

NSCF 80-315/150/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		
12	Operating speed	1465 rpm	Stages	1
13	Suction nozzle	DN100 / PN10/16 / EN1092-2	Impeller Ø	Max. mm 334
14	Discharge nozzle	DN80 / PN10/16 / EN1092-2		designed mm 304
15	Max. casing pressure	kPa		Min. mm 262
16	Max. working pressure	kPa 307.9	Flow	Nominal m³/h
17	Impeller type	Radial impeller		Max- m³/h 185.8
18	Head H(Q=0)	m 31		Min- m³/h 21.3
19	Max. shaft power	kW 14.3	Head	Nominal m
20	Pump weight	kg 118		at Qmax m 17
21	Total weight	kg 352.1		at Qmin m 31.4
			Shaft power	kW
			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 160 B3 15 kW		Shaft diameter	Pump 32 mm	Motor 42 mm
45	Rated power	15 kW	Rated current	30.7 A	Frame size	110
46	Nominal speed	1465 rpm	Rated voltage	400 V	Spacer length	mm 4
47	Frame size	160	Service factor	1	Weight	kg 3.3
48	Weight	kg 127.4	Degree of protection	IP55	Coupling protection	GR.COUPLGUARD ES32-190-16 A4 1.8 kg

Base plate

49	Name	BASEFRAME_NSC80-2_C00		Remarks		
50	Weight	kg 101.6				

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Performance curve

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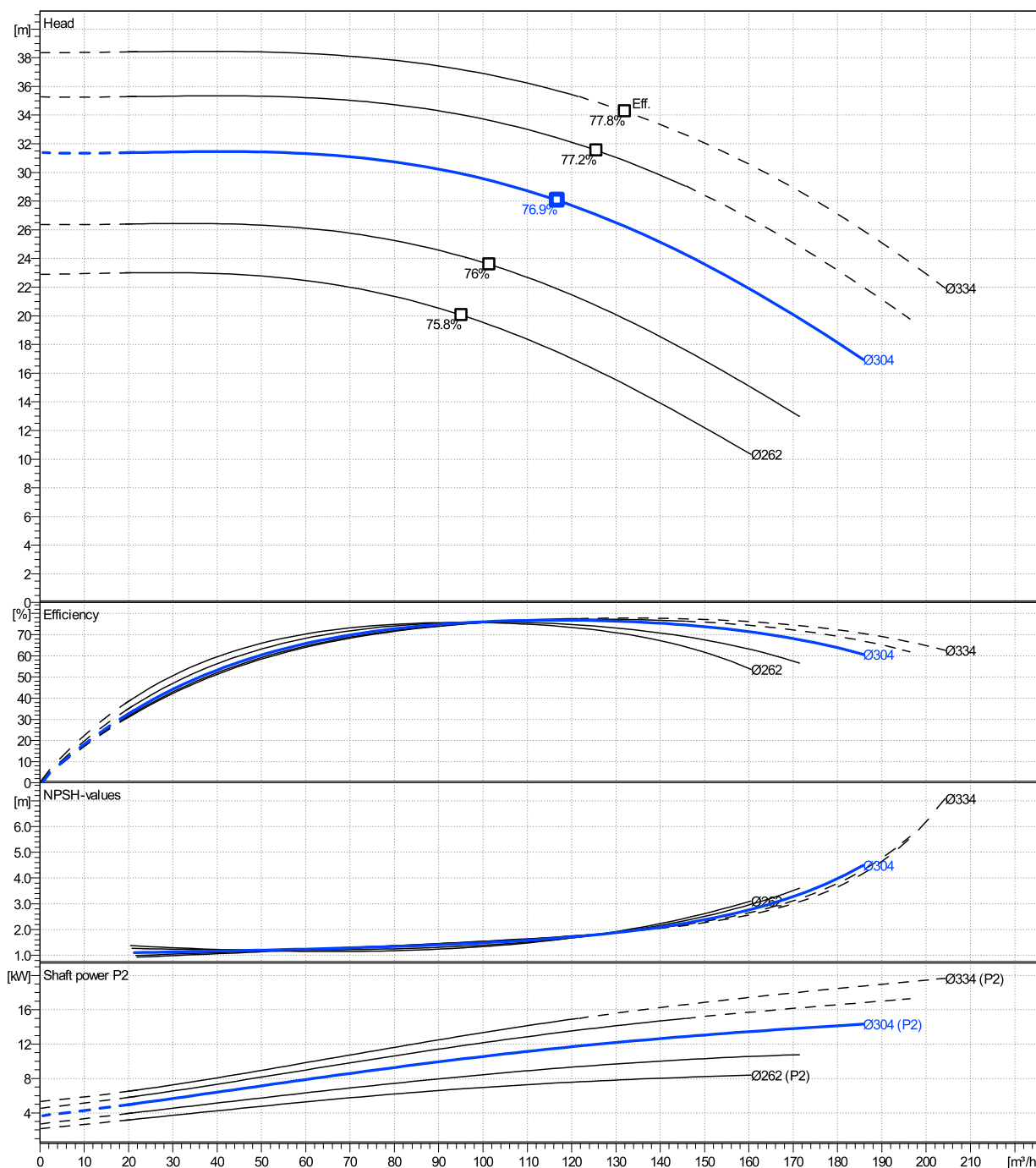
	Ø mm	Pump capacity Operating range			Pump head H(Q=0)		Shaft power P2			Frequency	Hz	50
		Min. m³/h	Max. m³/h	η Max. m³/h	Max. m	η Max. m	P2(Q=0) kW	Max. kW	η Max. kW	Operating speed	rpm	1465
actual	304	21.3	186	117	31.4	28		14.3	11.5	Nominal flow	m³/h	0
Min.	0	/	/	95.2	22.9	20		/	6.79	Nominal head	m	0
Max.	334	/	/	132	38.4	34.2		/	15.7	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 160 B3 15 kW

