

# ESHF 65-160/11/P45RSNA

## 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	Unit with standard coupling					
11	Design	Horizontal				Impeller Ø	
12	Operating speed	1450 rpm	Stages	1		Max. mm 176	
13	Suction nozzle	DN 80 /	PN 16 /	EN1092-1		designed mm 164	
14	Discharge nozzle	DN 65 /	PN 16 /	EN1092-1		Min. mm 140	
15	Max. casing pressure	kPa	1200			Flow	
16	Max. working pressure	kPa	85.5				Nominal m³/h
17	Impeller type	Radial impeller				Head	
18	Head H(Q=0)	m	8.7				Max- m³/h 63
19	Max. shaft power	kW	1				Min- m³/h 21.6
20	Pump weight	kg				Nominal m	
21	Total weight	kg	94.0			at Qmax m 3.4	
						at Qmin m 8.2	
						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 / ASTMCF8M			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)	
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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 65-160/11/P45RSNA

## Performance curve

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e-mail address

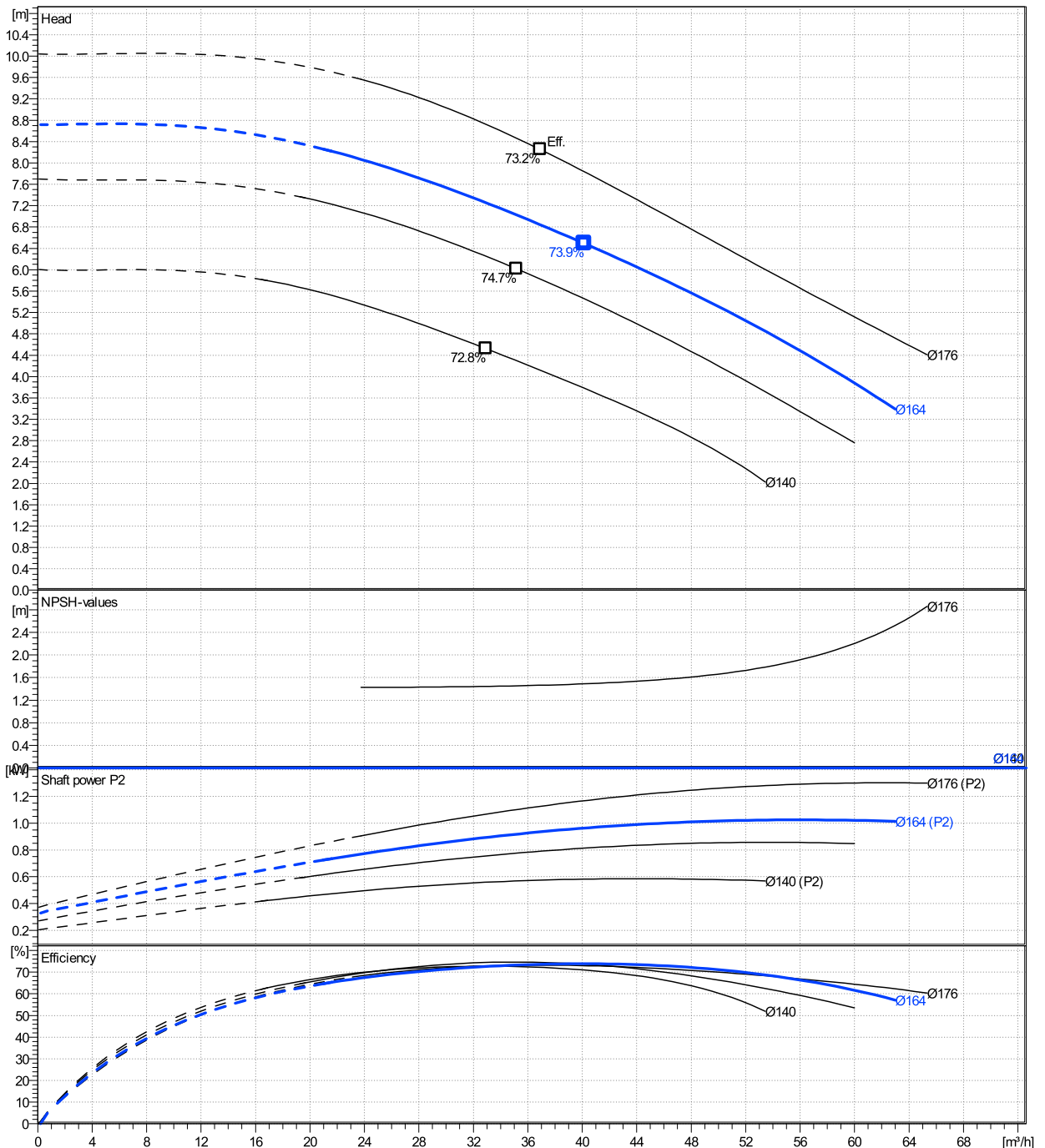
	Ø mm	Pump capacity Operating range			Pump head		Shaft power P2			Frequency	Hz	50
		Min. m³/h	Max. m³/h	η Max. m³/h	H(Q=0) m	η Max. m	P2(Q=0) kW	Max. kW	η Max. kW	Operating speed	rpm	1450
actual	164	21.6	63	40.1	8.72	6.49	1.02	0.963		Nominal flow	m³/h	0
Min.	0	/	/	32.9	6	4.52	/	0.559		Nominal head	m	0
Max.	176	/	/	36.9	10	8.25	/	1.13		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



