

NSCF 65-315/750/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		
12	Operating speed	2985 rpm	Stages	1
13	Suction nozzle	DN80 / PN10/16 / EN1092-2	Impeller Ø	Max. mm 315
14	Discharge nozzle	DN65 / PN10/16 / EN1092-2		designed mm 298
15	Max. casing pressure	kPa		Min. mm 272
16	Max. working pressure	kPa 1241.4	Flow	Nominal m³/h
17	Impeller type	Radial impeller		Max- m³/h 208.3
18	Head H(Q=0)	m 130		Min- m³/h 24
19	Max. shaft power	kW 72.3	Head	Nominal m
20	Pump weight	kg 102		at Qmax m 75.9
21	Total weight	kg 826.0		at Qmin m 126.4
			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 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 280 S B3 75 kW E4		Shaft diameter	Pump 32 mm	Motor 65 mm
45	Rated power	75 kW	Rated current	129 A	Frame size	160
46	Nominal speed	2985 rpm	Rated voltage	400 V	Spacer length	mm 4
47	Frame size	280 S	Service factor	1	Weight	kg 7.8
48	Weight	kg 595.8	Degree of protection	IP55	Coupling protection	GR.COUPLGUARD ES32-190-23 A4 2.4 kg

Base plate

49	Name	BASEFRAME_NSC80-6_C00		Remarks		
50	Weight	kg	118.0			

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Performance curve

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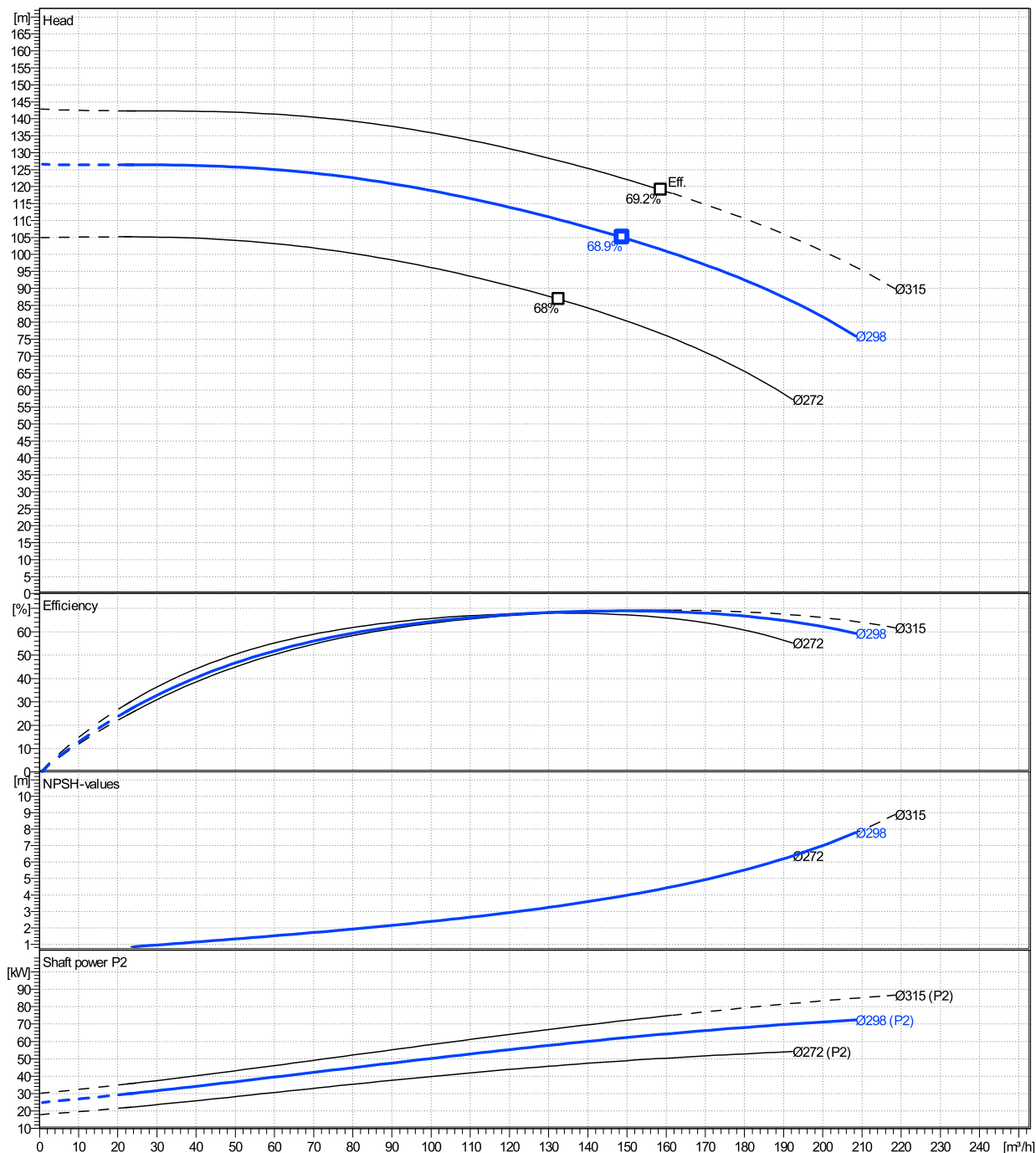
	Ø mm	Pump capacity Operating range			Pump head		Shaft power P2			Frequency	Hz	50
		Min. m³/h	Max. m³/h	η Max. m³/h	H(Q=0) m	η Max. m	P2(Q=0) kW	Max. kW	η Max. kW	Operating speed	rpm	2985
actual	298	24	208	149	127	105		72.3	62	Nominal flow	m³/h	0
Min.	0	/	/	133	105	86.8		/	46.2	Nominal head	m	0
Max.	315	/	/	159	143	119		/	74.4	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: >=0,40 - according to Ecodesign Directive 2009/125/EC and Regulation (EU) No.547/2012



