

NSCF50-125/07/X46RCS4

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	[F] = 4 poles motor unit with standard cuopling			Impeller Ø	Max.	inch	5 11/16					
11	Design	Horizontal				designed	inch	4 5/8					
12	Operating speed	1750 rpm		Stages		1		Min.	inch	4 5/8			
13	Suction nozzle	DN 65		/	PN 16		/	EN1092-2		Flow	Nominal	US g.p.m.	
14	Discharge nozzle	DN 50		/	PN 16		/	EN1092-2			Max-	US g.p.m.	224.5
15	Max. casing pressure			psi				Min-	US g.p.m.		48.4		
16	Max. working pressure			psi	9.2					Head	Nominal	ft	
17	Impeller type				Radial impeller						at Qmax	ft	6.6
18	Head H(Q=0)			ft	21				at Qmin		ft	19.9	
19	Max. shaft power			hp	.9					Shaft power			hp
20	Pump weight			kg	75					Efficiency			%
21	Total weight			lb	146.0					NPSH 3%			ft

Materials

22		Pump		Shaft Seal
23	Volute Casing	Cast Iron		Single mechanical seal, without shaft sleeve
24	Casing Cover	Cast Iron		eMG12 - Ø22mm
25	Impeller	Fabricated Stainless Steel		Mechanical seal diameter
26	Shaft	Stainless steel		7/8 inch
27	Wear ring	Stainless steel		1. Rotating ring
28	Impeller lock nut and washer	Stainless steel		Carbon graphite resin impregnated
29	Impeller key	Stainless steel		2. Stationary ring
30	Fill and drain plugs	Stainless steel		SiC, silicon carbide, sintered press. less
31				3. Secondary seal
32				Ethylene propylene rubber (EPDM)
33				4. Springs
34				CrNiMo - Steel
35				5. Others
36				EPDM - WRAS
37				Gaskets of the pump
38				Ethylene propylene rubber (EPDM)
39				
40				
41				

Motor data

42	Manufacturer	Xylem			Manufacturer		Flender	
43	Specific design	IE3 3ph Surface Motor - Premium Efficiency			Series		Standard Coupling - N-EUPEX - Type B	
44	Type	LLM480B3/307			Shaft diameter		Pump 15/16 inch	Motor 3/4 inch
45	Rated power	1.0058 hp	Rated current	2.6 A	Frame size		68	
46	Nominal speed	1735 rpm	Rated voltage	265 V	Spacer length		inch	1/8
47	Frame size	80	Service factor	1	Weight		lb	1.2
48	Weight	lb 24.3	Degree of protection	IP55	Coupling protection	COUPLGUARD 160x92PNTD 0.44092 lb		