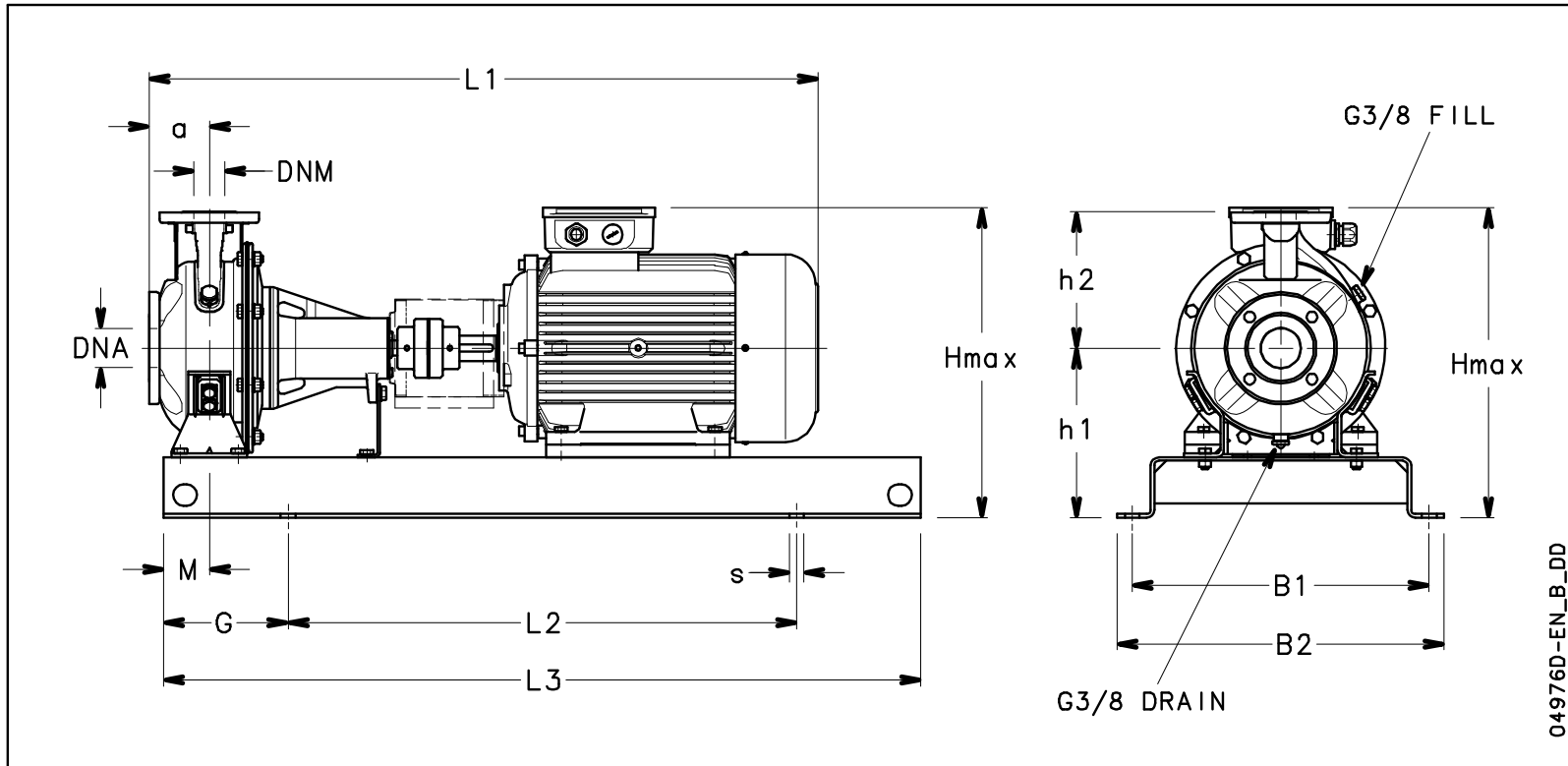
**ESHF 65-160/11/P45RSNA**

**Dimensions**

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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	400
B2	450
Coupling Type	48
DNA	80
DNM	65
G	170
h1	260
h2	200
Hmax	460
L1	811
L2	660
L3	1000
M	75
Sscrews	M20

**Weight**

Total weight	94 kg
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**Connections**

Suction nozzle	Discharge nozzle
DN 80	DN 65
PN 16	PN 16
EN1092-1	EN1092-1
D 200	D 185
Dia. Holes 18	Dia. Holes 18
DN 80	DN 65
G 114	G 104
M 160	M 145
Max thickness 20	Max thickness 18

**Dimensions and weight without obligation**

Project	Xylect-20123150	Created by		Last update	12/19/2024
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