

NSCF250-315/750/L46UDC4 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	°F 39.2
3	Nominal flow	US g.p.m. 0	Max / Min Operating Temperature mech. Seal	°F 120 / -25
4	Nominal head	ft 0	pH-value at t A	7
5	Static head	ft 0	Density at t A	lb/ft³ 62.4
6	Inlet pressure	psi 0	Kin. viscosity at t A	ft²/s 1.689E-5
7	Environmental temperature	°F 68	Vapor pressure at t A	psi 14.5
8	Available system NPSH	ft 0	Altitude	0

Pump data

9	Lubrication	Standard, Grease lubrication [Std]								
10	Execution	Standard coupling				Impeller Ø	Max.	inch	11 13/16	
11	Design	Horizontal					designed	inch	10 1/2	
12	Operating speed	1788 rpm		Stages 1			Min.	inch	10 1/2	
13	Suction nozzle	DN300	/	PN16	/	EN1092-2		Nominal	US g.p.m.	
14	Discharge nozzle	DN250	/	PN16	/	EN1092-2		Max-	US g.p.m.	5705.2
15	Max. casing pressure	psi				Flow	Min-	US g.p.m.	1415.3	
16	Max. working pressure	psi		44.7			Nominal	ft		
17	Impeller type	Radial impeller					at Qmax	ft	39	
18	Head H(Q=0)	ft		100		Head	at Qmin	ft	100	
19	Max. shaft power	hp		100.3			Shaft power	hp		
20	Pump weight	kg		696.6			Efficiency	%		
21	Total weight	lb		On demand		NPSH 3%	ft			

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 - Ø48mm BQ7EGG-WA
25	Casing Cover	Ductile Iron, EN-GJS-400-15, ASTM A536 40-60-18		Mechanical seal diameter 1 7/8 inch
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)
32				
33				
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41				

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 1 5/8 inch Moto 2 15/16 inch
45	Rated power	100.58 hp	Rated current	141 A
46	Nominal speed	1788 rpm	Rated voltage	380 V
47	Frame size	280 S	Service factor	1
48	Weight	lb 1,547.2	Degree of protection	IP55
			Frame size	180
			Spacer length	inch 3/16
			Weight	lb 25.4
			Coupling protection	GR.COUPLGUARD ES42-230-23 A4 7.4956 lb

Base plate

49	Name	BASEFRAME_NSC80-9_C00
50	Weight	lb 365.3

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Performance curve

Company name
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Phone number
e-mail address

