

NSCF 100-316/1100/L25VCC4 E4

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 302
12	Operating speed	2990 rpm		designed mm 270
13	Suction nozzle	DN125 / PN10/16 / EN1092-2		Min. mm 270
14	Discharge nozzle	DN100 / PN10/16 / EN1092-2	Flow	Nominal m³/h
15	Max. casing pressure	kPa		Max- m³/h 437.5
16	Max. working pressure	kPa 1034.3		Min- m³/h 55.2
17	Impeller type	Radial impeller	Head	Nominal m
18	Head H(Q=0)	m 110		at Qmax m 51.1
19	Max. shaft power	kW 106.1		at Qmin m 105.4
20	Pump weight	kg 116	Shaft power	kW
21	Total weight	kg 1,260.2	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 IE4 motor

Coupling

42	Manufacturer	Lowara	Manufacturer	Flender
43	Specific design	IE4 3ph Surface Motor - Super Premium Efficiency	Series	Standard Coupling - N-EUPEX - Type B
44	Type	3MGS 315 S B3 110 kW E4	Shaft diameter	Pump 42 mm Motor 65 mm
45	Rated power	110 kW	Rated current	185 A
46	Nominal speed	2990 rpm	Rated voltage	400 V
47	Frame size	315 S	Service factor	1
48	Weight	kg 906.7	Degree of protection	IP55
			Frame size	160
			Spacer length	mm 4
			Weight	kg 7.8
			Coupling protection	GR.COUPPLGUARD ES42-230-23 A4 3.4 kg

Base plate

49	Name	BASEFRAME_NSC80-10_C00	Remarks
50	Weight	kg 226.3	

Project	Xylect-20101351	Created by		Last update	12/15/2024
Block	NSCF 100-316/1600/L25VCC4 E4	Created on	12/15/2024		

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Performance curve

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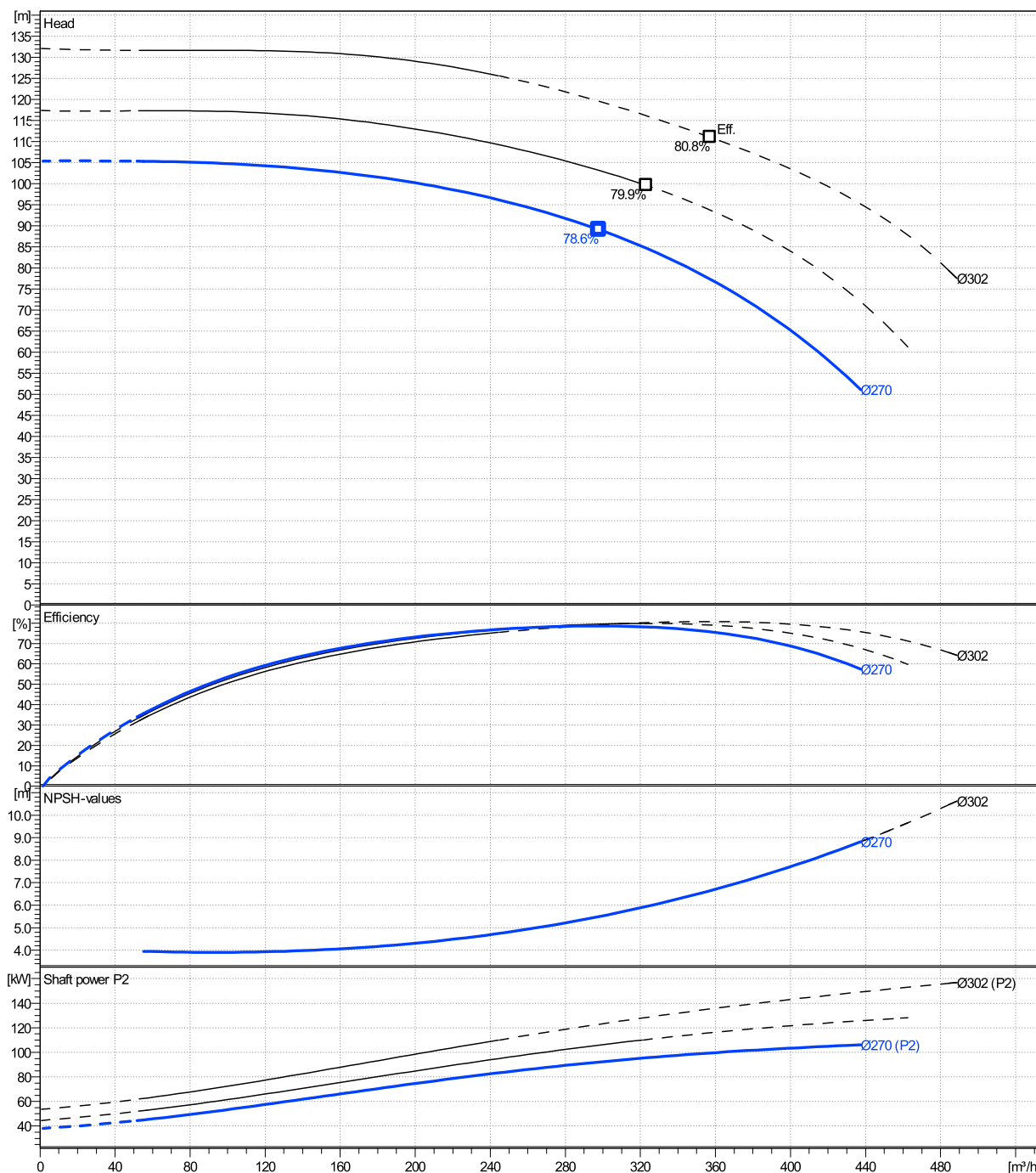
	Ø mm	Pump capacity Operating range Min. Max. η m³/h m³/h			Pump head H(Q=0) η m m		Shaft power P2 P2(Q=0) Max. η kW kW			Frequency Hz 50	
		Min.	Max.	Max.	H(Q=0)	η	P2(Q=0)	Max.	η	Operating speed	rpm
actual	270	55.2	437	298	105	89.2		106	92.1	Nominal flow	m³/h
Min.	0	/	/	298	105	89.2		/	92.1	Nominal head	m
Max.	302	/	/	357	132	111		/	135	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: N.A - according to Ecodesign Directive 2009/125/EC and Regulation (EU) No.547/2012



