

NSCF40-160/15/P46PCS4

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	6 7/16		
11	Design	Horizontal					designed	inch	6 7/16		
12	Operating speed	1750 rpm		Stages 1			Min.	inch	5		
13	Suction nozzle	DN 65 /		PN 16 /		EN1092-2		Flow	Nominal	US g.p.m.	
14	Discharge nozzle	DN 40 /		PN 16 /		EN1092-2			Max-	US g.p.m.	176.1
15	Max. casing pressure	psi							Min-	US g.p.m.	40.1
16	Max. working pressure	psi		19.3		Head	Nominal	ft			
17	Impeller type	Radial impeller					at Qmax	ft	29		
18	Head H(Q=0)	ft		44			at Qmin	ft	45.6		
19	Max. shaft power	hp		2.1		Shaft power			hp		
20	Pump weight	kg		70.5		Efficiency			%		
21	Total weight	lb		175.2		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 BQ7EGG-WA
25	Impeller	Fabricated Stainless Steel		Mechanical seal diameter 7/8 inch
26	Shaft	Stainless steel		1. Rotating ring Carbon graphite resin impregnated
27	Wear ring	Stainless steel		2. Stationary ring SiC, silicon carbide, sintered press.less
28	Impeller lock nut and washer	Stainless steel		3. Secondary seal Ethylene propylene rubber (EPDM)
29	Impeller key	Stainless steel		4. Springs CrNiMo - Steel
30	Fill and drain plugs	Stainless steel		5. Others EPDM - WRAS
31				Gaskets of the pump Ethylene propylene rubber (EPDM)
32				
33				
34				
35				
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37				
38				
39				
40				
41				

Motor data

Electrical and dimensional data refer to IE3 motor

Coupling

42	Manufacturer	Lowara	Manufacturer	Flender
43	Specific design	IE3 3ph Surface Motor - Premium Efficiency	Series	Standard Coupling - N-EUPEX - Type B
44	Type	PLM 90 B3 1,5 kW	Shaft diameter	Pump 15/16 inch Motor 15/16 inch
45	Rated power	2.0115 hp	Rated current	6.34 A
46	Nominal speed	1734 rpm	Rated voltage	220 V
47	Frame size	90	Service factor	1
48	Weight	lb 50.7	Degree of protection	IP55
			Frame size	68
			Spacer length	inch 1/8
			Weight	lb 1.2
			Coupling protection	COUPLGUARD 160x102PNTD 0.48501 lb