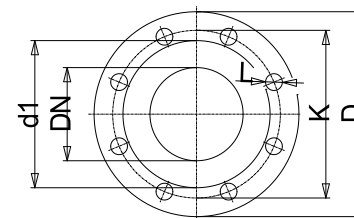
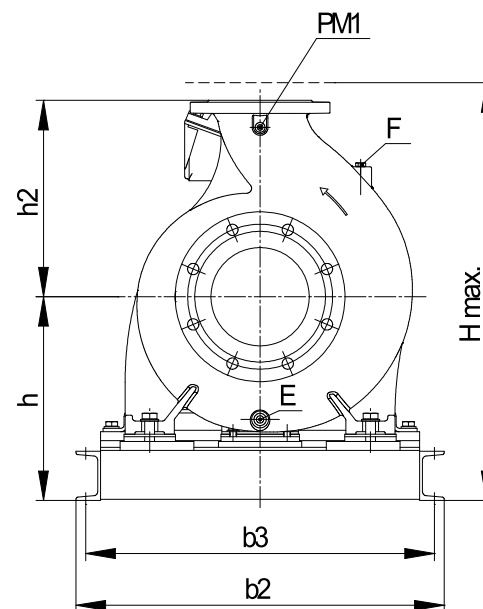
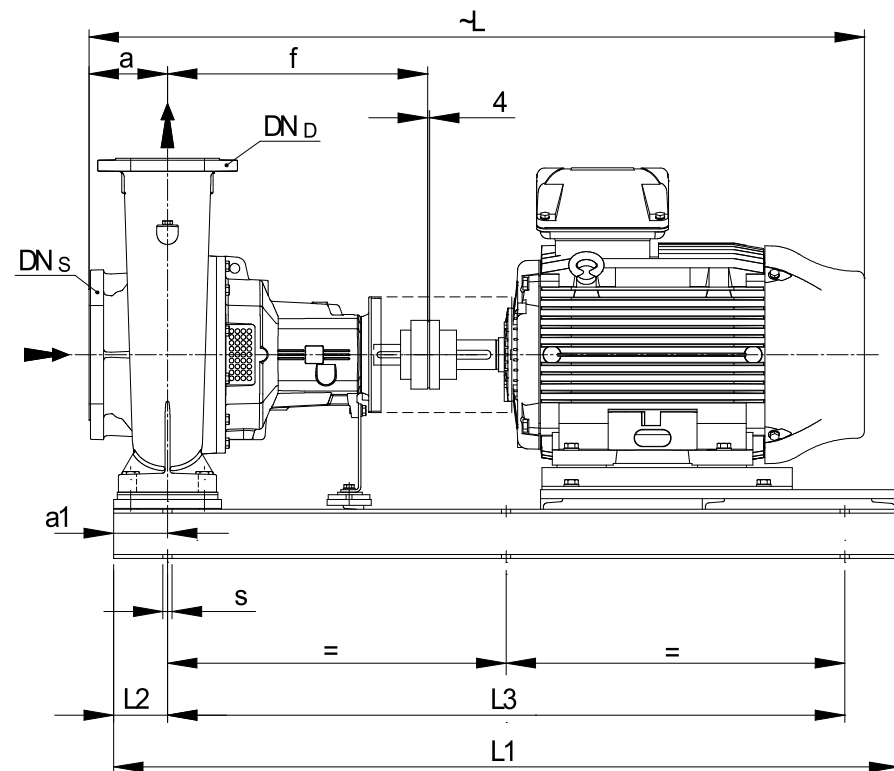
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Dimensions

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Frame mounted
Standard coupling
3MGS 280 S B3 75 kW E4

Electrical and dimensional data refer to IE4 motor



Value C, D may vary from Standard

Dimensions		[mm]	
a	125		
a1	110		
b2	750		
b3	710		
CTO	0		
DNd	65		
DNs	80		
E	3/8"		
F	3/8"		
f	470		
Guard	224		
h	390		
h2	280		
Hmax	803		
L	1610.5		
L1	1550		
L2	110		
L3	1330		
PM1	1/4"		
s	6xØ19		
Trim	0		
Volumen	0.96992		

Weight			
Total weight		826 kg	

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

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