

ESHE 50-250/30/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 250
12	Operating speed	1450 rpm	Stages 1		designed	mm 250
13	Suction nozzle	DN 65 /	PN 16 /		Min.	mm 224
14	Discharge nozzle	DN 50 /	PN 16 /	Flow	Nominal	m³/h
15	Max. casing pressure	kPa 1200			Max-	m³/h 45
16	Max. working pressure	kPa 214.7			Min-	m³/h 18
17	Impeller type	Radial impeller		Head	Nominal	m
18	Head H(Q=0)	m 22			at Qmax	m 13.5
19	Max. shaft power	kW 2.6			at Qmin	m 20.6
20	Pump weight	kg		Shaft power	kW	
21	Total weight	kg 62.0		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	28 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 100 B14 3 kW		
45	Rated power	3 kW	Rated current	6.62 A
46	Nominal speed	1450 rpm	Rated voltage	400 V
47	Frame size	100	Service factor	1
48	Weight	kg 32.0	Degree of protection	IP55

Remarks

49	
50	
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ESHE 50-250/30/P45RSSA

Performance curve

Company name
Contact
Phone number
e-mail address

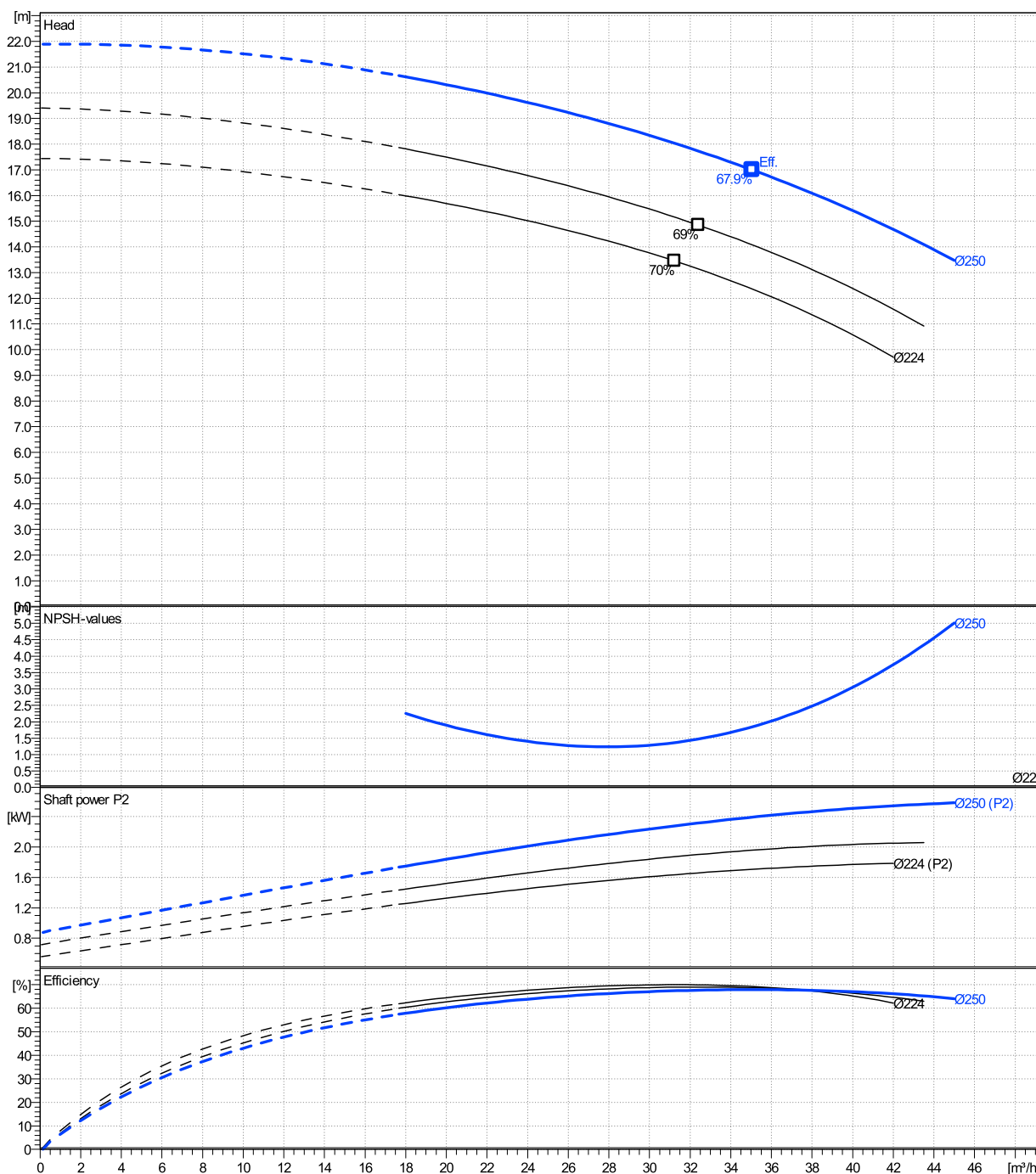
	Ø mm	Pump capacity Operating range			Pump head		Shaft power P2			Frequency		Hz
		Min. m³/h	Max. m³/h	η m³/h	H(Q=0) m	η m	P2(Q=0) kW	Max. kW	η kW	Operating speed	rpm	
actual	250	18	45	35.1	21.9	17		2.58	2.39	Nominal flow	m³/h	0
Min.	0	/	/	31.2	17.4	13.4		/	1.64	Nominal head	m	0
Max.	250	/	/	35.1	21.9	17		/	2.39	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 50-250/30/P45RSSA

