

NSCF 40-250/22/P45RCS4

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] = 4 poles motor unit with standard cuopling					Impeller Ø	Max.	mm	257			
11	Design	Horizontal						designed	mm	243			
12	Operating speed	1450 rpm		Stages		1		Min.	mm	199			
13	Suction nozzle	DN 65		/	PN 16		/	EN1092-2		Flow	Nominal	m³/h	
14	Discharge nozzle	DN 40		/	PN 16		/	EN1092-2			Max-	m³/h	29
15	Max. casing pressure	kPa							Min-	m³/h	11		
16	Max. working pressure	kPa		202.4					Head	Nominal	m		
17	Impeller type	Radial impeller					at Qmax	m		16.2			
18	Head H(Q=0)	m		21						at Qmin	m	20.5	
19	Max. shaft power	kW		2.2					Shaft power		kW		
20	Pump weight	kg		60					Efficiency		%		
21	Total weight	kg		129.5					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 - Ø28mm
25	Impeller	Fabricated Stainless Steel		BQ7EGG-WA
26	Shaft	Stainless steel		Mechanical seal diameter
27	Wear ring	Stainless steel		28 mm
28	Impeller lock nut and washer	Stainless steel		1. Rotating ring
29	Impeller key	Stainless steel		Carbon graphite resin impregnated
30	Fill and drain plugs	Stainless steel		2. Stationary ring
31				SiC, silicon carbide, sintered press. less
32				3. Secondary seal
33				Ethylene propylene rubber (EPDM)
34				4. Springs
35				CrNiMo - Steel
36				5. Others
37				EPDM - WRAS
38				Gaskets of the pump
39				Ethylene propylene rubber (EPDM)
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 100 B3 2,2 kW	Shaft diameter	Pump 24 mm Motor 28 mm
45	Rated power	2.2 kW	Rated current	4.64 A
46	Nominal speed	1445 rpm	Rated voltage	400 V
47	Frame size	100	Service factor	1
48	Weight	kg 39.8	Degree of protection	IP55
			Frame size	68
			Spacer length	mm 3
			Weight	kg 0.5
			Coupling protection	COUPLGUARD 175x102PNTD 0.24 kg

Base plate

49	Name	BASE 4A 1000X450 BLU
50	Weight	kg 28.9

Project	Xylect-20101351	Created by		Last update	12/15/2024
Block	NSCF 40-250/220/L25VCS4	Created on	12/15/2024		

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Performance curve

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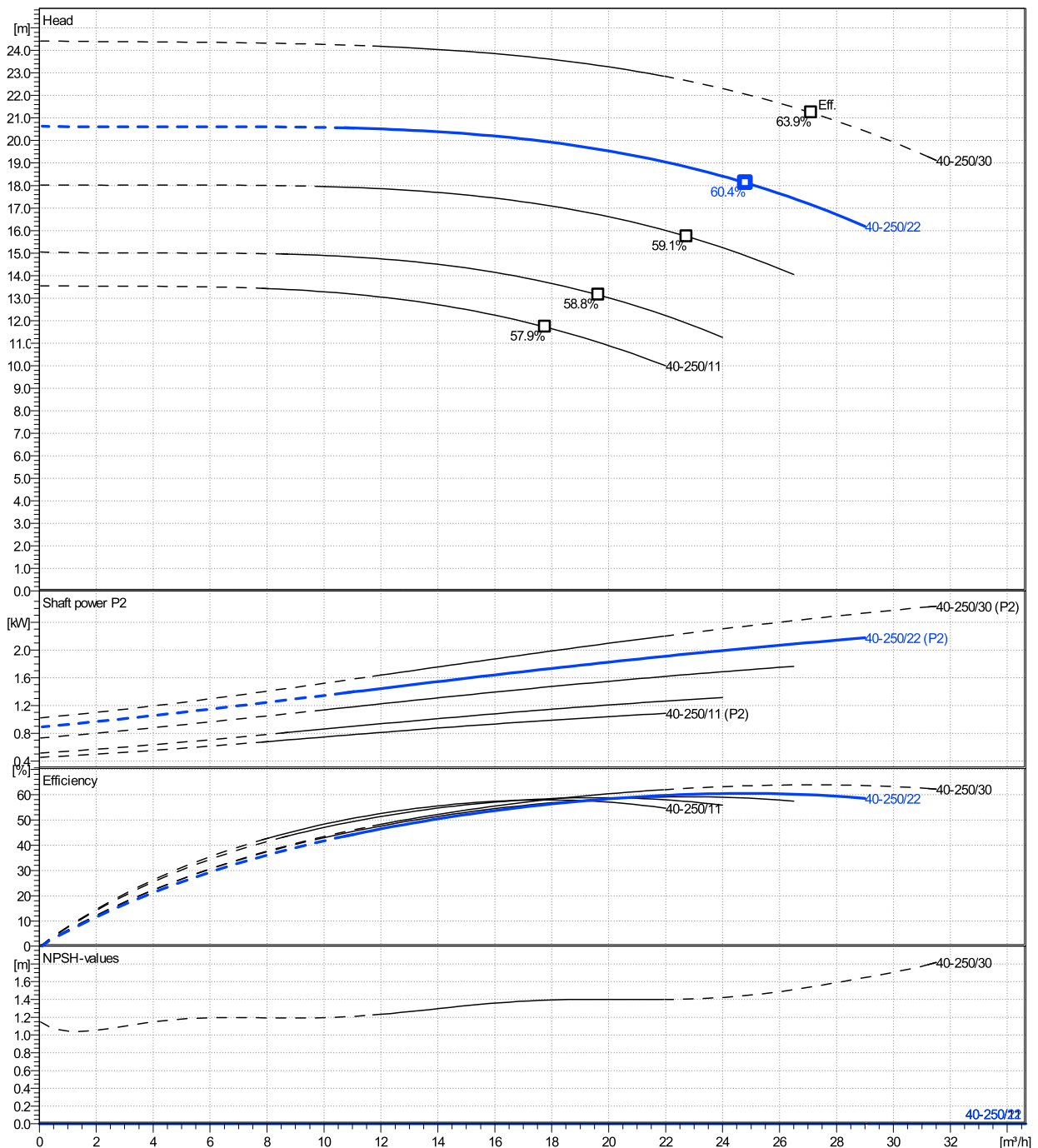
	Ø mm	Pump capacity Operating range			Pump head η		Shaft power P2 η			Frequency	Hz	50
		Min. m³/h	Max. m³/h	Max. m³/h	H(Q=0) m	Max. m	P2(Q=0) kW	Max. kW	Max. kW	Operating speed	rpm	1450
actual	243	11	29	24.8	20.6	18.1		2.18	2.02	Nominal flow	m³/h	0
Min.	0	/	/	17.8	13.5	11.7		/	0.983	Nominal head	m	0
Max.	257	/	/	27.1	24.4	21.2		/	2.45	Inlet pressure	kPa	0
										Static head	m	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



