

NSCF 40-250/30/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	257	
12	Operating speed	1450 rpm	Stages	1		Min.	mm	199	
13	Suction nozzle	DN 65	/	PN 16	/	EN1092-2	Nominal	m³/h	
14	Discharge nozzle	DN 40	/	PN 16	/	EN1092-2	Max-	m³/h	31.5
15	Max. casing pressure	kPa	239.5			Flow	Min-	m³/h	12
16	Max. working pressure	kPa							
17	Impeller type	Radial impeller			Head	Nominal	m		
18	Head H(Q=0)	m	24	at Qmax		m	19.1		
19	Max. shaft power	kW	2.6	at Qmin		m	24.2		
20	Pump weight	kg	60	Shaft power		kW			
21	Total weight	kg	128.9	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 - Ø28mm	BQ7EGG-WA
25	Impeller	Fabricated Stainless Steel	Mechanical seal diameter	28 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				
34				
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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	6.62 A	Frame size	68
46	Nominal speed	1450 rpm	Rated voltage	400 V	Spacer length	mm 3
47	Frame size	100	Service factor	1	Weight	kg 0.5
48	Weight	kg 39.2	Degree of protection	IP55	Coupling protection	COUPLGUARD 175x102PNTD 0.24 kg

Base plate

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

NSCF 40-250/30/P45RCS4

Performance curve

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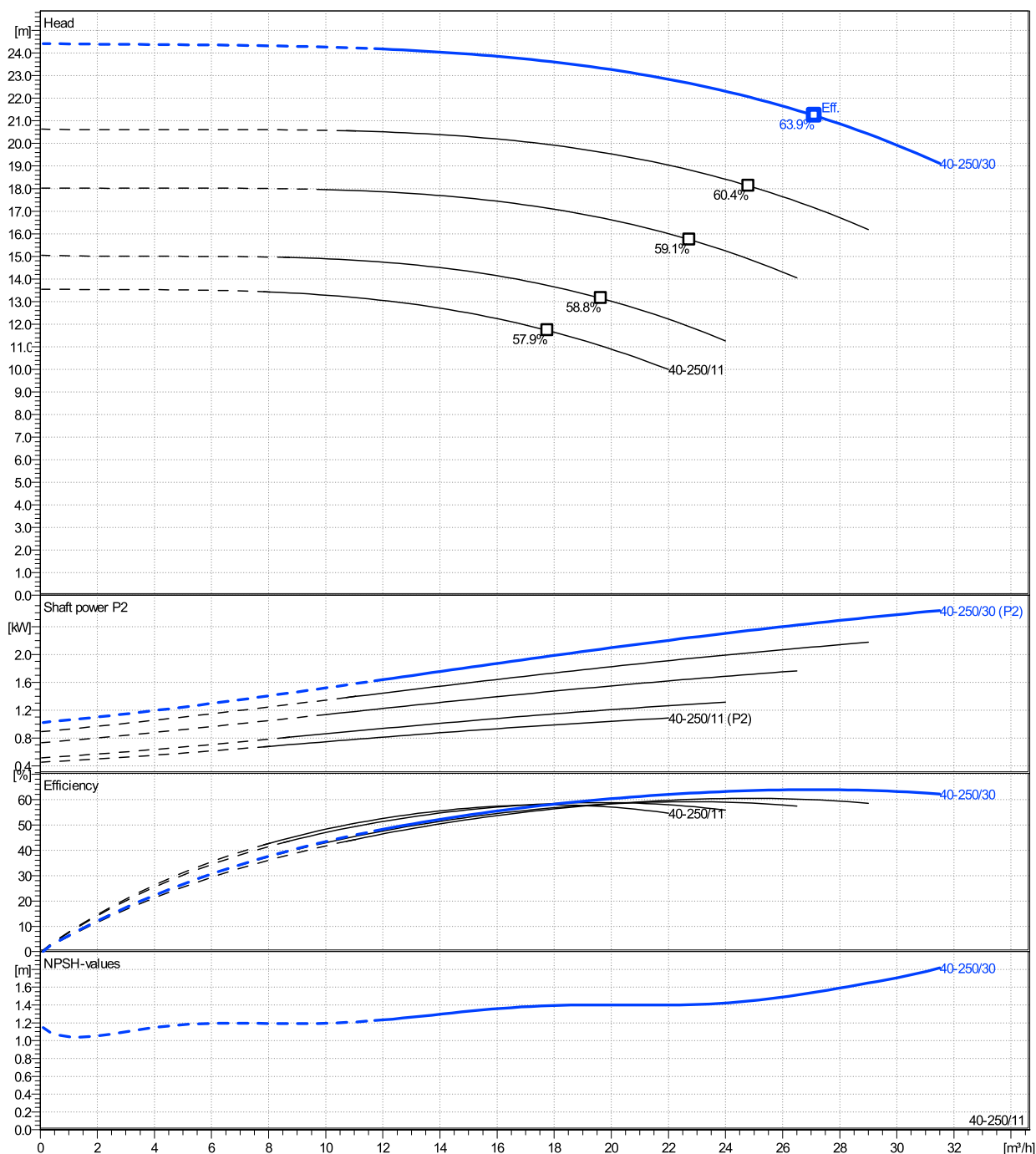
	Ø mm	Pump capacity Operating range			Pump head η		Shaft power P2 η			Frequency Hz	50
		Min. m³/h	Max. m³/h	Max. m³/h	H(Q=0) m	Max. m	P2(Q=0) kW	Max. kW	Max. kW	Operating speed rpm	1450
actual	257	12	31.5	27.1	24.4	21.2		2.63	2.45	Nominal flow m³/h	0
Min.	0	/	/	17.8	13.5	11.7		/	0.983	Nominal head m	0
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