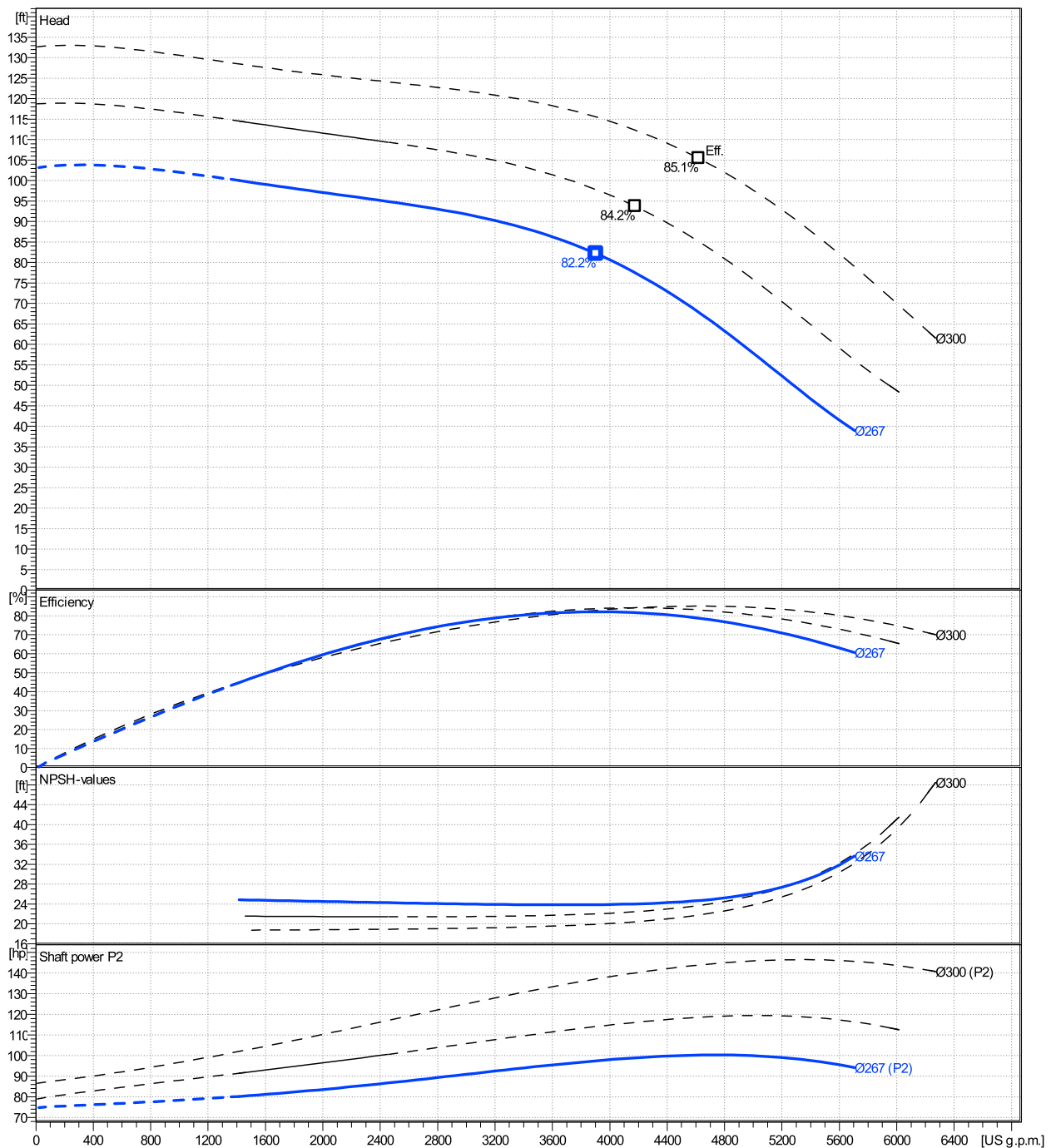
	Ø mm	Pump capacity Operating range			Pump head		Shaft power P2			Frequency		Hz	60
		Min. US g.p.m.	Max. US g.p.m.	Max. US g.p.m.	H(Q=0) ft	η ft	P2(Q=0) hp	Max. hp	η hp	Operating speed rpm	Nominal flow US g.p.m.		
actual	10 1/2	1420	5710	3910	103	82.2		100	97.5				1788
Min.	0	/	/	3910	103	82.2		/	97.5				0
Max.	11 13/16	/	/	4620	133	105		/	144				0

Power datas referred to:

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

Water, pure [100%] ; 39.2°F; 62.4lb/ft³; 1.69E-5ft²/s

MEI: 0,62 - according to Ecodesign Directive 2009/125/EC and Regulation (EU) No.547/2012



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Dimensions

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e-mail address

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

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Dimensions [inch]

