

NSCF 65-315/55/P45VCC4

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 / -25
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	Standard coupling		
11	Design	Horizontal	Impeller Ø	Max. mm 334
12	Operating speed	1455 rpm		designed mm 260
13	Suction nozzle	DN80 / PN10/16 / EN1092-2		Min. mm 260
14	Discharge nozzle	DN65 / PN10/16 / EN1092-2	Flow	Nominal m³/h
15	Max. casing pressure	kPa		Max- m³/h 90.4
16	Max. working pressure	kPa 219.8		Min- m³/h 12.4
17	Impeller type	Radial impeller	Head	Nominal m
18	Head H(Q=0)	m 22		at Qmax m 11.1
19	Max. shaft power	kW 5.3		at Qmin m 22.4
20	Pump weight	kg 102	Shaft power	kW
21	Total weight	kg 265.3	Efficiency	%
			NPSH 3%	m

Materials

22		Pump		Shaft Seal
23	Volute Casing	Cast Iron, EN 1561 - GJL-250, ASTM Class 35		Single mechanical seal, without shaft sleeve
24	Impeller	Cast Iron, EN 1561 - GJL-200, ASTM Class 30	eMG12 - Ø38mm	BQ7EGG-WA
25	Casing Cover	Cast Iron, EN 1561 - GJL-250, ASTM Class 35	Mechanical seal diameter	38 mm
26	Shaft	Stainless steel, 1.4057, AISI 431	1. Rotating ring	Carbon graphite resin impregnated
27	Wear ring	Stainless steel, 1.4301, AISI 304	2. Stationary ring	SiC, silicon carbide, sintered press. less
28	Impeller lock nut and washer	A4 (1.4401)	3. Secondary seal	Ethylene propylene rubber (EPDM)
29	Impeller key	Stainless steel, 1.4571, AISI 316Ti	4. Springs	CrNiMo - Steel
30	Fill and drain plugs	Galvanized carbon steel, EN 10277-3, AISI 1213 / 1215	5. Others	EPDM - WRAS
31	Bearing bracket	Cast Iron, EN 1561 - GJL-250, ASTM Class 35	Gaskets of the pump	Ethylene propylene rubber (EPDM)
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Motor data

Electrical and dimensional data refer to IE3 motor

Coupling

42	Manufacturer	Lowara	Manufacturer	Flender
43	Specific design	IE3 3ph Surface Motor - Premium Efficiency	Series	Standard Coupling - N-EUPEX - Type B
44	Type	PLM 132 B3 5,5 kW	Shaft diameter	Pump 32 mm Motor 38 mm
45	Rated power	5.5 kW	Rated current	11.5 A
46	Nominal speed	1455 rpm	Rated voltage	400 V
47	Frame size	132	Service factor	1
48	Weight	kg 62.8	Degree of protection	IP55
			Coupling protection	GR.COUPLGUARD ES32-190-16 A4 1.8 kg

Base plate

49	Name	BASEFRAME_NSC80-1_C00	Remarks
50	Weight	kg 96.5	

Project	Xylect-20101351	Created by		Last update	12/15/2024
Block	NSCF 65-315/900/L25VCC4 E4	Created on	12/15/2024		