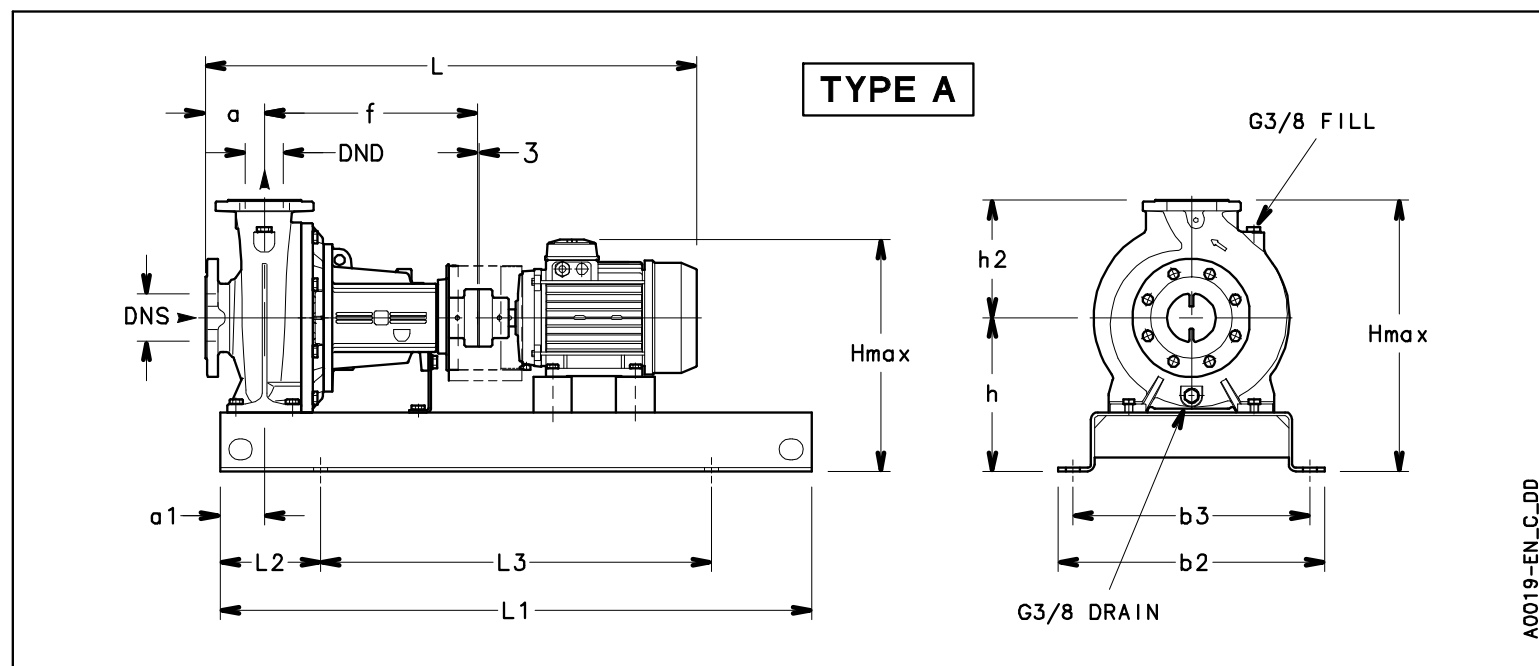
NSCF 40-250/30/P45RCS4

Dimensions

Company name
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Frame mounted
[F] = 4 poles motor unit with standard coupling
PLM 100 B3 3 kW

Electrical and dimensional data refer to IE3 motor



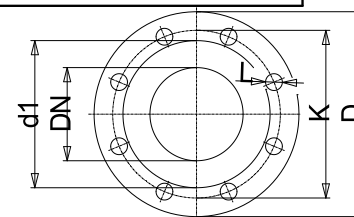
Dimensions		[mm]
a	100	
a1	75	
AD	164	
b2	450	
b3	400	
DND	40	
DNS	65	
f	360	
Guard	113	
h	280	
h2	225	
Hmax	505	
L	888	
L1	1000	
L2	170	
L3	660	
s	4xØ24	
Type	A	
Volumen	0.2018	
x	3	

Weight

Total weight	128.88 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

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