

NSCF 300-400/1320/L45VDC4 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	Advanced, Grease lubrication [Std]		
10	Execution	Standard coupling		
11	Design	Horizontal		
12	Operating speed	1490 rpm	Stages	1
13	Suction nozzle	DN350 /	PN16 /	EN1092-2
14	Discharge nozzle	DN300 /	PN16 /	EN1092-2
15	Max. casing pressure	kPa		
16	Max. working pressure	kPa 411.1		
17	Impeller type	Radial impeller		
18	Head H(Q=0)	m 42		
19	Max. shaft power	kW 130.9		
20	Pump weight	kg 548		
21	Total weight	kg 1,864.1		
			Impeller Ø	Max. mm 425
				designed mm 367
				Min. mm 346
				Nominal m³/h
			Flow	Max- m³/h 1668
				Min- m³/h 354
				Nominal m
			Head	at Qmax m 17.7
				at Qmin m 41.6
			Shaft power	kW
			Efficiency	%
			NPSH 3%	m

Materials

22		Pump		Shaft Seal
23	Volute Casing	Ductile Iron, EN-GJS-400-15, ASTM A536 40-60-18		Single mechanical seal, without shaft sleeve
24	Impeller	Cast Iron, EN 1561 - GJL-200, ASTM Class 30		eMG12 - Ø70mm
25	Casing Cover	Ductile Iron, EN-GJS-400-15, ASTM A536 40-60-18		Mechanical seal diameter 70 mm
26	Shaft	Stainless steel, 1.4057, AISI 431		1. Rotating ring
27	Wear ring	Stainless steel, 1.4301, AISI 304		2. Stationary ring
28	Impeller lock nut and washer	A4 (1.4401)		3. Secondary seal
29	Impeller key	Stainless steel, 1.4571, AISI 316Ti		4. Springs
30	Fill and drain plugs	Galvanized carbon steel, EN 10277-3, AISI 1213 / 1215		5. Others
31	Bearing bracket	Cast Iron, EN 1561 - GJL-250, ASTM Class 35		Gaskets of the pump
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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 M B3 132 kW E4		Shaft diameter	Pump 60 mm	Motor 80 mm
45	Rated power	132 kW	Rated current	228 A	Frame size	200
46	Nominal speed	1490 rpm	Rated voltage	400 V	Spacer length	mm 4
47	Frame size	315 M	Service factor	1	Weight	kg 16.0
48	Weight	kg 1,003.4	Degree of protection	IP55	Coupling protection	GR.COUPLGUARD ES60-310-23 A4 3.5 kg

