

NSCF 50-125/30/P25RCS4**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 148
12	Operating speed	2900 rpm	Stages 1		designed	mm 118
13	Suction nozzle	DN 65 /	PN 16 /		Min.	mm 118
14	Discharge nozzle	DN 50 /	PN 16 /	Flow	Nominal	m³/h
15	Max. casing pressure	kPa			Max-	m³/h 79.8
16	Max. working pressure	kPa	168.2		Min-	m³/h 18.1
17	Impeller type	Radial impeller		Head	Nominal	m
18	Head H(Q=0)	m	17		at Qmax	m 6.4
19	Max. shaft power	kW	2.9		at Qmin	m 16.8
20	Pump weight	kg	34	Shaft power	kW	
21	Total weight	kg	82.7	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				
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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 100 B3 3 kW		Shaft diameter	Pump 24 mm	Motor 28 mm
45	Rated power	3 kW	Rated current	6.33 A	Frame size	68
46	Nominal speed	2895 rpm	Rated voltage	400 V	Spacer length	mm 3
47	Frame size	100	Service factor	1	Weight	kg 0.5
48	Weight	kg 24.2	Degree of protection	IP55	Coupling protection	COUPLGUARD 160x112PNTD 0.24 kg

Base plate

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

NSCF 50-125/30/P25RCS4

Performance curve

Company name
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e-mail address

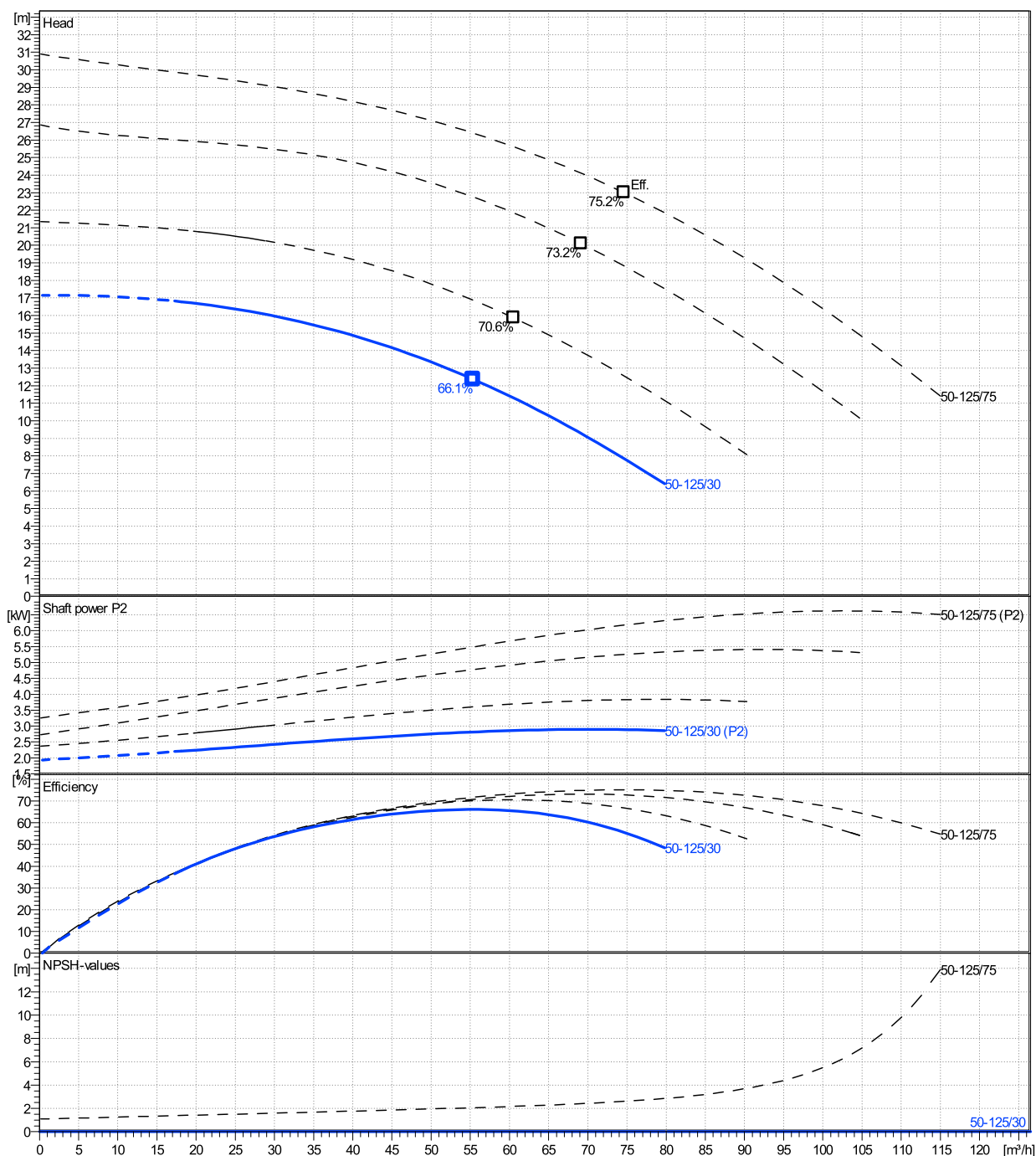
	Ø mm	Pump capacity Operating range			Pump head		Shaft power P2			Frequency		Hz
		Min. m³/h	Max. m³/h	η Max. m³/h	H(Q=0) m	η Max. m	P2(Q=0) kW	Max. kW	η Max. kW	Operating speed	rpm	
actual	118	18.1	79.8	55.3	17.1	12.4		2.9	2.81	Nominal flow	m³/h	0
Min.	0	/	/	55.3	17.1	12.4		/	2.81	Nominal head	m	0
Max.	148	/	/	74.6	30.9	23		/	6.17	Inlet pressure	kPa	0
										Static head	m	0

