

NSCF 150-315/110/L65VCC4

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	975 rpm		designed mm 310
13	Suction nozzle	DN200 / PN16 / EN1092-2		Min. mm 278
14	Discharge nozzle	DN150 / PN10/16 / EN1092-2	Flow	Nominal m³/h
15	Max. casing pressure	kPa		Max- m³/h 385
16	Max. working pressure	kPa 135.4		Min- m³/h 48
17	Impeller type	Radial impeller	Head	Nominal m
18	Head H(Q=0)	m 14		at Qmax m 6.4
19	Max. shaft power	kW 10.3		at Qmin m 13.8
20	Pump weight	kg 186	Shaft power	kW
21	Total weight	kg 384.4	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 - Ø48mm	BQ7EGG-WA
25	Casing Cover	Cast Iron, EN 1561 - GJL-250, ASTM Class 35	Mechanical seal diameter	48 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	3MAS 160 L B3 11 kW	Shaft diameter	Pump 42 mm Motor 42 mm
45	Rated power	11 kW	Frame size	110
46	Nominal speed	975 rpm	Spacer length	mm 4
47	Frame size	160 L	Weight	kg 3.3
48	Weight	kg 92.4	Coupling protection	GR.COUPLGUARD ES42-230-16 A4 1.7 kg
		Degree of protection	IP55	

Base plate

49	Name	BASEFRAME_NSC80-4_C00	Remarks
50	Weight	kg 101.0	

Project	Xylect-20101285	Created by		Last update	12/15/2024
Block	NSCF 150-315/750/L45VCC4 E4	Created on	12/15/2024		

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Performance curve

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e-mail address

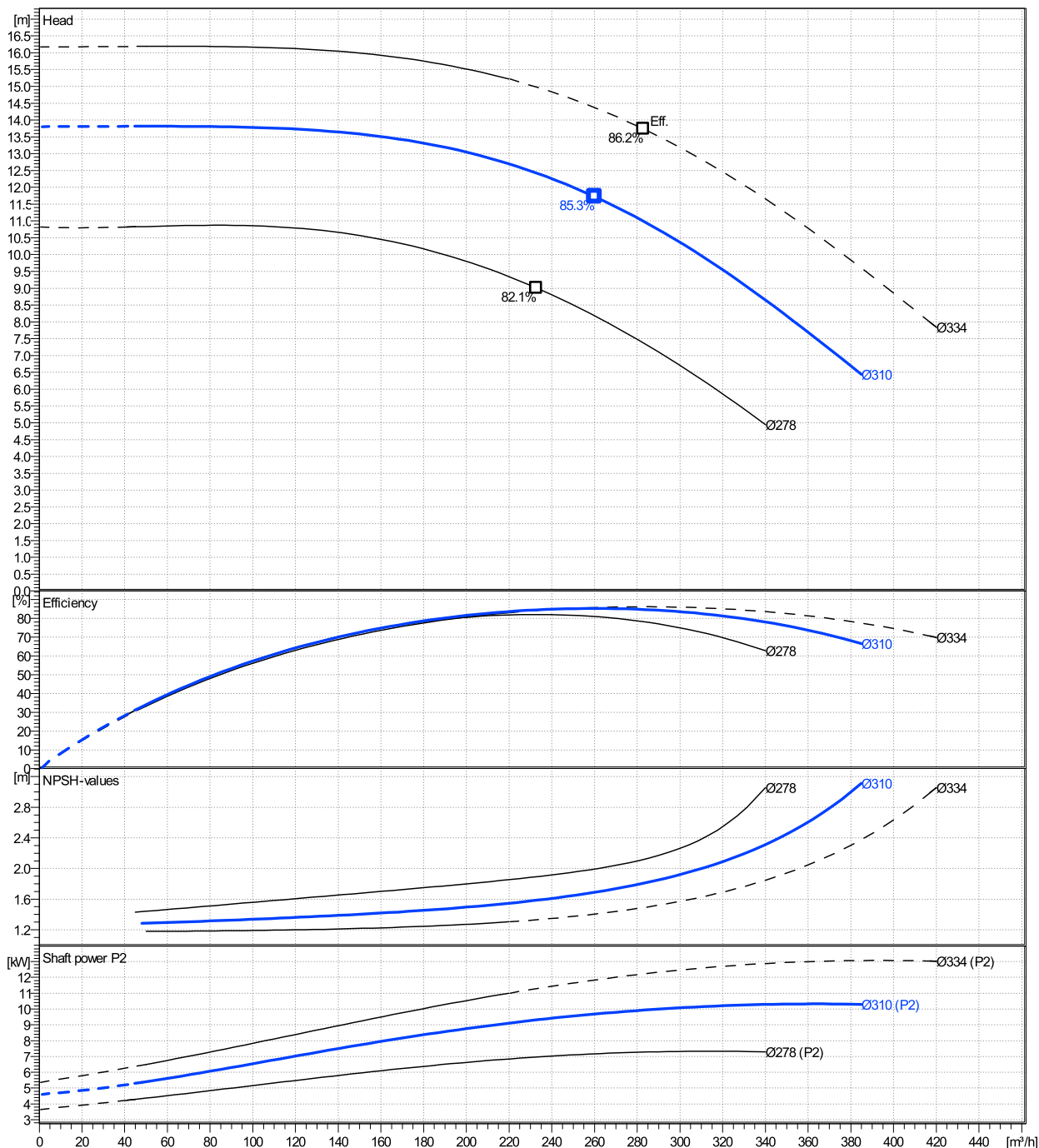
	Ø mm	Pump capacity Operating range Min. Max. η m³/h m³/h m³/h			Pump head H(Q=0) η m m		Shaft power P2 P2(Q=0) Max. η kW kW kW			Frequency Hz 50	
		Min.	Max.	Max.	H(Q=0)	η	P2(Q=0)	Max.	η	Operating speed	rpm
actual	310	48	385	260	13.8	11.7		10.3	9.68	Nominal flow	m³/h
Min.	0	/	/	233	10.8	9.01		/	6.96	Nominal head	m
Max.	334	/	/	283	16.2	13.7		/	12.2	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: 0,53 - 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
3MAS 160 L B3 11 kW

