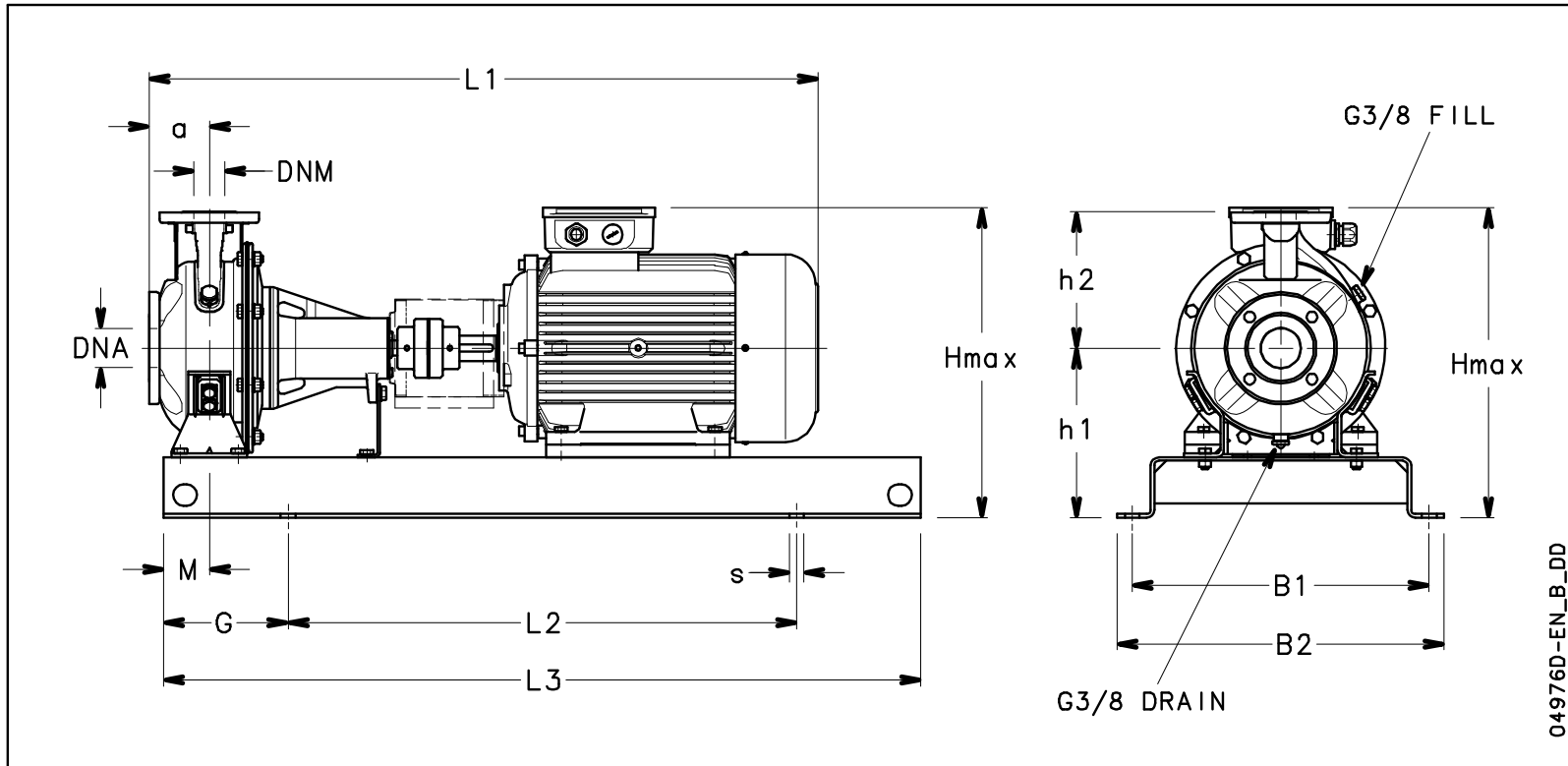
ESHF 40-200/11/P45RSSA

Dimensions

Company name
Contact
Phone number
e-mail address

Frame mounted
Unit with standard coupling
PLM 90 B3 1,1 kW

Electrical and dimensional data refer to IE3 motor



Dimensions [mm]

a	100
B1	350
B2	390
Coupling Type	PN 16
DNA	65
DNM	40
G	150
h1	260
h2	180
Hmax	440
L1	811
L2	600
L3	900
M	60
Sscrews	M16

Weight

Total weight	78 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-20123150	Created by		Last update	12/19/2024
Block	ESHF 40-200/75/P25VSSA	Created on	12/19/2024		