Electrical and dimensional data refer to IE3 motor

Dimensions [mm]

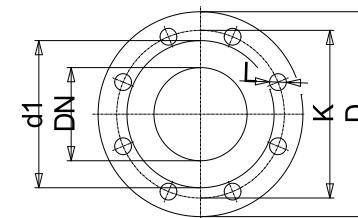
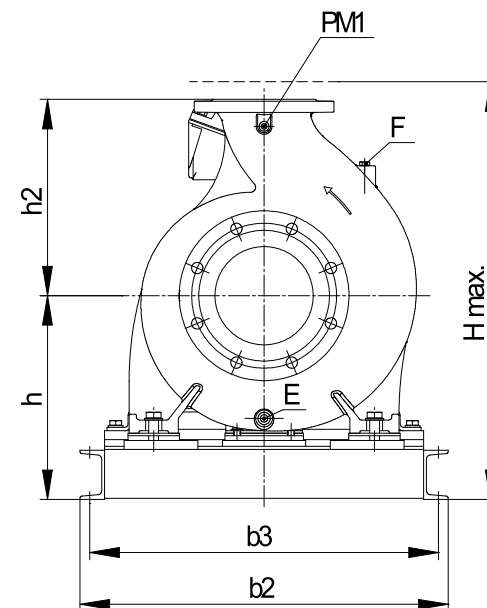
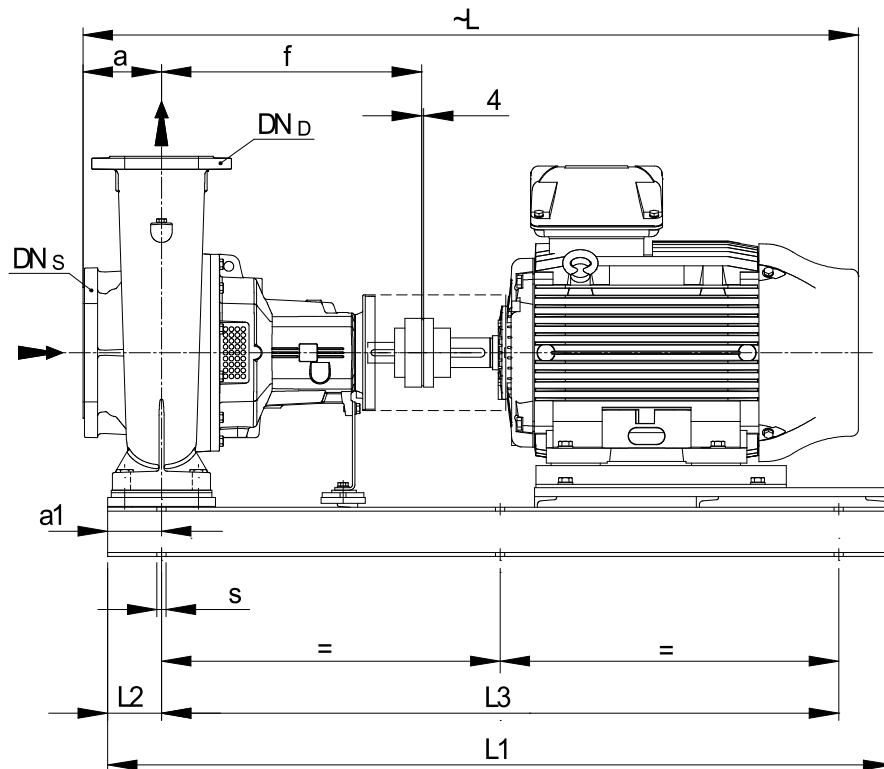
a	125
a1	110
b2	670
b3	630
CTO	0
DNd	80
DNs	100
E	3/8"
F	3/8"
f	470
Guard	194
h	365
h2	315
Hmax	680
L	1203
L1	1330
L2	110
L3	1110
PM1	1/4"
s	6xØ19
Trim	0
Volumen	0.54809

Weight

Total weight	352.1 kg
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Connections

Suction nozzle		Discharge nozzle	
DN100		DN80	
PN10/16		PN10/16	
EN1092-2		EN1092-2	
C	24	C	22
D	230	D	200
d1	157	d1	132
K	180	K	160
L	19	L	19
z	8	z	8



Value C, D may vary from Standard

Dimensions and weight without obligation

Project Xylect-20101285
Block NSCF 80-315/220/L45VCC4

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