Electrical and dimensional data refer to IE3 motor

Dimensions [mm]

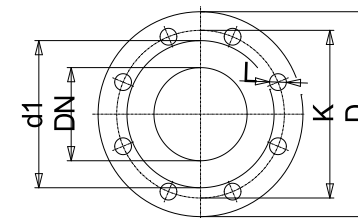
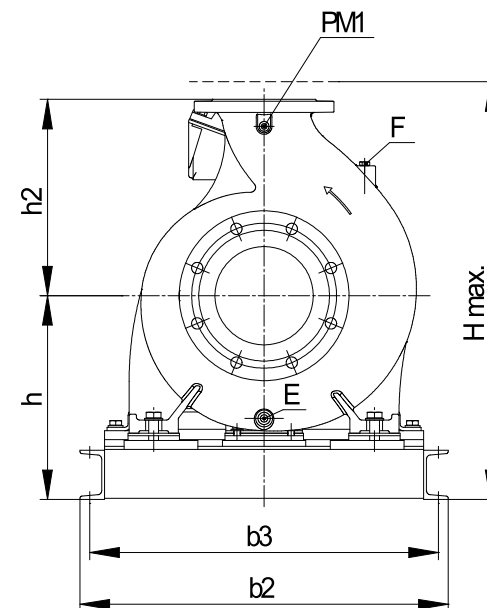
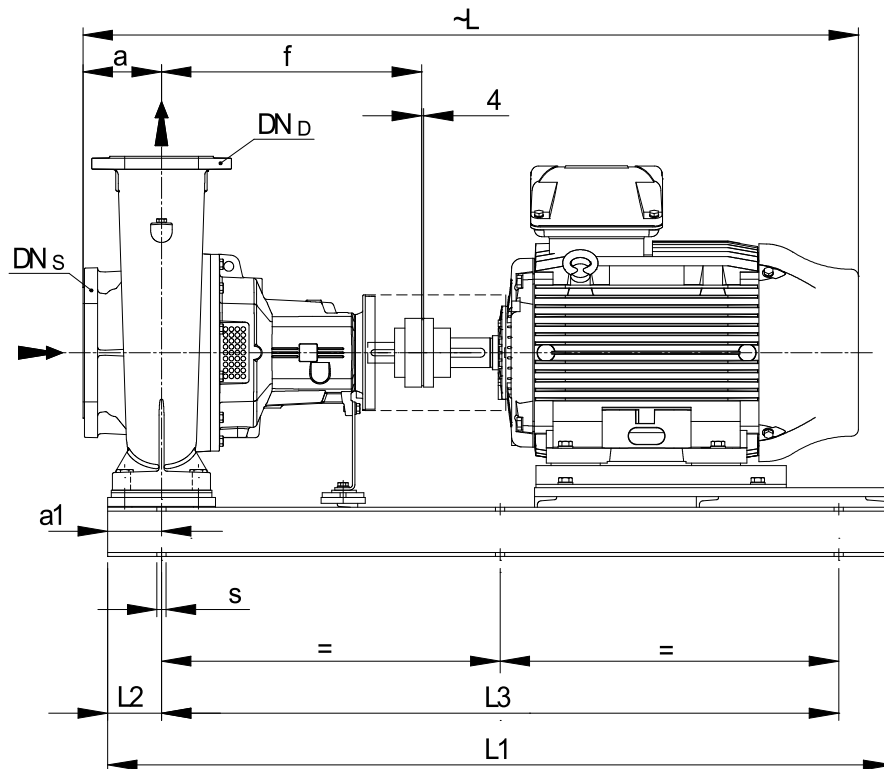
a	160
a1	110
b2	670
b3	630
CTO	0
DNd	150
DNs	200
E	3/8"
F	3/8"
f	530
Guard	224
h	385
h2	400
Hmax	785
L	1349
L1	1430
L2	110
L3	1210
PM1	1/4"
s	6xØ19
Trim	0
Volumen	0.70951

Weight

Total weight	384.4 kg
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Connections

Suction nozzle		Discharge nozzle	
DN200		DN150	
PN16		PN10/16	
EN1092-2		EN1092-2	
C	30	C	26
D	345	D	285
d1	266	d1	211
K	295	K	240
L	23	L	23
z	12	z	8



Value C, D may vary from Standard

Dimensions and weight without obligation

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Created by
Created on 12/15/2024

Last update 12/15/2024