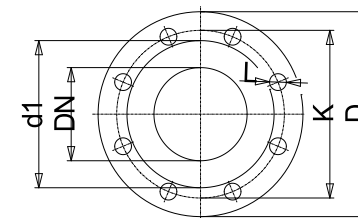
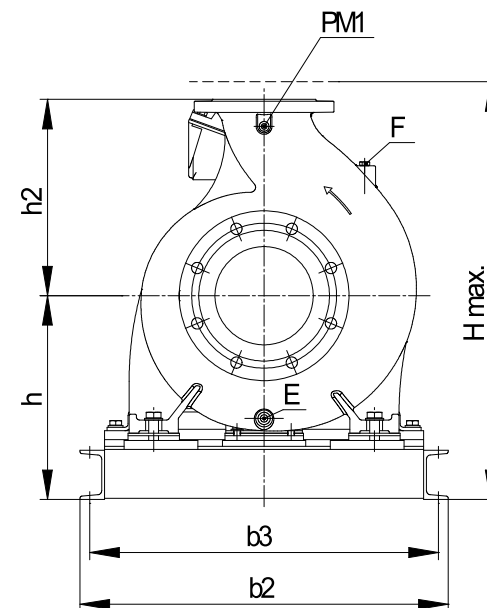
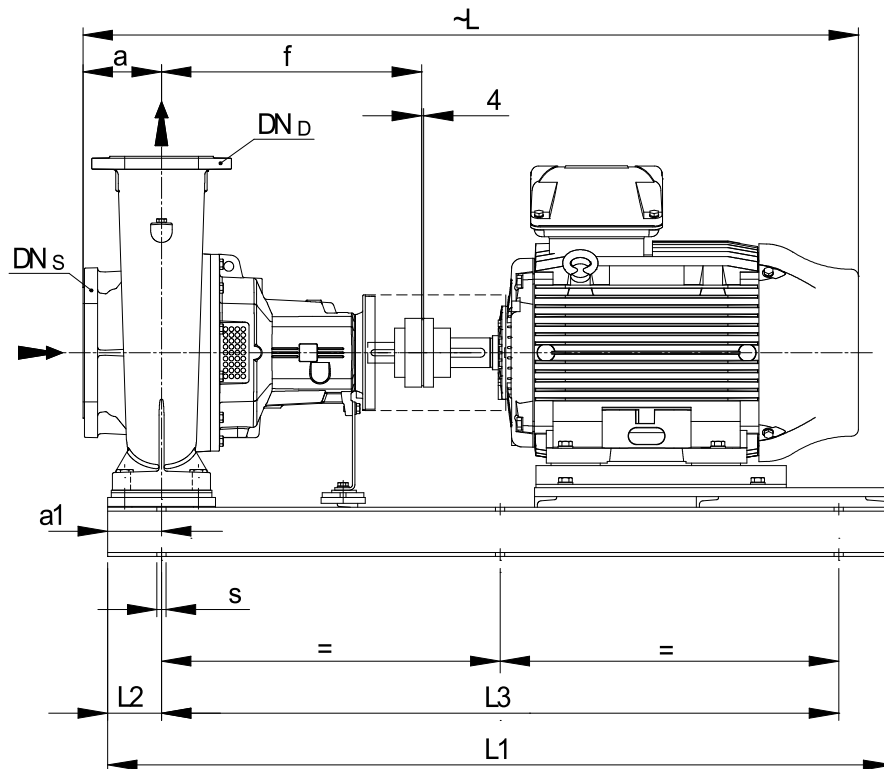
a	9 ¹³ / ₁₆
a1	6 ¹ / ₂
b2	33 ⁷ / ₁₆
b3	31 ⁷ / ₈
CTO	
DNd	9 ¹³ / ₁₆
DNs	11 ¹³ / ₁₆
E	1/2"
F	-
f	20 ⁷ / ₈
Guard	10
h	20 ¹¹ / ₁₆
h2	19 ¹¹ / ₁₆
Hmax	40 ³ / ₈
L1	66 ¹⁵ / ₁₆
L2	6 ¹ / ₂
L3	53 ¹⁵ / ₁₆
PM1	1/2"
s	6xØ19
Trim	
Volumen	1/16

Weight

Total weight	On demand kg
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Connections

Suction nozzle	Discharge nozzle
DN300	DN250
PN16	PN16
EN1092-2	EN1092-2
C	1 ¹ / ₄
D	19 ¹ / ₈
d1	14 ⁹ / ₁₆
K	16 ¹ / ₈
L	1 ¹ / ₈
Z	1/2



Value C, D may vary from Standard

Dimensions and weight without obligation

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