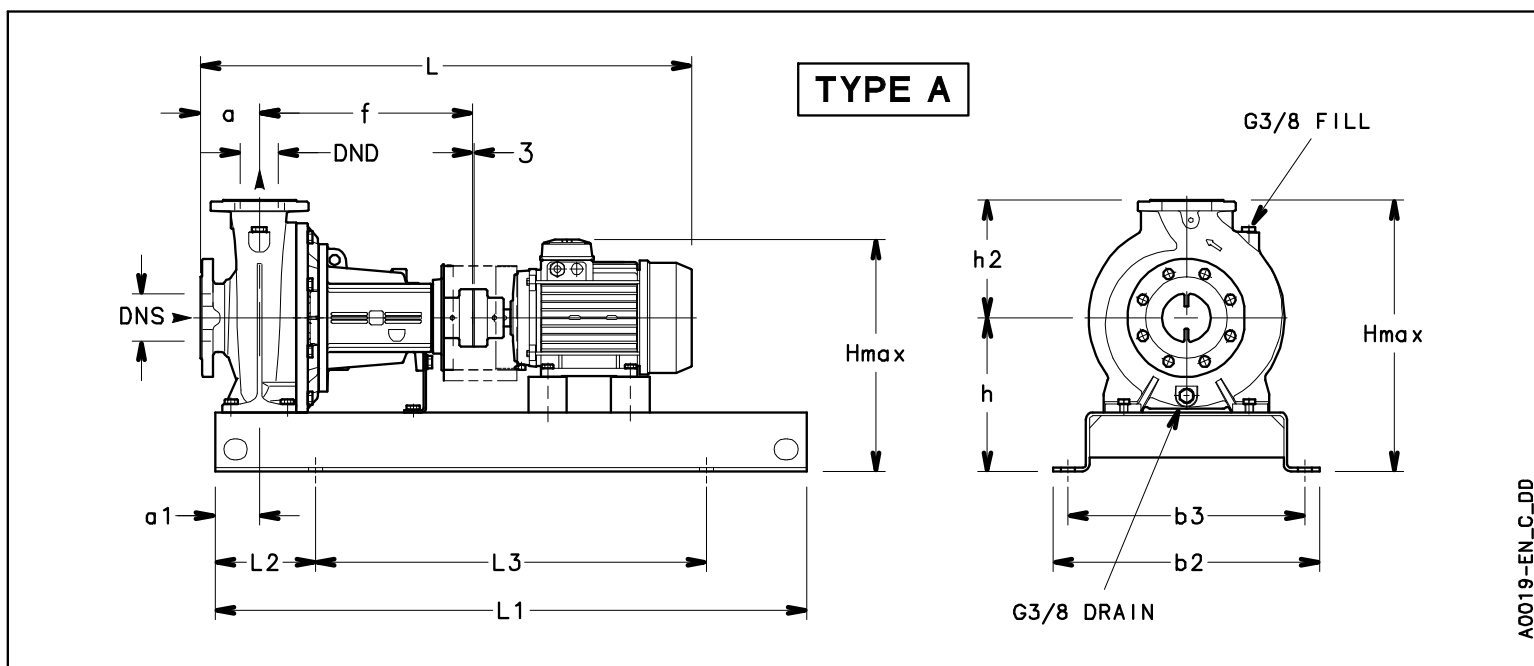
NSCF 40-250/22/P45RCS4

Dimensions

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Frame mounted
[F] = 4 poles motor unit with standard coupling
PLM 100 B3 2,2 kW

Electrical and dimensional data refer to IE3 motor



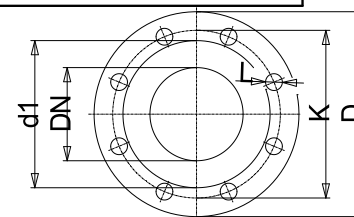
Dimensions		[mm]
a	100	
a1	75	
AD	164	
b2	450	
b3	400	
DND	40	
DNS	65	
f	360	
Guard	113	
h	280	
h2	225	
Hmax	505	
L	888	
L1	1000	
L2	170	
L3	660	
s	4xØ24	
Type	A	
Volumen	0.2018	
x	3	

Weight

Total weight	129.48 kg
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Connections

Suction nozzle		Discharge nozzle	
DN 65		DN 40	
PN 16		PN 16	
EN1092-2		EN1092-2	
C	20	C	18
D	185	D	150
df	118	df	84
DN	65	DN	40
K	145	K	110
L	4 x 19	L	4 x 19



Value C, D may vary from Standard

Dimensions and weight without obligation

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