Base plate

49	Name	BASE 2A 800X360 BLU	Remarks
50	Weight	lb 45.2	

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Performance curve

Company name
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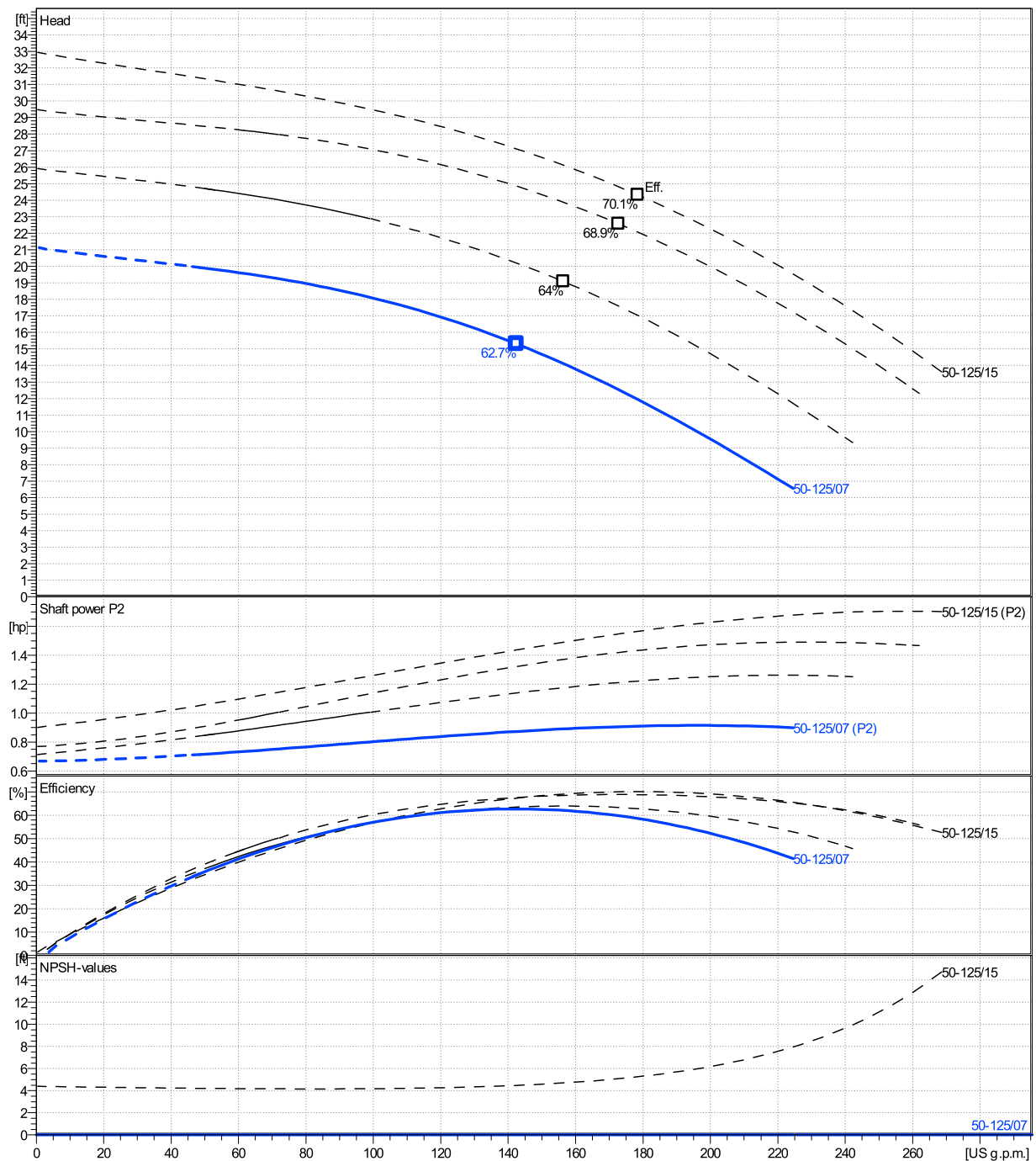
	Ø mm	Pump capacity Operating range Min. Max. Max. US g.p.m. US g.p.m. US g.p.m.			Pump head H(Q=0) Max. ft ft		Shaft power P2 P2(Q=0) Max. Max. hp hp hp			Frequency Hz 60	
		Min.	Max.	Max.	H(Q=0)	Max.	P2(Q=0)	Max.	Max.	Operating speed rpm	1750
actual	4 5/8	48.4	225	142	21.1	15.3		0.915	0.873	Nominal flow US g.p.m.	0
Min.	0	/	/	142	21.1	15.3		/	0.873	Nominal head ft	0
Max.	5 11/16	/	/	178	33	24.3		/	1.57	Inlet pressure psi	0
										Static head ft	0

Power datas referred to:

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

hydr. Performance acceptance acc. To EN ISO 9906 Class Grade 3B

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

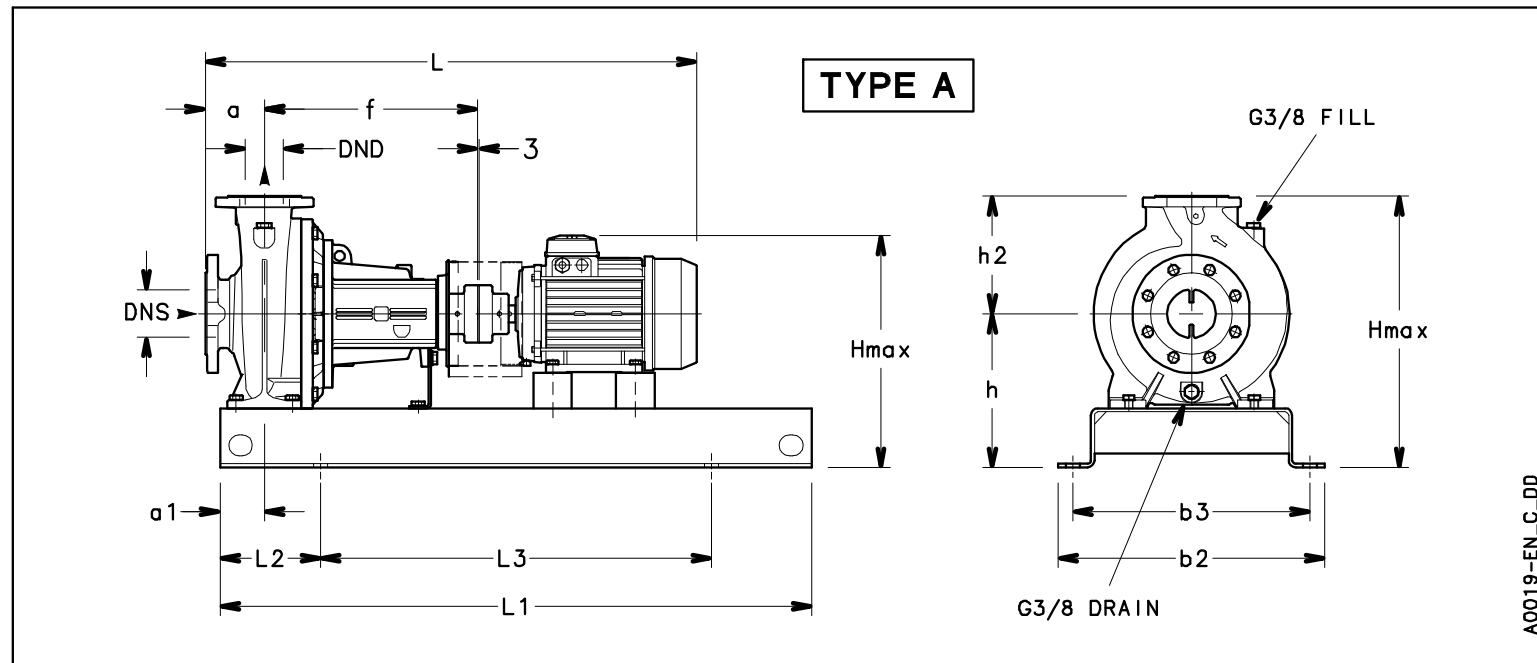


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Dimensions

Company name
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e-mail address

Frame mounted
[F] = 4 poles motor unit with standard coupling
LLM480B3/307



Dimensions		[inch]	
a	3 ¹⁵ / ₁₆		
a1	2 ³ / ₈		
AD	5 ¹ / ₂		
b2	14 ³ / ₁₆		
b3	12 ⁵ / ₈		
DND	1 ¹⁵ / ₁₆		
DNS	2 ⁹ / ₁₆		
f	14 ³ / ₁₆		
Guard	3 ¹¹ / ₁₆		
h	9 ⁹ / ₈		
h2	6 ⁵ / ₁₆		
Hmax	15 ⁷ / ₁₆		
L	28 ⁷ / ₈		
L1	31 ¹ / ₂		
L2	5 ¹ / ₈		
L3	21 ¹ / ₄		
s	4xØ19		
Type	A		
Volumen	1 ¹ / ₁₂₈		
x	1 ¹ / ₈		

Weight	
Total weight	66.24 kg

Connections			
Suction nozzle		Discharge nozzle	
DN 65		DN 50	
PN 16		PN 16	
EN1092-2		EN1092-2	
C	1 ³ / ₁₆	C	1 ³ / ₁₆
D	7 ⁵ / ₁₆	D	6 ¹ / ₂
df	4 ⁵ / ₈	df	3 ⁷ / ₈
DN	2 ⁹ / ₁₆	DN	1 ¹⁵ / ₁₆
K	5 ¹¹ / ₁₆	K	4 ¹⁵ / ₁₆
L	4 x 19	L	4 x 19

Note:
Weight and Dimensions of selected Hydrovar are NOT considered.
Please refer to additional datasheet.

Dimensions and weight without obligation

Project	Xylect-20182283	Created by		Last update	1/11/2025
Block	NSCF50-125/110/P26PCS4	Created on	1/11/2025		

Value C, D may vary from Standard