

NSCF 32-160/40/P25VCS4**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	[F] = 2 poles motor unit with standard cuopling				
11	Design	Horizontal		Impeller Ø	Max.	mm 171
12	Operating speed	2900 rpm	Stages 1		designed	mm 160
13	Suction nozzle	DN 50 /	PN 16 /		Min.	mm 137
14	Discharge nozzle	DN 32 /	PN 16 /	Flow	Nominal	m³/h
15	Max. casing pressure	kPa			Max-	m³/h 36
16	Max. working pressure	kPa	337.4		Min-	m³/h 9.1
17	Impeller type	Radial impeller		Head	Nominal	m
18	Head H(Q=0)	m	34		at Qmax	m 22.7
19	Max. shaft power	kW	3.8		at Qmin	m 35
20	Pump weight	kg	31	Shaft power	kW	
21	Total weight	kg	84.9	Efficiency	%	
				NPSH 3%	m	

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	22 mm	
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						
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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 112 B3 4 kW		Shaft diameter	Pump 24 mm	Motor 28 mm
45	Rated power	4 kW	Rated current 7.62 A	Frame size	68	
46	Nominal speed	2885 rpm	Rated voltage 400 V	Spacer length	mm	3
47	Frame size	112	Service factor 1	Weight	kg	0.5
48	Weight	kg 29.4	Degree of protection IP55	Coupling protection	COUPLGUARD 160x112PNTD 0.24 kg	

Base plate

49	Name	BASE 3A 900X390 BLU				
50	Weight	kg	23.7			

NSCF 32-160/40/P25VCS4

Performance curve

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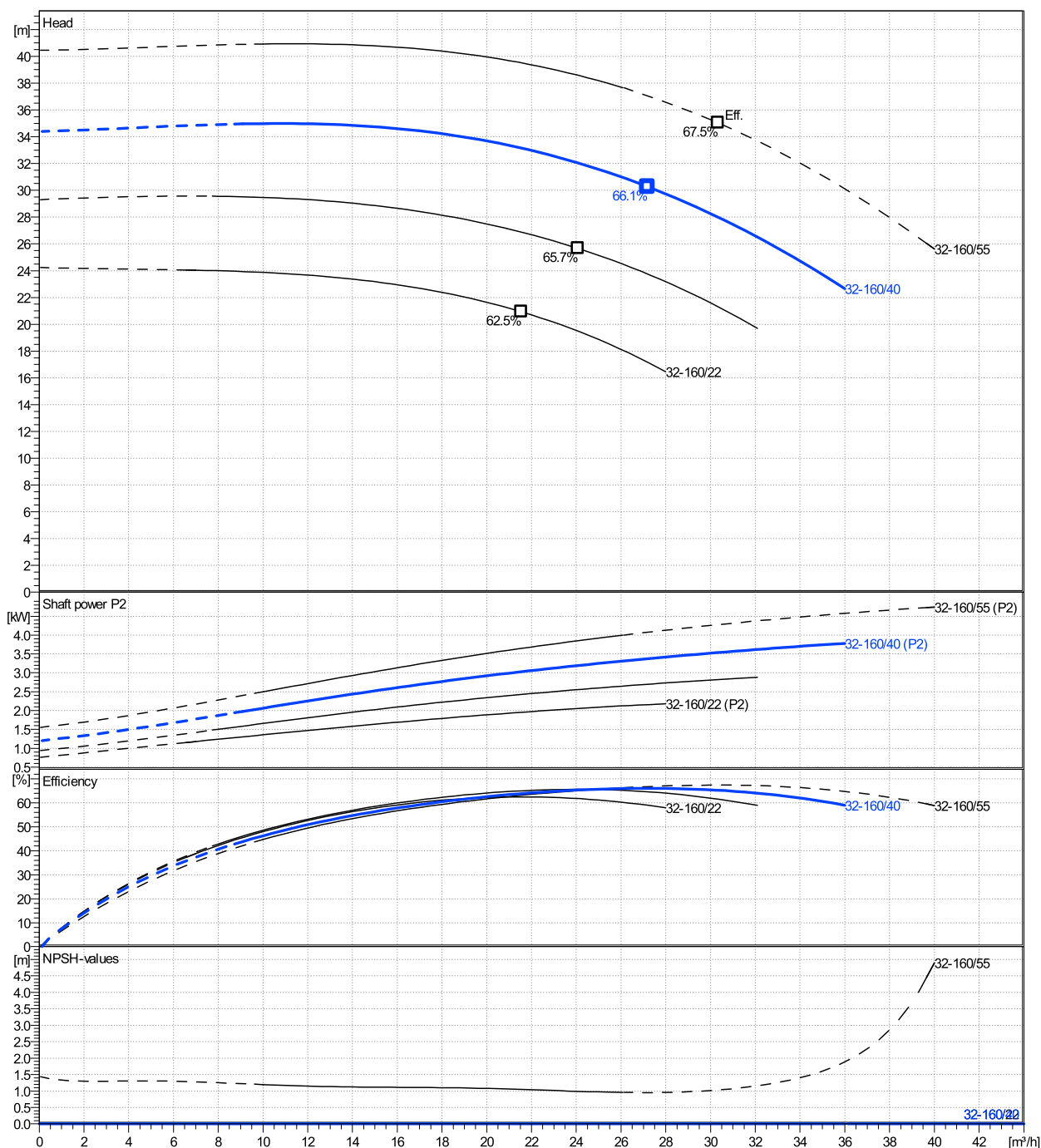
	Ø mm	Pump capacity Operating range			Pump head		Shaft power P2			Frequency		Hz
		Min. m³/h	Max. m³/h	Max. m³/h	H(Q=0) m	η Max. m	P2(Q=0) kW	Max. kW	η Max. kW	Operating speed rpm	Nominal flow m³/h	
actual	160	9.1	36	27.2	34.4	30.3		3.78	3.37	2900	0	50
Min.	0	/	/	21.6	24.2	20.9		/	1.95		0	
Max.	171	/	/	30.3	40.4	35		/	4.28		0	