Power datas referred to:

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

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

MEI: >=0,4



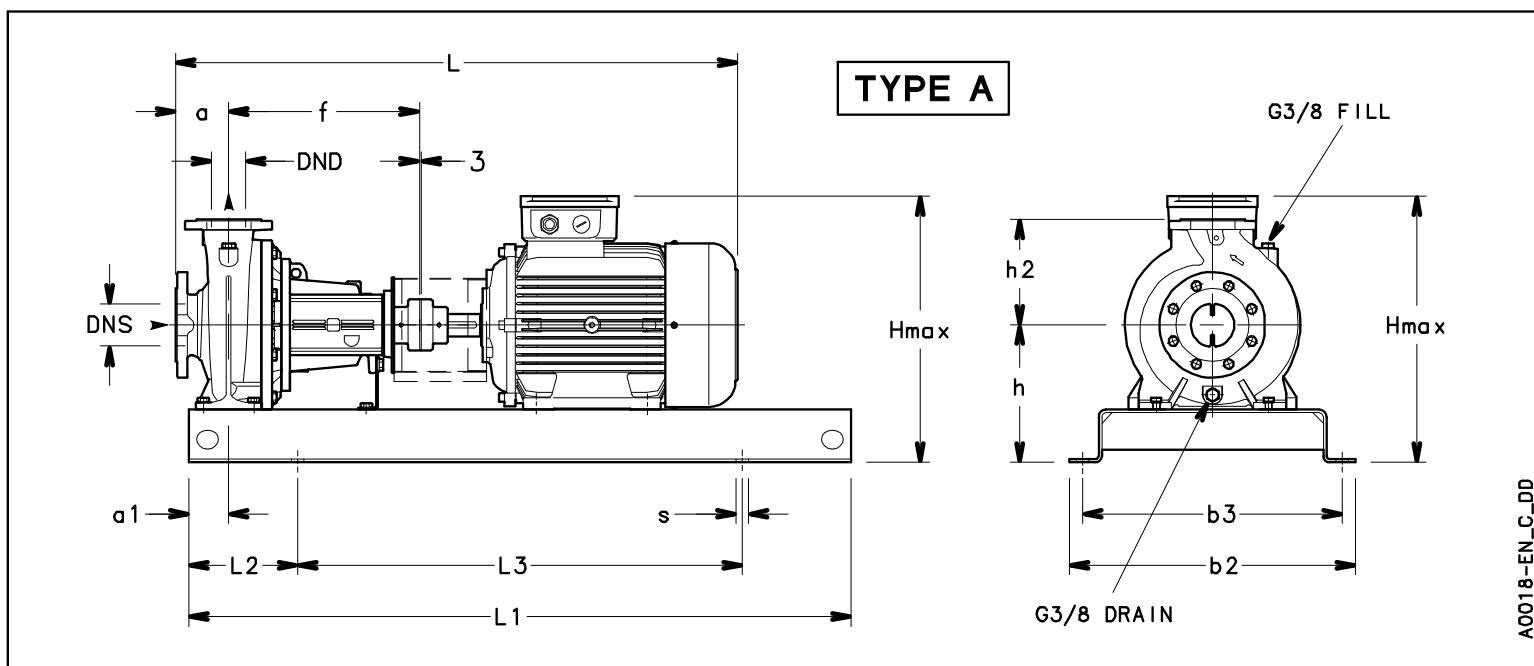
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Dimensions

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Frame mounted
[F] = 2 poles motor unit with standard coupling
PLM 100 B3 3 kW

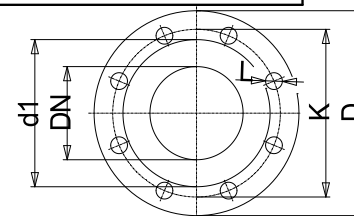
Electrical and dimensional data refer to IE3 motor



Dimensions		[mm]	
a	100		
a1	60		
AD	154		
b2	390		
b3	350		
DND	50		
DNS	65		
f	360		
Guard	113		
h	232		
h2	160		
Hmax	392		
L	842		
L1	900		
L2	150		
L3	600		
s	4xØ19		
Type	A		
Volumen	0.12872		
x	3		

Weight			
Total weight		82.68 kg	

Connections			
Suction nozzle		Discharge nozzle	
DN 65		DN 50	
PN 16		PN 16	
EN1092-2		EN1092-2	
C	20	C	20
D	185	D	165
df	118	df	99
DN	65	DN	50
K	145	K	125
L	4 x 19	L	4 x 19



Value C, D may vary from Standard

Dimensions and weight without obligation

Project	Xylect-20101351	Created by		Last update	12/15/2024
Block	NSCF 50-125/75/P25VCS4	Created on	12/15/2024		