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Performance curve

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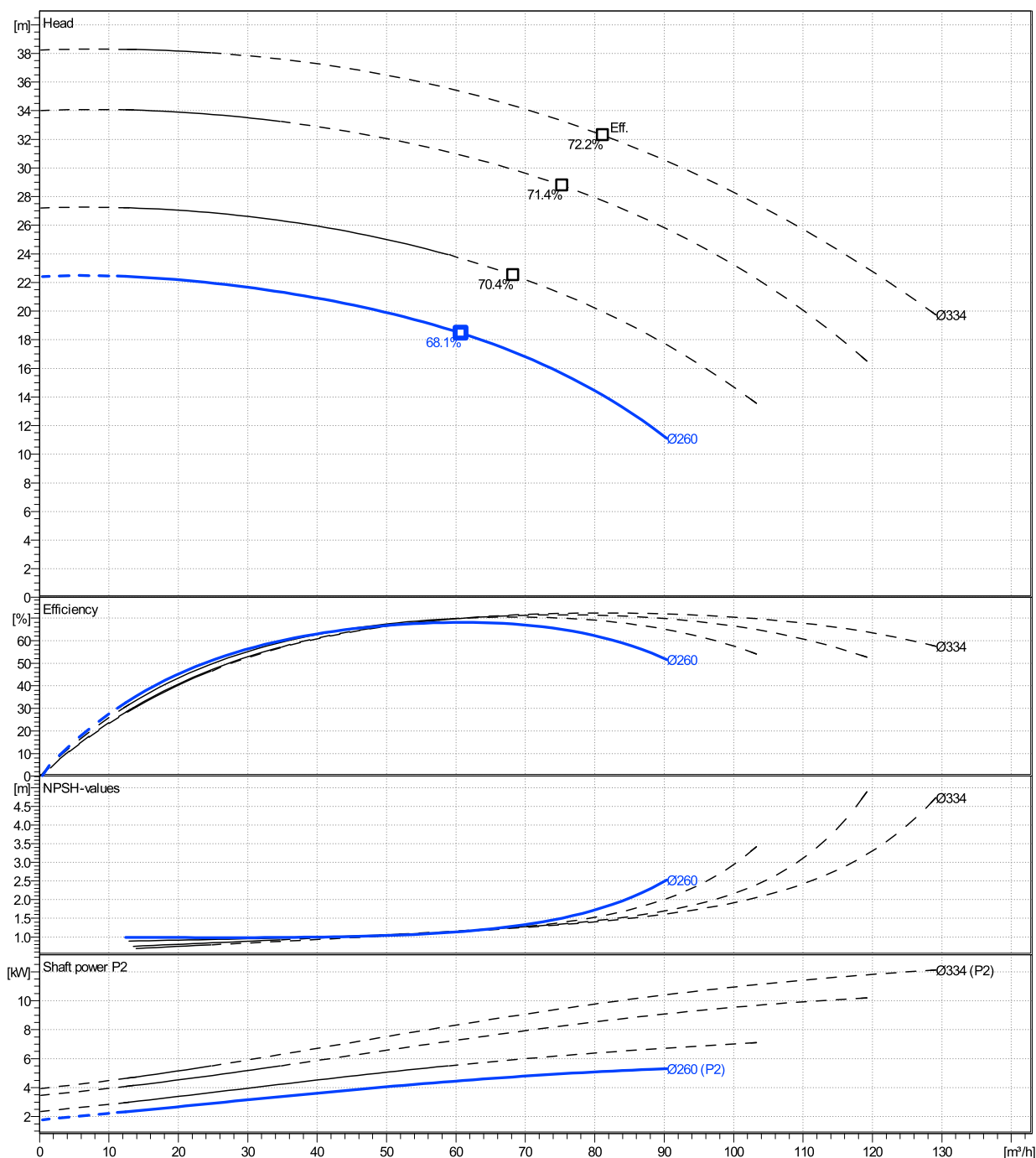
	Ø mm	Pump capacity Operating range			Pump head η		Shaft power P2 η			Frequency		Hz
		Min. m³/h	Max. m³/h	Max. m³/h	H(Q=0) m	Max. m	P2(Q=0) kW	Max. kW	Max. kW	Operating speed rpm		
actual	260	12.4	90.4	60.8	22.4	18.5		5.31	4.48	Nominal flow	m³/h	0
Min.	0	/	/	60.8	22.4	18.5		/	4.48	Nominal head	m	0
Max.	334	/	/	81.2	38.2	32.3		/	9.85	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: >=0,70 - according to Ecodesign Directive 2009/125/EC and Regulation (EU) No.547/2012



