

NSCF 100-160/30/P45RCC4

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 190
12	Operating speed	1450 rpm		designed mm 176
13	Suction nozzle	DN125 / PN10/16 / EN1092-2		Min. mm 144
14	Discharge nozzle	DN100 / PN10/16 / EN1092-2	Flow	Nominal m³/h
15	Max. casing pressure	kPa		Max- m³/h 175
16	Max. working pressure	kPa 89.4		Min- m³/h 23.5
17	Impeller type	Radial impeller	Head	Nominal m
18	Head H(Q=0)	m 9.1		at Qmax m 3.9
19	Max. shaft power	kW 2.9		at Qmin m 9.1
20	Pump weight	kg 82	Shaft power	kW
21	Total weight	kg 219.7	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 100 B3 3 kW	Shaft diameter	Pump 32 mm Motor 28 mm
45	Rated power	3 kW	Frame size	95
46	Nominal speed	1450 rpm	Spacer length	mm 4
47	Frame size	100	Weight	kg 2.2
48	Weight	kg 39.2	Coupling protection	GR.COUPLGUARD ES32-190-09 A4 1 kg
		Degree of protection	IP55	

Base plate

49	Name	BASEFRAME_NSC80-1_C00	Remarks
50	Weight	kg 95.3	

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Performance curve

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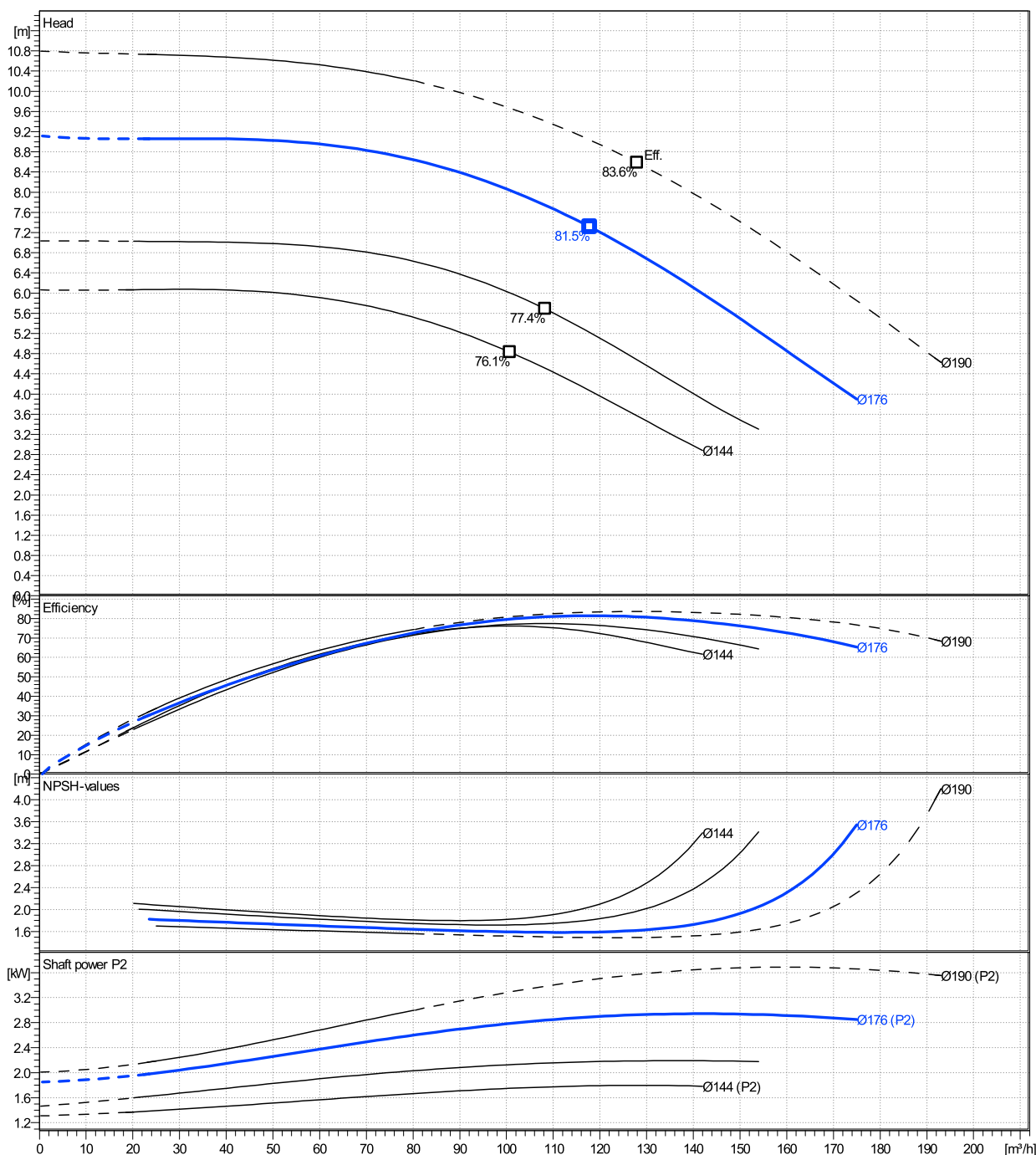
	Ø mm	Pump capacity Operating range Min. Max. η m³/h m³/h m³/h			Pump head H(Q=0) η m m		Shaft power P2 P2(Q=0) Max. η kW kW kW			Frequency Hz 50	
		Min.	Max.	Max.	H(Q=0)	η	P2(Q=0)	Max.	η	Operating speed	rpm
actual	176	23.5	175	118	9.11	7.31		2.94	2.89	Nominal flow	m³/h
Min.	0	/	/	101	6.06	4.83		/	1.75	Nominal head	m
Max.	190	/	/	128	10.8	8.58		/	3.57	Inlet pressure	kPa
										Static head	m