Base plate

49	Name	FRAME 60NSCF80B-450-315		Remarks
50	Weight	kg 293.2		

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Performance curve

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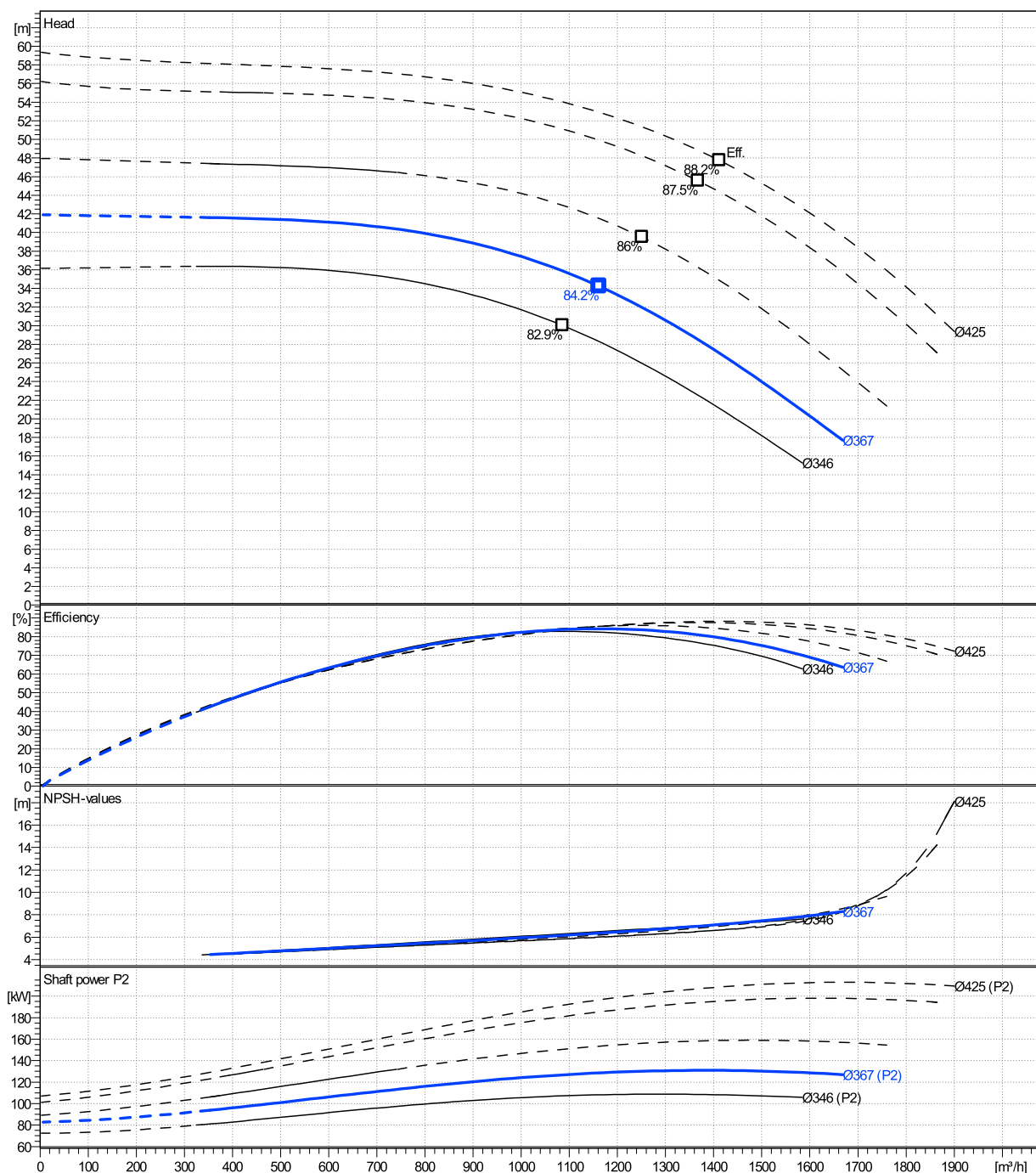
	Ø mm	Pump capacity Operating range			Pump head H(Q=0)		Shaft power P2			Frequency		Hz
		Min. m³/h	Max. m³/h	Max. m³/h	η	Max. m	P2(Q=0) kW	Max. kW	η	Max. kW	Operating speed rpm	
actual	367	354	1670	1160	41.9	34.2		131	129		1490	
Min.	0	/	/	1090	36.2	30		/	107			0
Max.	425	/	/	1410	59.3	47.7		/	209			0

Power datas referred to:

hydr. Performance acceptance acc. To EN ISO 9906 Class Grade 2B

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



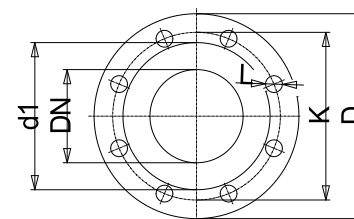
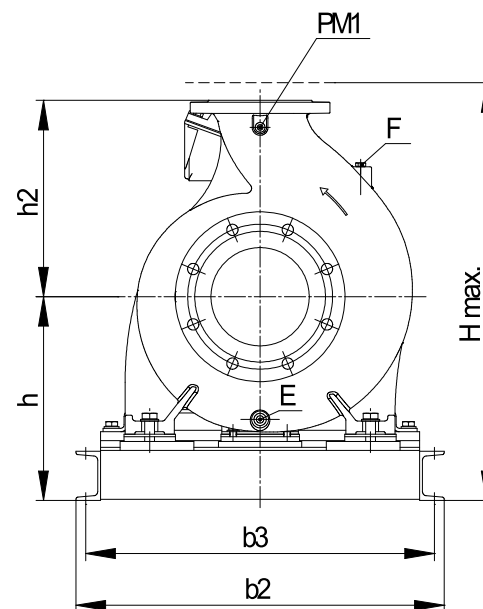
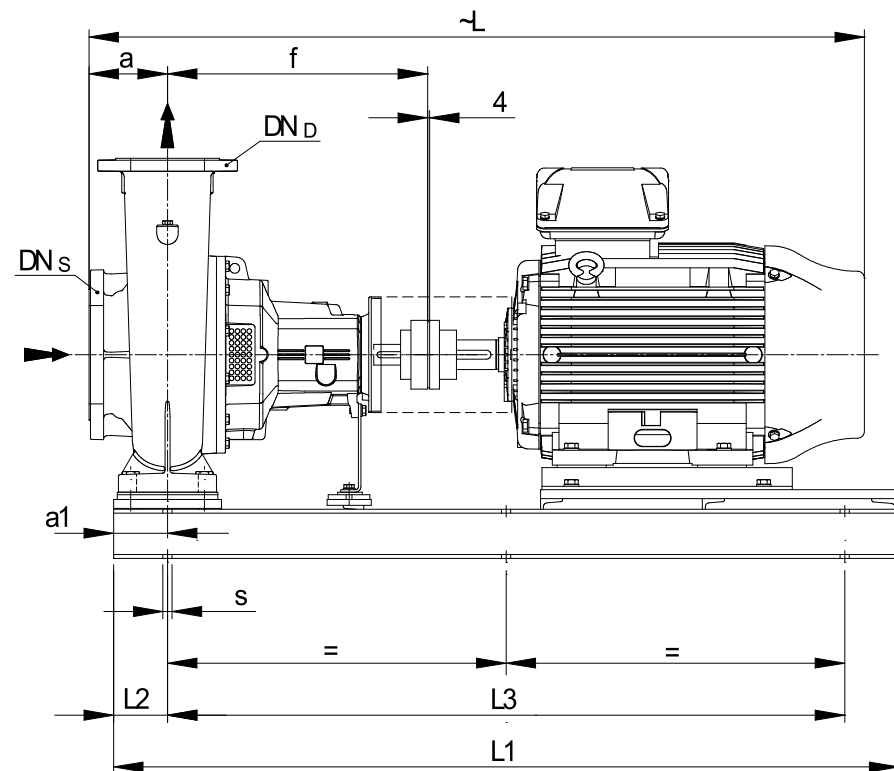
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Dimensions

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Frame mounted
Standard coupling
3MGS 315 M B3 132 kW E4

Electrical and dimensional data refer to IE4 motor



Value C, D may vary from Standard

Dimensions		[mm]	
a	250		
a1	200		
b2	960		
b3	910		
CTO	0		
DNd	300		
DNs	350		
E	1/2"		
F	-		
f	800		
Guard	314		
h	640		
h2	600		
Hmax	1240		
L	2209.5		
L1	2100		
L2	200		
L3	1700		
PM1	1/2"		
s	6xØ26		
Trim	0		
Volumen	2.6302		

Weight			
Total weight		1864.1 kg	

Connections			
Suction nozzle		Discharge nozzle	
DN350		DN300	
PN16		PN16	
EN1092-2		EN1092-2	
C	36	C	32
D	535	D	485
d1	429	d1	370
K	470	K	410
L	28	L	28
z	16	z	12

Dimensions and weight without obligation

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