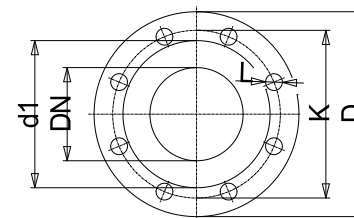
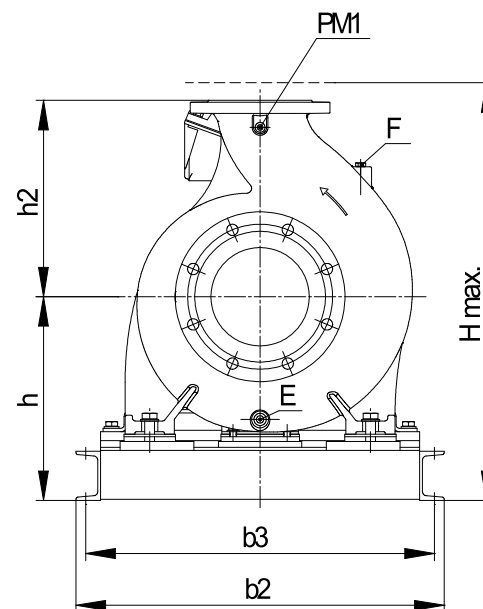
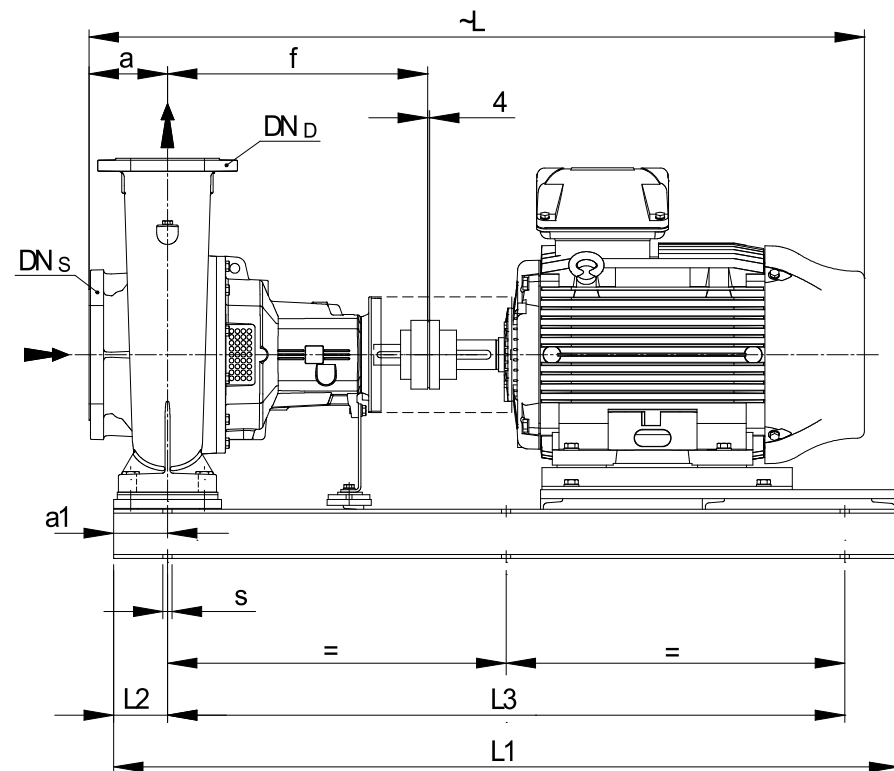
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Dimensions

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Frame mounted
Standard coupling
PLM 132 B3 5,5 kW

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Value C, D may vary from Standard

Dimensions [mm]

a	125
a1	110
b2	670
b3	630
CTO	0
DNd	65
DNs	80
E	3/8"
F	3/8"
f	470
Guard	164
h	385
h2	280
Hmax	665
L	1084
L1	1100
L2	110
L3	880
PM1	1/4"
s	6xØ19
Trim	0
Volumen	0.48298

Weight

Total weight	265.3 kg
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Connections

Suction nozzle		Discharge nozzle	
DN80		DN65	
PN10/16		PN10/16	
EN1092-2		EN1092-2	
C	22	C	20
D	200	D	185
d1	132	d1	118
K	160	K	145
L	19	L	19
z	8	z	4

Dimensions and weight without obligation

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