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



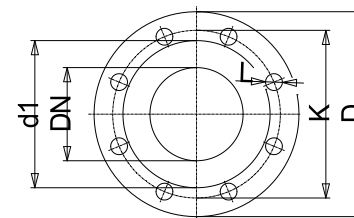
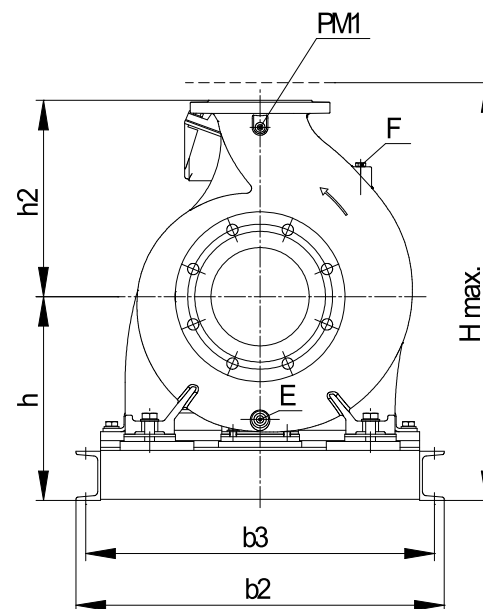
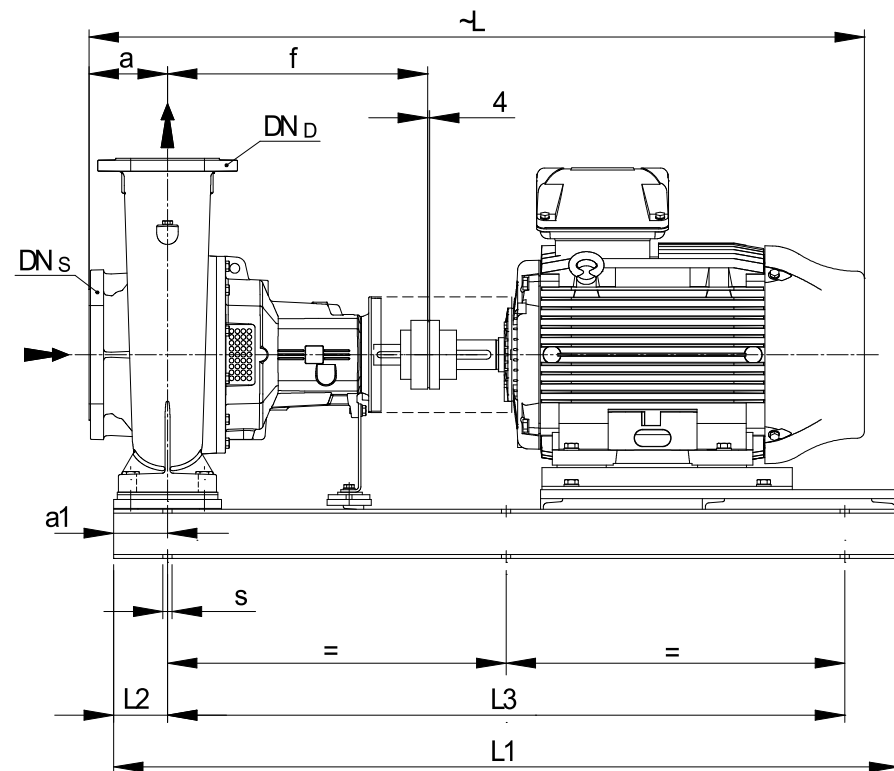
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Dimensions

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Frame mounted
Standard coupling
PLM 100 B3 3 kW

Electrical and dimensional data refer to IE3 motor



Value C, D may vary from Standard

Dimensions [mm]			
a	125		
a1	110		
b2	670		
b3	630		
CTO	0		
DNd	100		
DNs	125		
E	3/8"		
F	3/8"		
f	470		
Guard	144		
h	355		
h2	280		
Hmax	635		
L	1024		
L1	1100		
L2	110		
L3	880		
PM1	1/4"		
s	6xØ19		
Trim	0		
Volumen	0.43566		

Weight	
Total weight	219.7 kg

Connections			
Suction nozzle		Discharge nozzle	
DN125		DN100	
PN10/16		PN10/16	
EN1092-2		EN1092-2	
C	26	C	24
D	255	D	230
d1	184	d1	157
K	210	K	180
L	19	L	19
z	8	z	8

Dimensions and weight without obligation

Project	Xylect-20100489	Created by		Last update	12/14/2024
Block	NSCF 100-160/300/L25VCC4	Created on	12/14/2024		