Power datas referred to:

Water, pure [100%] ; 4°C; 1000kg/m³; 1.57mm²/s

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

MEI: >=0,4



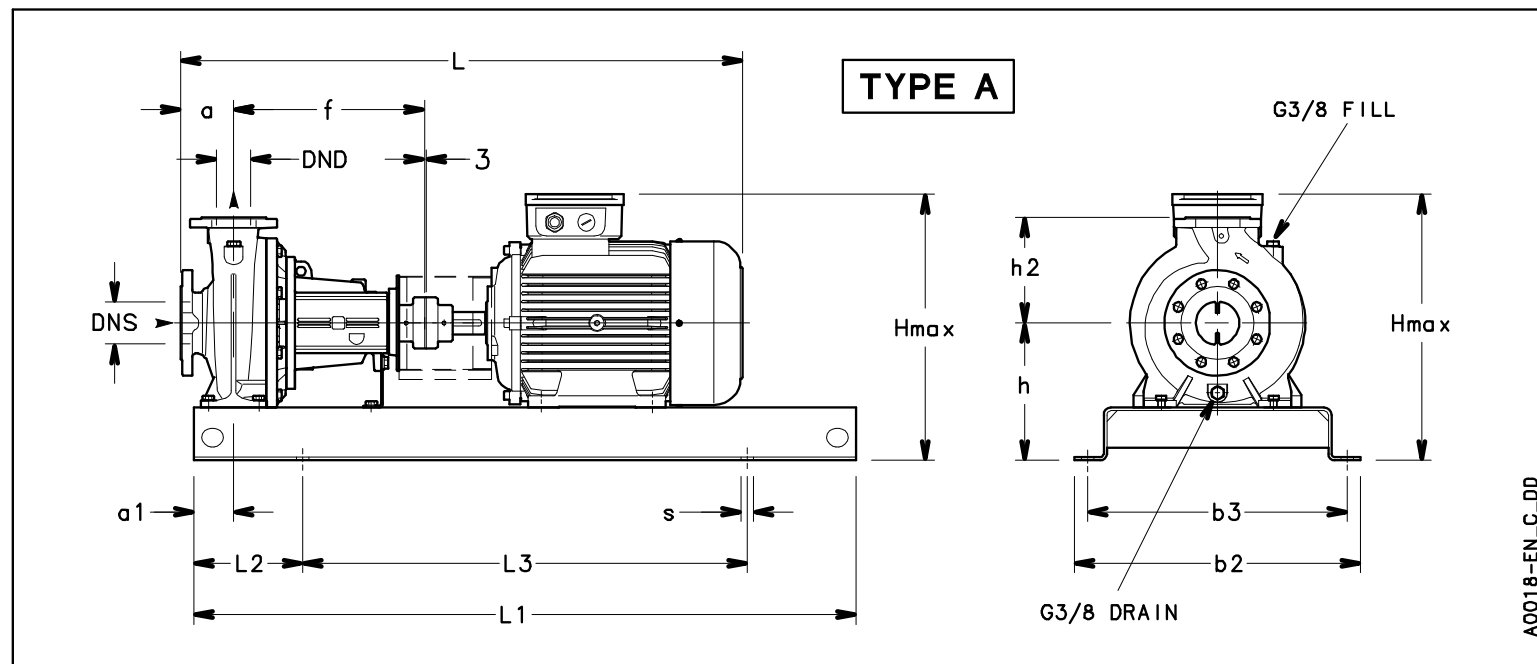
NSCF 32-160/40/P25VCS4

Dimensions

Company name
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Frame mounted
[F] = 2 poles motor unit with standard coupling
PLM 112 B3 4 kW

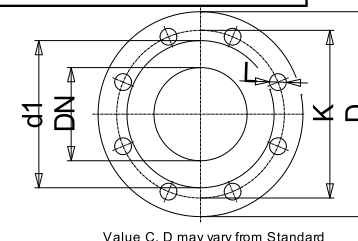
Electrical and dimensional data refer to IE3 motor



Dimensions		[mm]	
a	80		
a1	60		
AD	168		
b2	390		
b3	350		
DND	32		
DNS	50		
f	360		
Guard	113		
h	232		
h2	160		
Hmax	400		
L	825		
L1	900		
L2	150		
L3	600		
s	4xØ19		
Type	A		
Volumen	0.1287		
x	3		

Weight	
Total weight	84.88 kg

Connections			
Suction nozzle		Discharge nozzle	
DN 50		DN 32	
PN 16		PN 16	
EN1092-2		EN1092-2	
C	20	C	18
D	165	D	140
df	99	df	76
DN	50	DN	32
K	125	K	100
L	4 x 19	L	4 x 19



Dimensions and weight without obligation

Project	Xylect-20101351	Created by		Last update	12/15/2024
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