Base plate

49	Name	BASE 3A 900X390 BLU
50	Weight	lb 52.2

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Performance curve

Company name
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e-mail address

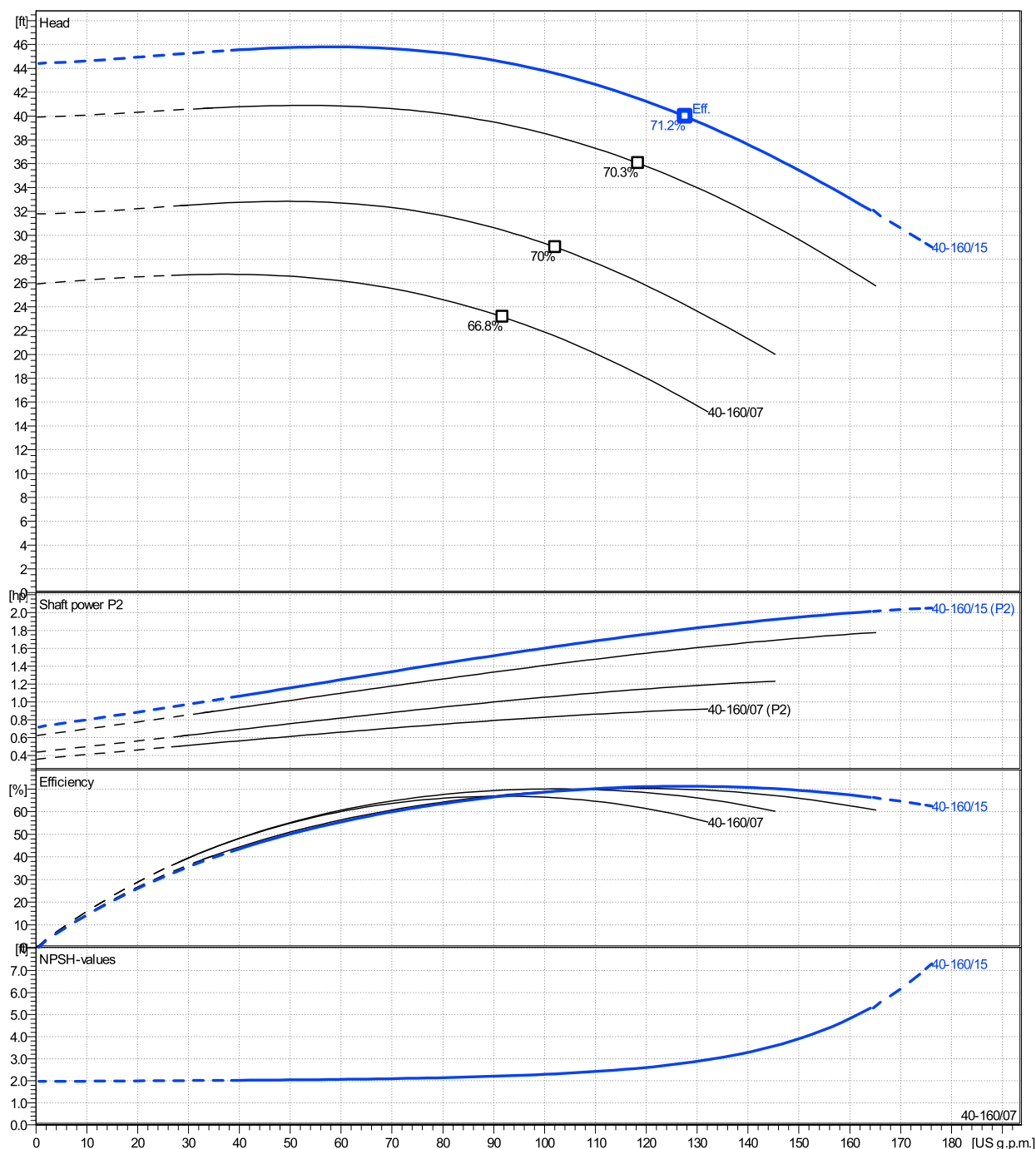
	Ø mm	Pump capacity Operating range Min. Max. Max. US g.p.m. US g.p.m. US g.p.m.			Pump head H(Q=0) η ft Max. ft		Shaft power P2 P2(Q=0) Max. η hp hp Max. hp			Frequency Hz 60	
		Min.	Max.	Max.	H(Q=0)	η	P2(Q=0)	Max.	η	Operating speed rpm	Nominal flow US g.p.m.
actual	6 7/16	40.1	164	128	44.4	40		2.05	1.81	1750	0
Min.	0	/	/	91.8	25.9	23.1	/	/	0.798		0
Max.	6 7/16	/	/	128	44.4	40	/	/	1.81		0

Power datas referred to:

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

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

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



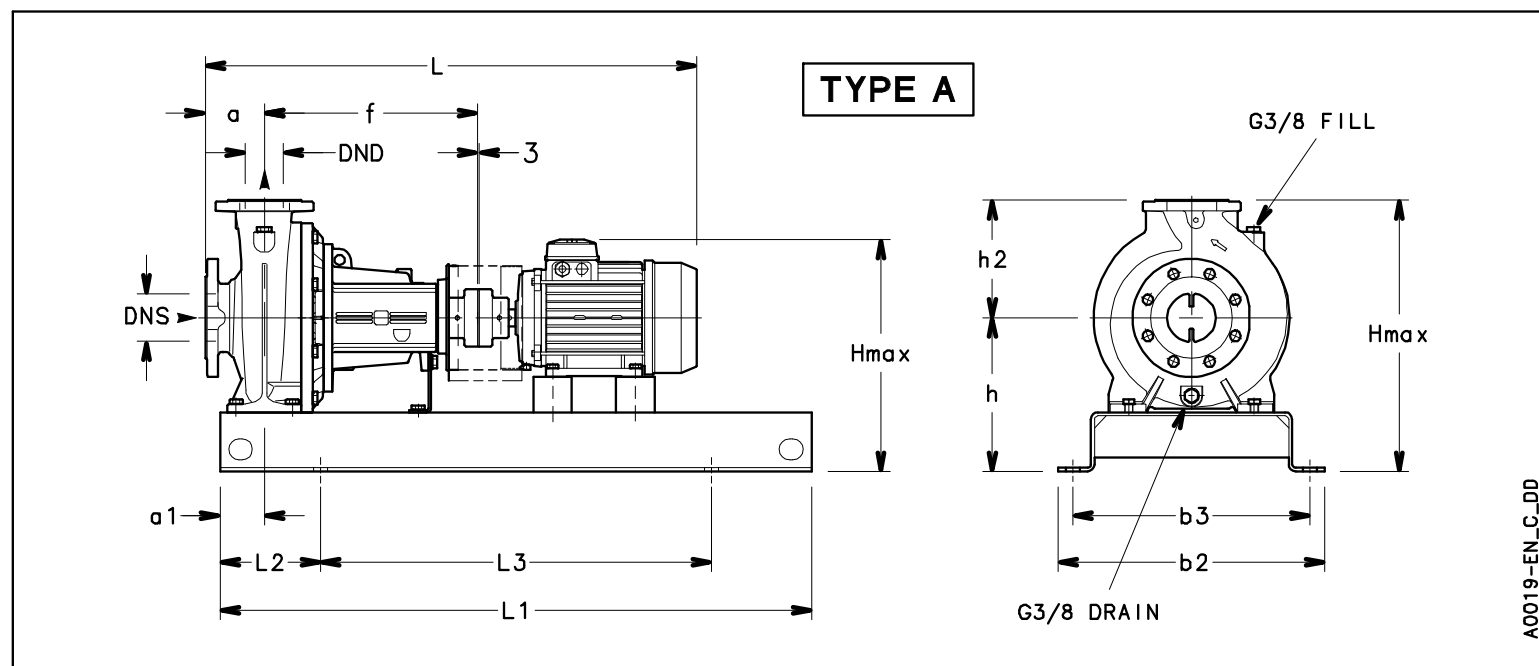
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Dimensions

Company name
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e-mail address

Frame mounted
[F] = 4 poles motor unit with standard coupling
PLM 90 B3 1,5 kW

Electrical and dimensional data refer to IE3 motor



Dimensions		[inch]	
a	3 1/8		
a1	2 3/8		
AD	5 1/4		
b2	15 3/8		
b3	13 3/4		
DND	1 9/16		
DNS	2 9/16		
f	14 3/16		
Guard	4 1/16		
h	9 9/8		
h2	6 5/16		
Hmax	15 7/16		
L	31 1/8		
L1	35 7/16		
L2	5 7/8		
L3	23 5/8		
s	4xØ19		
Type	A		
Volumen	1/128		
x	1/8		

Weight

Total weight	79.46 kg
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Connections

Suction nozzle		Discharge nozzle	
DN 65		DN 40	
PN 16		PN 16	
EN1092-2		EN1092-2	
C	13/16	C	11/16
D	7 5/16	D	5 7/8
df	4 5/8	df	3 5/16
DN	2 9/16	DN	1 9/16
K	5 11/16	K	4 5/16
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

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