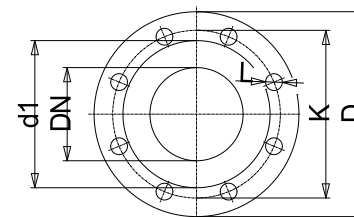
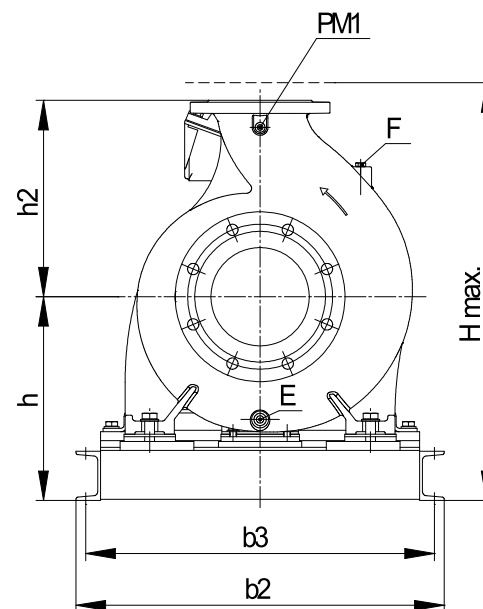
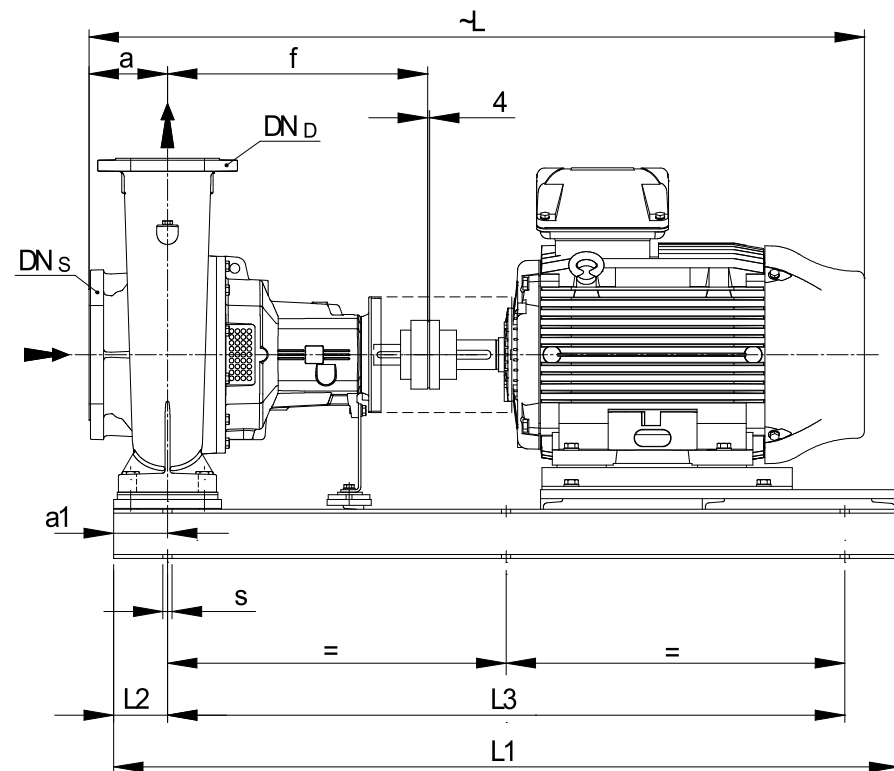
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Dimensions

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Frame mounted
Standard coupling
3MGS 315 S B3 110 kW E4

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Value C, D may vary from Standard

Dimensions [mm]

a	140
a1	110
b2	860
b3	810
CTO	0
DNd	100
DNs	125
E	3/8"
F	3/8"
f	530
Guard	254
h	505
h2	315
Hmax	1062
L	1799.5
L1	1850
L2	110
L3	1630
PM1	1/4"
s	6xØ26
Trim	0
Volumen	1.6435

Weight

Total weight	1260.2 kg
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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

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