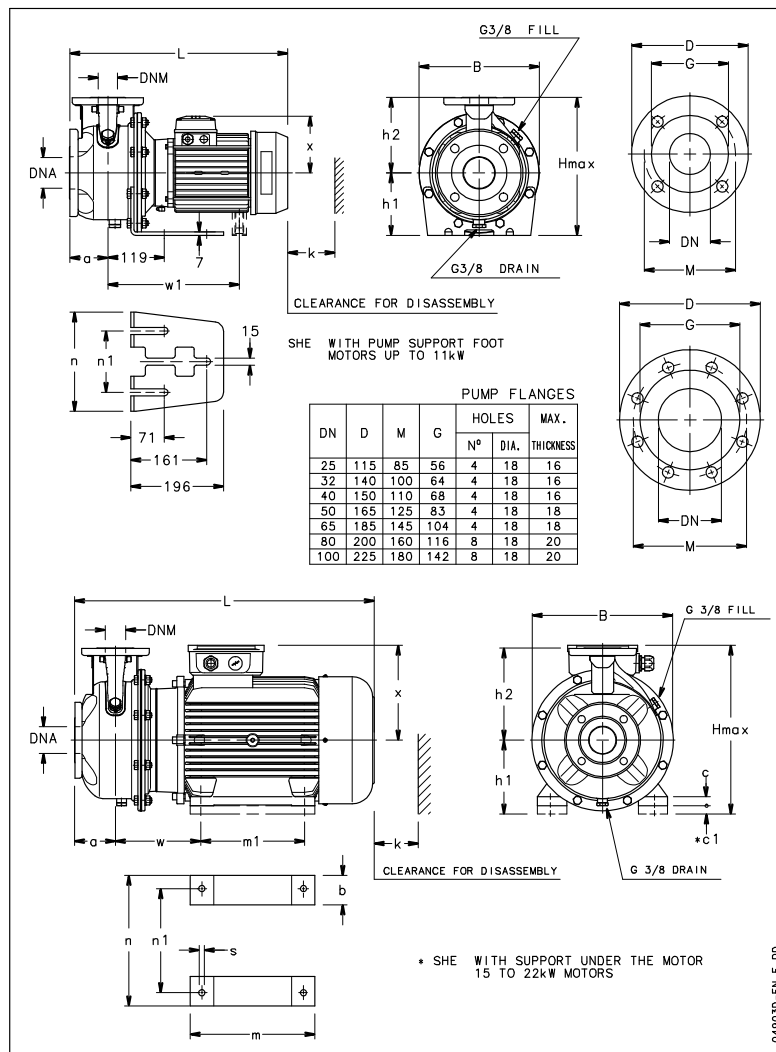
Dimensions

Company name
Contact
Phone number
e-mail address

Close coupled

PLM 100 B14 3 kW

Electrical and dimensional data refer to IE3 motor



Dimensions [mm]

a	100
B	345
DNA	65
DNM	50
h1	180
h2	225
Hmax	405
k	107
L	553
n	265
n1	130
x	168

Weight

Total weight	62 kg
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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

Project Xylect-20106422
Block ESHE 50-250/220/P25VSSA

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